



**NEMO|etc.**

Certificate of Authorization #32455  
353 Christian Street, Unit #13  
Oxford, CT 06478  
(203) 262-9245

ENGINEER

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**EVALUATION REPORT**

**GAF**

1 Campus Drive  
Parsippany, NJ 07054  
**(800) 766-3411**

**Evaluation Report 01506.09.05-R35**

**FL5293-R34**

**Date of Issuance: 11/09/2005**

**Revision 35: 04/15/2019**

**SCOPE:**

This Evaluation Report is issued under **Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been evaluated for compliance with the **6<sup>th</sup> Edition (2017) Florida Building Code** sections noted herein.

**DESCRIPTION: EverGuard® TPO Single-Ply Roof Membrane Systems**

**LABELING:** Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein.

**CONTINUED COMPLIANCE:** This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO|etc. requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

**ADVERTISEMENT:** The Evaluation Report number preceded by the words "NEMO|etc. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

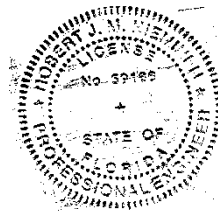
**INSPECTION:** Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 6, plus a 115-page Appendix.

**Prepared by:**

**Robert J.M. Nieminen, P.E.**

Florida Registration No. 59166, Florida DCA ANE1983



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 04/15/2019. This does not serve as an electronically signed document.

**CERTIFICATION OF INDEPENDENCE:**

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO|etc. nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

**ROOFING SYSTEMS EVALUATION:**
**1. SCOPE:**

**Product Category:** Roofing  
**Sub-Category:** Single Ply Roof Systems  
**Compliance Statement:** EverGuard® TPO Single-Ply Roof Membrane Systems, as produced by GAF, have demonstrated compliance with the following sections of the 6<sup>th</sup> Edition (2017) Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

**2. STANDARDS:**

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1504.3.1	Wind	FM 4474	2011
1504.7	Impact	FM 4470	2012
1507.13.2	Physical Properties	ASTM D6878	2011
1523.6.2	Wind	TAS 114	2011

**3. REFERENCES:**

<u>Entity</u>	<u>Exam</u>	<u>Reference</u>	<u>Date</u>	<u>Entity</u>	<u>Exam</u>	<u>Reference</u>	<u>Date</u>
ACRC (TST4671)	TAS 114	06-035	10/18/2006	FM App (TST1867)	FM 4474	797-09635-267	07/16/2014
ACRC (TST4671)	TAS 114	07-005	01/17/2007	FM App (TST1867)	FM 4474	797-09892-267	10/30/2014
ACRC (TST4671)	TAS 114	07-024	03/01/2007	FM App (TST1867)	FM 4474	797-10123-283	12/17/2014
ACRC (TST4671)	TAS 114	07-016	04/19/2007	FM App (TST1867)	FM 4474	797-10153-267	12/19/2014
ACRC (TST4671)	TAS 114	07-017	04/19/2007	FM App (TST1867)	FM 4474	797-10210-267	02/05/2015
ACRC (TST4671)	TAS 114	07-025	05/02/2007	FM App (TST1867)	FM 4474	797-10211-267	02/05/2015
ACRC (TST4671)	TAS 114	07-026	05/03/2007	FM App (TST1867)	FM 4474	797-10212-267	02/05/2015
ACRC (TST4671)	TAS 114	07-027	05/04/2007	FM App (TST1867)	FM 4474	797-RR20018	02/23/2015
ACRC (TST4671)	TAS 114	07-042	08/31/2007	FM App (TST1867)	FM 4474	RR200320	04/07/2015
ACRC (TST4671)	TAS 114	07-043	09/05/2007	FM App (TST1867)	FM 4474	RR200321	04/07/2015
ACRC (TST4671)	TAS 114	07-045	09/06/2007	FM App (TST1867)	FM 4474	3055411	04/15/2015
ACRC (TST4671)	TAS 114	07-046	09/06/2007	FM App (TST1867)	FM 4474	3047636 - LTR	06/24/2015
ACRC (TST4671)	TAS 114	07-048	09/07/2007	FM App (TST1867)	FM 4474	RR202913	11/19/2015
ACRC (TST4671)	TAS 114	07-049	09/10/2007	FM App (TST1867)	FM 4474	3053501	01/14/2016
ACRC (TST4671)	TAS 114	07-080	01/03/2008	FM App (TST1867)	FM 4474	3055167	02/10/2016
ACRC (TST4671)	TAS 114	08-022	04/17/2008	FM App (TST1867)	FM 4474	RR204005	04/13/2016
ACRC (TST4671)	TAS 114	08-030	04/05/2008	FM App (TST1867)	FM 4474	RR205159	05/05/2016
ACRC (TST4671)	TAS 114	08-023	04/17/2008	FM App (TST1867)	FM 4474	RR205192	05/09/2016
ACRC (TST4671)	TAS 114	08-033	04/19/2008	FM App (TST1867)	FM 4474	RR205233	06/15/2016
ACRC (TST4671)	TAS 114	08-032	04/19/2008	FM App (TST1867)	FM 4474	RR205846	07/21/2016
ACRC (TST4671)	TAS 114	11-004	03/21/2011	FM App (TST1867)	FM 4474	RR205474	08/31/2016
ACRC (TST4671)	TAS 114	11-011	03/24/2011	FM App (TST1867)	FM 4474	RR206198	09/01/2016
ACRC (TST4671)	TAS 114	11-012	04/06/2011	FM App (TST1867)	FM 4474	RR206353	09/07/2016
ACRC (TST4671)	TAS 114	11-013	04/06/2011	FM App (TST1867)	FM 4474	RR206620	09/12/2016
ACRC (TST4671)	TAS 114	11-019	04/08/2011	FM App (TST1867)	FM 4474	RR206351	10/21/2016
ACRC (TST4671)	TAS 114	11-020	04/08/2011	FM App (TST1867)	FM 4474	3055491	12/05/2016
ACRC (TST4671)	TAS 114	11-021	04/11/2011	FM App (TST1867)	FM 4474	3058483	12/09/2016
ACRC (TST4671)	TAS 114	11-040	08/05/2011	FM App (TST1867)	FM 4474	3056728 LTR	12/23/2016
ACRC (TST4671)	TAS 114	11-041	08/05/2011	FM App (TST1867)	FM 4470	3056822 LTR	01/04/2017
ACRC (TST4671)	TAS 114	11-056	09/30/2011	FM App (TST1867)	FM 4474	RR208456	02/13/2017
ACRC (TST4671)	TAS 114	12-008	04/10/2012	FM App (TST1867)	FM 4474	3061218	05/10/2017
ACRC (TST4671)	TAS 114	12-012	04/23/2012	FM App (TST1867)	FM 4474	3061218 LTR	05/16/2017
ACRC (TST4671)	TAS 114	12-013	04/23/2012	FM App (TST1867)	FM 4474	RR209927	06/23/2017
ACRC (TST4671)	TAS 114	12-014	04/23/2012	FM App (TST1867)	FM 4474	RR210305	07/13/2017
ACRC (TST4671)	TAS 114	12-016	04/24/2012	FM App (TST1867)	FM 4474	RR212730	04/05/2018
ACRC (TST4671)	TAS 114	12-019	04/25/2012	FM App (TST1867)	FM 4474	PR449797	04/24/2018
ACRC (TST4671)	TAS 114	12-024	05/09/2012	FM App (TST1867)	FM 4474	RR213333	04/25/2018
ACRC (TST4671)	TAS 114	12-025	05/09/2012	FM App (TST1867)	FM 4474	3056933	07/19/2018
ACRC (TST4671)	TAS 114	12-029	05/23/2012	FM App (TST1867)	FM 4474	3061784	07/25/2018
ACRC (TST4671)	TAS 114	12-030	05/23/2012	FM App (TST1867)	FM 4474	RR215107-267	09/27/2018
ACRC (TST4671)	TAS 114	11-042-R1	01/27/2012	FM App (TST1867)	FM 4474	3055904	10/25/2018
ACRC (TST4671)	TAS 114	12-033	08/10/2012	FM App (TST1867)	FM 4474	RR215191-267	11/07/2018
ACRC (TST4671)	TAS 114	12-036	08/13/2012	FM App (TST1867)	FM 4474	RR215193-267	11/08/2018
ACRC (TST4671)	TAS 114	12-018-R1	01/30/2013	IRT (TST7408)	TAS 114	02-008	01/18/2002
ACRC (TST4671)	TAS 114	08-022-R1	01/15/2015	IRT (TST7408)	TAS 114	03-0728	02/17/2004



Entity	Exam	Reference	Date	Entity	Exam	Reference	Date
ACRC (TST4671)	TAS 114	11-056-R2	01/23/2015	IRT (TST7408)	TAS 114	04-012	02/18/2004
ACRC (TST4671)	TAS 114	16-002	03/04/2016	IRT (TST7408)	TAS 114	04-019	04/26/2004
ATI (TST1558)	TAS 114	H-3320.01-109-44	08/10/2017	PRI (TST5878)	Physicals	GAF-373-02-01	10/15/2012
ATI (TST1558)	TAS 114	H-3314.01-109-44	08/14/2017	PRI (TST5878)	FM 4474	GAF-043-02-03	09/16/2013
ATI (TST1558)	TAS 114	H-3315.01-109-44	08/14/2017	PRI (TST5878)	FM 4474	GAF-043-02-04	09/16/2013
ATI (TST1558)	TAS 114	H-3317.01-109-44	08/14/2017	PRI (TST5878)	Physicals	GAF-421-02-01	10/22/2013
ATI (TST1558)	TAS 114	H-3318.01-109-44	08/14/2017	PRI (TST5878)	Physicals	GAF-422-02-01	10/22/2013
ATI (TST1558)	TAS 114	H-0730.01-109-44	08/16/2017	PRI (TST5878)	Physicals	GAF-424-02-01	11/11/2013
ERD (TST6049)	TAS 114	SC8580.11.15-4	11/09/2015	PRI (TST5878)	Physicals	GAF-425-02-01	11/11/2013
ERD (TST6049)	FM 4474	SC8580.11.15-2	11/18/2015	PRI (TST5878)	Physicals	GAF-462-02-02	11/18/2013
ERD (TST6049)	Criticality	SC16505.17	09/22/2017	PRI (TST5878)	FM 4474	GAF-457-02-02	01/20/2014
ERD (TST6049)	FM 4474	SC16825.12.17-1	12/31/2017	PRI (TST5878)	FM 4474	GAF-457-02-04	01/24/2014
ERD (TST6049)	FM 4474	SC16825.12.17-3B	12/31/2017	PRI (TST5878)	FM 4474	GAF-457-02-06	01/24/2014
F-TEC (TST7393)	TAS 114	08-050183	06/26/2008	PRI (TST5878)	FM 4474	GAF-457-02-07	01/24/2014
F-TEC (TST7393)	TAS 114	08-050184	06/26/2008	PRI (TST5878)	FM 4474	GAF-457-02-08	01/24/2014
F-TEC (TST7393)	TAS 114	08-070133	08/04/2008	PRI (TST5878)	Physicals	GAF-423-02-01	01/27/2014
F-TEC (TST7393)	TAS 114	08-050185	10/14/2008	PRI (TST5878)	Physicals	GAF-426-02-01	01/27/2014
F-TEC (TST7393)	TAS 114	08-072805	02/16/2009	PRI (TST5878)	Rupture	GAF-435-02-01	01/29/2014
FM App (TST1867)	FM 4470	3003617	12/20/1999	PRI (TST5878)	FM 4474	GAF-435-02-07	01/29/2014
FM App (TST1867)	FM 4470	3009026	06/18/2002	PRI (TST5878)	FM 4474	GAF-435-02-08	01/29/2014
FM App (TST1867)	FM 4470	3013861	03/28/2003	PRI (TST5878)	FM 4474	GAF-435-02-09	01/29/2014
FM App (TST1867)	FM 4470	3014692	08/05/2003	PRI (TST5878)	FM 4474	GAF-435-02-10	01/29/2014
FM App (TST1867)	FM 4470	3014955	01/22/2004	PRI (TST5878)	FM 4474	GAF-435-02-11	01/29/2014
FM App (TST1867)	FM 4470	3012721	02/11/2004	PRI (TST5878)	FM 4474	GAF-506-02-06	03/06/2014
FM App (TST1867)	FM 4470	3015029	02/19/2004	PRI (TST5878)	FM 4474	GAF-506-02-08	03/06/2014
FM App (TST1867)	FM 4470	3015578	03/12/2004	PRI (TST5878)	FM 4474	GAF-506-02-10	03/06/2014
FM App (TST1867)	FM 4470	3020588	03/24/2004	PRI (TST5878)	FM 4474	GAF-510-02-02	04/08/2014
FM App (TST1867)	FM 4470	3019881	03/20/2004	PRI (TST5878)	FM 4474	GAF-510-02-04	04/08/2014
FM App (TST1867)	FM 4470	3016068	04/02/2004	PRI (TST5878)	FM 4474	GAF-510-02-05	04/08/2014
FM App (TST1867)	FM 4470	3013861	05/21/2004	PRI (TST5878)	FM 4474	GAF-511-02-02	04/08/2014
FM App (TST1867)	FM 4470	3105578	05/12/2004	PRI (TST5878)	FM 4474	GAF-506-02-11	04/14/2014
FM App (TST1867)	FM 4470	3014955	01/28/2005	PRI (TST5878)	FM 4474	GAF-506-02-12	04/14/2014
FM App (TST1867)	FM 4470	3022136	03/17/2005	PRI (TST5878)	FM 4474	GAF-506-02-13	04/14/2014
FM App (TST1867)	FM 4470	3020681	09/01/2005	PRI (TST5878)	FM 4474	GAF-506-02-14	04/14/2014
FM App (TST1867)	FM 4470	3024051	03/28/2006	PRI (TST5878)	FM 4474	GAF-506-02-01	04/22/2014
FM App (TST1867)	FM 4470	797-02093-267	04/26/2006	PRI (TST5878)	FM 4474	GAF-514-02-01	05/12/2014
FM App (TST1867)	FM 4470	3023458	07/18/2006	PRI (TST5878)	FM 4474	GAF-514-02-03	05/12/2014
FM App (TST1867)	FM 4470	3028039	09/11/2006	PRI (TST5878)	FM 4474	GAF-514-02-04	05/12/2014
FM App (TST1867)	FM 4470	3027159	10/03/2006	PRI (TST5878)	FM 4474	GAF-514-02-05	05/12/2014
FM App (TST1867)	FM 4470	3026149	02/05/2007	PRI (TST5878)	FM 4474	GAF-514-02-07	05/12/2014
FM App (TST1867)	FM 4470	3026964	07/25/2007	PRI (TST5878)	FM 4474	GAF-514-02-08	05/12/2014
FM App (TST1867)	FM 4470	3028857	11/02/2007	PRI (TST5878)	FM 4474	GAF-516-02-01	05/13/2014
FM App (TST1867)	FM 4470	3030199	11/05/2007	PRI (TST5878)	FM 4474	GAF-516-02-03	05/13/2014
FM App (TST1867)	FM 4470	3030813	11/05/2007	PRI (TST5878)	FM 4474	GAF-516-02-02	06/06/2014
FM App (TST1867)	FM 4470	3031262	11/30/2007	PRI (TST5878)	FM 4474	GAF-525-02-02	06/23/2014
FM App (TST1867)	FM 4470	3030292	02/25/2008	PRI (TST5878)	FM 4474	GAF-525-02-03	06/23/2014
FM App (TST1867)	FM 4470	797-03825-267	07/21/2008	PRI (TST5878)	FM 4474	GAF-462-02-09	07/01/2014
FM App (TST1867)	FM 4470	3033314	08/26/2008	PRI (TST5878)	FM 4474	GAF-462-02-10	07/01/2014
FM App (TST1867)	FM 4470	3034749	10/16/2008	PRI (TST5878)	FM 4474	GAF-462-02-11	07/01/2014
FM App (TST1867)	FM 4470	3032856	11/24/2008	PRI (TST5878)	FM 4474	GAF-524-02-02	07/01/2014
FM App (TST1867)	FM 4470	3033135	11/24/2008	PRI (TST5878)	FM 4474	GAF-524-02-03	07/01/2014
FM App (TST1867)	FM 4470	3033862	12/24/2008	PRI (TST5878)	FM 4474	GAF-524-02-05	07/01/2014
FM App (TST1867)	FM 4470	3034394	02/27/2009	PRI (TST5878)	FM 4474	GAF-540-02-02	08/06/2014
FM App (TST1867)	FM 4470	3033121	04/13/2009	PRI (TST5878)	FM 4474	GAF-540-02-03	08/06/2014
FM App (TST1867)	FM 4470	3035300	05/06/2009	PRI (TST5878)	FM 4474	GAF-540-02-04	08/06/2014
FM App (TST1867)	FM 4470	3036614	06/09/2009	PRI (TST5878)	FM 4474	GAF-538-02-02	08/13/2014
FM App (TST1867)	FM 4470	3034310	06/15/2009	PRI (TST5878)	FM 4474	GAF-538-02-03	08/13/2014
FM App (TST1867)	FM 4470	3036141	08/10/2009	PRI (TST5878)	FM 4474	GAF-532-02-01	08/22/2014
FM App (TST1867)	FM 4470	3037820	04/30/2010	PRI (TST5878)	FM 4474	GAF-524-02-05	08/27/2014
FM App (TST1867)	FM 4470	797-059797-267	08/18/2010	PRI (TST5878)	FM 4474	GAF-549-02-01	08/07/2014
FM App (TST1867)	FM 4470	3038215	09/02/2010	PRI (TST5878)	FM 4474	GAF-538-02-04	09/02/2014
FM App (TST1867)	FM 4470	797-05901-267	10/01/2010	PRI (TST5878)	FM 4474	GAF-559-02-11	10/16/2014
FM App (TST1867)	FM 4470	797-06003-267	11/11/2010	PRI (TST5878)	FM 4474	GAF-559-02-12	10/16/2014
FM App (TST1867)	FM 4470	3038318	12/10/2010	PRI (TST5878)	FM 4474	GAF-559-02-13	10/16/2014
FM App (TST1867)	FM 4470	797-06178-267	02/07/2011	PRI (TST5878)	FM 4474	GAF-559-02-14	10/16/2014
FM App (TST1867)	FM 4470	3040234	02/23/2011	PRI (TST5878)	FM 4474	GAF-559-02-15	10/16/2014
FM App (TST1867)	FM 4470	3040377	03/08/2011	PRI (TST5878)	FM 4474	GAF-559-02-16	10/16/2014
FM App (TST1867)	FM 4470	3041685	03/24/2011	PRI (TST5878)	FM 4474	GAF-559-02-18	10/16/2014
FM App (TST1867)	FM 4470	797-06254-267	03/24/2011	PRI (TST5878)	FM 4474	GAF-538-02-05	12/03/2014
FM App (TST1867)	FM 4470	3041535	06/08/2011	PRI (TST5878)	Physicals	GAF-584-02-01	12/07/2015

Entity	Exam	Reference	Date	Entity	Exam	Reference	Date
FM App (TST1867)	FM 4470	797-06537-267	06/13/2011	PRI (TST5878)	Physicals	GAF-585-02-01	12/07/2015
FM App (TST1867)	FM 4470	797-06538-267	06/13/2011	PRI (TST5878)	Physicals	GAF-586-02-01	12/07/2015
FM App (TST1867)	FM 4470	3041746	08/17/2011	PRI (TST5878)	FM 4474	GAF-453-02-05	05/06/2016
FM App (TST1867)	FM 4470	797-06894-267	11/02/2011	PRI (TST5878)	FM 4474	GAF-453-02-09	05/06/2016
FM App (TST1867)	FM 4470	3038278	11/18/2011	PRI (TST5878)	Physicals	GAF-653-02-01	10/20/2016
FM App (TST1867)	FM 4470	3042905	01/10/2012	PRI (TST5878)	FM 4474	GAF-653-02-04	10/20/2016
FM App (TST1867)	FM 4470	797-07041-267	02/27/2012	PRI (TST5878)	FM 4474	GAF-746-02-01	12/14/2016
FM App (TST1867)	FM 4470	797-07183-267	03/01/2012	PRI (TST5878)	FM 4474	GAF-746-02-02	12/14/2016
FM App (TST1867)	FM 4470	3044506	03/28/2012	PRI (TST5878)	FM 4474	GAF-746-02-05	12/14/2016
FM App (TST1867)	FM 4470	797-07331-267	04/13/2012	PRI (TST5878)	FM 4474	GAF-746-02-06	12/14/2016
FM App (TST1867)	FM 4470	3044862	05/11/2012	PRI (TST5878)	FM 4470	GAF-755-02-01	02/02/2017
FM App (TST1867)	FM 4470	797-07455-267	05/31/2012	PRI (TST5878)	FM 4474	GAF-755-02-02	02/02/2017
FM App (TST1867)	FM 4470	797-07474-267	06/11/2012	PRI (TST5878)	FM 4474	GAF-755-02-03	02/02/2017
FM App (TST1867)	FM 4470	797-07476-267	06/21/2012	PRI (TST5878)	FM 4474	GAF-755-02-04	02/02/2017
FM App (TST1867)	FM 4470	3045789	07/12/2012	PRI (TST5878)	Physicals	GAF-700-02-01	03/10/2017
FM App (TST1867)	FM 4470	3045166	07/24/2012	PRI (TST5878)	FM 4474	GAF-782-02-01	08/24/2017
FM App (TST1867)	FM 4470	3045863	08/16/2012	PRI (TST5878)	FM 4474	GAF-782-02-02	08/30/2017
FM App (TST1867)	FM 4470	3041749	08/23/2012	PRI (TST5878)	FM 4474	GAF-776-02-02	10/04/2017
FM App (TST1867)	FM 4470	3046328	09/13/2012	PRI (TST5878)	Criticality	GAF-793-02-01	12/08/2017
FM App (TST1867)	FM 4470	3041769	09/27/2012	PRI (TST5878)	FM 4474	GAF-793-02-02	12/08/2017
FM App (TST1867)	FM 4470	797-07744-267	10/17/2012	PRI (TST5878)	FM 4474	GAF-793-02-04	12/08/2017
FM App (TST1867)	FM 4470	797-07885-267	11/21/2012	PRI (TST5878)	FM 4474	GAF-835-02-02	02/19/2018
FM App (TST1867)	FM 4470	3046054	12/21/2012	PRI (TST5878)	FM 4474	GAF-834-02-01	02/28/2018
FM App (TST1867)	FM 4470	797-08216-267	04/11/2013	PRI (TST5878)	FM 4474	GAF-835-02-03	02/28/2018
FM App (TST1867)	FM 4470	3048122	04/29/2013	PRI (TST5878)	FM 4474	GAF-835-02-04	02/28/2018
FM App (TST1867)	FM 4470	797-08217-267	05/01/2013	PRI (TST5878)	FM 4474	GAF-833-02-01	03/02/2018
FM App (TST1867)	FM 4470	797-08264-267	05/23/2013	PRI (TST5878)	FM 4474	GAF-833-02-02	03/02/2018
FM App (TST1867)	FM 4470	3047237	07/15/2013	PRI (TST5878)	FM 4474	GAF-836-02-01	03/02/2018
FM App (TST1867)	FM 4470	3047636	08/08/2013	PRI (TST5878)	FM 4474	GAF-836-02-02	03/02/2018
FM App (TST1867)	FM 4474	797-08873-267	11/26/2013	PRI (TST5878)	FM 4474	GAF-836-02-03	03/02/2018
FM App (TST1867)	FM 4474	3048066	12/13/2013	PRI (TST5878)	FM 4474	GAF-836-02-04	03/02/2018
FM App (TST1867)	FM 4474	3041749	12/30/2013	PRI (TST5878)	FM 4474	GAF-858-02-05	04/27/2018
FM App (TST1867)	FM 4474	797-09116-267	01/24/2014	PRI (TST5878)	FM 4474	GAF-858-02-01	05/01/2018
FM App (TST1867)	FM 4474	797-09234-267	03/11/2014	PRI (TST5878)	FM 4474	GAF-858-02-02	05/01/2018
FM App (TST1867)	FM 4474	797-09317-267	04/18/2014	PRI (TST5878)	FM 4474	GAF-858-02-03	05/01/2018
FM App (TST1867)	FM 4474	797-09493-267	05/27/2014	PRI (TST5878)	FM 4474	GAF-858-02-04	05/01/2018
FM App (TST1867)	FM 4474	797-09495-267	05/27/2014	PRI (TST5878)	FM 4474	GAF-858-02-06	05/01/2018
FM App (TST1867)	FM 4474	797-09573-267	06/13/2014	PRI (TST5878)	FM 4474	GAF-834-02-03	05/11/2018
FM App (TST1867)	FM 4474	797-09497-267	06/23/2014	PRI (TST5878)	Physicals	GAF-870-02-01	02/19/2019
FM App (TST1867)	FM 4474	797-09594-267	06/24/2014	UL,LLC(QUA9625)	QA	Srv Confirms; IN, PA, TX, UT	12/17/2018

#### 4. PRODUCT DESCRIPTION:

This Evaluation Report covers **EverGuard® TPO Single-Ply Roof Membrane Systems** installed in accordance with **GAF** published installation instructions and the Limitations / Conditions of Use herein.

