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

ENGINEER | EVALUATE | TEST | CONSULT

EVALUATION REPORT BY FLORIDA P.E.

CertainTeed, LLC
20 Moores Road
Malvern, PA 19355
(610) 893-5400

Evaluation Report 3520.03.04-R29
FL2533-R28
Date of Issuance: 09/19/2005
Revision 29: 04/14/2022

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 **7th Edition (2020) Florida Building Code** sections noted herein.

DESCRIPTION: Flintlastic® Modified Bitumen Roof Systems for use in FBC non-HVHZ jurisdictions

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 or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our Evaluation Reports by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of its Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Florida Product Approval Number (FL#) preceded by the words "NEMO P.E. 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 5, plus a 70-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 04/14/2022. 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, LLC 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.

© 2019 NEMO ETC, LLC

ROOFING SYSTEMS EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Modified Bitumen Roof Systems
Product Approval Method: Method 1, Option D – Codified Material, Evaluation by Engineer
Compliance Statement: **Flintlastic® Modified Bitumen Roof Systems**, as produced by **CertainTeed, LLC**, have demonstrated compliance with the following sections of the **7th Edition (2020) 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:

SECTION	PROPERTY	STANDARD	YEAR
1504.3.1	Wind resistance	FM 4474	2011
1504.6	Accelerated weathering	ASTM G155	2013
1504.7	Impact resistance	FM 4470	2016
1507.1.1	Material standard	ASTM D1970	2015
1507.10.2	Material standard	ASTM D41	2011
1507.10.2	Material standard	ASTM D2178	2015
1507.10.2	Material standard	ASTM D4601	2012
1507.10.2	Material standard	ASTM D4897	2009
1507.11.2	Material standard	ASTM D6163	2015
1507.11.2	Material standard	ASTM D6164	2011
1507.11.2	Material standard	ASTM D6222	2011
1507.11.2	Material standard	ASTM D6509	2015

3. REFERENCES:

ENTITY	EXAMINATION	REFERENCE	DATE	ENTITY	EXAMINATION	REFERENCE	DATE
ERD (TST6049)	ASTM G155	C31410.06.10-2-R1	01-10-11	FM (TST1867)	FM 4470	0E3A2.AM	03-30-82
ERD (TST6049)	ASTM G155	C31410.12.13	12-05-13	FM (TST1867)	FM 4470	3W0A4.AM	03-16-93
ERD (TST6049)	ASTM D6222	CTR-SC11145.09.16-7A	09-19-16	FM (TST1867)	FM 4470	3W0A2.AM	03-17-93
ERD (TST6049)	ASTM D1970	CTR-SC11145.10.16	10-31-16	FM (TST1867)	FM 4470	3W0A3.AM	03-17-93
NEMO (TST6049)	ASTM D4601	4q-CTR-20-SSMBB-03.A	02-10-21	FM (TST1867)	FM 4470	1Z4A6.AM	09-11-96
NEMO (TST6049)	ASTM D4897	4q-CTR-21-SSMBB-03.A	10-05-21	FM (TST1867)	FM 4470	3Y8A1.AM	09-30-96
NEMO (TST6049)	ASTM D6222, G155	4q-CTR-21-SSMBB-04.E	03-08-22	FM (TST1867)	FM 4470	2D5A9.AM	06-22-99
NEMO CERT (CER13842)	Various	Various	04-15-22	FM (TST1867)	FM 4470	3009502	12-12-00
PRI (TST5878)	ASTM D6164, G155	CTC-093-02-01	08-08-11	FM (TST1867)	FM 4470	3008869	03-19-01
PRI (TST5878)	ASTM D6222, G155	CTC-071-02-01	08-08-11	FM (TST1867)	FM 4470	3009610	10-15-01
PRI (TST5878)	ASTM D4601	CTC-124-02-01	03-12-12	FM (TST1867)	FM 4470	3006025	12-28-01
PRI (TST5878)	ASTM D6509	CTC-116-02-01	04-04-12	FM (TST1867)	FM 4470	3012321	07-29-02
PRI (TST5878)	ASTM D6164	CTC-131-02-01	06-08-12	FM (TST1867)	FM 4470	3009814	09-06-02
PRI (TST5878)	ASTM D6164, G155	CTC-161-02-01	05-09-13	FM (TST1867)	FM 4470	3014502	04-04-03
PRI (TST5878)	ASTM D6164	CTC-190-02-01	11-27-13	FM (TST1867)	FM 4470	3015444	07-11-03
PRI (TST5878)	ASTM D6164	CTC-354-02-01	05-11-18	FM (TST1867)	FM 4470	3014692	08-05-03
PRI (TST5878)	ASTM D41	256T0074	11-11-21	FM (TST1867)	FM 4470	3014751	08-27-03
ERD (TST6049)	FM 4470	3504.06.01-1	06-05-01	FM (TST1867)	FM 4470	3018579	10-09-03
ERD (TST6049)	FM 4470	3513.08.02	08-15-02	FM (TST1867)	FM 4470/4474	3020703	07-30-04
ERD (TST6049)	FM 4470	03515.07.03	07-22-03	FM (TST1867)	FM 4470/4474	3021759	06-03-05
ERD (TST6049)	FM 4470	3519.12.03	12-22-03	FM (TST1867)	FM 4470/4474	3022038	04-05-06
ERD (TST6049)	FM 4470/4474	3522.07.04	07-28-04	FM (TST1867)	FM 4470/4474	3023458	07-18-06
ERD (TST6049)	FM 4470/4474	02843.02.05-11	02-10-05	FM (TST1867)	FM 4470/4474	3026128	08-04-06
ERD (TST6049)	FM 4470/4474	3533.01.06	01-06-06	FM (TST1867)	FM 4470/4474	3024311	11-01-06
ERD (TST6049)	FM 4470/4474	4674.11.01-1	03-21-06	FM (TST1867)	FM 4470/4474	3025766	11-13-06
ERD (TST6049)	FM 4470/4474	3521.07.04-R1	10-26-07	FM (TST1867)	FM 4470/4474	3028410	02-19-07
ERD (TST6049)	FM 4470/4474	02762.03.05-R1	12-10-07	FM (TST1867)	FM 4470/4474	3026964	07-25-07
ERD (TST6049)	FM 4470/4474	02764.09.05-R1	12-10-07	FM (TST1867)	FM 4470/4474	3031262	11-30-07
ERD (TST6049)	FM 4470/4474	P6860.06.07-R1	09-10-09	FM (TST1867)	FM 4470/4474	3031199	12-23-08
ERD (TST6049)	FM 4470/4474	C8370.08.08-R1	10-05-09	FM (TST1867)	FM 4470/4474	3032172	06-12-09
ERD (TST6049)	FM 4470/4474	C30310.12.09	12-17-09	FM (TST1867)	FM 4470/4474	3037127	01-11-10
ERD (TST6049)	FM 4470/4474	C30560.03.10	03-18-10	FM (TST1867)	FM 4470/4474	3039848	12-02-11
ERD (TST6049)	FM 4470/4474	C31420.08.10	09-21-10	FM (TST1867)	FM 4470/4474	3046104	08-13-13
ERD (TST6049)	FM 4470/4474	C33980.12.10	12-22-10	FM (TST1867)	FM 4470/4474	3048520	09-19-13