- 4.1 **EverGuard® TPO** membranes are nominal 45-mil (1.1 mm), 60-mil (1.52-mm) or 80-mil (2.0 mm) thick, internally reinforced thermoplastic polyolefin roof covers supplied. Side and end laps are sealed using hot air welding. The roof cover is mechanically attached or fully-adhered to Approved substrates.
- 4.2 **EverGuard Extreme® TPO** membranes are nominal 50-mil (1.27-mm), 60-mil (1.52-mm), 70-mil (1.8) or 80-mil (2.0 mm) thick, internally reinforced thermoplastic polyolefin roof covers supplied. Side and end laps are sealed using hot air welding. The roof cover is mechanically attached or fully-adhered to Approved substrates.
- 4.3 **EverGuard® TPO FB Ultra** membranes are nominal 45-mil (1.1 mm), 60-mil (1.52-mm) or 80-mil (2.0 mm) thick, internally reinforced thermoplastic (TPO) roof covers with a polyester fleece backing. Side and end laps are sealed using hot air welding. The roof cover is mechanically attached or fully-adhered to Approved substrates.
- 4.4 **EverGuard Extreme® TPO FB Ultra** membranes are nominal 50-mil (1.27-mm), 60-mil (1.52-mm), 70-mil (1.8) or 80-mil (2.0 mm) thick, internally reinforced thermoplastic (TPO) roof covers with a polyester fleece backing. Side and end laps are sealed using hot air welding. The roof cover is mechanically attached or fully-adhered to Approved substrates.

- 4.5 **EverGuard® Freedom™ TPO HW and EverGuard® Freedom™ TPO with RapidSeam™ Technology** membranes are nominal 45-mil (1.1 mm) or 60-mil (1.52-mm) thick, internally reinforced thermoplastic (TPO) roof covers with a self-adhering backing. EverGuard® Freedom™ TPO HW laps are sealed using hot air welding. EverGuard® Freedom™ TPO with RapidSeam™ Technology laps are self-adhering. The roof cover is self-adhered to Approved substrates.

## 5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO|etc. nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in HVHZ jurisdictions.
- 5.3 Refer to a current UL Roofing Materials Directory for fire ratings of this product.
- 5.4 For steel deck installations, foam plastic insulation shall be separated from the building interior in accordance with **FBC 2603.4** unless the exceptions stated in **FBC 2603.4.1** and **2603.6** apply.
- 5.5 The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. Load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
- 5.6 For recover installations, the existing roof shall be examined in accordance with **FBC 1511**.
- 5.7 For mechanically attached insulation or membrane or strip-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC Chapter 16. Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are **ANSI/SPRI WD1**, **FM Loss Prevention Data Sheet 1-29**, **Roofing Application Standard RAS 117** and **Roofing Application Standard RAS 137**. Assemblies marked with an asterisk\* carry the limitations set forth in **Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (January 2016)** for Zone 2/3 enhancements.
- 5.8 For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with **FBC Chapter 16**. No rational analysis is permitted for these systems.
- 5.9 For mechanically attached insulation or membrane over existing roof decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with **ANSI/SPRI FX-1** or **Testing Application Standard TAS 105**.
- 5.10 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance with **ANSI/SPRI IA-1**, **ASTM E907**, **FM Loss Prevention Data Sheet 1-52** or **Testing Application Standard TAS 124** shall be conducted on mock-ups of the proposed new roof assembly.
- 5.11 For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with **ASTM E907**, **FM Loss Prevention Data Sheet 1-52** or **Testing Application Standard TAS 124**.
- 5.12 Metal edge attachment (except gutters), shall be designed and installed for wind loads in accordance with FBC Chapter 16 and tested for resistance in accordance with **ANSI/SPRI ES-1** or **Roofing Application Standard RAS 111**, except the basic wind speed shall be determined from **FBC Figure 1609.3(1)**, **1609.3(2)** or **1609.3(3)**.
- 5.13 All products in the roof assembly shall have quality assurance in accordance with **FAC Rule 61G20-3**.

## 6. INSTALLATION:

- 6.1 **EverGuard® TPO Single-Ply Roof Membrane Systems** shall be installed in accordance with **GAF** published installation instructions, subject to the Limitations / Conditions of Use noted herein.
- 6.2 System attachment requirements for wind load resistance are set forth in Appendix 1. "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per **FBC 1504.9** has already been applied). Refer to **FBC 1609** for determination of design wind loads.
- 6.3 For mechanically fastened membrane systems (Type D) over profiled steel deck, membrane shall be installed running perpendicular to steel deck flutes.

## 7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation of this product.

## 8. MANUFACTURING PLANTS:

Contact named QA entity for details on manufacturing facilities covered for QA under **F.A.C. Rule 61G20-3** requirements.

## 9. QUALITY ASSURANCE ENTITY:

UL, LLC – QUA9625; (847) 664-3281; k.chancellor@ul.com

**- THE 115-PAGES THAT FOLLOW FORM PART OF THIS EVALUATION REPORT -**

**APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE**

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
1A	Wood	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	6
1B	Wood	New or Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	7-9
1C	Wood	New, Reroof (Tear-Off) or Recover	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	10-11
1D	Wood	New, Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	11
1E	Wood	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	12-13
1F	Wood	New, Reroof (Tear-Off) or Recover	C-2	Plate-Bonded Roof Cover	14
1G	Wood	New, Reroof (Tear-Off) or Recover	D-1	Insulated, Mechanically Attached Roof Cover	15
1H	Wood	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	15
1I	Wood	New, Reroof (Tear-Off) or Recover	E-1	Non-Insulated, Mechanically Attached Roof Cover	15
1J	Wood	New, Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	16-18
2A	Steel	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	19
2B	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	20-26
2C	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Base and Cap Ply	27-30
2D	Steel	New or Reroof (Tear-Off)	B-2	Mech. Attached Thermal Barrier, Bonded Temp Roof, Bonded Insulation, Bonded Roof Cover	31-34
2E	Steel	New or Reroof (Tear-Off)	B-2	Mech. Attached Thermal Barrier, Bonded Temp Roof, Bonded Insulation, Bonded Base and Cap Ply	35
2F	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	36-49
2G	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Base and Cap Ply	50-53
2H	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C-1A	Thermal Barrier with Vapor Barrier, Mechanically Attached Insulation, Bonded Roof Cover	54-58
2I	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C-2	Mechanically Attached Insulation, Plate-Bonded Roof Cover	59-61
2J	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	D-1	Insulated, Mechanically Attached Roof Cover	62-64
2K	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	64
3A	Structural concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	65-75
3B	Structural concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Base and Cap Ply	76
3B	Structural concrete	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	77
4A	Lightweight concrete	New or Reroof (Tear-Off)	A-1	LWC to Deck, Bonded Insulation, Bonded Roof Cover	78-79
4B	Lightweight concrete	New or Reroof (Tear-Off)	A-2	LWC to Deck, Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	80
4C	Lightweight concrete	New or Reroof (Tear-Off)	E	LWC to Deck, Mechanically Attached Base Sheet, Bonded Roof Cover	81-82
4D	Lightweight concrete	New or Reroof (Tear-Off)	F	LWC to Deck, Bonded Roof Cover	83-85
4E	Lightweight concrete	New or Reroof (Tear-Off)	F	Temp Roof / Vapor Barrier to Deck, LWC to Temp Roof / Vapor Barrier, Bonded Roof Cover	86
5A	Cementitious wood fiber	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	87
5B	Cementitious wood fiber	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	88
5C	Cementitious wood fiber	New, Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	88
5D	Cementitious wood fiber	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	88
6A	Existing gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	89-90
6B	Existing gypsum	Reroof (Tear-Off)	A-2	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	91
6C	Existing gypsum	Reroof (Tear-Off)	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	92-94
6D	Existing gypsum	Reroof (Tear-Off)	C-1	Mechanically Attached Insulation, Bonded Roof Cover	95
6E	Existing gypsum	Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	96
6F	Existing gypsum	Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	96
7A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	97-111
7B	Wood or Steel	Recover	C-2	Plate-Bonded Roof Cover	112-113
7C	Steel	Recover	D-1	Insulated, Mechanically Attached Roof Cover	114
7D	Various	Recover	F	Non-Insulated, Bonded Roof Cover	115

**The following notes apply to the systems outlined herein:**

1. The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. Load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
2. Unless otherwise noted, fasteners and stress plates for insulation or base sheet attachment shall be as follows. Fasteners shall be of sufficient length for the following engagements:
  - Wood Deck: Drill-Tec #12 Fastener or Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3" Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate or Drill-Tec AccuTrac Recessed Plate (insulation only), Drill-Tec ASAP 3S or Drill-Tec Heavy Duty ASAP Roofing Fastener Assembled with a 3" Metal Plate. Min. 0.75-inch plywood penetration or minimum 1-inch wood plank embedment.
  - Steel Deck: Drill-Tec #12 Fastener, Drill-Tec #14 Fastener or Drill-Tec XHD Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3" Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate or Drill-Tec AccuTrac Recessed Plate (insulation only). Minimum 0.75-inch steel penetration, engage the top flute of the steel deck.
  - Structural Concrete: Drill-Tec #14 Fastener or Drill-Tec CD-10 with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3" Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate or Drill-Tec AccuTrac Recessed Plate (insulation only) or Drill-Tec Heavy Duty ASAP Roofing Fastener Assembled with a 3" Metal Plate. Minimum 1-inch embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions.

3. Unless otherwise noted, insulation may be any one layer or combination of polyisocyanurate, polystyrene, wood fiberboard, perlite, gypsum-based roof board or mineral wool roof board that meets the QA requirements of F.A.C. Rule 61G20-3 and is documented as meeting FBC 1505.1 and, for foam plastic, FBC Chapter 26, when installed with the roof cover.

Refer to GAF published installation instructions for details and requirements regarding the use of polystyrene insulation in EverGuard® roofing systems:

**INSULATION:**

- Expanded polystyrene (EPS) meeting or exceeding ASTM C578, Type II, nominal 1.5 lb/ft<sup>2</sup> density and minimum 15 psi compressive strength.
- Expanded polystyrene (EPS) with plastic facer meeting or exceeding ASTM C578, Type II, nominal 1.5 lb/ft<sup>2</sup> density and minimum 15 psi compressive strength.

**HIGH TRAFFIC APPLICATIONS:**

- Extruded polystyrene (XPS) meeting or exceeding ASTM C578, Type IV, minimum 1-inch thick and minimum 25 psi compressive strength.
- Expanded polystyrene (EPS) with plastic facer meeting or exceeding ASTM C578, Type IX, minimum 1-inch thick and minimum 25 psi compressive strength.

**RECOVER APPLICATIONS:**

- XPS Fan-Fold Recover Board with plastic facer meeting or exceeding ASTM C578, Type IV, 3/8-inch thick and minimum 25 psi compressive strength.
- EPS Recover Board meeting or exceeding ASTM C578, Type IV, 1/2-inch thick and minimum 25 psi compressive strength.
- EPS Recover Board with plastic facer meeting or exceeding ASTM C578, Type II, 1/2-inch thick and minimum 15 psi compressive strength.

FireOut™ Fire Barrier Coating, VersaShield® Fire-Resistant Roof Deck Protection or VersaShield® Solo™ Fire-Resistant Slip Sheet, installed in accordance with GAF published installation instructions and fire resistance certification listings, may be used as a non-load-bearing, fire-barrier / slip-sheet component within any system outlined herein.

4. Minimum 200 psi, minimum 2-inch thick lightweight insulating concrete (LWIC) may be substituted for or installed below the rigid insulation board for System Type C-1 (mechanically attached insulation, bonded roof cover), System Type C-2 (plate-bonded roof cover) or System Type D (mechanically attached membrane), whereby the insulation or membrane fasteners are installed through the LWIC to engage the structural steel or concrete deck. For Type C-1, the top insulation layer shall be that specified in the applicable Table. For Type C-2 or D if the LWIC is installed below, the rigid insulation board may consist of min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation, EnergyGuard NH Ultra Polyiso Insulation, EnergyGuard RA, EnergyGuard RN, EnergyGuard HD Polyiso Insulation, EnergyGuard NH HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation, EnergyGuard NH HD Plus Polyiso Insulation, EnergyGuard RH HD Polyiso Insulation or Structodek High Density Fiberboard Roof Insulation or min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board, SECUROCK Glass-Mat Roof Board. The structural deck shall be of equal or greater type, thickness and strength to the steel and concrete deck listings. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. Load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation. This is a wind uplift resistance allowance and does not purport to address non-wind-uplift-related issues, such as deck venting or moisture levels within the LWIC and the potential effect on overlying components.
5. Preliminary insulation attachment for System Type D: Unless otherwise noted, refer to Section 2.2.10.1.3 of FM Loss Prevention Data Sheet 1-29 (January 2016).
6. Unless otherwise noted, insulation adhesive application rates are as follows. Ribbon or bead width is at the time of application; the ribbons/beads shall expand as noted in the manufacturer's published instructions.
  - Hot Asphalt (HA): Full mopping, 25-30 lbs/square.
  - GAF 2-Part Roofing Adhesive (GAF 2-Part): Continuous 2.5 to 3.5-inch ribbons, 12-inch o.c.
  - LRF Adhesive M (LRF-M): Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c.
  - OlyBond Adhesive Fastener (Classic): Full coverage, 1 gal/square.
  - OlyBond 500 (OB500): Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c. using PaceCart, SpotShot or Canister delivery methods. *Note: OlyBond Classic or OlyBond 500 Green may be used in place of OlyBond 500 when used to bond insulation or coverboards.*



- *Note: When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, board joints shall be staggered.*
- *Note: The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing.*

7. Unless otherwise noted, all insulations are flat stock or taper board of the minimum thickness noted. Tapered polyisocyanurate at the following thickness limitations may be substituted with the following Maximum Design Pressure (MDP) limitations. In no case shall these values be used to 'increase' the MDP listings in the tables; rather if MDP listing below meets or exceeds that listed for a particular system in the tables, then the thinner board listed below may be used as a drop-in for the equivalent thicker material listed in the table.
- Hot Asphalt (HA): MDP = -240.0 psf (Min. 0.5-inch thick)
  - GAF 2-Part Roofing Adhesive (GAF 2-Part): MDP = -117.5 psf (Min. 1.0-inch thick)
  - LRF Adhesive M (LRF-M): MDP = -232.5 psf (Min. 0.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation, EnergyGuard NH Ultra Polyiso Insulation)
  - OlyBond 500 (OB500): MDP = -315.0 psf (Min. 0.5-inch thick EnergyGuard RH or RN)
  - OlyBond 500 (OB500): MDP = -487.5 psf (Min. 0.5-inch thick EnergyGuard RA)
  - OlyBond 500 (OB500): MDP = -292.5 psf (Min. 0.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation, EnergyGuard NH Ultra Polyiso Insulation)
8. Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.
9. For mechanically attached components or partially bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC Chapter 16. Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD1, FM Loss Prevention Data Sheet 1-29, Roofing Application Standard RAS 117 and Roofing Application Standard RAS 137. Assemblies marked with an asterisk\* carry the limitations set forth in Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (January 2016) for Zone 2/3 enhancements.
10. For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16, and no rational analysis is permitted.
11. For mechanically attached components over existing decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with ANSI/SPRI FX-1 or Testing Application Standard TAS 105.
12. For existing substrates in a bonded recover or re-roof installation, the existing roof surface or existing roof deck shall be examined for compatibility and bond performance with the selected adhesive, and the existing roof system (for recover) shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with ANSI/SPRI IA-1, ASTM E907, FM Loss Prevention Data Sheet 1-52 or Testing Application Standard TAS 124.
13. For System Type D, steel deck applications, the roof membrane shall be run with its length perpendicular to the steel deck flutes.
14. For Recover Applications using System Type C-2 or any System Type D, the insulation is optional. Alternatively, a separator board may be installed prior to roof cover installation when using System Type C-2 or any System Type D or a separator sheet may be installed prior to roof cover installation when using any System Type D. The existing roof system shall be suitable for a recover application. The separator component shall be documented as meeting FBC 1505.1 and, for foam plastic, FBC Chapter 26, when installed with the roof cover in Recover applications.
- Separator Board Options for Recover System Type C-2 or System Type D: Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard NH Polyiso Insulation, EnergyGuard RA, EnergyGuard RN, EnergyGuard Ultra Polyiso Insulation, EnergyGuard NH Ultra Polyiso Insulation, Structodeck High Density Fiberboard Roof Insulation, EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard NH HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation or EnergyGuard NH HD Plus Polyiso Insulation or min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Glass-Mat Roof Board.
  - Separator Sheet Options for Recover System Type D: EverGuard Polymat Separation Layer (3 oz/yd<sup>2</sup>) or EverGuard Polymat Cushioning Layer (6 oz/yd<sup>2</sup>).
15. Lightweight insulating concrete (LWIC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWIC is referenced, refer to current LWIC Product Approval for specific deck construction and limitations. Unless otherwise noted, for systems where specific LWIC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWIC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1. For "pre-existent" LWC references, listings were established through testing over lightweight concrete cast using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Unless otherwise noted, use of these listings in new construction or re-roof (tear-off) applications is at the discretion of the Designer or Record and Authority Having Jurisdiction.

16. For adhesive-applied membrane systems, side laps shall be minimum 3-inch wide sealed with min. 1.5-inch heat weld. Unless otherwise noted, membrane adhesive application rates are as follows:

GAF ROOF COVER / ADHESIVE COMBINATIONS			
MEMBRANE	ADHESIVE	METHOD	RATE
EverGuard TPO	EverGuard TPO #1121 Bonding Adhesive (#1121)	Contact (both sides)	0.8 to 1.0 gal/square/surface. For use over SECUROCK Gypsum-Fiber Roof Board, the application rate changes to 1.2 to 1.67 gal/sq/surface
EverGuard TPO	EverGuard WB181 Bonding Adhesive (WB181)	Contact (both sides)	To polyisocyanurate or Structodek High Density Fiberboard Roof Insulation, Fiber Base HD1 or Fiber Base HD6 at 0.63 gal/square and roof cover underside at 0.21 gal/square. To Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board at 0.63 to 0.75 gal/square and roof cover underside at 0.21 to 0.25 gal/square
EverGuard TPO	EverGuard Low VOC TPO Bonding Adhesive (L-VOC)	Contact (both sides)	0.46 gal/square/surface
EverGuard TPO	EverGuard TPO 3 Square Low VOC Bonding Adhesive (TPO 3-Square)	Contact (both sides)	0.84 gal/square/surface
EverGuard TPO FB Ultra	Hot asphalt	Wet lay (substrate)	25 lbs/square
EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive (WB181)	Wet lay (substrate)	0.83 to 1.0 gal/square
EverGuard TPO FB Ultra	GAF LRF Adhesive M (LRF-M) or LRF Adhesive O (LRF-O)	Wet lay (substrate)	1-inch wide ribbons spaced as noted in tables herein. Note: The adhesive ribbons are located directly over the adhesive ribbons used to secure the insulation when the cover is bonded to insulation less than 1.5-inch thick.
EverGuard TPO FB Ultra	GAF 2-Part Roofing Adhesive (GAF 2-Part)	Wet lay (substrate)	"Spatter pattern" at 3.75 lbs/sq.
EverGuard TPO FB Ultra	OlyBond 500 Canister	Wet lay (substrate)	"Spatter pattern" at 0.32 gal/square (to insulation or coverboard) "Spatter pattern" at 0.83 gal/square (to asphaltic base ply membrane).