Entity	Examination	Reference	Date	Entity	Examination	Reference	Date
ERD (TST6049)	FM 4470/4474	C33830.02.11	02-08-11	FM (TST1867)	FM 4470/4474	3055491	12-05-16
ERD (TST6049)	Criticality	C35500.02.11	02-09-11	FM (TST1867)	FM 4470/4474	3063970	09-14-18
ERD (TST6049)	FM 4470/4474	C37820.07.12	07-24-12	FM (TST1867)	FM 4470/4474	3061328	04-13-20
ERD (TST6049)	FM 4470/4474	C37830.07.12	07-26-12	FM (TST1867)	FM 4470/4474	PR458318	04-12-21
ERD (TST6049)	Criticality	C42110.08.12	08-13-12	FM (TST1867)	FM 4470	RR228436	06-01-21
ERD (TST6049)	FM 4470/4474	C39670.08.12	08-20-12	NEMO	Traceability	FBC Cross-Listing	07-02-21
ERD (TST6049)	FM 4470/4474	C42280.08.12	08-20-12	NEMO (TST11294)	FM 4474	2L-CTR-18-001.04.19.A	06-24-19
ERD (TST6049)	Criticality	A35880.04.12-R1	10-26-12	NEMO (TST6049)	FM 4474	4L-CTR-18-002.09.18-1	09-21-18
ERD (TST6049)	FM 4470/4474	C44580.07.13	07-25-13	NEMO (TST6049)	FM 4474	4L-CTR-18-002.09.18-2	09-21-18
ERD (TST6049)	FM 4470/4474	C46090.11.13-A	11-20-13	NEMO (TST6049)	FM 4474	4L-CTR-18-002.10.18	10-22-18
ERD (TST6049)	FM 4470/4474	C45620.03.14	03-27-14	NEMO (TST6049)	FM 4474	4L-CTR-18-002.03.19A	03-07-19
ERD (TST6049)	FM 4470/4474	C46760.06.14	06-19-14	NEMO (TST6049)	FM 4474	4L-CTR-18-002.04.19B	04-12-19
ERD (TST6049)	FM 4470/4474	C47320.03.14-R1	04-01-15	NEMO (TST6049)	FM 4474	4a-CTR-19-LSWUS-04.A	08-05-19
ERD (TST6049)	FM 4470/4474	CTR-SC8995.10.15	10-14-15	NEMO (TST6049)	FM 4474	4a-CTR-19-LSWUS-03.B	01-27-20
ERD (TST6049)	FM 4470/4474	CTR-SC9935.01.16	01-14-16	NEMO (TST6049)	FM 4474	4a-CTR-19-LSWUS-05.A	02-05-20
ERD (TST6049)	FM 4470	CTR-SC9920.01.16	01-20-16	NEMO (TST6049)	FM 4474	4a-CTR-19-LSWUS-02.A	02-28-20
ERD (TST6049)	FM 4470/4474	CTR-SC10420.01.16	01-25-16	NEMO (TST6049)	Criticality	4p-ICP-19-SSLAP-04.A	05-28-20
ERD (TST6049)	FM 4470/4474	CTR-SC11590.08.16	09-06-16	NEMO (TST6049)	FM 4474	4a-CTR-20-LSWUS-01.B	06-26-20
ERD (TST6049)	FM 4470/4474	CTR-SC9175.09.16-1	09-06-16	NEMO (TST6049)	Criticality	4i-CTR-20-SSCRT-04.A	06-16-21
ERD (TST6049)	FM 4470/4474	CTR-SC9175.09.16-1	09-06-16	NEMO (TST6049)	Criticality	4i-CTR-21-SSCRT-02.A	06-21-21
ERD (TST6049)	FM 4470/4474	CTR-SC12255.12.16	12-27-16	NEMO (TST6049)	Criticality	4i-CTR-21-SSCRT-03.A	07-06-21
ERD (TST6049)	Criticality	ICP-SC15630.09.17	09-06-17	NEMO (TST6049)	Criticality	4i-CTR-21-SSCRT-01.A	07-12-21
ERD (TST6049)	Criticality	ICP-SC16225.09.17	09-06-17	NEMO (TST6049)	FM 4474	4a-CTR-21-LSWUS-01	11-29-21
ERD (TST6049)	FM 4474	CTR-SC15775.17	09-13-17	NEMO (TST6049)	Criticality	4i-CRT-21-SSCRT-04.A	01-04-22
				PRI (TST5878)	FM 4474	2111T0009	05-13-21

4. Product Description:

This Evaluation Report covers **Flintlastic® Modified Bitumen Roof Systems** installed in accordance with **CertainTeed, LLC** published installation instructions and the Limitations / Conditions of Use herein.

Table 1: Evaluated Membranes

Type	Product	Material Standard			Plant(s)
		Reference	Type	Grade	
Base Sheets	Flintlastic® SA NailBase	ASTM D4601	II	N/A	Little Rock, AR[1]
	Glasbase™ Base Sheet	ASTM D4601	II	N/A	Pryor, OK Little Rock, AR
	All Weather/Empire™ Base Sheet	ASTM D4601	II	N/A	Little Rock, AR[1]
	Flintlastic® Base 20	ASTM D4601	II	N/A	Little Rock, AR[1]
	Flintlastic® Poly SMS Base Sheet	ASTM D4601 *(except glass mat is N/A)*	II	N/A	Little Rock, AR[1]
	Flintglas® MS Cap (inverted)	ASTM D4897	II	N/A	Little Rock, AR
Ply Sheets	Flintglas® Ply 4	ASTM D2178	IV	N/A	Pryor, OK[1]
Base/Ply Membranes (APP)	Flintlastic® APP Base T	ASTM D6509	N/A	N/A	Little Rock, AR
	Flintlastic® STA	ASTM D6222	I	S	Little Rock, AR
	Flintlastic® STA Plus	ASTM D6222	I	S	Little Rock, AR
Cap Membranes (APP)	Flintlastic® STA	ASTM D6222	I	S	Little Rock, AR
	Flintlastic® STA Plus	ASTM D6222	I	S	Little Rock, AR
	Flintlastic® GTA	ASTM D6222	I	G	Little Rock, AR[1]
	Flintlastic® GTA CoolStar®	ASTM D6222	I	G	Little Rock, AR
	Flintlastic® GTA-FR	ASTM D6222	I	G	Little Rock, AR[1]
	Flintlastic® GTA-FR CoolStar®	ASTM D6222	I	G	Little Rock, AR