17. Vapor barrier options for over **structural concrete deck** with adhered insulation carry the following Maximum Design Pressure (MDP) limitations. The **lesser** of the MDP listings below vs. those in **Table 3A** applies:

VAPOR BARRIER OPTIONS; STRUCTURAL CONCRETE DECK; ADHERED INSULATION PER TABLES 3A-1 AND 3A-2					
OPTION #	PRIMER	VAPOR BARRIER		INSULATION ADHESIVE	MDP (PSF)
		TYPE	ATTACH		
VB-1.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	One or two plies, GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Ply 4, Tri-Ply Ply 4 or GAFGLAS FlexPly 6	Hot asphalt applied	Hot asphalt	-360.0
VB-2.	GAF SA Primer	Ruberoid SA Universal Base	Self-adhering	GAF 2-Part, 12-inch o.c.	-157.5
VB-3.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid Torch Granule	Torch-applied	GAF 2-Part, 12-inch o.c.	-169.0
VB-4.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid HW 25 Smooth or Ruberoid HW Smooth	Torch-applied	GAF 2-Part, 12-inch o.c.	-180.0
VB-5.	GAF SA Primer	GAF SA Vapor Retarder	Self-adhering	GAF 2-Part, 12-inch o.c.	-202.5
VB-6.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Liberty SBS Self-Adhering Cap Sheet	Self-adhering	GAF 2-Part, 12-inch o.c.	-250.0
VB-7.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	One or two plies, GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Ply 4, Tri-Ply Ply 4 or GAFGLAS FlexPly 6	Hot asphalt applied	GAF 2-Part, 12-inch o.c.	-262.5
VB-8.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid 30	Hot asphalt applied	GAF 2-Part, 12-inch o.c.	-270.0
VB-9.	GAF SA Primer	Ruberoid SA Universal Base Sheet	Self-adhering	LRF-M, 12-inch o.c.	-157.5
VB-10.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid HW 25 Smooth or Ruberoid HW Smooth	Torch-applied	LRF-M, 12-inch o.c.	-180.0
VB-11.	GAF SA Primer	GAF SA Vapor Retarder	Self-adhering	LRF-M, 12-inch o.c.	-202.5
VB-12.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	One or two plies, GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Ply 4, Tri-Ply Ply 4 or GAFGLAS FlexPly 6	Hot asphalt applied	LRF-M, 12-inch o.c.	-495.0
VB-13.	GAF SA Primer	Ruberoid SA Universal Base Sheet	Self-adhering	OlyBond 500, 12-inch o.c.	-157.5
VB-14.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid Torch Smooth	Torch-applied	OlyBond 500, 12-inch o.c.	-165.0
VB-15.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid HW 25 Smooth	Torch-applied	OlyBond 500, 12-inch o.c.	-180.0

VAPOR BARRIER OPTIONS; STRUCTURAL CONCRETE DECK; ADHERED INSULATION PER TABLES 3A-1 AND 3A-2					
OPTION #	PRIMER	VAPOR BARRIER		INSULATION ADHESIVE	MDP (PSF)
		TYPE	ATTACH		
VB-16.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid 20 Smooth	Matrix 102 SBS Membrane Adhesive at 1.5 gal/square	OlyBond 500, 12-inch o.c.	-202.5
VB-17.	GAF SA Primer	GAF SA Vapor Retarder	Self-adhering	OlyBond 500, 12-inch o.c.	-202.5
VB-18.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	Ruberoid HW Smooth	Torch-applied	OlyBond 500, 12-inch o.c.	-232.5
VB-19.	Matrix 307 Premium Asphalt Primer or ASTM D41 primer	One or two plies, GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS Ply 4, Tri-Ply Ply 4 or GAFGLAS FlexPly 6	Hot asphalt applied	OlyBond 500, 12-inch o.c.	-352.5

18. Side laps for EverGuard Freedom TPO with RapidSeam Technology are self-adhering. Side laps for EverGuard Freedom TPO HW are heat welded. Unless otherwise noted, reference to EverGuard Freedom TPO in this Appendix relates to either method.
19. The “Triposite Roofing System” noted herein consists of loose-laid GAFGLAS Stratavent Perforated Venting Base Sheet, followed by asphalt-applied two (2) plies of Ruberoid 20 Smooth or three (3) plies of GAFGLAS FlexPly 6, followed by asphalt-applied 80-mil EverGuard TPO FB Ultra with 1-5/8” heat welded side laps.
20. Unless otherwise noted, the “Hybrid Roofing System” noted herein consists of asphalt-applied Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5, GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet or GAFGLAS #80 Ultima Base Sheet followed by asphalt-applied EverGuard TPO FB Ultra.
21. EverGuard Extreme TPO may be used as an alternate to EverGuard TPO. EverGuard Extreme TPO FB Ultra may be used as an alternate to EverGuard TPO FB Ultra.
22. The following insulations are interchangeable within the scope of this Evaluation Report:
  - EnergyGuard Polyiso Insulation ⇔ EnergyGuard NH Polyiso Insulation;
  - EnergyGuard Ultra Polyiso Insulation ⇔ EnergyGuard NH Ultra Polyiso Insulation;
  - EnergyGuard HD Polyiso Insulation ⇔ EnergyGuard NH HD Polyiso Insulation;
  - EnergyGuard HD Plus Polyiso Insulation ⇔ EnergyGuard NH HD Plus Polyiso Insulation.
23. GAF SA Vapor Retarder may be installed atop the roof deck prior to installation of the insulation for System Type B-1 (Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover), Type C-1 (Mechanically Attached Insulation, Bonded Roof Cover) or Type C-2 (Plate Bonded Roof Cover). Substrate shall be primed with GAF SA Primer, if required by GAF published installation instructions. Refer to FM Loss Prevention Data Sheet 1-29 (January 2016) for design and installation recommendations and GAF fire resistance certification listings for internal fire requirements.
24. “MDP” = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609 for determination of design wind loads.

**TABLE 1A: WOOD DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
W-1.	Min. 19/32-inch plywood or OSB at max. 2 ft spans	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layers base insulation, flat or tapered	GAF 2-Part	EverGuard Freedom TPO / self adhered	-52.5
W-2.	Min. 19/32-inch plywood or OSB at max. 2 ft spans	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layers base insulation, flat or tapered	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square, WB181	-52.5
W-3.	Min. 15/32-inch plywood at max. 2 ft spans	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layers base insulation, flat or tapered	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-67.5
W-4.	Min. 15/32-inch plywood at max. 2 ft spans	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500, 6-inch o.c.	(Optional) Additional layers base insulation, flat or tapered	OB500, 6-inch o.c.	EverGuard TPO / L-VOC, TPO 3-Square	-75.0

**TABLE 1B: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 16)		MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Base	Cap	
W-5.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
W-6.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
W-7.	Min. 19/32-inch plywood at max. 24-inch span	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	9-inch o.c. at min. 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
W-8.	Min. 19/32-inch plywood at max. 24-inch span	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	9-inch o.c. at min. 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
W-9.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	6-inch o.c. at the 4-inch lap and 6-inch o.c. in two staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5

**TABLE 1B: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 16)		MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Base	Cap	
W-10.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	6-inch o.c. at the 4-inch lap and 6-inch o.c. in two staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-11.	Min. 19/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	8-inch o.c. at the 4-inch lap and 8-inch o.c. in two staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-12.	Min. 19/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	8-inch o.c. at the 4-inch lap and 8-inch o.c. in two staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-13.	Min. 19/32-inch plywood at max. 24-inch span	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-75.0*
W-14.	Min. 19/32-inch plywood at max. 24-inch span	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-75.0
W-15.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso	HA	(Optional) Additional layer(s) base insulation	HA	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0

**TABLE 1B: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 16)		MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Base	Cap	
		W-16.	Min. 19/32-inch plywood at max. 24-inch span	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Eliminator Nailable Venting Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	9-inch o.c. at the min. 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso	HA	(Optional) Additional layer(s) base insulation	HA	
W-17.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	6-inch o.c. at min. 4-inch laps and 6-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso	HA	(Optional) Additional layer(s) base insulation	HA	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-18.	Min. 19/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch diameter tin caps with 12 ga. annular ring shank nails	8-inch o.c. at the 4-inch lap and 8-inch o.c. in two staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso	HA	(Optional) Additional layer(s) base insulation	HA	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-19.	Min. 19/32-inch plywood at max. 24-inch span	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso	HA	(Optional) Additional layer(s) base insulation	HA	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-75.0*

**TABLE 1C: WOOD DECKS – NEW CONSTRUCTION. REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 16)		MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Base	Cap	
W-20.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	16-inch o.c. at the min. 4-inch lap and 16-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-21.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	16-inch o.c. at the min. 4-inch lap and 16-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-22.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	12-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-23.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	12-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-24.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or EnergyGuard Perlite Recover Board or Min. 0.75-inch EnergyGuard Perlite Roof Insulation (homogeneous)	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-75.0*



**TABLE 1C: WOOD DECKS – NEW CONSTRUCTION. REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 16)		MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Base	Cap	
W-25.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso or min. 1.5-inch EnergyGuard RA or EnergyGuard RN	HA	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	HA	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-82.5
W-26.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	16-inch o.c. at the min. 4-inch lap and 16-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso	HA	(Optional) Additional layer(s) base insulation	HA	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-27.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	12-inch o.c. at the min. 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso	HA	(Optional) Additional layer(s) base insulation	HA	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-28.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation or EnergyGuard RH Polyiso	HA	(Optional) Additional layer(s) base insulation	HA	GAFGLAS Stratavent Perforated Venting Base, loose laid, followed by one or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-82.5*

**TABLE 1D: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)		
W-29.	Min. 15/32-inch plywood or wood plank at max. 2 ft spans	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH	Note 2 (#14 Fastener only)	1 per 2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	EverGuard Freedom TPO/ self adhered	-52.5
W-30.	Min. 15/32-inch plywood or wood plank at max. 2 ft spans	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH	Note 2 (#14 Fastener only)	1 per 2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-52.5
W-31.	Min. 15/32-inch plywood or wood plank at max. 2 ft spans	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH	Note 2 (#14 Fastener only)	1 per 2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5

**TABLE 1E: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)		MDP (psf)
			Type	Fasteners	Attach	Base	Cap	
<b>EVERGUARD TPO:</b>								
W-32.	Min. 15/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2 (#14 Fastener only)	1 per 2.67 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square	-37.5*
W-33.	Min. 15/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation	Note 2 (#14 Fastener only)	1 per 2.67 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square	-45.0*
W-34.	Min. 15/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2 (#14 Fastener only)	1 per 2.67 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square	-45.0*
W-35.	Min. 15/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2 (#14 Fastener only)	1 per 2 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square	-45.0*
W-36.	Min. 15/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.78 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square	-52.5
W-37.	Min. 15/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.78 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square	-52.5
W-38.	Min. 15/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.78 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square	-60.0
W-39.	Min. 15/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.6 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square	-60.0
W-40.	Min. 15/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2 (#14 Fastener only)	1 per 1.33 ft <sup>2</sup>	None	EverGuard TPO / #1121, TPO 3-Square	-60.0
<b>EVERGUARD TPO FB ULTRA:</b>								
W-41.	Min. 15/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2 (#14 Fastener only)	1 per 2.67 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-37.5*
W-42.	Min. 15/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation	Note 2 (#14 Fastener only)	1 per 2.67 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*

**TABLE 1E: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)		MDP (psf)
			Type	Fasteners	Attach	Base	Cap	
W-43.	Min. 15/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2 (#14 Fastener only)	1 per 2 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
W-44.	Min. 15/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.78 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-45.	Min. 15/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.78 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-46.	Min. 15/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.78 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-47.	Min. 15/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.6 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-48.	Min. 19/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #14 with Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate	1 per 1.78 ft <sup>2</sup>	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or One or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-49.	Min. 15/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2 (#14 Fastener only)	1 per 1.33 ft <sup>2</sup>	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-50.	Min. 19/32-inch plywood at max. 2 ft spans	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 with Drill-Tec AccuTrac Flat Plate	1 per 1.33 ft <sup>2</sup> 12 parts per 4 x 4 ft board	None	EverGuard TPO FB Ultra in hot asphalt	-82.5

**TABLE 1F: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: PLATE-BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 14)	Attachment		Roof Cover	MDP (psf)
			Fasteners	Spacing		
W-51.	Min. 15/32-inch plywood atop nominal 2 x 8 inch lumber supports spaced max. 96-inch o.c.	One or more layers, any combination, preliminarily attached (Tread Safe = min. 2-inch thick insulation)	Drill-Tec #14 (min. 1-inch embedment) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	12-inch o.c. along wood supports, 96-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-30.0
W-52.	Min. 15/32-inch plywood atop nominal 2 x 8 inch lumber supports spaced max. 48-inch o.c.	One or more layers, any combination, preliminarily attached (Tread Safe = min. 2-inch thick insulation)	Drill-Tec #14 (min. 1-inch embedment) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	24-inch o.c. along wood supports, 48-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-37.5
W-53.	Min. 15/32-inch plywood; 24-inch span	One or more layers, any combination, (Tread Safe = min. 2-inch)	Drill-Tec #14 Fastener and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	1 per 2.67 ft <sup>2</sup> (12 parts per 4 x 8 ft board) Fasteners are 6-, 24- and 42-inches from the board's long edge and 12-, 36-, 60- and 84-inches from the board's short edge.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-52.5
W-54.	Min. 15/32-inch plywood over nominal No. 2 wood trusses spaced max. 24-inch o.c.	(Optional) One or more layers, any combination, preliminarily attached (Tread Safe = min. 2-inch thick insulation)	Drill-Tec #14 (min. 1-inch embedment) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	36-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-52.5
W-55.	Min. 15/32-inch plywood over nominal No. 2 wood trusses spaced max. 24-inch o.c.	(Optional) One or more layers, any combination, preliminarily attached (Tread Safe = min. 2-inch thick insulation)	Drill-Tec #14 (min. 1-inch embedment) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	24-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-75.0
W-56.	Min. 15/32-inch plywood over nominal No. 2 wood trusses spaced max. 24-inch o.c.	(Optional) One or more layers, any combination, preliminarily attached (Tread Safe = min. 2-inch thick insulation)	Drill-Tec #14 (min. 1-inch embedment) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	18-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-82.5

**TABLE 1G: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 14)		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners	Attachment	
W-57.	Min. 19/32-inch plywood at max. 2 ft spans	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates	6-inch o.c. within 5.5-inch wide laps spaced 114.5-inch o.c. and sealed with a 1.75-inch heat weld.	-45.0
W-58.	Min. 19/32-inch plywood at max. 2 ft spans	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates	6-inch o.c. within 5-inch wide laps spaced 55-inch o.c. and sealed with a 1.75-inch heat weld.	-52.5
W-59.	Min. 15/32-inch plywood at max. 2 ft spans	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates fastened through deck to engage wood joists, minimum 1-inch emedement	12-inch o.c. within 6-inch wide laps spaced 48-inch o.c. (over wood joists) and sealed with a 1.5-inch heat weld.	-52.5
W-60.	Min. 15/32-inch plywood at max. 2 ft spans	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2-3/4 in. Barbed SXHD Plates fastened through deck to engage wood joists, minimum 1-inch emedement	12-inch o.c. within 6-inch wide laps spaced 48-inch o.c. (over wood joists) and sealed with a 1.5-inch heat weld.	-67.5

**TABLE 1H: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer(s) (Note 14)		Base or Anchor Sheet			Roof Cover	MDP (psf)
		Type	Attach	Base	Fasteners	Attach		
W-61.	Min. 15/32-inch plywood; 24" spans	One or more layers, any combination	Loose-laid	GAF StormSafe Anchor Sheet (Max. 48-inch wide)	Drill-Tec #14 Fastener with Drill-Tec 3" Steel Plate or Drill-Tec 3 in. Ribbed Galvalume Plate (Flat)	18-inch o.c. at min. 4-inch lap and 18-inch o.c. at two, equally spaced, staggered center rows	EverGuard Freedom TPO / self adhered	-45.0*
W-62.	Min. 19/32-inch plywood; 24" spans	One or more layers, any combination	Loose-laid	GAF StormSafe Anchor Sheet (Max. 48-inch wide)	Drill-Tec #14 Fastener with Drill-Tec 3 in. Ribbed Galvalume Plate (Flat)	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at two, equally spaced, staggered center rows	EverGuard Freedom TPO / self adhered	-60.0*

**TABLE 1I: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-1: NON-INSULATED, MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Roof Cover			MDP (psf)
		Membrane	Fasteners	Attachment	
W-63.	Min. 19/32-inch plywood at max. 2 ft spans	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates	6-inch o.c. within 5.5-inch wide laps spaced 114.5-inch o.c. and sealed with a 1.75-inch heat weld.	-45.0
W-64.	Min. 19/32-inch plywood at max. 2 ft spans	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates	6-inch o.c. within 5-inch wide laps spaced 55-inch o.c. and sealed with a 1.75-inch heat weld.	-52.5
W-65.	Min. 15/32-inch plywood at max. 2 ft spans	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2 in. Double Barbed XHD Plates fastened through deck to engage wood joists, minimum 1-inch emedement	12-inch o.c. within 6-inch wide laps spaced 48-inch o.c. (over wood joists) and sealed with a 1.5-inch heat weld.	-60.0
W-66.	Min. 15/32-inch plywood at max. 2 ft spans	EverGuard TPO	Drill-Tec #14 Fastener with Drill-Tec 2-3/4 in. Barbed SXHD Plates fastened through deck to engage wood joists, minimum 1-inch emedement	12-inch o.c. within 6-inch wide laps spaced 48-inch o.c. (over wood joists) and sealed with a 1.5-inch heat weld.	-75.0

**TABLE 1J: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 16)		MDP (psf)
		Base	Fasteners	Attach	Base	Cap	
<b>EVERGUARD FREEDOM TPO:</b>							
W-67.	Min. 19/32-inch plywood at max. 24" spans	GAF StormSafe Anchor Sheet (Max. 40-inch wide or lapped to produce max. 36-inch wide lap-to-lap spacing)	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails (new or reroof only; no recover)	9-inch o.c. at min. 4-inch lap and 9-inch o.c. at two, equally spaced, staggered center rows	None	EverGuard Freedom TPO	-45.0
W-68.	Min. 15/32-inch plywood; 24" spans	GAF StormSafe Anchor Sheet (Max. 48-inch wide)	32 ga., 1-5/8-inch diameter tin caps with 12 ga. x 1.25-inch annular ring shank nails (new or reroof only; no recover)	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at two, equally spaced, staggered center rows	None	EverGuard Freedom TPO	-45.0*
W-69.	Min. 15/32-inch plywood; 24" spans	GAF StormSafe Anchor Sheet (Max. 48-inch wide)	Drill-Tec #14 Fastener with Drill-Tec 3 in. Ribbed Galvalume Plate (Flat)	18-inch o.c. at min. 4-inch lap and 18-inch o.c. at two, equally spaced, staggered center rows	None	EverGuard Freedom TPO	-45.0*
W-70.	Min. 19/32-inch plywood; 24" spans	GAF StormSafe Anchor Sheet (Max. 48-inch wide)	Drill-Tec #14 Fastener with Drill-Tec 3 in. Ribbed Galvalume Plate (Flat)	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at two, equally spaced, staggered center rows	None	EverGuard Freedom TPO	-67.5*
W-71.	Min. 19/32-inch plywood at max. 24" spans	GAF StormSafe Anchor Sheet (Max. 40-inch wide or lapped to produce max. 36-inch wide lap-to-lap spacing)	Drill-Tec #12 or #14 Fastener with Drill-Tec 3" Steel Plates or Drill-Tec 3 in. Ribbed Galvalume Plate (Flat)	8-inch o.c. at min. 4-inch lap and 8-inch o.c. at three, equally spaced, staggered center rows	None	EverGuard Freedom TPO	-105.0*
<b>HYBRID SYSTEM:</b>							
W-72.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-45.0
W-73.	Min. 19/32-inch plywood at max. 24-inch span	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	9-inch o.c. at min. 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-45.0
W-74.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	6-inch o.c. at min. 4-inch laps and 6-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-52.5
W-75.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	16-inch o.c. at 4-inch laps and 16-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-52.5

**TABLE 1J: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 16)		MDP (psf)
		Base	Fasteners	Attach	Base	Cap	
W-76.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	12-inch o.c. at 4-inch laps and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-60.0
W-77.	Min. 19/32-inch plywood at max. 24-inch span	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-75.0
W-78.	Min. 19/32-inch plywood; 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails (new or reroof only; no recover)	4-inch o.c. at min. 2-inch laps and 4-inch o.c. at four (4), equally spaced, staggered center rows	Ruberoid 20 Smooth, Ruberoid Mop Smooth 1.5, Ruberoid Mop Smooth, Ruberoid Mop Plus Smooth / hot asphalt or Ruberoid HW Smooth, Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra in hot asphalt	-97.5
W-79.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	8-inch o.c. at 4-inch laps and 8-inch o.c. in three, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-97.5
W-80.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	8-inch o.c. at min. 4-inch laps and 8-inch o.c. in two, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
W-81.	Min. 19/32-inch plywood at max. 24-inch span	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	9-inch o.c. at min. 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
W-82.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	6-inch o.c. at min. 4-inch laps and 6-inch o.c. in two, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
W-83.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	16-inch o.c. at 4-inch laps and 16-inch o.c. in two, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5

**TABLE 1J: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 16)		MDP (psf)
		Base	Fasteners	Attach	Base	Cap	
W-84.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	12-inch o.c. at 4-inch laps and 12-inch o.c. in two, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
W-85.	Min. 19/32-inch plywood at max. 24-inch span	GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 12 ga. annular ring shank nails (new or reroof only; no recover)	8-inch o.c. at the 4-inch lap and 8-inch o.c. in three staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-75.0
W-86.	Min. 19/32-inch plywood; 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails (new or reroof only; no recover)	4-inch o.c. at min. 2-inch laps and 4-inch o.c. at four (4), equally spaced, staggered center rows	Ruberoid 20 Smooth, Ruberoid Mop Smooth 1.5, Ruberoid Mop Smooth, Ruberoid Mop Plus Smooth / hot asphalt or Ruberoid HW Smooth, Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter)	-97.5
W-87.	Min. 15/32-inch plywood at max. 24-inch span	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Note 2 (#14 ONLY)	8-inch o.c. at 4-inch laps and 8-inch o.c. in three, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter)	-97.5



**TABLE 2A: STEEL DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach		
<b>EVERGUARD TPO:</b>							
S-1.	Min. 22 ga., type B, Grade 40 steel	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500 or LRF-M, 6" o.c.	None	N/A	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-120.0
<b>EVERGUARD TPO FB ULTRA IN SPATTER APPLICATIONS:</b>							
S-2.	Min. 22 ga., type B, Grade 40 steel	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500 or LRF-M, 6" o.c.	None	N/A	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-120.0

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)		
<b>EVERGUARD FREEDOM TPO / SELF-ADHERED:</b>								
S-3.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500 or LRF-M	EverGuard Freedom TPO / self adhered	-37.5*
S-4.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard RH	Note 2	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500 or LRF-M	EverGuard Freedom TPO / self adhered	-37.5*
S-5.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard Freedom TPO/ self adhered	-45.0*
S-6.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 4 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard Freedom TPO/ self adhered	-45.0*
S-7.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M, GAF 2-Part	EverGuard Freedom TPO/ self adhered	-45.0*
S-8.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M, GAF 2-Part	EverGuard Freedom TPO/ self adhered	-45.0*
S-9.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500, LRF-M, GAF 2-Part	EverGuard Freedom TPO/ self adhered	-45.0*
S-10.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500, LRF-M, GAF 2-Part	EverGuard Freedom TPO/ self adhered	-45.0*
S-11.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	EverGuard Freedom TPO/ self adhered	-52.5
S-12.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard RA EnergyGuard RN or EnergyGuard RH	Note 2	1 per 1.6 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard Freedom TPO/ self adhered	-60.0
<b>EVERGUARD TPO:</b>								
S-13.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard RA or EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Additional layers of base insulation	Hot asphalt	EverGuard TPO / #1121, TPO 3-Square, WB181	-45.0*
S-14.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard RA or EnergyGuard RN	Note 2	1 per 4 ft <sup>2</sup>	Additional layers of base insulation	Hot asphalt	EverGuard TPO / #1121, TPO 3-Square, WB181	-45.0*

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)		
S-15.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-37.5*
S-16.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500 or LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-37.5*
S-17.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard RH	Note 2	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500 or LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-37.5*
S-18.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	One or more layers of Base Insulation or min. 0.5-inch thick Dens Deck	OB500 or GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-19.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.5-inch Dens Deck	Note 2	1 per 2 ft <sup>2</sup>	One or more layers, min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500 or GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square, WB181	-45.0*
S-20.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.5-inch Fiber Base HD1, Fiber Base HD6	OB500	EverGuard TPO / WB181	-45.0*
S-21.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-45.0*
S-22.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500 or LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-45.0*
S-23.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation followed by Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500 or LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-45.0*
S-24.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-25.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 4 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-26.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M, GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)		
S-27.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M, GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-28.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500, LRF-M, GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-29.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500, LRF-M, GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-30.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-52.5
S-31.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 1.6 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-60.0
S-32.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-60.0
S-33.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-60.0
<b>EVERGUARD TPO FB ULTRA IN EVERGUARD WB 181 BA:</b>								
S-34.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500	EverGuard TPO FB Ultra / WB181	-45.0*
S-35.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	OB500	EverGuard TPO FB Ultra / WB181	-45.0*
S-36.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-37.5*
S-37.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-45.0*
S-38.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-45.0*

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)		
S-39.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-60.0
S-40.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	LRF-M	EverGuard TPO FB Ultra / WB181	-45.0*
S-41.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	LRF-M	EverGuard TPO FB Ultra / WB181	-45.0*
S-42.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181	-45.0*
S-43.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181	-45.0*
S-44.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181	-60.0
S-45.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-45.0*
S-46.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Additional optional layers, min. 0.5-inch base insulation	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-45.0*
S-47.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-60.0
<b>EVERGUARD TPO FB ULTRA IN LRF ADHESIVE M OR LRF ADHESIVE O:</b>								
S-48.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-49.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-50.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 3.2 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-30.0*

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)		
S-51.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-52.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-53.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-60.0
S-54.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-55.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-56.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 3.2 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-30.0*
S-57.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-58.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-59.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-60.0
S-60.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 3.2 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-30.0*
S-61.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-62.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-63.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-60.0

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)		
<b>EVERGUARD TPO FB ULTRA IN SPATTER APPLICATIONS:</b>								
S-64.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 3.2 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-30.0*
S-65.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-66.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-67.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
S-68.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.78 ft <sup>2</sup>	Min. 1.5-inch x max. 4x4 ft base insulation	OB500	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-69.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.78 ft <sup>2</sup>	Optional layers of min. 1.5-inch x max. 4x4 ft base insulation followed by min. 0.25-inch x max. 4x4 ft Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch x max. 4x4 ft EnergyGuard HD Polyiso Insulation	OB500	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-70.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
S-71.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.78 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch x max. 4x4 ft EnergyGuard HD Polyiso Insulation	OB500	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-67.5
S-72.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 3.2 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-30.0*
S-73.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-74.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-75.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)		
S-76.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
S-77.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 3.2 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-30.0*
S-78.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-79.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-80.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
S-81.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0



**TABLE 2C: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)	Base Ply	Cap Ply	
<b>ASPHALT-APPLIED BASE PLY:</b>									
S-82.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Optional layers of base insulation followed by Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Smooth 1.5 / hot asphalt	EverGuard TPO FB Ultra / hot asphalt	-45.0*
S-83.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard RA, EnergyGuard RN	Note 2	1 per 4 ft <sup>2</sup>	Optional layers of base insulation followed by Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Smooth 1.5 / hot asphalt	EverGuard TPO FB Ultra / hot asphalt	-45.0*
S-84.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Optional layers of min. 0.5-inch base insulation followed by Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Smooth 1.5 / hot asphalt	EverGuard TPO FB Ultra / hot asphalt	-45.0*
S-85.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard RA	Note 2	1 per 5.3 ft <sup>2</sup>	Optional layers of min. 1.5-inch base insulation followed by Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Smooth 1.5 / hot asphalt	EverGuard TPO FB Ultra / hot asphalt	-45.0*
S-86.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 1.5-inch EnergyGuard RA or EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Optional layers of base insulation followed by Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Smooth 1.5 / hot asphalt	EverGuard TPO FB Ultra / hot asphalt	-45.0*
S-87.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min 2-inch EnergyGuard RA or EnergyGuard RN	Note 2	1 per 4 ft <sup>2</sup>	Optional layers of min. 1.5-inch base insulation followed by Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth or Ruberoid Mop Smooth 1.5 / hot asphalt	EverGuard TPO FB Ultra / hot asphalt	-45.0*
S-88.	Min. 22 ga., Type B, Grade 33 steel, or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0
<b>TORCH-APPLIED BASE PLY:</b>									

**TABLE 2C: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)	Base Ply	Cap Ply	
S-89.	Min. 22 ga., Type B, Grade 33 steel, or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0
<b>SELF-ADHERING BASE PLY:</b>									
S-90.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch EnergyGuard RH, EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500, LRF-M	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-37.5*
S-91.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard RH, EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500, LRF-M	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-37.5*
S-92.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Additional layer(s), min. 0.5-inch thick base insulation	OB500, LRF-M	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-93.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2.9 ft <sup>2</sup>	Additional layer(s), min. 0.5-inch thick base insulation	OB500, LRF-M	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-94.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Additional layer(s), min. 1.5-inch thick base insulation	OB500, LRF-M	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-95.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Optional additional layers of base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-96.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Optional additional layers, min. 1-inch thick base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*

**TABLE 2C: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)	Base Ply	Cap Ply	
S-97.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2.9 ft <sup>2</sup>	Optional additional layers, min. 0.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-98.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 4 ft <sup>2</sup>	Optional additional layers of base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-99.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	Optional additional layers, min. 1.5-inch base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, LRF-M	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-100.	Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra	Note 2	1 per 1.78 ft <sup>2</sup>	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface primed with GAF SA Primer.	OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-52.5
S-101.	Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra	Note 2	1 per 1.78 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation. Top surface primed with GAF SA Primer.	OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-102.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 1.6 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board. Top surface primed with GAF SA Primer.	OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-103.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	Optional additional layers of base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-104.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 4 ft <sup>2</sup>	Optional additional layers of base insulation; Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*

**TABLE 2C: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
		Type	Fasten	Attach	Type	Attach (Notes 6&7)	Base Ply	Cap Ply	
S-105.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 1.6 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board. Top surface primed with GAF SA Primer.	GAF 2-Part	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-106.	Min. 22 ga., Type B, Grade 33 steel, or structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500 or GAF 2-Part	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0

**TABLE 2D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof	Insulation Layer(s)		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach		Type	Attach (Notes 6&7)		
<b>EVERGUARD FREEDOM TPO:</b>									
S-107.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard RH followed by Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard Freedom TPO / self adhered	-45.0*
S-108.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 4 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard RN (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD Polyiso Insulation or EnergyGuard HD Plus Polyiso Insulation	LRF-M or OB500	EverGuard Freedom TPO / self adhered	-45.0*
S-109.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 4 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD Polyiso Insulation or EnergyGuard HD Plus Polyiso Insulation	GAF 2-Part, LRF-M or OB500	EverGuard Freedom TPO / self adhered	-45.0*
S-110.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M or OB500	EverGuard Freedom TPO / self adhered	-60.0
<b>EVERGUARD TPO:</b>									
S-111.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard RH followed by Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-112.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-113.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-114.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 4 ft <sup>2</sup>	Two plies GAFGLAS Ply 4, applied in hot asphalt	Min. 1.5-inch EnergyGuard RA	HA or OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-45.0*

**TABLE 2D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof	Insulation Layer(s)		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach		Type	Attach (Notes 6&7)		
S-115.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-116.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-117.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 4 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard RN (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD Polyiso Insulation or EnergyGuard HD Plus Polyiso Insulation	LRF-M or OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-118.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 4 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD Polyiso Insulation or EnergyGuard HD Plus Polyiso Insulation	GAF 2-Part, LRF-M or OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
S-119.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime	GAF 2-Part, LRF-M or OB500	EverGuard TPO / L-VOC	-52.5
S-120.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime	GAF 2-Part, LRF-M or OB500	EverGuard TPO / #1121, TPO 3-Square, WB181	-67.5
S-121.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M or OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-67.5

**EVERGUARD TPO FB ULTRA:**

**TABLE 2D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof	Insulation Layer(s)		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach		Type	Attach (Notes 6&7)		
S-122.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	OB500	EverGuard TPO FB Ultra / WB181	-45.0*
S-123.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-45.0*
S-124.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-125.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-126.	Min. 22 ga., Grade 33 steel or structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet, self-adhering	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH followed by min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
S-127.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 4 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard RN (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M or OB500	EverGuard TPO FB Ultra / WB181, LRF-M (12-inch o.c.), LRF-O (12-inch o.c.), GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-128.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 4 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M or OB500	EverGuard TPO FB Ultra / WB181, LRF-M (12-inch o.c.), LRF-O (12-inch o.c.), GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-129.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime	GAF 2-Part, LRF-M or OB500	EverGuard TPO FB Ultra / WB181	-52.5

**TABLE 2D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof	Insulation Layer(s)		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten	Attach		Type	Attach (Notes 6&7)		
S-130.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation	GAF 2-Part, LRF-M or OB500	EverGuard TPO FB Ultra / LRF-M (12-inch o.c.), LRF-O (12-inch o.c.), GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
S-131.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch DensDeck Prime	GAF 2-Part, LRF-M or OB500	EverGuard TPO FB Ultra / LRF-M (12-inch o.c.) or LRF-O (12-inch o.c.)	-60.0
S-132.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part, LRF-M or OB500	EverGuard TPO FB Ultra / WB181, LRF-M (4-inch o.c.), LRF-O (4-inch o.c.), GAF 2-Part (spatter) or OlyBond 500 (spatter)	-67.5



**TABLE 2E: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier			Temp Roof	Insulation Layer(s)		Roof Cover (Note 16)		MDP (psf)
		Type	Fastener	Attach		Type	Attach (Notes 6&7)	Base Ply	Cap Ply	
<b>SELF-ADHERING BASE PLY:</b>										
S-133.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-134.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-135.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2.7 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet	Min. 1.5-inch EnergyGuard RH followed by Min. 0.5-inch EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-136.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 4 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard RN (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD Polyiso Insulation or EnergyGuard HD Plus Polyiso Insulation	LRF-M or OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-137.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 4 ft <sup>2</sup>	Primer: GAF SA Primer or Matrix 307 Premium Asphalt Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD Polyiso Insulation or EnergyGuard HD Plus Polyiso Insulation	GAF 2-Part, LRF-M or OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-138.	Min. 22 ga., Type B, Grade 33 steel	0.5-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	Note 2 (Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) may be used)	1 per 2 ft <sup>2</sup>	Primer: GAF SA Primer Vapor Retarder: GAF SA Vapor Retarder, self-adhering	One or more layers, base layer min. 1-inch thick, optional subsequent layer(s) min. 1.5-inch thick EnergyGuard Polyiso Insulation, EnergyGuard Ultra Polyiso Insulation (Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch EnergyGuard HD Polyiso Insulation or EnergyGuard HD Plus Polyiso Insulation. Top surface primed with GAF SA Primer.	GAF 2-Part, LRF-M or OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-67.5

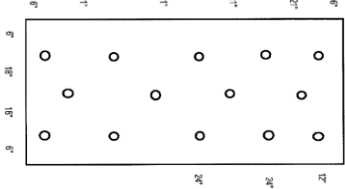
**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
<b>EVERGUARD FREEDOM TPO:</b>							
S-139.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-30.0*
S-140.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 4 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-30.0*
S-141.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2.7 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-37.5*
S-142.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN, or EnergyGuard Ultra	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-143.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	Note 2	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-144.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-145.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-146.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 3.2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-147.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 4 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-148.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN, or EnergyGuard Ultra	Note 2	1 per 1.3 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-52.5
S-149.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN, or EnergyGuard Ultra	Note 2 (#14 only)	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-52.5
S-150.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for Recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch Dens Deck Prime	Drill-Tec #12 (steel only) or Drill-Tec #14 Fastener with Drill-Tec 3 in Ribbed Galvalume Plate (Flat)	1 per 1.45 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-60.0

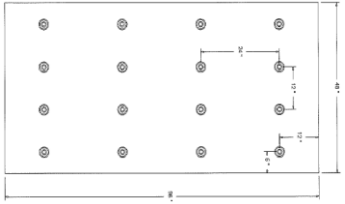
**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-151.	Min. 20 ga., Type B, Grade 33 steel or structural concrete	(Optional for Recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or Drill-Tec #14 Fastener with Drill-Tec 3 in Ribbed Galvalume Plate (Flat)	1 per 1.33 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-60.0
S-152.	Min. 20 ga., Type B, Grade 33 steel or structural concrete	(Optional for Recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or Drill-Tec #14 Fastener with Drill-Tec 3 in Ribbed Galvalume Plate (Flat)	1 per 1.45 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-75.0
<b>EVERGUARD TPO / EVERGUARD TPO #1121 or EVERGUARD TPO 3 SQUARE LOW VOC BONDING ADHESIVE:</b>							
S-153.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-30.0*
S-154.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-30.0*
S-155.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 4 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-30.0*
S-156.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.67 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-37.5*
S-157.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.67 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-37.5*
S-158.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2 (Drill-Tec 3" Standard Steel Plate only)	1 per 2.67 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-159.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2 (Drill-Tec 3" Steel Plate only)	1 per 2.13 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-160.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-161.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.5-inch Dens Deck or Dens Deck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-162.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.625-inch Dens Deck or Dens Deck Prime	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-163.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-164.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-165.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-166.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 4 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-167.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 7/16-inch OSB	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-168.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 7/16-inch OSB	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-169.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-170.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH or EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-171.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2 	1 per 2.3 ft <sup>2</sup> (14 parts per 4x8 ft board)	EverGuard TPO / #1121, TPO 3-Square	-45.0
S-172.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-173.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH or EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-174.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-52.5

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-175.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.78 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-52.5
S-176.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.78 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-60.0
S-177.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2.5-inch EnergyGuard Polyiso Insulation	Note 2 	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-60.0
S-178.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RH	Note 2	1 per 1.78 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-67.5
S-179.	Min. 20 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RH	Drill-Tec #12 (steel only) or Drill-Tec #14 Fastener with Drill-Tec 3 in Ribbed Galvalume Plate	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-67.5
S-180.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-67.5
S-181.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Structodek High Density Roof Fiberboard	Note 2	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-67.5
S-182.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-97.5
S-183.	Min. 22 ga., Type B, Grade 80 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Dens Deck Prime	Drill-Tec #12 (steel only), #14 or XHD with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat)	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / #1121	-127.5
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:</b>							
S-184.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / WB181	-30.0*
S-185.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / WB181	-30.0*

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-186.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 4 ft <sup>2</sup>	EverGuard TPO / WB181	-30.0*
S-187.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.67 ft <sup>2</sup>	EverGuard TPO / WB181	-37.5*
S-188.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-189.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.5-inch Dens Deck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-190.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.5-inch Dens Deck Prime	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat)	1 per 4 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-191.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.625-inch Dens Deck Prime	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-192.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-193.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-194.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 4 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-195.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-196.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-197.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-198.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard RH	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-199.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / WB181	-52.5
S-200.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.78 ft <sup>2</sup>	EverGuard TPO / WB181	-52.5
S-201.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO / WB181	-67.5
S-202.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, Fiber Base HD1 or Fiber Base HD6	Note 2	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / WB181	-67.5
S-203.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Dens Deck Prime	Drill-Tec #12 (steel only), #14 or XHD with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat)	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / WB181	-75.0
S-204.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Dens Deck Prime	Drill-Tec #12 (steel only), #14 or XHD with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat)	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / WB181	-82.5
S-205.	Min. 22 ga., Type B, Grade 80 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Dens Deck Prime	Drill-Tec #12 (steel only), #14 or XHD with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat)	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / WB181	-127.5
<b>EVERGUARD TPO / EVERGUARD LOW VOC TPO or EVERGUARD TPO 3 SQUARE LOW VOC BONDING ADHESIVE:</b>							
S-206.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-30.0*
S-207.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-30.0*
S-208.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 4 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-30.0*
S-209.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.67 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-37.5*
S-210.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.67 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-37.5*

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-211.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2 (Drill-Tec 3" Standard Steel Plate only)	1 per 2.67 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-212.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2 (Drill-Tec 3" Steel Plate only)	1 per 2.13 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-213.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-214.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.5-inch Dens Deck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-215.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.625-inch Dens Deck Prime	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-216.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-217.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-218.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
S-219.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-220.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 4 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-221.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-222.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH or EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*





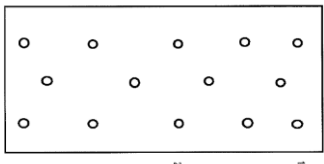
**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-232.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Structodek High Density Roof Fiberboard	Note 2	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-67.5
S-233.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Dens Deck Prime	Drill-Tec #12 (steel only), #14 or XHD with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat)	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / TPO 3-Square	-75.0
S-234.	Min. 22 ga., Type B, Grade 80 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Min. 0.5-inch Dens Deck Prime	Drill-Tec #12 (steel only), #14 or XHD with Drill-Tec 3 in. Ribbed Galvalume Plates (Flat)	1 per 1.0 ft <sup>2</sup>	EverGuard TPO / TPO 3-Square	-127.5
<b>TRIPPOSITE ROOFING SYSTEM:</b>							
S-235.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard Ultra	Note 2	1 per 2.0 ft <sup>2</sup>	Triposite System / Note 19	-45.0*
S-236.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard Ultra	Note 2	1 per 3.2 ft <sup>2</sup>	Triposite System / Note 19	-45.0*
S-237.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Ultra	Note 2	1 per 2 ft <sup>2</sup>	Triposite System / Note 19	-60.0
S-238.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Ultra	Note 2	1 per 1.45 ft <sup>2</sup>	Triposite System / Note 19	-75.0
<b>HYBRID ROOFING SYSTEM:</b>							
S-239.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4.0 ft <sup>2</sup>	Hybrid System / Note 20	-45.0*
<b>EVERGUARD TPO FB ULTRA IN HOT ASPHALT:</b>							
S-240.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.8 ft <sup>2</sup>	EverGuard TPO FB Ultra / Hot asphalt	-45.0*
<b>EVERGUARD TPO FB ULTRA IN EVERGUARD WB181 BONDING ADHESIVE:</b>							
S-241.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-30.0*
S-242.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-30.0*

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-243.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 4 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-30.0*
S-244.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.67 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-37.5*
S-245.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-45.0*
S-246.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-45.0*
S-247.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 3.2 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-45.0*
S-248.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 4 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-45.0*
S-249.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.78 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-52.5
S-250.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-67.5
<b>EVERGUARD TPO FB ULTRA IN LRF ADHESIVE M OR LRF ADHESIVE O:</b>							
S-251.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-30.0*
S-252.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.67 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-37.5*
S-253.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-37.5*
S-254.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.75-inch ACFoam Composite/GB	Note 2	1 per 5.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-37.5*

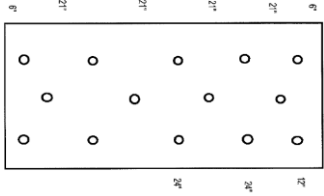
**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-255.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination	Min. 0.25-inch Temple Green Glass Primed Roof Board	Note 2 (Drill-Tec 3" Standard Steel Plate or AccuTrac Flat Plate only)	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-37.5*
S-256.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2 (Drill-Tec 3" Standard Steel Plate or AccuTrac Flat Plate only)	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-37.5*
S-257.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-258.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2 	1 per 2.3 ft <sup>2</sup> (14 parts per 4x8 ft board)	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
S-259.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-260.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.75-inch ACFoam Composite/GB	Note 2	1 per 5.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
S-261.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2 (Drill-Tec 3" Standard Steel Plate or AccuTrac Flat Plate only)	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*
S-262.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2 (Drill-Tec 3" Standard Steel Plate or AccuTrac Flat Plate only)	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-263.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RH	Note 2 (Drill-Tec 3" Steel Plate only)	1 per 1.78 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-52.5
S-264.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.78 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-52.5
S-265.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-266.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-67.5
S-267.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 4 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-30.0*
S-268.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-269.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-270.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RN, EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-60.0
S-271.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-272.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 3.2 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-273.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 4 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-45.0*
S-274.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-67.5
<b>EVERGUARD TPO FB ULTRA IN SPATTER APPLICATIONS:</b>							
S-275.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-30.0*
S-276.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 4 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-30.0*