TABLE 1 (CONTINUED): EVALUATED MEMBRANES					
TYPE	PRODUCT	MATERIAL STANDARD			PLANT(S)
		REFERENCE	TYPE	GRADE	
Base/Ply Membranes (SBS)	Black Diamond® Base Sheet	ASTM D1970	N/A	N/A	Shakopee, MN
	Flintlastic® SA PlyBase	ASTM D1970	N/A	N/A	Little Rock, AR
	Flintlastic® SA Mid Ply	ASTM D6163	I	S	Little Rock, AR[1]
	Flintlastic® Ultra Glass SA	ASTM D6163	I	S	Little Rock, AR[1]
	Flintlastic® Base 20	ASTM D6163	I	S	Little Rock, AR[1]
	Flintlastic® Base 20 T	ASTM D6163	I	S	Little Rock, AR[1]
	Flintlastic® Ultra Poly SMS Base Sheet	ASTM D6164	I	S	Little Rock, AR
Cap Membranes (SBS)	Flintlastic® SA Cap FR	ASTM D6163	I	G	Little Rock, AR[1]
	Flintlastic® SA Cap FR CoolStar®	ASTM D6163	I	G	Little Rock, AR
	Flintlastic® SA Cap	ASTM D6164	I	G	Little Rock, AR
	Flintlastic® SA Cap CoolStar®	ASTM D6164	I	G	Little Rock, AR
	Flintlastic® FR-P	ASTM D6164	I	G	Little Rock, AR
	Flintlastic® FR-P CoolStar®	ASTM D6164	I	G	Little Rock, AR
	Flintlastic® GMS	ASTM D6164	I	G	Little Rock, AR
	Flintlastic® Premium FR-P	ASTM D6164	II	G	Little Rock, AR
	Flintlastic® Premium FR-P CoolStar®	ASTM D6164	II	G	Little Rock, AR

[1] Indicates membrane/plant combination is Certified by ISO/IEC 17065 Certification Entity; NEMO|cert. to the noted standard. Refer to www.nemocert.com for details.

5. LIMITATIONS:

5.1 This is a Building Code Evaluation. Neither NEMO ETC, LLC 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 FBC High Velocity Hurricane Zone jurisdictions (i.e., Broward and Miami-Dade Counties).

5.3 This Evaluation Report 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.

5.4 This Evaluation Report does not include evaluation of fire classification. Refer to **FBC 1505** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.

5.5 This Evaluation Report does not include evaluation of roof edge termination. Refer to **FBC 1504.5** for requirements and limitations regarding edge securement for low-slope roofs.

5.6 Refer to **FBC 1511** for requirements and limitations regarding recover installations.

5.6.1 For mechanically attached components 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 shall be in accordance with **ANSI/SPRI FX-1** or **Testing Application Standard TAS 105**.

5.6.2 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.

5.6.3 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**.

5.7 Refer to Appendix 1 for system attachment requirements for wind load resistance.

5.7.1 "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.

5.7.2 For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with **FBC Chapter 16**. Elevated pressure zones 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 (February 2020)** for Zone 2/3 enhancements.

5.7.3 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.

5.8 All components in the roof assembly shall have quality assurance audit in accordance with **F.A.C. Rule 61G20-3**. Refer to the Product Approval of the component manufacturer for components listed in Appendix 1 that are produced by a Product Manufacturer other than the report holder on Page 1 of this Evaluation Report.

6. INSTALLATION:

Flintlastic® Modified Bitumen Roof Systems shall be installed in accordance with **CertainTeed, LLC** published installation instructions, subject to the Limitations / Conditions of Use herein.