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-277.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 2.67 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-37.5*
S-278.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-279.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2 	1 per 2.3 ft <sup>2</sup> (14 parts per 4x8 ft board)	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
S-280.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-281.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN, EnergyGuard RN	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
S-282.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-283.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 3.2 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-284.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination, min. 1-inch	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 (steel only) or #14 with Drill-Tec 3" Standard Steel Plates, Drill-Tec 3 in. Ribbed Galvalume Plates (Flat) or Drill-Tec AccuTrac Flat Plates or with Drill-Tec ASAP 3S	1 per 4 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0*
S-285.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1-inch	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.78 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5

**TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-286.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional for recover) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-67.5
S-287.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	One or more layers, min. 1.5-inch EnergyGuard Polyiso Insulation	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-82.5

**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)		MDP (psf)
			Type	Fasten	Attach	Base Ply	Cap Ply	
<b>ASPHALT-APPLIED BASE PLY:</b>								
S-288.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener, Drill-Tec #14 Fastener with Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate	1 per 4 ft <sup>2</sup>	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-30.0*
S-289.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener, Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate	1 per 4 ft <sup>2</sup>	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-45.0*
S-290.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener, Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate	1 per 3.2 ft <sup>2</sup>	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-45.0*
S-291.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener, Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate or Drill-Tec AccuTrac Flat Plate	1 per 1.6 ft <sup>2</sup>	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-52.5
S-292.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener, Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate	1 per 1.33 ft <sup>2</sup>	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0
<b>TORCH-APPLIED BASE PLY:</b>								
S-293.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener, Drill-Tec #14 Fastener with Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate	1 per 4 ft <sup>2</sup>	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-30.0*
S-294.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener, Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate	1 per 4 ft <sup>2</sup>	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-45.0*
S-295.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener, Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate	1 per 3.2 ft <sup>2</sup>	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-45.0*
S-296.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener, Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate or Drill-Tec AccuTrac Flat Plate	1 per 1.6 ft <sup>2</sup>	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-52.5



**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)		MDP (psf)
			Type	Fasten	Attach	Base Ply	Cap Ply	
S-297.	Min. 22 ga., type B, Grade 40 steel or structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.45 ft <sup>2</sup>	Ruberoid HW 25 Smooth, Ruberoid HW Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0
S-298.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener, Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate	1 per 1.33 ft <sup>2</sup>	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0
<b>SELF-ADHERING BASE PLY:</b>								
S-299.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener, Drill-Tec #14 Fastener with Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate	1 per 4 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-30.0*
S-300.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 3.2 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-30.0*
S-301.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Note 2	1 per 4 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-37.5*
S-302.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener, Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate	1 per 4 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-45.0*
S-303.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Drill-Tec #12 Fastener, Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate	1 per 3.2 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-45.0*
S-304.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.7 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*

**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)		MDP (psf)	
			Type	Fasten	Attach	Base Ply	Cap Ply		
S-305.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2		1 per 2 ft <sup>2</sup>	Ruberoïd SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-306.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.5-inch EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	Note 2		1 per 2 ft <sup>2</sup>	Ruberoïd SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-307.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN or EnergyGuard Ultra	Note 2		1 per 3.2 ft <sup>2</sup>	Ruberoïd SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-308.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Note 2		1 per 2 ft <sup>2</sup>	Ruberoïd SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-45.0*
S-309.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board		Drill-Tec #12 Fastener, Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate or Drill-Tec AccuTrac Flat Plate	1 per 1.6 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-52.5
S-310.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, primed with GAF SA Primer	Note 2		1 per 1.78 ft <sup>2</sup>	Ruberoïd SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-52.5
S-311.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, primed with GAF SA Primer	Note 2		1 per 1.6 ft <sup>2</sup>	Ruberoïd SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-52.5
S-312.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board		Drill-Tec #12 Fastener, Drill-Tec #14 Fastener with Drill-Tec 3" Standard Steel Plate, Drill-Tec 3 in. Ribbed Galvalume Plate (Flat) or Drill-Tec AccuTrac Flat Plate	1 per 1.33 ft <sup>2</sup>	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 12-inch o.c.	-60.0

**TABLE 2G: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED BASE AND CAP PLY**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)		MDP (psf)
			Type	Fasten	Attach	Base Ply	Cap Ply	
S-313.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board. Top surface primed with GAF SA Primer	Note 2 (#14 only)	1 per 1.78 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-314.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface primed with GAF SA Primer	Note 2	1 per 1.33 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-315.	Min. 22 ga., type B, Grade 50 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch EnergyGuard Polyiso Insulation. Top surface primed with GAF SA Primer	Note 2	1 per 1.78 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-316.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN or EnergyGuard Ultra. Top surface primed with GAF SA Primer	Note 2	1 per 1.45 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-317.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN or EnergyGuard Ultra. Top surface primed with GAF SA Primer	Note 2	1 per 1.33 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-60.0
S-318.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board. Top surface primed with GAF SA Primer	Note 2	1 per 1.33 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-67.5
S-319.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch EnergyGuard Polyiso Insulation. Top surface primed with GAF SA Primer	Note 2	1 per 1.78 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-67.5
S-320.	Min. 22 ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra. Top surface primed with GAF SA Primer	Note 2	1 per 1.33 ft <sup>2</sup>	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-67.5

**TABLE 2H: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1A: THERMAL BARRIER WITH VAPOR BARRIER, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier / Vapor Barrier	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
<b>EVERGUARD FREEDOM TPO:</b>							
S-321.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN	Note 2	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-322.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 2-inch EnergyGuard RA, EnergyGuard RN	Note 2	1 per 4 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-323.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-324.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard RH, loose laid, followed by min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	Note 2	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
S-325.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 2-inch EnergyGuard RA, EnergyGuard RN	Note 2 (#14)	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-52.5
<b>EVERGUARD TPO / EVERGUARD TPO #1121 OR EVERGUARD TPO 3 SQUARE LOW VOC BONDING ADHESIVE:</b>							
S-326.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-327.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 2-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-328.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-329.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.5-inch Dens Deck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*

**TABLE 2H: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1A: THERMAL BARRIER WITH VAPOR BARRIER, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier / Vapor Barrier	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-330.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.625-inch Dens Deck Prime	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-331.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard RH, loose laid, followed by min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-45.0*
S-332.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-52.5
S-333.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / #1121, TPO 3-Square	-52.5
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:</b>							
S-334.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-335.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 2-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-336.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-337.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.5-inch Dens Deck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-338.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.625-inch Dens Deck Prime	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*
S-339.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard RH, loose laid, followed by min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / WB181	-45.0*

**TABLE 2H: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1A: THERMAL BARRIER WITH VAPOR BARRIER, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier / Vapor Barrier	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-340.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / WB181	-52.5
S-341.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / WB181	-52.5
<b>EVERGUARD TPO / EVERGUARD LOW VOC TPO or EVERGUARD TPO 3 SQUARE LOW VOC BONDING ADHESIVE:</b>							
S-342.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-343.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 2-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-344.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-345.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.5-inch Dens Deck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-346.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.625-inch Dens Deck Prime	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-347.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard RH, loose laid, followed by min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-45.0*
S-348.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-52.5
S-349.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft <sup>2</sup>	EverGuard TPO / L-VOC, TPO 3-Square	-52.5

**TABLE 2H: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1A: THERMAL BARRIER WITH VAPOR BARRIER, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier / Vapor Barrier	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
<b>EVERGUARD TPO FB ULTRA IN EVERGUARD WB181 BONDING ADHESIVE:</b>							
S-350.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-45.0*
S-351.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 2-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-45.0*
S-352.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-45.0*
S-353.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.5-inch Dens Deck Prime	Note 2	1 per 3.2 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-45.0*
S-354.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.625-inch Dens Deck Prime	Note 2	1 per 4 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-45.0*
S-355.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch Dens Deck Prime	Note 2	1 per 1.45 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-52.5
S-356.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181	-52.5
<b>EVERGUARD TPO FB ULTRA IN LRF ADHESIVE M OR LRF ADHESIVE O:</b>							
S-357.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN, EnergyGuard RH	Note 2	1 per 2.9 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0*
S-358.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0*

**TABLE 2H: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1A: THERMAL BARRIER WITH VAPOR BARRIER, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

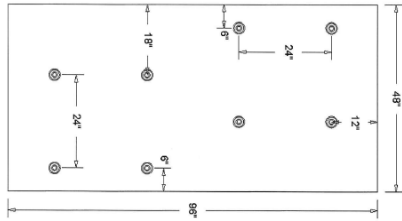
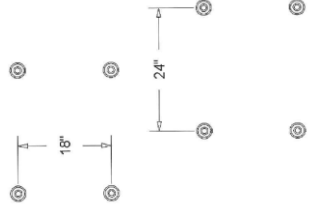
System No.	Deck (Note 1)	Thermal Barrier / Vapor Barrier	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasten	Attach		
S-359.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RN, EnergyGuard RH, loose laid, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-45.0*
S-360.	Min. 22 ga., Type B, Grade 33 steel or structural concrete	Min. 0.625-inch Dens Deck Prime or min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, loose-laid, covered with WeatherWatch XT Mat Surfaced Leak Barrier, self-adhered	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Note 2	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0



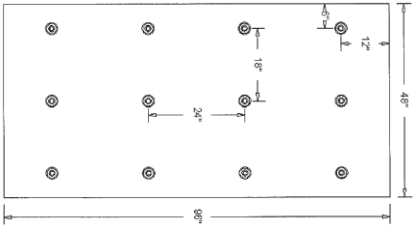
**TABLE 21: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 14)	Attachment		Roof Cover	MDP (psf)
			Fasteners	Density		
S-361.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, preliminarily attached (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	Max. 18-inch o.c. in rows spaced max. 60-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-30.0
S-362.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, preliminarily attached (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	Max. 12-inch o.c. in rows spaced max. 60-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-37.5
S-363.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, preliminarily attached (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	Max. 18-inch o.c. in rows spaced max. 60-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-37.5
S-364.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, 4 x 8 ft board; (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	1 per 5.3 ft <sup>2</sup> (6 parts per 4 x 8 ft board) Fasteners located in each of the four corners of the board and at mid-span of the 96-inch length. Fasteners are 12-inches from the board's long edges and 12- and 48-inches from the board's short edges.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-37.5
S-365.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, preliminarily attached (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	Max. 12-inch o.c. in rows spaced max. 60-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0
S-366.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, 4 x 8 ft board; (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	1 per 5.3 ft <sup>2</sup> (6 parts per 4 x 8 ft board) Fasteners located in each of the four corners of the board and at mid-span of the 96-inch length. Fasteners are 6-inches from the board's long edges and 12- and 48-inches from the board's short edges.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0*
S-367.	Min. 2,500 psi structural concrete	One or more layers, any combination, 4 x 8 ft board	Drill-Tec #14 and Drill-Tec RhinoBond TPO XHD Plates	1 per 5.3 ft <sup>2</sup> (6 parts per 4 x 8 ft board) Fasteners located in each of the four corners of the board and at mid-span of the 96-inch length. Fasteners are 6-inches from the board's long edges and 12- and 48-inches from the board's short edges.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0*
S-368.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, 4 x 4 ft board; (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	1 per 4 ft <sup>2</sup> (4 parts per 4 x 4 ft board) Fasteners located in each of the four corners of the board. Fasteners are 12-inch from the board edges.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0*
S-369.	Min. 2,500 psi structural concrete	One or more layers, any combination, 4 x 4 ft board	Drill-Tec #14 and Drill-Tec RhinoBond TPO XHD Plates	1 per 4 ft <sup>2</sup> (4 parts per 4 x 4 ft board) Fasteners located in each of the four corners of the board. Fasteners are 12-inch from the board edges.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0*

**TABLE 21: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 14)	Attachment		Roof Cover	MDP (psf)
			Fasteners	Density		
S-370.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, preliminarily attached (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	Max. 24-inch o.c. in rows spaced max. 30-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-52.5
S-371.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, 4 x 8 ft board; (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	<p>1 per 4 ft<sup>2</sup> (8 parts per 4 x 8 ft board)</p> 	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-60.0
S-372.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, preliminarily attached	Drill-Tec SXHD and Drill-Tec RhinoBond TPO SXHD Plates	24 x 24 inch grid	EverGuard TPO bonded to Drill-Tec RhinoBond TPO SXHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-60.0
S-373.	Min. 2,500 psi structural concrete	One or more layers, any combination, preliminarily attached	Drill-Tec #14 and Drill-Tec RhinoBond TPO XHD Plates	24 x 24 inch grid	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-60.0
S-374.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, preliminarily attached (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	Max. 6-inch o.c. in rows spaced max. 72-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-67.5
S-375.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, preliminarily attached (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	<p>1 per 2.67 ft<sup>2</sup> (12 parts per 4 x 8 ft board)</p> <p>Fasteners are 6-, 24- and 42-inches from the board's long edge and 12-, 36-, 60- and 84-inches from the board's short edge.</p>	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-67.5
S-376.	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, (Tread Safe = min. 2-inch)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	<p>18 x 24 inch staggered grid</p> 	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-82.5

**TABLE 2I: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, PLATE-BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 14)	Attachment		Roof Cover	MDP (psf)
			Fasteners	Density		
S-377.	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, (Tread Safe = min. 2-inch)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	<p>1 per 2.67 ft<sup>2</sup> (12 parts per 4 x 8 ft board)</p> 	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-82.5
S-378.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, preliminarily attached (Tread Safe = min. 2-inch thick insulation)	Drill-Tec XHD and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates	Max. 6-inch o.c. in rows spaced max. 72-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-97.5

**TABLE 2J: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 14)		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners	Attachment	
<b>EVERGUARD TPO:</b>							
S-379.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates	18-inch o.c. within 6-inch wide laps spaced 54-inch o.c. and sealed with a 1.5-inch heat weld.	-30.0
S-380.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2-3/8 in. Barbed XHD Plates or Drill-Tec Eyehook AccuSeam Plates	12-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-30.0
S-381.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD and Drill-Tec 2 in. Double Barbed XHD Plates, Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates	12-inch o.c. in rows spaced max. 114-inch o.c. An 8-inch wide cover strip is heat welded over the stress plates.	-30.0
S-382.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	12-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-30.0
S-383.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD or Drill-Tec SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	12-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-30.0
S-384.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates	12-inch o.c. within 6-inch wide laps spaced 90-inch o.c. and sealed with a 1.5-inch heat weld.	-37.5
S-385.	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	12-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-37.5
S-386.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD or SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	12-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-37.5
S-387.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates	12-inch o.c. within 5-inch wide laps spaced 115-inch o.c. and sealed with a 1.5-inch heat weld.	-37.5
S-388.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	12-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-37.5
S-389.	Structural concrete	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec #14 Fasteners with Drill-Tec 2 3/4 in. Barbed SXHD Plates	12-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-37.5
S-390.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec 2 3/8 in. Barbed XHD Plates; or Drill-Tec SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	12-inch o.c. within 6-inch wide laps spaced 54-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-391.	Min. 22 ga., type B, Grade 33 steel	Min. 200 psi, min. 2-inch thick cellular lightweight concrete	Prelim. attach	EverGuard TPO or EverGuard TPO FB Ultra	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Drill-Tec 2-3/8 in. Barbed XHD Plates	12-inch o.c. within 6-inch wide laps spaced 54-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-392.	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates	12-inch o.c. within 6-inch wide laps spaced 66-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-393.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	12-inch o.c. within 6-inch wide laps spaced 90-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-394.	Min. 20 ga., type B, Grade 33 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	12-inch o.c. within 6-inch wide laps spaced 90-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0

**TABLE 2J: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 14)		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners	Attachment	
S-395.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates	6-inch o.c. within 5-inch wide laps spaced 114.5-inch o.c. and sealed with a 1.75-inch heat weld.	-45.0
S-396.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	12-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-397.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec XHD or SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-398.	Min. 18 ga., type B, Grade 33 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec XHD or SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-399.	Structural concrete	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec #14 Fasteners with Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates, Drill-Tec 2 in. Double Barbed XHD Plates or Drill-Tec 2 3/4 in. Barbed SXHD Plates	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-45.0
S-400.	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates	12-inch o.c. within 6-inch wide laps spaced 54-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-401.	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	12-inch o.c. within 6-inch wide laps spaced 66-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-402.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Drill-Tec 2 in. Double Barbed XHD Plates	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-403.	Structural concrete	One or more layers, any combination, min. 1.5-inch	Prelim. attach or OB500	EverGuard TPO	Drill-Tec #14 or Drill-Tec CD-10 fasteners with Drill-Tec 2 in. Double Barbed XHD Plates, Drill-Tec 2-3/8 in. Barbed XHD Plates or Drill-Tec Eyehook AccuSeam Plates	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-404.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates or Drill-Tec 2 in. Double Barbed XHD Plates	6-inch o.c. within 5-inch wide laps spaced 115-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-405.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD or SXHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-406.	Structural concrete	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec #14 Fasteners with Drill-Tec 2 3/4 in. Barbed SXHD Plates	6-inch o.c. within 6-inch wide laps spaced 138-inch o.c. and sealed with a 1.5-inch heat weld.	-52.5
S-407.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates	6-inch o.c. within 6-inch wide laps spaced 54-inch o.c. and sealed with a 1.5-inch heat weld.	-60.0
S-408.	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	12-inch o.c. within 6-inch wide laps spaced 54-inch o.c. and sealed with a 1.5-inch heat weld.	-60.0

**TABLE 2J: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-1: MECHANICALLY ATTACHED ROOF COVER**

System No.	Deck (Note 1)	Insulation (Note 14)		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners	Attachment	
S-409.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/8 in. Barbed XHD Plates	6-inch o.c. within 6-inch wide laps spaced 90-inch o.c. and sealed with a 1.5-inch heat weld.	-60.0
S-410.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-60.0
S-411.	Min. 22 ga., type B, Grade 33 steel	Min. 200 psi, min. 2-inch thick cellular lightweight concrete	Prelim. attach	EverGuard TPO or EverGuard TPO FB Ultra	Drill-Tec XHD with Drill-Tec 2-3/4 in. SXHD Plates	12-inch o.c. within 6-inch wide laps spaced 54-inch o.c. and sealed with a 1.5-inch heat weld.	-67.5
S-412.	Min. 22 ga., type BV (0.5%), Grade 33 steel	Min. 330 psi, min. 2-inch thick Celcore Cellular Concrete	N/A	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates (to engage steel deck)	Fastened through to engage steel deck, 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-67.5
S-413.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, min. 1-inch	Prelim. attach	EverGuard TPO	Drill-Tec XHD with Drill-Tec 2 3/4 in. Barbed SXHD Plates	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-67.5
S-414.	Min. 18 ga., type B, Grade 33 steel	One or more layers, min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	5 fasteners / plates per 4 x 4 ft board	EverGuard TPO	Drill-Tec XHD Fasteners with Drill-Tec 2 in. Double Barbed XHD Plates	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-90.0
<b>EVERGUARD TPO FB ULTRA:</b>							
S-415.	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO FB Ultra	Drill-Tec XHD (steel only) or Drill-Tec #14 Fasteners (concrete only) with Drill-Tec 2 3/8 in. Barbed XHD Plates	6-inch o.c. within min. 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.625-inch heat weld.	-45.0
S-416.	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, any combination, min. 1.5-inch	Prelim. attach	EverGuard TPO FB Ultra	Drill-Tec XHD (steel only) or Drill-Tec #14 Fasteners (concrete only) with Drill-Tec 2 3/8 in. Barbed XHD Plates	6-inch o.c. within min. 6-inch wide laps spaced 112.5-inch o.c. and sealed with a 1.625-inch heat weld.	-60.0
S-417.	Min. 22 ga., type BV (0.5%), Grade 33 steel	Min. 200 psi, min. 3-inch thick Elastizell Lightweight Insulating Concrete	N/A	EverGuard TPO FB Ultra	Drill-Tec XHD with Drill-Tec 2 in. Double Barbed XHD Plates (to engage steel deck)	Fastened through to engage steel deck, 6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. and sealed with a 1.5-inch heat weld.	-75.0

**TABLE 2K: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer(s) (Note 14)		Base or Anchor Sheet			Roof Cover	MDP (psf)
		Type	Attach	Base	Fasteners	Attach		
S-418.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	GAF StormSafe Anchor Sheet (48-inch wide)	Note 2	12-inch o.c. at min. 4-inch laps and 12-inch o.c. in two, equally spaced, staggered center rows	EverGuard Freedom TPO / self adhered	-45.0
S-419.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	GAF StormSafe Anchor Sheet (48-inch wide)	Note 2	18-inch o.c. at min. 4-inch laps and 18-inch o.c. in two, equally spaced, staggered center rows	EverGuard Freedom TPO / self adhered	-52.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
<b>EVERGUARD FREEDOM TPO:</b>							
C-1.	Structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard Freedom TPO / self adhered	-142.5
C-2.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-232.5
C-3.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-382.5
C-4.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard Freedom TPO / self adhered	-97.5
C-5.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard Freedom TPO / self adhered	-232.5
C-6.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Additional layers of base insulation	LRF-M	EverGuard Freedom TPO / self adhered	-292.5
C-7.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard Freedom TPO / self adhered	-37.5
C-8.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-37.5
C-9.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard Freedom TPO / self adhered	-37.5
C-10.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard Freedom TPO / self adhered	-52.5
C-11.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard Freedom TPO / self adhered	-97.5
C-12.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard Freedom TPO / self adhered	-97.5
C-13.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-127.5
C-14.	Structural concrete	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	-	EverGuard Freedom TPO / self adhered	-230.0
C-15.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-232.5
C-16.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layers of base insulation	OB500	EverGuard Freedom TPO / self adhered	-292.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
C-17.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-347.5
C-18.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-382.5
<b>EVERGUARD TPO / EVERGUARD TPO #1121 OR EVERGUARD TPO 3 SQUARE LOW VOC BONDING ADHESIVE:</b>							
C-19.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Hot Asphalt	(Optional) Min. 0.25-inch Dens Deck Prime or min. 7/16-inch OSB	Hot asphalt	EverGuard TPO / #1121, TPO 3-Square	-45.0
C-20.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-82.5
C-21.	Structural concrete	Min. 1.5-inch thick, min. 1.25 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-87.5
C-22.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 1.5 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch Dens Deck or Dens Deck Prime	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-130.0
C-23.	Structural concrete	One or more layers, min. 1.5-inch thick, min. 1.5 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-180.0
C-24.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layers of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-232.5
C-25.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-232.5
C-26.	Structural concrete	One or more layers, min. 1.5-inch thick, min. 2.0 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-240.0
C-27.	Structural concrete	Min. 2-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-247.5
C-28.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-82.5
C-29.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-97.5
C-30.	Structural concrete	Min. 1-inch EnergyGuard RH	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-162.5
C-31.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-232.5