7. BUILDING PERMIT REQUIREMENTS:

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

8. MANUFACTURING PLANTS:

Contact the named QA entity for manufacturing facilities covered by **F.A.C. Rule 61G20-3** QA requirements. Refer to Section 4 herein for products and production locations having met codified material standards.

9. QUALITY ASSURANCE ENTITY:

UL, LLC – QUA9625: (360) 817-5512; bsai.inspections@ul.com

- THE 70-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	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	7-8
1C	Wood	New, Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	9
1D	Wood	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	9-11
1E	Wood	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	11-13
1F	Wood	New, Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	13-16
1G	Wood	New, Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	16-18
1H	Wood	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	18
2A	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	19-21
2B	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	22-25
2C	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	26-28
3A	Structural concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	29-37
3B	Structural concrete	New or Reroof (Tear-Off)	A-3	Bonded Temp Roof/Vapor Barrier, Bonded Insulation, Bonded Roof Cover	37
3C	Structural concrete	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	38
4A	LWIC / steel	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	39-40
4B	LWIC / structural concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	41-45
4C	LWIC / structural concrete	New, Reroof (Tear-Off)	A-1	Bonded Vapor Barrier, Bonded Insulation, Bonded Roof Cover	46-47
4D	LWIC / steel	New or Reroof (Tear-Off)	A-2	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	48-50
4E	LWIC / steel or struct. conc.	New or Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	51-55
4F	LWIC / steel	Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	56
4G	LWIC / steel	Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	56
5A	Cementitious wood fiber	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	57-58
5B	Cementitious wood fiber	New or Reroof (Tear-Off) or Recover	A-2	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	59
5C	Cementitious wood fiber	Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	60
5D	Cementitious wood fiber	New, Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	60
6A	Existing gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	61-62
6B	Existing gypsum	Reroof (Tear-Off)	A-2	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	63
6C	Existing gypsum	Reroof (Tear-Off)	C-1	Mechanically Attached Insulation, Bonded Roof Cover	64
6D	Existing gypsum	Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	64
7A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	65-70
7B	Various	Recover	F	Non-Insulated, Bonded Roof Cover	70

©2019 NEMO ETC, LLC

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.

2 Unless otherwise noted, fasteners and stress plates shall be as follows. Fasteners shall be of sufficient length for the following engagements:

FASTENER/PLATE OPTIONS				
DECK TYPE	BY	FBC FILE	PARTS	MINIMUM ENGAGEMENT
Wood	Altenloh, Brinck and Co. U.S., Inc.	FL4500	Trufast #14 HD with Trufast 3" Metal Insulation Plates	Minimum ¾-inch plywood penetration or minimum 1-inch wood plank embedment
	OMG, Inc.	FL699	OMG #14 Roofgrip with AccuTrac Plates or OMG #14 Heavy Duty with OMG 3 in. Galvalume Steel Plate	
	SFS Group USA, Inc.	FL20311	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8 or Dekfast PLT-R-3.	
Steel	Altenloh, Brinck and Co. U.S., Inc.	FL4500	Trufast #12 DP or Trufast #14 HD with Trufast 3" Metal Insulation Plates	Minimum ¾-inch steel penetration and engage the top flute of the steel deck
	OMG, Inc.	FL699	OMG #12 or #14 Roofgrip with AccuTrac Plates or OMG #12 Standard or OMG #14 Heavy Duty with OMG 3 in. Galvalume Steel Plate	
	SFS Group USA, Inc.	FL20311	Dekfast DF-#12-PH3 or DF-#14-PH3 with Dekfast PLT-H-2-7/8 or Dekfast PLT-R-3.	
Structural Concrete	Altenloh, Brinck and Co. U.S., Inc.	FL4500	Trufast #14 HD or Trufast Fluted Concrete Nail with Trufast 3" Metal Insulation Plates	Minimum 1-inch embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions
	OMG, Inc.	FL699	OMG #14 Roofgrip with AccuTrac Plates or OMG #14 Heavy Duty or CD-10 with OMG 3 in. Galvalume Steel Plate	
	SFS Group USA, Inc.	FL20311	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8 or Dekfast PLT-R-3.	

3 Unless otherwise noted, insulation may be any one layer or combination of FBC Approved (Local or Statewide) board(s) that meet FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover.

4 Minimum 200 psi, minimum 2-inch FBC Approved lightweight insulating concrete may be substituted for, or installed below, rigid insulation board for System Types B-1, C-1, C-2, D-1 or D-2, whereby fasteners are installed through the lightweight insulating concrete to engage the structural deck. The structural deck shall be of equal or greater type, thickness and strength to the steel and structural concrete deck listings. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. 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 Lightweight Concrete 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 (February 2020).