**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
C-32.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Additional layers of base insulation	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-292.5
C-33.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-37.5
C-34.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-37.5
C-35.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-37.5
C-36.	Structural concrete	Min. 1.5-inch FM Approved Premier Industries / Insulfoam EPS Board	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-45.0
C-37.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-45.0
C-38.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-52.5
C-39.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-82.5
C-40.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-97.5
C-41.	Structural concrete	Min. 2-inch, min. 1.0 pcf, ASTM C578 expanded polystyrene	OB500	Min. 0.25-inch Dens Deck or Dens Deck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-120.0
C-42.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-127.5
C-43.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1-inch Foamular 250	OB500	Min. 0.25-inch Dens Deck or Dens Deck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-130.0
C-44.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-232.5
C-45.	Structural concrete	Min. 1.5-inch EnergyGuard RA or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-240.0
C-46.	Structural concrete	Min. 2-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-247.5
C-47.	Structural concrete	Min. 1.5-inch EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-270.0

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
C-48.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layers of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-292.5
C-49.	Structural concrete	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard RA	OB500	None	N/A	EverGuard TPO / #1121, TPO 3-Square	-502.5
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:</b>							
C-50.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Hot asphalt	(Optional) Additional layer of base insulation	Hot asphalt	EverGuard TPO / WB181	-135.0
C-51.	Structural concrete	Min. 1.5-inch thick, min. 1.25 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch Dens Deck Prime	GAF 2-Part	EverGuard TPO / WB181	-87.5
C-52.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 1.5 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch Dens Deck Prime	GAF 2-Part	EverGuard TPO / WB181	-130.0
C-53.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / WB181	-232.5
C-54.	Structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-270.0
C-55.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard TPO / WB181	-97.5
C-56.	Structural concrete	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	None	N/A	EverGuard TPO / WB181	-112.5
C-57.	Structural concrete	Min. 1-inch EnergyGuard RH	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO / WB181	-162.5
C-58.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / WB181	-232.5
C-59.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Additional layers of base insulation	LRF-M	EverGuard TPO / WB181	-292.5
C-60.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / WB181	-37.5
C-61.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / WB181	-37.5
C-62.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / WB181	-37.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
C-63.	Structural concrete	Min. 1.5-inch FM Approved Premier Industries / Insulfoam EPS Board	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-45.0
C-64.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / WB181	-45.0
C-65.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / WB181	-52.5
C-66.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / WB181	-97.5
C-67.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / WB181	-97.5
C-68.	Structural concrete	Min. 2-inch, min. 1.0 pcf, ASTM C578 expanded polystyrene	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-120.0
C-69.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1-inch Foamular 250	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-130.0
C-70.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-135.0
C-71.	Structural concrete	Min. 1-inch EnergyGuard RA	OB500	None	N/A	EverGuard TPO / WB181	-215.0
C-72.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / WB181	-232.5
C-73.	Structural concrete	Min. 1.5-inch EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / WB181	-270.0
C-74.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layers of base insulation	OB500	EverGuard TPO / WB181	-292.5
<b>EVERGUARD TPO / EVERGUARD LOW VOC TPO or EVERGUARD TPO 3 SQUARE LOW VOC BONDING ADHESIVE:</b>							
C-75.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Hot Asphalt	(Optional) Min. 0.25-inch Dens Deck Prime	Hot asphalt	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
C-76.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or min. 1.5-inch thick, min. 1.25 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
C-77.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-82.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
C-78.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-232.5
C-79.	Structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-270.0
C-80.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-82.5
C-81.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-97.5
C-82.	Structural concrete	Min. 1-inch EnergyGuard RH	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-162.5
C-83.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-232.5
C-84.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Additional layers of base insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-240.0
C-85.	Structural concrete	Min. 0.5-inch EnergyGuard RH	LRF-M	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-360.0
C-86.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-37.5
C-87.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-37.5
C-88.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-37.5
C-89.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN, min. 2-inch, min. 1.0 pcf, ASTM C578 expanded polystyrene or Min. 1-inch Foamular 250 or min. 1.5-inch , FM Approved Premier Industries / Insulfoam EPS Board	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
C-90.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
C-91.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-45.0

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
C-92.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-82.5
C-93.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-97.5
C-94.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-97.5
C-95.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-127.5
C-96.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-232.5
C-97.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layers of base insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-240.0
C-98.	Structural concrete	Min. 1.5-inch EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-270.0
C-99.	Structural concrete	Min. 1-inch EnergyGuard RH	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-502.5
<b>TRIPOSITE ROOFING SYSTEM:</b>							
C-100.	Structural concrete (primed)	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard Ultra	Hot Asphalt	(Optional) Additional layers of base insulation	Hot asphalt	Triposite System. Note 19	-172.5
<b>EVERGUARD TPO FB ULTRA IN HOT ASPHALT:</b>							
C-101.	Structural concrete (primed)	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN or EnergyGuard Ultra	Hot Asphalt	Min. 0.25-inch Dens Deck	Hot asphalt	EverGuard TPO FB Ultra / Hot asphalt	-45.0
C-102.	Structural concrete (primed)	Min. 1-inch EnergyGuard RH	Hot asphalt	None	N/A	EverGuard TPO FB Ultra / Hot asphalt	-470.0
C-103.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN or EnergyGuard Ultra	OB500	Min. 0.25-inch Dens Deck	OB500	EverGuard TPO FB Ultra / Hot asphalt	-45.0
<b>EVERGUARD TPO FB ULTRA IN EVERGUARD WB181 BONDING ADHESIVE:</b>							
C-104.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-232.5
C-105.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard TPO FB Ultra / WB181	-97.5

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
C-106.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181	-232.5
C-107.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Additional layers of base insulation	LRF-M	EverGuard TPO FB Ultra / WB181	-292.5
C-108.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / WB181	-37.5
C-109.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-37.5
C-110.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO FB Ultra / WB181	-37.5
C-111.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-52.5
C-112.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO FB Ultra / WB181	-97.5
C-113.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / WB181	-127.5
C-114.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layers base insulation	OB500	EverGuard TPO FB Ultra / WB181	-225.0
C-115.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-232.5
C-116.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-240.0
C-117.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layers of base insulation	OB500	EverGuard TPO FB Ultra / WB181	-292.5
<b>EVERGUARD TPO FB ULTRA IN LRF ADHESIVE M OR LRF ADHESIVE O:</b>							
C-118.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-37.5
C-119.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime	GAF 2-Part	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0
C-120.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	Additional optional layers base insulation followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
C-121.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
C-122.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-180.0
C-123.	Structural concrete	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-195.0
C-124.	Structural concrete	(Optional) Min. 1-inch EnergyGuard RA	LRF-M	Min. 1.75-inch ACFoam Composite/GB	LRF-M	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-37.5
C-125.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	LRF-M	Min. 0.25-inch Temple Green Glass Primed Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-37.5
C-126.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH. EnergyGuard RN	LRF-M	Min. 0.25-inch Dens Deck Prime	LRF-M	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-37.5
C-127.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by Min. 0.25-inch Dens Deck Prime	LRF-M	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-37.5
C-128.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	LRF-M	(Optional) Additional layers base insulation	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
C-129.	Structural concrete	(Optional) Min. 1-inch EnergyGuard RA	LRF-M	Min. 1.75-inch ACFoam Composite/GB	LRF-M	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0
C-130.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH. EnergyGuard RN	LRF-M	Min. 0.25-inch Dens Deck Prime	LRF-M	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0
C-131.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by Min. 0.25-inch Dens Deck Prime	LRF-M	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0
C-132.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH. EnergyGuard RN	LRF-M	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
C-133.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Additional optional layers base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
C-134.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Additional layers base insulation	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0
C-135.	Structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RN, EnergyGuard RM	LRF-M	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-67.5
C-136.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	LRF-M	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-180.0
C-137.	Structural concrete	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-195.0
C-138.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layers base insulation	LRF-M	EverGuard TPO FB Ultra / LRF-M, 4-inch o.c.	-210.0

**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
C-139.	Structural concrete	(Optional) Min. 1-inch EnergyGuard RA	OB500	Min. 1.75-inch ACFoam Composite/GB	OB500	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-37.5
C-140.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch Temple Green Glass Primed Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-37.5
C-141.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH. EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-37.5
C-142.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-37.5
C-143.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-37.5
C-144.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layers base insulation	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
C-145.	Structural concrete	(Optional) Min. 1-inch EnergyGuard RA	OB500	Min. 1.75-inch ACFoam Composite/GB	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0
C-146.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH. EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0
C-147.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0
C-148.	Structural concrete	Min. 1-inch EnergyGuard RA, EnergyGuard RH. EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
C-149.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Additional optional layers base insulation followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
C-150.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0
C-151.	Structural concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0
C-152.	Structural concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-60.0
C-153.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layers base insulation	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0
C-154.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	OB500	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-180.0
C-155.	Structural concrete	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-195.0

EVERGUARD TPO FB ULTRA IN SPATTER APPLICATIONS:



**TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
 REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		
C-156.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0
C-157.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0
C-158.	Structural concrete	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	None	N/A	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-195.0
C-159.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Additional layers base insulation	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0
C-160.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	LRF-M	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0
C-161.	Structural concrete	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	None	N/A	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-195.0
C-162.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layers base insulation	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0
C-163.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	OB500	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0
C-164.	Structural concrete	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-195.0

**TABLE 3B: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED BASE AND CAP PLY**

REFER TO NOTE 17 FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)		MDP (psf)
		Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)	Base Ply	Cap Ply	
<b>ASPHALT-APPLIED BASE PLY:</b>								
C-165.	Structural concrete	EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-60.0
C-166.	Structural concrete	EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	Ruberoid 20 Smooth / hot asphalt	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 4-inch o.c.	-180.0
<b>TORCH-APPLIED BASE PLY:</b>								
C-167.	Structural concrete	EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-60.0
C-168.	Structural concrete	EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	Ruberoid HW 25 Smooth / torch-applied	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 4-inch o.c.	-180.0
<b>SELF-ADHERING BASE PLY:</b>								
C-169.	Structural concrete	EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-60.0
C-170.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra or min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	LRF-M, OB500	Min. 0.5-inch EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation. Top surface primed with GAF SA Primer.	LRF-M, OB500	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-97.5
C-171.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra or min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface primed with GAF SA Primer.	LRF-M, OB500 or GAF 2-Part	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-120.0
C-172.	Structural concrete	Min. 0.5-inch EnergyGuard Polyiso Insulation or EnergyGuard Ultra or min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	(Optional) Additional layer(s) base insulation. Top surface primed with GAF SA Primer.	LRF-M, OB500 or GAF 2-Part	Ruberoid SA Universal Base / self-adhering	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-127.5
C-173.	Structural concrete	EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RM or EnergyGuard RN	LRF-M, OB500 or GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M, OB500 or GAF 2-Part	Liberty SBS Self-Adhering Cap Sheet / self-adhered	EverGuard TPO FB Ultra / hot asphalt, GAF 2-Part (spatter) or OlyBond 500 (spatter) or LRF-O, 4-inch o.c.	-180.0

**TABLE 3C: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck (Note 1)	Roof Cover (Note 16)	MDP (psf)
C-174.	Min. 2,500 psi structural concrete	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0
C-175.	Min. 2,500 psi structural concrete	EverGuard TPO FB Ultra / WB181	-300.0
C-176.	Min. 3,000 psi structural concrete primed with Matrix™ 307 Premium Asphalt Primer.	EverGuard TPO FB Ultra / Hot asphalt	-390.0
C-177.	Min. 2,500 psi structural concrete	EverGuard TPO FB Ultra / OlyBond 500 Canister (spatter)	-435.0
C-178.	Min. 2,500 psi structural concrete	EverGuard TPO FB Ultra / GAF 2-Part (spatter)	-497.5

**TABLE 4A: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: LWC TO DECK, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	LWIC (Note 15)	Base Insulation Layer		Coverboard		Roof Cover (Note 16)	MDP (psf)
			Type	Attach	Type	Attach		
<b>EVERGUARD FREEDOM TPO:</b>								
LWC-1.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-180.0
LWC-2.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-222.5
LWC-3.	Structural concrete	Min. 200 psi, min. 2-inch thick Mearlcrete	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-240.0
LWC-4.	Structural concrete	Min. 250 psi Mearlcrete	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	EverGuard Freedom TPO / self adhered	-75.0
LWC-5.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard Freedom TPO / self adhered	-142.5
LWC-6.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-225.0
<b>EVERGUARD TPO / EVERGUARD TPO #1121 OR EVERUGARD TPO 3 SQUARE LOW VOC BONDING ADHESIVE:</b>								
LWC-7.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete, Elastizell or Mearlcrete	Min. 1.5-inch thick, min. 1.25 pcf density ASTM C578 expanded or extruded EPS board	GAF 2-Part	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-87.5
LWC-8.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete, Elastizell or Mearlcrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 1.5 pcf density ASTM C578 expanded or extruded EPS board	GAF 2-Part	Min. 0.25-inch Dens Deck or Dens Deck Prime	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-130.0
LWC-9.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 1.5 pcf density ASTM C578 expanded or extruded EPS board	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-180.0
LWC-10.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-222.5
LWC-11.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf density ASTM C578 expanded or extruded EPS board	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-222.5
LWC-12.	Structural concrete	Min. 200 psi, min. 2-inch thick Mearlcrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 2.0 pcf density ASTM C578 expanded or extruded EPS board	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-240.0
LWC-13.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	Min. 2-inch, min. 1.0 pcf, ASTM C578 expanded polystyrene	OB500	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-120.0
LWC-14.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1-inch Foamular 250	OB500	Min. 0.25-inch Dens Deck or Dens Deck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-130.0
LWC-15.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-180.0

**TABLE 4A: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: LWC TO DECK, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	LWIC (Note 15)	Base Insulation Layer		Coverboard		Roof Cover (Note 16)	MDP (psf)
			Type	Attach	Type	Attach		
LWC-16.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-180.0
LWC-17.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	Min. 1-inch Foamular 250	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-225.0
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:</b>								
LWC-18.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete, Elastizell or Mearlcrete	Min. 1.5-inch thick, min. 1.25 pcf density ASTM C578 expanded or extruded EPS board	GAF 2-Part	Min. 0.25-inch Dens Deck Prime	GAF 2-Part	EverGuard TPO / WB181	-87.5
LWC-19.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete, Elastizell or Mearlcrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 1.5 pcf density ASTM C578 expanded or extruded EPS board	GAF 2-Part	Min. 0.25-inch Dens Deck Prime	GAF 2-Part	EverGuard TPO / WB181	-130.0
LWC-20.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-180.0
LWC-21.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-222.5
LWC-22.	Structural concrete	Min. 200 psi, min. 2-inch thick Mearlcrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-240.0
LWC-23.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	Min. 2-inch, min. 1.0 pcf, ASTM C578 expanded polystyrene	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-120.0
LWC-24.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1-inch Foamular 250	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-130.0
LWC-25.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / WB181	-180.0
<b>EVERGUARD TPO / EVERGUARD LOW VOC TPO or EVERGUARD TPO 3 SQUARE LOW VOC BONDING ADHESIVE:</b>								
LWC-26.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete, Elastizell or Mearlcrete	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN, min. 1.5-inch thick, min. 1.25 pcf density ASTM C578 expanded or extruded EPS board	GAF 2-Part	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
LWC-27.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-180.0
LWC-28.	Structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-222.5
LWC-29.	Structural concrete	Min. 200 psi, min. 2-inch thick Mearlcrete	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-240.0
LWC-30.	Structural concrete	Min. 200 psi, min. 2-inch thick Elastizell	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN, min. 2-inch, min. 1.0 pcf, ASTM C578 expanded polystyrene or Min. 1-inch Foamular 250	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-45.0

**TABLE 4B: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-2: LWC TO DECK, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	LWIC (Note 15)	Anchor Sheet			Insulation			Roof Cover (Note 16)		MDP (psf)
			Type	Fasteners	Attach	Base	Top	Attach	Base Ply	Cap Ply	
LWC-31.	Min. 22 ga. steel or concrete deck.	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	EverGuard Freedom TPO / Self-adhered	-45.0
LWC-32.	Min. 22 ga. steel or concrete deck.	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	None	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-45.0
LWC-33.	Min. 22 ga. steel or concrete deck.	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	None	EverGuard TPO / WB181	-45.0
LWC-34.	Min. 22 ga. steel or concrete deck.	Minimum 300 psi, minimum 2-inch thick Celcore Cellular Concrete	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.)	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	None	EverGuard TPO FB Ultra / WB181	-45.0

**TABLE 4C: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE E: LWC TO DECK, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	LWIC (Note 15)	Base Sheet			Roof Cover (Note 16)		MDP (psf)
			Type	Fasteners	Attach	Base	Cap	
<b>EVERGUARD FREEDOM TPO:</b>								
LWC-35.	Min. 22 ga., type B, Grade 33 vented steel at max. 6 ft spans	Min. 250-300 psi, min. 2-inch thick pre-existent cellular lightweight concrete	GAF StormSafe Anchor Sheet	Drill-Tec #12 screws and Drill-Tec AccuTrac Flat Plates (engage steel deck)	12-inch o.c. at the 4-inch lap and 12-inch o.c. in three, equally spaced, staggered rows in the center of the sheet	None	EverGuard Freedom TPO	-45.0
LWC-36.	Min. 22 ga., type B, Grade 33 vented steel at max. 5 ft spans	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	Tri-Flex 30	Drill-Tec CR Base Sheet Fasteners	9-inch o.c. in the 4-inch lap and 9-inch o.c. in three, equally spaced, staggered rows in the center of the sheet	None	EverGuard Freedom TPO	-52.5
LWC-37.	Min. 22 ga., type B, Grade 33 vented steel at max. 6 ft spans	Min. 300 psi, min. 2-inch thick Mearlcrete	GAF StormSafe Anchor Sheet	Drill-Tec Locking Impact Nail, min. 1.8-inch	7.5-inch o.c. in the 4-inch lap and 12-inch o.c. in three, equally spaced, staggered rows in the center of the sheet	None	EverGuard Freedom TPO	-52.5
<b>HYBRID SYSTEMS:</b>								
LWC-38.	Min. 22 ga., type B, Grade 40 vented steel at max. 6 ft spans	Min. 340 psi, min. 2-inch thick pre-existent cellular lightweight concrete. <i>Note: To qualify the LWIC under this assembly, the selected fastener shall achieve an average withdrawal of 60 lbf or greater when tested per TAS105 or ANSI/SPRI FX-1</i>	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.), Drill-Tec Locking Impact Nail or Trufast FM-290	7-inch o.c. at min. 4-inch laps and 7-inch o.c. in two, equally spaced, staggered center rows	(Optional) One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in hot asphalt	-52.5
LWC-39.	Min. 22 ga., type B, Grade 40 vented steel at max. 6 ft spans	Min. 340 psi, min. 2-inch thick pre-existent cellular lightweight concrete. <i>Note: To qualify the LWIC under this assembly, the selected fastener shall achieve an average withdrawal of 60 lbf or greater when tested per TAS105 or ANSI/SPRI FX-1</i>	GAFGLAS #75 Base Sheet, Tri-Ply #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Stratavent Nailable Venting Base Sheet, Ruberoid 20 Smooth	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.), Drill-Tec Locking Impact Nail or Trufast FM-290	7-inch o.c. at min. 4-inch laps and 7-inch o.c. in two, equally spaced, staggered center rows	One or two plies Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid Mop Smooth 1.5 or Ruberoid Mop Plus Smooth in hot asphalt or one or two plies Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch-applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5

**TABLE 4C: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE E: LWC TO DECK, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	LWIC (Note 15)	Base Sheet			Roof Cover (Note 16)		MDP (psf)
			Type	Fasteners	Attach	Base	Cap	
LWC-40.	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft spans	Re-Roof Only: Min. 210 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete; <b>Note:</b> <i>To qualify the pre-existent LWIC under this assembly, the selected fastener shall achieve an average withdrawal of 95 lbf or greater when tested per ANSI/SPRI FX-1 or TAS105.</i>	Ruberoid 20 Smooth	Drill-Tec Base Sheet Fastener (1.7 in.) or Drill-Tec Base Sheet Fastener E (1.7 in.), Drill-Tec Locking Impact Nail	7-inch o.c. at min. 4-inch laps and 7-inch o.c. in two, equally spaced, staggered center rows	Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or hot asphalt	-82.5
LWC-41.	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft spans	Re-Roof Only: Min. 210 psi, min. 2-inch thick pre-existent cellular lightweight insulating concrete; <b>Note:</b> <i>To qualify the pre-existent LWIC under this assembly, the selected fastener shall achieve an average withdrawal of 95 lbf or greater when tested per ANSI/SPRI FX-1 or TAS105.</i>	GAFGLAS #80 Ultima Base Sheet or GAFGLAS Stratavent Nailable Venting Base Sheet	Drill-Tec Base Sheet Fastener (1.7 in.), Drill-Tec Locking Impact Nail	7-inch o.c. at min. 4-inch laps and 7-inch o.c. in two, equally spaced, staggered center rows	Ruberoid HW 25 Smooth or Ruberoid HW Smooth, torch applied	EverGuard TPO FB Ultra in GAF 2-Part (spatter) or hot asphalt	-82.5



**TABLE 4D: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER**

System No.	Deck (Note 1)	LWIC (Note 15)			Roof Cover (Note 16)		MDP (psf)
		Type	Min. Compressive Strength (psi)	Min. Thickness (in)	Type	Attach	
LWC-42.	Min. 22 ga., type BV, Grade 33 steel at max. 6 ft spans	Mearlcrete	300	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-52.5
LWC-43.	Min. 22 ga., type BV, Grade 33 steel at max. 6 ft spans	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>97 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.	180	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-52.5
LWC-44.	Structural concrete	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>97 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.	180	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-102.5
LWC-45.	Structural concrete	Elastizell	220	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-200.0
LWC-46.	Structural concrete	Mearlcrete	290	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-205.0
LWC-47.	Structural concrete	Concrecel	200	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-225.0
LWC-48.	Structural concrete	Mearlcrete	730	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, ribbons 6-inch o.c.	-45.0
LWC-49.	Min. 22 ga., type BV, Grade 33 steel at max. 6 ft spans	Mearlcrete	300	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, 4-inch o.c.	-52.5
LWC-50.	Structural concrete	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>97 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.	180	2	EverGuard TPO FB Ultra	LRF-M, ribbons 4-inch o.c.	-92.5
LWC-51.	Structural concrete	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>97 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.	180	2	EverGuard TPO FB Ultra	LRF-O, ribbons 4-inch o.c.	-112.5
LWC-52.	Structural concrete	Elastizell	200	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, ribbons 4-inch o.c.	-210.0

**TABLE 4D: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER**

System No.	Deck (Note 1)	LWIC (Note 15)			Roof Cover (Note 16)		MDP (psf)
		Type	Min. Compressive Strength (psi)	Min. Thickness (in)	Type	Attach	
LWC-53.	Structural concrete	Concrecel	200	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, ribbons 4-inch o.c.	-225.0
LWC-54.	Structural concrete	Mearlcrete or Insulcel	200	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, ribbons 4-inch o.c.	-270.0
LWC-55.	Structural concrete	Celcore Cellular Concrete	200	2	EverGuard TPO FB Ultra	LRF-M or LRF-O, ribbons 4-inch o.c.	-300.0
LWC-56.	Min. 22 ga., type BV, Grade 33 steel at max. 6 ft spans	Mearlcrete	300	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
LWC-57.	Min. 22 ga., type BV, Grade 33 steel at max. 6 ft spans	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>97 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.	180	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
LWC-58.	Min. 22 ga., type BV, Grade 33 steel at max. 6 ft spans	Mearlcrete	290	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
LWC-59.	Min. 22 ga., type BV, Grade 33 steel at max. 6 ft spans	Elastizell	290	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
LWC-60.	Min. 22 ga., type BV, Grade 33 steel at max. 6 ft spans	Concrecel	290	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5
LWC-61.	Min. 22 ga., type BV, Grade 33 steel at max. 6 ft spans	Elastizell	160	3	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
LWC-62.	Structural concrete	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>97 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.	180	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-102.5
LWC-63.	Structural concrete	Mearlcrete	290	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-205.0
LWC-64.	Structural concrete	Elastizell	220	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-200.0

**TABLE 4D: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER**

System No.	Deck (Note 1)	LWIC (Note 15)			Roof Cover (Note 16)		MDP (psf)
		Type	Min. Compressive Strength (psi)	Min. Thickness (in)	Type	Attach	
LWC-65.	Structural concrete	Concrecel	200	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-225.0
LWC-66.	Structural concrete	Insulcel	200	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-270.0
LWC-67.	Structural concrete	Celcore Cellular Concrete	200	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-300.0

**TABLE 4E: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE F: TEMP ROOF / VAPOR BARRIER TO DECK, LWC TO TEMP ROOF / VAPOR BARRIER, BONDED ROOF COVER**

System No.	Deck (Note 1)	Primer	Temp Roof / Vapor Barrier	LWIC (Note 15)			Roof Cover (Note 16)		MDP (psf)
				Type	Min. Compressive Strength (psi)	Min. Thickness (in)	Type	Attach	
LWC-68.	Structural concrete	Matrix 307 Premium Asphalt Primer	Ruberoid HW Smooth, torch-applied	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>97 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.	180	2	EverGuard TPO FB Ultra	EverGuard WB181 Bonding Adhesive	-102.5
LWC-69.	Structural concrete	Matrix 307 Premium Asphalt Primer	Ruberoid HW Smooth, torch-applied	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>97 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.	180	2	EverGuard TPO FB Ultra	LRF-M, ribbons 4-inch o.c.	-92.5
LWC-70.	Structural concrete	Matrix 307 Premium Asphalt Primer	Ruberoid HW Smooth, torch-applied	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>97 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.	180	2	EverGuard TPO FB Ultra	LRF-O, ribbons 4-inch o.c.	-112.5
LWC-71.	Structural concrete	Matrix 307 Premium Asphalt Primer	Ruberoid HW Smooth, torch-applied	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>97 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.	180	2	EverGuard TPO FB Ultra	GAF 2-Part (spatter) or OlyBond 500 (spatter)	-102.5
LWC-72.	Structural concrete	Matrix 307 Premium Asphalt Primer	Ruberoid HW Smooth, torch-applied	Pre-existent cellular lightweight insulating concrete; <b>Note:</b> To qualify the LWIC under this assembly, a Drill-Tec™ Base Sheet Fastener (1.7 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.) shall achieve an average withdrawal of <b>146 lbf or greater</b> when tested per ANSI/SPRI FX-1 or TAS105.	540	2	EverGuard TPO FB Ultra	OlyBond 500 (spatter)	-357.5

**TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
<b>EVERGUARD FREEDOM TPO:</b>							
CWF-1.	Min. 2-inch Tectum Plank or Tectum LS Plank	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layers base insulation, flat or tapered	OB500	EverGuard Freedom TPO / self adhered	-45.0
CWF-2.	Min. 2-inch Tectum Plank or Tectum LS Plank or Fibroplank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation, flat or tapered	GAF 2-Part	EverGuard Freedom TPO / self adhered	-52.5
<b>EVERGUARD TPO:</b>							
CWF-3.	Min. 2-inch Tectum Plank or Tectum LS Plank	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layers base insulation, flat or tapered	OB500	EverGuard TPO / #1121, TPO 3-Square, WB181	-45.0
CWF-4.	Min. 2-inch Tectum Plank or Tectum LS Plank or Fibroplank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation, flat or tapered	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square, WB181	-52.5
CWF-5.	Min. 2-inch Tectum I Plank	Min. 2-inch EnergyGuard Polyiso Insulation	OB500, 6-inch o.c. to back-side of insulation	(Optional) Additional layers base insulation, flat or tapered	OB500, 6-inch o.c.	EverGuard TPO / #1121	-120.0
CWF-6.	Min. 2-inch Tectum I Plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RM, EnergyGuard RN or EnergyGuard Ultra	OB500, 6-inch o.c. to back-side of insulation	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, 6-inch o.c.	EverGuard TPO / #1121	-127.5
<b>EVERGUARD TPO FB ULTRA:</b>							
CWF-7.	Min. 2-inch Tectum Plank or Tectum LS Plank	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	(Optional) Additional layers base insulation, flat or tapered	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0
CWF-8.	Min. 2-inch Tectum Plank or Tectum LS Plank	(Optional) Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0
CWF-9.	Min. 2-inch Tectum Plank or Tectum LS Plank	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard RH	LRF-M	(Optional) Additional layers base insulation, flat or tapered	LRF-M	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-45.0
CWF-10.	Min. 2-inch Tectum Plank or Tectum LS Plank	(Optional) Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard RH	LRF-M	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-45.0
CWF-11.	Min. 2-inch Tectum I Plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RM, EnergyGuard RN	OB500, 6-inch o.c. to back-side of insulation	(Optional) Additional layers base insulation, flat or tapered	OB500, 6-inch o.c.	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c. or GAF 2-Part (spatter)	-120.0
CWF-12.	Min. 2-inch Tectum I Plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard RH, EnergyGuard RM, EnergyGuard RN or EnergyGuard Ultra	OB500, 6-inch o.c. to back-side of insulation	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500, 6-inch o.c.	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c. or GAF 2-Part (spatter)	-127.5

**TABLE 5B: CEMENTITIOUS WOOD FIBER DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasteners	Attach		
CWF-13.	Min. 2-inch Tectum Plank or Tectum LS Plank	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard RN or EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates or Drill-Tec LD Fasteners with Drill-Tec LD Plates; Minimum 2-inch fastener embedment.	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
CWF-14.	Min. 2.5-inch Tectum Plank or Tectum LS Plank	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (min. 2-inch embedment)	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
CWF-15.	Min. 3-inch Tectum I Plank	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation or EnergyGuard RH	Drill-Tec Locking Impact Nail (min. 1.8-inch embedment)	1 per 1.33 ft <sup>2</sup>	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-52.5
CWF-16.	Min. 3-inch Tectum I Plank	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation or EnergyGuard RH	Drill-Tec Locking Impact Nail (min. 1.8-inch embedment)	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c. or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5

**TABLE 5C: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Sheet			Roof Cover	MDP (psf)
		Base	Fasteners	Attach		
CWF-17.	Min. 3-inch Tectum I Plank	GAF StormSafe Anchor Sheet	Drill-Tec Twin Loc Tubes (min. 1.8-inch embedment) through Drill-Tec Twin Loc Batten Bar	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at one center row	EverGuard Freedom TPO	-45.0

**TABLE 5D: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck (Note 1)	Primer / Treatment	Roof Cover (Note 16)	MDP (psf)
CWF-18.	Min. 2-inch Tectum I Plank	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter) in accordance with GAF published installation instructions for Tectum applications	-127.5

**TABLE 6A: GYPSUM DECKS - REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
<b>EVERGUARD FREEDOM TPO:</b>							
G-1.	Existing poured gypsum or gypsum plank	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-135.0
G-2.	Existing poured gypsum or gypsum plank	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard Freedom TPO / self adhered	-142.5
G-3.	Existing poured gypsum or gypsum plank	Min. 1-inch EnergyGuard RA	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard Freedom TPO / self adhered	-187.5
G-4.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard Freedom TPO / self adhered	-142.5
G-5.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-257.5
<b>EVERGUARD TPO / EVERGUARD TPO #1121 OR EVERGUARD TPO 3 SQUARE LOW VOC BONDING ADHESIVE:</b>							
G-6.	Existing poured gypsum or gypsum plank	Min. 2-inch, min. 1.0 pcf, ASTM C578 expanded polystyrene	OB500	Min. 0.25-inch Dens Deck or Dens Deck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-120.0
G-7.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1-inch Foamular 250	OB500	Min. 0.25-inch Dens Deck or Dens Deck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-130.0
G-8.	Existing poured gypsum or gypsum plank	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-135.0
G-9.	Existing poured gypsum or gypsum plank	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-270.0
G-10.	Existing poured gypsum or gypsum plank	Min. 1-inch EnergyGuard RA	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-387.5
G-11.	Existing poured gypsum or gypsum plank	Min. 1.5-inch thick, min. 1.25 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-87.5
G-12.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 1.5 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch Dens Deck or Dens Deck Prime	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-130.0
G-13.	Existing poured gypsum or gypsum plank	One or more layers, min. 1.5-inch thick, min. 1.5 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-180.0
G-14.	Existing poured gypsum or gypsum plank	One or more layers, min. 1.5-inch thick, min. 2.0 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-240.0
G-15.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-247.5
G-16.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-257.5
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:</b>							
G-17.	Existing poured gypsum or gypsum plank	Min. 2-inch, min. 1.0 pcf, ASTM C578 expanded polystyrene	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-120.0

**TABLE 6A: GYPSUM DECKS - REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
G-18.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1-inch Foamular 250	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-130.0
G-19.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / WB181	-135.0
G-20.	Existing poured gypsum or gypsum plank	Min. 1-inch EnergyGuard RA	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / WB181	-210.0
G-21.	Existing poured gypsum or gypsum plank	Min. 1.5-inch thick, min. 1.25 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch Dens Deck Prime	GAF 2-Part	EverGuard TPO / WB181	-87.5
G-22.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 1.5 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch Dens Deck Prime	GAF 2-Part	EverGuard TPO / WB181	-130.0
G-23.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-257.5
<b>EVERGUARD TPO / EVERGUARD LOW VOC TPO or EVERGUARD TPO 3 SQUARE LOW VOC BONDING ADHESIVE:</b>							
G-24.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN or EnergyGuard Ultra, min. 2-inch, min. 1.0 pcf, ASTM C578 expanded polystyrene or Min. 1-inch Foamular 250	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
G-25.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN or EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-135.0
G-26.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or min. 1.5-inch thick, min. 1.25 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
G-27.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-257.5
<b>EVERGUARD TPO FB ULTRA:</b>							
G-28.	Existing poured gypsum or gypsum plank	Min. 1-inch EnergyGuard RH	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / LRF-O, 6-inch o.c.	-75.0
G-29.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-257.5



**TABLE 6B: GYPSUM DECKS - REROOF (TEAR-OFF)**
**SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Temp Roof	Base Insulation		Top Insulation		Roof Cover (Note 16)	MDP (psf)
		Type	Fasteners (Note 11)	Attach		Type	Attach	Type	Attach		
G-30.	Existing poured gypsum or gypsum plank	GAFGLAS #75 Base Sheet or Tri-Ply #75 Base Sheet	Drill-Tec Base Sheet Fastener (1.2 in.) or Drill-Tec Base Sheet Fastener E (1.2 in.) (W/D ≥ 105 lbf)	9-inch o.c. in the min. 2-inch laps and 18-inch o.c. in two, equally spaced center rows	Ruberoid 25 Smooth, SBS HW Smooth, Ruberoid Torch Smooth or Tri-Ply APP Smooth	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch Structodek HD Fiberboard Roof Insulation	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*

**TABLE 6C: GYPSUM DECKS - REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach		
<b>EVERGUARD FREEDOM TPO:</b>								
G-31.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	EverGuard Freedom TPO / self adhered	-45.0*
G-32.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	EverGuard Freedom TPO / self adhered	-45.0*
G-33.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard Freedom TPO / self adhered	-45.0*
G-34.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2.9 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard Freedom TPO / self adhered	-45.0*
G-35.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard Freedom TPO / self adhered	-45.0*
G-36.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	EverGuard Freedom TPO / self adhered	-45.0*
G-37.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	EverGuard Freedom TPO / self adhered	-45.0*
G-38.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-45.0*
G-39.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2.9 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-45.0*
G-40.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-45.0*
<b>EVERGUARD TPO:</b>								
G-41.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-42.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*

**TABLE 6C: GYPSUM DECKS - REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach		
G-43.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-44.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2.9 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-45.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-46.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-47.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-48.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-49.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2.9 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-50.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
<b>EVERGUARD TPO FB ULTRA:</b>								
G-51.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-52.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-53.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*

**TABLE 6C: GYPSUM DECKS - REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Fasten (Note 11)	Attach	Type	Attach		
G-54.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2.9 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-55.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-56.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-57.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2.9 ft <sup>2</sup>	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-58.	Existing poured gypsum or gypsum plank	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-59.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2.9 ft <sup>2</sup>	Optional min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-60.	Existing poured gypsum or gypsum plank	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*

**TABLE 6D: GYPSUM DECKS - REROOF (TEAR-OFF)**  
**SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 16)	MDP (psf)
			Type	Fasteners (Note 11)	Attach		
G-61.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard RN or EnergyGuard Ultra	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates or Drill-Tec LD Fasteners with Drill-Tec LD Plates (Minimum 2-inch fastener embedment)	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
G-62.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
G-63.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2.9 ft <sup>2</sup>	EverGuard Freedom TPO / self adhered	-45.0*
G-64.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2 ft <sup>2</sup>	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-65.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2.9 ft <sup>2</sup>	EverGuard TPO / #1121, L-VOC, TPO 3-Square, WB181	-45.0*
G-66.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-67.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH	Drill-Tec Polymer Gyptec with Drill-Tec 3" Gyptec Plates (Min. 2-inch embedment)	1 per 2.9 ft <sup>2</sup>	EverGuard TPO FB Ultra / WB181 or LRF-M or LRF-O, 12-inch o.c.	-45.0*
G-68.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation or EnergyGuard RH	Drill-Tec Locking Impact Nail (minimum withdrawal resistance at slated embedment $\geq$ 140 lbf)	1 per 1.33 ft <sup>2</sup>	EverGuard TPO / #1121, L-VOC, TPO 3-Square	-52.5
G-69.	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination	Min. 2-inch EnergyGuard Polyiso Insulation or EnergyGuard RH	Drill-Tec Locking Impact Nail (minimum withdrawal resistance at slated embedment $\geq$ 140 lbf)	1 per 1.33 ft <sup>2</sup>	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c. or GAF 2-Part (spatter) or OlyBond 500 (spatter)	-52.5

**TABLE 6E: GYPSUM DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Sheet			Roof Cover	MDP (psf)
		Base	Fasteners (Note 11)	Attach		
G-70.	Existing poured gypsum or gypsum plank	GAF StormSafe Anchor Sheet	Drill-Tec Twin Loc Tubes (minimum withdrawal resistance at slated embedment $\geq$ 83 lbf) through Drill-Tec Twin Loc Batten Bar	6-inch o.c. at min. 4-inch lap and 6-inch o.c. at one center row	EverGuard Freedom TPO	-45.0

**TABLE 6F: GYPSUM DECKS - REROOF (TEAR-OFF)  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck (Notes 1 & 12)	Primer / Treatment	Roof Cover (Note 16)	MDP (psf)
G-71.	Existing poured gypsum or gypsum plank	None	EverGuard TPO FB Ultra / WB181	-90.0
G-72.	Existing poured gypsum or gypsum plank	None	EverGuard TPO FB Ultra / GAF 2-Part (spatter)	-95.0
G-73.	Existing poured gypsum or gypsum plank	None	EverGuard TPO FB Ultra / OlyBond 500 (spatter)	-280.0
G-74.	Existing poured gypsum or gypsum plank	SureBond Primer at 0.5 gal/square	EverGuard TPO FB Ultra / GAF 2-Part (spatter)	-327.5

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
<b>EVERGUARD FREEDOM TPO:</b>							
R-1.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	None	N/A	EverGuard Freedom TPO / self adhered	-45.0
R-2.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard Freedom TPO / self adhered	-110.0
R-3.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard Freedom TPO / self adhered	-120.0
R-4.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 6-inch o.c.	(Optional) Additional layer of base insulation	OB500, 6-inch o.c.	EverGuard Freedom TPO / self adhered	-157.5
R-5.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 4-inch o.c.	(Optional) Additional layer of base insulation	OB500, 4-inch o.c.	EverGuard Freedom TPO / self adhered	-200.0
R-6.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard Freedom TPO / self adhered	-97.5
R-7.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-120.0
R-8.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard Freedom TPO / self adhered	-225.0
R-9.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard Freedom TPO / self adhered	-45.0
R-10.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard Freedom TPO / self adhered	-110.0
R-11.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 6-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 6-inch o.c.	EverGuard Freedom TPO / self adhered	-157.5

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-12.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 4-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 4-inch o.c.	EverGuard Freedom TPO / self adhered	-200.0
R-13.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard Freedom TPO / self adhered	-75.0
R-14.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard Freedom TPO / self adhered	-75.0
R-15.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard Freedom TPO / self adhered	-225.0
R-16.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard Freedom TPO / self adhered	-45.0
R-17.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard Freedom TPO / self adhered	-110.0
R-18.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 6-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 6-inch o.c.	EverGuard Freedom TPO / self adhered	-157.5
R-19.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 4-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 4-inch o.c.	EverGuard Freedom TPO / self adhered	-200.0
R-20.	Existing smooth-surface modified bitumen over struct. concrete deck	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-222.5
R-21.	Existing smooth-surface BUR or granule-surface modified bitumen over struct. concrete deck	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	None	N/A	EverGuard Freedom TPO / self adhered	-245.0
R-22.	Existing smooth-surfaced BUR over struct. concrete deck	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-262.5
R-23.	Existing granule-surfaced modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard Freedom TPO / self adhered	-270.0
<b>EVERGUARD TPO IN EVERGUARD TPO #1121 OR EVERGUARD TPO 3 SQUARE LOW VOC BONDING ADHESIVE:</b>							
R-24.	Existing asphalt BUR or mineral surface cap sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Hot Asphalt	(Optional) Min. 0.25-inch Dens Deck Prime or min. 7/16-inch OSB	Hot asphalt	EverGuard TPO / #1121, TPO 3-Square	-45.0



**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-25.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	None	N/A	EverGuard TPO / #1121, TPO 3-Square	-45.0
R-26.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-110.0
R-27.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-120.0
R-28.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 6-inch o.c.	(Optional) Additional layer of base insulation	OB500, 6-inch o.c.	EverGuard TPO / #1121, TPO 3-Square	-157.5
R-29.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 4-inch o.c.	(Optional) Additional layer of base insulation	OB500, 4-inch o.c.	EverGuard TPO / #1121, TPO 3-Square	-200.0
R-30.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-97.5
R-31.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	EverGuard TPO / #1121, TPO 3-Square	-82.5
R-32.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1.5-inch , FM Approved Premier Industries / Insulfoam EPS Board	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / #1121, TPO 3-Square	-45.0
R-33.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN , min. 2-inch, min. 1.0 pcf, ASTM C578 expanded polystyrene or min. 1-inch Foamular 250	OB500	Min. 0.25-inch Dens Deck or Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-120.0
R-34.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	(Optional when using base insulation) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / #1121, TPO 3-Square	-225.0
R-35.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO / #1121, TPO 3-Square	-45.0

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-36.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-110.0
R-37.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 6-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 6-inch o.c.	EverGuard TPO / #1121, TPO 3-Square	-157.5
R-38.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 4-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 4-inch o.c.	EverGuard TPO / #1121, TPO 3-Square	-200.0
R-39.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-75.0
R-40.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-82.5
R-41.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-75.0
R-42.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	LRF-M	(Optional when using base insulation) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / #1121, TPO 3-Square	-225.0
R-43.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-45.0
R-44.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-110.0
R-45.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 6-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 6-inch o.c.	EverGuard TPO / #1121, TPO 3-Square	-157.5
R-46.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 4-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 4-inch o.c.	EverGuard TPO / #1121, TPO 3-Square	-200.0

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-47.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-180.0
R-48.	Existing smooth-surfaced modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-222.5
R-49.	Existing smooth-surface BUR over struct. concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-262.5
R-50.	Existing granule-surface modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-270.0
R-51.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 1.5 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch Dens Deck or Dens Deck Prime	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-130.0
R-52.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	Min. 1.5-inch thick, min. 1.25 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-87.5
R-53.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	One or more layers, min. 1.5-inch thick, min. 1.5 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-180.0
R-54.	Existing smooth-surfaced modified bitumen over struct. concrete deck	(Optional) Min. 2-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or min. 1.5-inch thick, min. 2.0 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-222.5
R-55.	Existing smooth-surface BUR or granule-surface modified bitumen over struct. concrete deck	One or more layers, min. 1.5-inch thick, min. 2.0 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-240.0
R-56.	Existing smooth-surface BUR or granule-surface modified bitumen over struct. concrete deck	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	None	N/A	EverGuard TPO / #1121, TPO 3-Square	-245.0
R-57.	Existing smooth-surface BUR or granule surface modified bitumen over struct. concrete deck	Min. 2-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	GAF 2-Part	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / #1121, TPO 3-Square	-247.5
<b>EVERGUARD TPO / EVERGUARD WB181 BONDING ADHESIVE:</b>							
R-58.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	None	N/A	EverGuard TPO / WB181	-45.0
R-59.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / WB181	-110.0
R-60.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / WB181	-120.0

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-61.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 6-inch o.c.	(Optional) Additional layer of base insulation	OB500, 6-inch o.c.	EverGuard TPO / WB181	-157.5
R-62.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 4-inch o.c.	(Optional) Additional layer of base insulation	OB500, 4-inch o.c.	EverGuard TPO / WB181	-200.0
R-63.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / WB181	-97.5
R-64.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1.5-inch FM Approved Premier Industries / Insulfoam EPS Board	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-45.0
R-65.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN , min. 2-inch, min. 1.0 pcf, ASTM C578 expanded polystyrene or min. 1-inch Foamular 250	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO / WB181	-120.0
R-66.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	(Optional when using base insulation) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / WB181	-225.0
R-67.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO / WB181	-45.0
R-68.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO / WB181	-110.0
R-69.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 6-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 6-inch o.c.	EverGuard TPO / WB181	-157.5
R-70.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 4-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 4-inch o.c.	EverGuard TPO / WB181	-200.0
R-71.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard TPO / WB181	-75.0

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-72.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / WB181	-75.0
R-73.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	LRF-M	(Optional when using base insulation) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / WB181	-225.0
R-74.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard TPO / WB181	-45.0
R-75.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-110.0
R-76.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 6-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 6-inch o.c.	EverGuard TPO / WB181	-157.5
R-77.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO / WB181	-180.0
R-78.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 4-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 4-inch o.c.	EverGuard TPO / WB181	-200.0
R-79.	Existing smooth-surfaced modified bitumen over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-222.5
R-80.	Existing smooth-surface BUR over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-245.0
R-81.	Existing granule-surface modified bitumen over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / WB181	-270.0
R-82.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	Min. 1.5-inch thick, min. 1.25 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / WB181	-87.5
R-83.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN or Min. 1.5-inch thick, min. 1.5 pcf ASTM C578 EPS board	GAF 2-Part	Min. 0.25-inch Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO / WB181	-130.0
<b>EVERGUARD TPO IN EVERGUARD LOW VOC TPO OR EVERGUARD TPO 3 SQUARE LOW VOC BONDING ADHESIVE:</b>							
R-84.	Existing asphalt BUR or mineral surface cap sheet	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN	Hot Asphalt	(Optional) Min. 0.25-inch Dens Deck Prime	Hot asphalt	EverGuard TPO / L-VOC, TPO 3-Square	-45.0

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-85.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	None	N/A	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
R-86.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-110.0
R-87.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard Ultra	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-120.0
R-88.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 6-inch o.c.	(Optional) Additional layer of base insulation	OB500, 6-inch o.c.	EverGuard TPO / L-VOC, TPO 3-Square	-157.5
R-89.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 4-inch o.c.	(Optional) Additional layer of base insulation	OB500, 4-inch o.c.	EverGuard TPO / L-VOC, TPO 3-Square	-200.0
R-90.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	(Optional) 0.5-inch EnergyGuard Polyiso Insulation or min. Min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-97.5
R-91.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over struct. concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-82.5
R-92.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH or EnergyGuard RN, min. 2-inch, min. 1.0 pcf, ASTM C578 expanded polystyrene or Min. 1-inch Foamular 250 or min. 1.5-inch , FM Approved Premier Industries / Insulfoam EPS Board	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
R-93.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	(Optional when using bsae insulation) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO / L-VOC, TPO 3-Square	-225.0
R-94.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
R-95.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-110.0

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-96.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 6-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 6-inch o.c.	EverGuard TPO / L-VOC, TPO 3-Square	-157.5
R-97.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 4-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 4-inch o.c.	EverGuard TPO / L-VOC, TPO 3-Square	-200.0
R-98.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-75.0
R-99.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-82.5
R-100.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-82.5
R-101.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	(Optional) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-75.0
R-102.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	LRF-M	(Optional when using base insulation) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO / L-VOC, TPO 3-Square	-225.0
R-103.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-45.0
R-104.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-110.0
R-105.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 6-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 6-inch o.c.	EverGuard TPO / L-VOC, TPO 3-Square	-157.5
R-106.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-180.0

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-107.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 4-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 4-inch o.c.	EverGuard TPO / L-VOC, TPO 3-Square	-200.0
R-108.	Existing smooth-surface modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-222.5
R-109.	Existing smooth-surface BUR or granule-surface modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-245.0
R-110.	Existing granule-surfaced modified bitumen over struct. concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO / L-VOC, TPO 3-Square	-270.0
<b>EVERGUARD TPO FB ULTRA IN EVERGUARD WB181 BONDING ADHESIVE:</b>							
R-111.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	None	OB500	EverGuard TPO FB Ultra / WB181	-45.0
R-112.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / WB181	-110.0
R-113.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	(Optional) Additional layers base insulation	OB500	EverGuard TPO FB Ultra / WB181	-120.0
R-114.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 6-inch o.c.	(Optional) Additional layer of base insulation	OB500, 6-inch o.c.	EverGuard TPO FB Ultra / WB181	-157.5
R-115.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 4-inch o.c.	(Optional) Additional layer of base insulation	OB500, 4-inch o.c.	EverGuard TPO FB Ultra / WB181	-200.0
R-116.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	OB500	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	OB500	EverGuard TPO FB Ultra / WB181	-97.5
R-117.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) Min. 1.5-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-120.0



**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-118.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	OB500	(Optional when using base insulation) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / WB181	-225.0
R-119.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO FB Ultra / WB181	-45.0
R-120.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO FB Ultra / WB181	-75.0
R-121.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO FB Ultra / WB181	-110.0
R-122.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 6-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 6-inch o.c.	EverGuard TPO FB Ultra / WB181	-157.5
R-123.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 4-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 4-inch o.c.	EverGuard TPO FB Ultra / WB181	-200.0
R-124.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) 0.5-inch EnergyGuard Polyiso Insulation or min. 1.5-inch EnergyGuard RH	LRF-M	Min. 0.5-inch EnergyGuard RH HD Polyiso Insulation, EnergyGuard HD Polyiso Insulation, EnergyGuard HD Plus Polyiso Insulation	LRF-M	EverGuard TPO FB Ultra / WB181	-75.0
R-125.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced SBS or granule-surfaced APP modified bitumen over structural concrete deck	(Optional when using coverboard) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1.5-inch EnergyGuard RH	LRF-M	(Optional when using base insulation) Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / WB181	-225.0
R-126.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-45.0
R-127.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-110.0
R-128.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 6-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 6-inch o.c.	EverGuard TPO FB Ultra / WB181	-157.5

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-129.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO FB Ultra / WB181	-180.0
R-130.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 4-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 4-inch o.c.	EverGuard TPO FB Ultra / WB181	-200.0
<b>EVERGUARD TPO FB ULTRA IN LRF ADHESIVE M OR LRF ADHESIVE O:</b>							
R-131.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
R-132.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	(Optional) Min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
R-133.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	(Optional) Min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 1.5-inch EnergyGuard RH	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0
R-134.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0
R-135.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0
R-136.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	(Optional) Min. 1-inch EnergyGuard RA or ACFoam II	OB500	Min. 1.75-inch ACFoam Composite/GB	OB500	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-37.5
R-137.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-37.5
R-138.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch Dens Deck Prime	OB500	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0
R-139.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-140.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	(Optional) Min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	OB500	Min. 0.25-inch Temple Green Glass Primed Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-37.5
R-141.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	OB500	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-180.0
R-142.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
R-143.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	(Optional) Min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	LRF-M	Min. 1.5-inch EnergyGuard RA, EnergyGuard RN	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
R-144.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	(Optional) Min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	LRF-M	Min. 1.5-inch EnergyGuard RH	LRF-M	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0
R-145.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over struct. concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0
R-146.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0
R-147.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	(Optional) Min. 1-inch EnergyGuard RA or AC Foam II	LRF-M	Min. 1.75-inch AC Foam Composite/GB	LRF-M	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-37.5
R-148.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	LRF-M	Min. 0.25-inch Dens Deck Prime	LRF-M	EverGuard TPO FB Ultra / LRF-M, 12-inch o.c.	-37.5
R-149.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	LRF-M	Min. 0.25-inch Dens Deck Prime	LRF-M	EverGuard TPO FB Ultra / LRF-O, 12-inch o.c.	-45.0
R-150.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra or min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	LRF-M	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
R-151.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	(Optional) Min. 1-inch EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	LRF-M	Min. 0.25-inch Temple Green Glass Primed Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-37.5

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-152.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	LRF-M	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-180.0
R-153.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
R-154.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0
R-155.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-180.0
<b>EVERGUARD TPO FB ULTRA IN SPATTER APPLICATIONS:</b>							
R-156.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	OB500	None	N/A	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
R-157.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500	(Optional) Additional layer of base insulation	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-110.0
R-158.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 6-inch o.c.	(Optional) Additional layer of base insulation	OB500, 6-inch o.c.	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-157.5
R-159.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	OB500, 4-inch o.c.	(Optional) Additional layer of base insulation	OB500, 4-inch o.c.	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-200.0
R-160.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS modified bitumen or granule-surfaced APP modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	OB500	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0
R-161.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	LRF-M	None	N/A	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0

**TABLE 7A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 16)	MDP (psf)
		Type	Attach	Type	Attach		
R-162.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M	(Optional) Additional layer of base insulation	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-110.0
R-163.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 6-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 6-inch o.c.	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-157.5
R-164.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	LRF-M, 4-inch o.c.	(Optional) Additional layer of base insulation	LRF-M, 4-inch o.c.	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-200.0
R-165.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RH, EnergyGuard RN	LRF-M	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	LRF-M	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0
R-166.	Existing smooth- or granule-surfaced BUR or smooth- or granule-surfaced modified bitumen	Min. 1-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra	GAF 2-Part	None	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
R-167.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part	(Optional) Additional layer of base insulation	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-110.0
R-168.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 6-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 6-inch o.c.	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-157.5
R-169.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	(Optional) Additional layers base insulation	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0
R-170.	Existing smooth- or granule-surfaced BUR; smooth- or granule surfaced SBS modified bitumen or gravel-surfaced BUR, brushed/spudded and vacuumed to remove loose gravel, over structural concrete deck	Min. 1.5-inch EnergyGuard Polyiso Insulation	GAF 2-Part, 4-inch o.c.	(Optional) Additional layer of base insulation	GAF 2-Part, 4-inch o.c.	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-200.0
R-171.	Existing smooth- or granule-surfaced BUR; smooth- or granule-surfaced SBS or APP modified bitumen over structural concrete deck	(Optional) Min. 0.5-inch EnergyGuard Polyiso Insulation, EnergyGuard Ultra, EnergyGuard RA, EnergyGuard RH, EnergyGuard RN	GAF 2-Part	Optional additional layers base insulation followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	GAF 2-Part	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-180.0

**TABLE 7B: WOOD OR STEEL - RECOVER  
SYSTEM TYPE C-2: PLATE-BONDED ROOF COVER**

*(All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin.)*

System No.	Substrate (Note 1)	Insulation Layer	Attachment		Roof Cover	MDP (psf)
			Fasteners (Note 11)	Spacing		
R-172.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 60-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Drill-Tec Hex-Head Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Plates are fastened through to purlins	18-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-30.0
R-173.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 60-inch o.c.</b>	One or more layers, any combination, min. 2-inch total thickness, preliminarily fastened	Drill-Tec Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Tread Safe Plates are fastened through to purlins	18-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-30.0
R-174.	Existing min. 15/32-inch plywood atop min. Nominal 2 x 8 inch lumber supports spaced <b>max. 96-inch o.c.</b>	One or more layers, any combination, loose laid	Drill-Tec #14 (min. 1.05-inch embedment) and Drill-Tec RhinoBond TPO XHD Plates are fastened through to wood supports	12-inch o.c. along wood supports	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-30.0
R-175.	Existing min. 15/32-inch plywood atop min. Nominal 2 x 8 inch lumber supports spaced <b>max. 96-inch o.c.</b>	One or more layers, any combination, min. 2-inch total thickness, loose laid	Drill-Tec #14 (min. 1.05-inch embedment) and Drill-Tec RhinoBond TPO XHD Tread Safe Plates are fastened through to wood supports	12-inch o.c. along wood supports	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-30.0
R-176.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 60-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Drill-Tec Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Plates are fastened through to purlins	12-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-37.5
R-177.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 60-inch o.c.</b>	One or more layers, any combination, min. 2-inch total thickness, preliminarily fastened	Drill-Tec Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Tread Safe Plates are fastened through to purlins	12-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-37.5
R-178.	Existing standing seam or lap seam metal roof covers having min. 14 gauge (0.0747 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 60-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Drill-Tec Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Plates are fastened through to purlins	18-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-37.5
R-179.	Existing standing seam or lap seam metal roof covers having min. 14 gauge (0.0747 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 60-inch o.c.</b>	One or more layers, any combination, min. 2-inch total thickness, preliminarily fastened	Drill-Tec Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Tread Safe Plates are fastened through to purlins	18-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-37.5
R-180.	Existing min. 15/32-inch plywood atop min. Nominal 2 x 8 inch lumber supports spaced <b>max. 48-inch o.c.</b>	One or more layers, any combination, loose laid	Drill-Tec #14 (min. 1.05-inch embedment) and Drill-Tec RhinoBond TPO XHD Plates are fastened through to wood supports	24-inch o.c. along wood supports	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-37.5
R-181.	Existing min. 15/32-inch plywood atop min. Nominal 2 x 8 inch lumber supports spaced <b>max. 48-inch o.c.</b>	One or more layers, any combination, min. 2-inch total thickness, loose laid	Drill-Tec #14 (min. 1.05-inch embedment) and Drill-Tec RhinoBond TPO XHD Tread Safe Plates are fastened through to wood supports	24-inch o.c. along wood supports	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-37.5
R-182.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 60-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Drill-Tec Hex-Head Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Plates are fastened through to purlins	12-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0

**TABLE 7B: WOOD OR STEEL - RECOVER  
SYSTEM TYPE C-2: PLATE-BONDED ROOF COVER**

*(All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin.)*

System No.	Substrate (Note 1)	Insulation Layer	Attachment		Roof Cover	MDP (psf)
			Fasteners (Note 11)	Spacing		
R-183.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 60-inch o.c.</b>	One or more layers, any combination, min. 2-inch total thickness, preliminarily fastened	Drill-Tec Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Tread Safe Plates are fastened through to purlins	12-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-45.0
R-184.	Existing standing seam or lap seam metal roof covers having nominal No. 2 wood trusses spaced <b>max. 24-inch o.c.</b>	One or more layers, any combination, preliminarily attached	Drill-Tec #14 (min. 1-inch embedment) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	36-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-52.5
R-185.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 72-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Drill-Tec Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Plates are fastened through to purlins	6-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-67.5
R-186.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 72-inch o.c.</b>	One or more layers, any combination, min. 2-inch total thickness,	Drill-Tec Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Tread Safe Plates are fastened through to purlins	6-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-67.5
R-187.	Existing standing seam or lap seam metal roof covers having nominal No. 2 wood trusses spaced <b>max. 24-inch o.c.</b>	One or more layers, any combination, preliminarily attached	Drill-Tec #14 (min. 1-inch embedment) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	24-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-75.0
R-188.	Existing standing seam or lap seam metal roof covers having nominal No. 2 wood trusses spaced <b>max. 24-inch o.c.</b>	One or more layers, any combination, preliminarily attached	Drill-Tec #14 (min. 1-inch embedment) and Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates through to wood supports	18-inch o.c. along wood supports, 24-inch o.c.	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates or Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-82.5
R-189.	Existing standing seam or lap seam metal roof covers having min. 14 gauge (0.0747 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 72-inch o.c.</b>	One or more layers, any combination, preliminarily fastened	Drill-Tec Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Plates are fastened through to purlins	6-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-97.5
R-190.	Existing standing seam or lap seam metal roof covers having min. 14 gauge (0.0747 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 72-inch o.c.</b>	One or more layers, any combination, min. 2-inch total thickness, preliminarily fastened	Drill-Tec Purlin Fasteners and Drill-Tec RhinoBond TPO XHD Tread Safe Plates are fastened through to purlins	6-inch o.c. along purlins	EverGuard TPO bonded to Drill-Tec RhinoBond TPO XHD Tread Safe Plates with RhinoBond Portable Bonding Tool, per manufacturer's published instructions.	-97.5

**TABLE 7C: STEEL - RECOVER**
**SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER**

(All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin.)

System No.	Deck (Note 1)	Insulation		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners (Note 11)	Attachment	
R-191.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 84-inch o.c.</b>	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec Purlin Fasteners and Drill-Tec Eyehook AccuSeam Plates or Eyehook Reel-Fast Plates	12-inch o.c. within min. 6-inch wide laps spaced max. 84-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-30.0
R-192.	Existing standing seam or lap seam metal roof covers having min. 14 gauge (0.0747 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 84-inch o.c.</b>	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec Purlin Fasteners and Drill-Tec 2 in. Double Barbed XHD Plates	12-inch o.c. within min. 6-inch wide laps spaced max. 84-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-30.0
R-193.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 114-inch o.c.</b>	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec Hex Head Purlin Fasteners and Drill-Tec 2 in. Double Barbed XHD Plates, Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates	12-inch o.c. in rows spaced max. 114-inch o.c. to engage steel purlin. An 8-inch wide cover strip is heat welded over the stress plates.	-30.0
R-194.	Existing standing seam or lap seam metal roof covers having min. 14 gauge (0.0747 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 84-inch o.c.</b>	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec Purlin Fasteners and Drill-Tec 2-3/8 in. Barbed XHD Plates	12-inch o.c. within min. 6-inch wide laps spaced max. 84-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-37.5
R-195.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 120-inch o.c.</b>	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec Hex Head Purlin Fasteners and Drill-Tec 2 in. Double Barbed XHD Plates, Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates	6-inch o.c. in rows spaced max. 120-inch o.c. to engage steel purlin. An 8-inch wide cover strip is heat welded over the stress plates.	-45.0
R-196.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 84-inch o.c.</b>	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec Purlin Fasteners and Drill-Tec 2 in. Double Barbed XHD Plates, Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates or Eyehook Reel-Fast Plates	6-inch o.c. within min. 6-inch wide laps spaced max. 84-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-52.5
R-197.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 114-inch o.c.</b>	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec Hex Head Purlin Fasteners and Drill-Tec 2 in. Double Barbed XHD Plates, Drill-Tec 2-3/8 in. Barbed XHD Plates, Drill-Tec Eyehook AccuSeam Plates	6-inch o.c. in rows spaced max. 114-inch o.c. to engage steel purlin. An 8-inch wide cover strip is heat welded over the stress plates.	-52.5
R-198.	Existing standing seam or lap seam metal roof covers having min. 14 gauge (0.0747 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced <b>max. 84-inch o.c.</b>	One or more layers, any combination	Prelim. attached	EverGuard TPO	Drill-Tec Purlin Fasteners and Drill-Tec 2-3/4 in. Barbed SXHD Plates	6-inch o.c. within min. 6-inch wide laps spaced max. 84-inch o.c. to engage steel purlin. Laps sealed with 1.5-inch heat weld.	-60.0



**TABLE 7D: RECOVER APPLICATIONS  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Roof Cover (Note 16)	MDP (psf)
R-199.	Existing asphaltic granule surfaced roof cover over wood, CWF or gypsum deck	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-45.0
R-200.	Existing asphaltic granule surfaced roof cover over steel deck	EverGuard TPO FB Ultra / LRF-M or LRF-O, 12-inch o.c.	-60.0
R-201.	Existing smooth or granule surfaced SBS modified bitumen or existing smooth or granule surfaced APP modified bitumen over steel deck	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-60.0
R-202.	Existing asphaltic granule surfaced cap sheet	EverGuard TPO FB Ultra / LRF-M, 6-inch o.c.	-67.5
R-203.	Existing granule surfaced BUR or granule surfaced SBS or APP modified bitumen over steel deck	EverGuard TPO FB Ultra / LRF-M, 4-inch o.c.	-105.0
R-204.	Existing granule surfaced BUR or granule surfaced SBS or APP modified bitumen over steel deck	EverGuard TPO FB Ultra / LRF-O, 4-inch o.c.	-120.0
R-205.	Existing smooth or granule surfaced SBS modified bitumen or existing smooth or granule surfaced APP modified bitumen over structural concrete deck	EverGuard TPO FB Ultra / LRF-M or LRF-O, 4-inch o.c.	-337.5
R-206.	Existing asphaltic granule surfaced roof cover over structural concrete deck	EverGuard TPO FB Ultra / LRF-O, 4-inch o.c. (for full coverage)	-415.0
R-207.	Existing asphaltic granule surfaced roof cover over structural concrete deck	EverGuard TPO FB Ultra / LRF-M, 4-inch o.c. (for full coverage)	-492.5
R-208.	Existing asphaltic granule surfaced roof cover over wood, CWF or gypsum deck	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-45.0
R-209.	Existing smooth surfaced SBS modified bitumen over steel deck	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-60.0
R-210.	Existing granule surfaced BUR or granule surfaced SBS or APP modified bitumen over steel deck	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-120.0
R-211.	Existing smooth or granule surfaced SBS modified bitumen or existing granule surfaced APP modified bitumen over structural concrete deck	EverGuard TPO FB Ultra / GAF 2-Part (spatter) or OlyBond 500 (spatter)	-337.5
R-212.	Existing asphaltic granule surfaced roof cover over structural concrete deck	EverGuard TPO FB Ultra / GAF 2-Part (spatter)	-497.5
R-213.	Existing asphaltic granule surfaced roof cover over structural concrete deck	EverGuard TPO FB Ultra / Hot Asphalt	-405.0