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.
When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, board joints shall be staggered.
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.

INSULATION ADHESIVE REFERENCES					
BY	FBC FILE	ADHESIVE	REFERENCE	MINIMUM RATE	NOTE
DuPont de Nemours, Inc.	FL720	Insta Stik Quik Set	Insta Stick	Continuous 0.75 to 1 inch wide ribbons, 12-inch o.c	
H.B. Fuller Company	FL1800	Millennium One Step Foamable Adhesive	M-OSFA	Continuous 0.25 to 0.5-inch wide ribbons, 12-inch o.c.	
H.B. Fuller Company	FL1800	Millennium PG-1 Pump Grade Adhesive	M-PG1	Continuous 0.5 to 0.75-inch wide ribbons, 12-inch o.c.	
ICP Construction, Inc.	FL22256	Polyset Board-Max	Polyset BM	Continuous 3-inch wide ribbons, 12-inch o.c.	
ICP Construction, Inc.	FL1365	Polyset Commercial Roofing Adhesive	Polyset CRA	Continuous 2.5 to 3-inch wide ribbons, 12-inch o.c.	*Formerly Polyset CR-20*
OMG, Inc.	FL1608	OlyBond 500 Adhesive Fastener	OB500	Continuous 0.75-inch wide ribbons, 12-inch o.c.	*PaceCart, SpotShot or Canister dispensing*
Generic, ASTM D312, Type IV	N/A	hot asphalt	N/A	Full coverage at 25-30 lbs/square	*If applying hot asphalt to concrete deck, deck shall be primed with ASTM D41 primer*

©2019 NEMO ETC, LLC

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.

MDP Limitations for Tapered Polyisocyanurate Insulations

Adhesive	Insulation		Min. Tapered Thickness (in)	MDP (psf)
	Listed Product	FBC File		
Insta Stik	Any polyisocyanurate listed with adhesive herein	Various	1.0	-120.0
M-OSFA	Any polyisocyanurate listed with adhesive herein	Various	1.0	-157.5
M-PG1	Any polyisocyanurate listed with adhesive herein	Various	1.0	-157.5
Polyset CRA	Any polyisocyanurate listed with adhesive herein	Various	1.0	-117.5
OB500	Rmax Multi-Max FA3	FL11207	0.5	-45.0
OB500	Hunter H-Shield	FL5968	0.5	-315.0
OB500	Johns Manville ENRGY 3	FL4205	0.5	-315.0
OB500	Atlas Roofing ACFoam II	FL17989	0.5	-487.5

8 For adhered roof insulation and board-size: Unless otherwise noted, refer to Section 2.2.10.6.2 of FM Loss Prevention Data Sheet 1-29 (February 2020).

9 For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with FBC Chapter 16. Elevated pressure zones 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 (February 2020) for Zone 2/3 enhancements.

10 For assemblies with all components fully bonded, 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.

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 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 shall be conducted on mock-ups of the proposed new roof assembly. 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. Field uplift testing shall be in accordance with ASTM E907, FM Loss Prevention Data Sheet 1-52 or Testing Application Standard TAS 124.

13 Refer to FBC 1511 for requirements and limitations regarding recover installations. For Structural Concrete Deck or Recover Applications using System Type C-1 the base insulation layer is optional and for System Type C-2, D-1 or D-2, the insulation is optional. Alternatively, an FBC Approved insulation board or coverboard may be used as a separation layer. Board products shall be preliminarily attached prior to roof cover installation (Note 5 herein). The separator component shall be documented as meeting FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover in Recover applications.

14 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" LWIC 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). 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.

©2019 NEMO ETC, LLC

15 For bonded membrane applications, unless otherwise noted, refer to the following.

Membrane / Adhesive Combinations			
Reference	**Layer**	**Material**	**Application**
SBS-CA1	Base Ply:	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	Karnak No. 81 Cold Process Modified Bitumen Adhesive Brush Grade at 1 gal/square
	Note:	Base ply cures overnight prior to application of the ply or cap ply.	
	Ply:	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	
	Cap Ply:	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic GMS	
BP-CA2	Base Ply:	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flintlastic Base 20	Henry #903 Adhesive at 1.5 gal/square.
SBS-CA2	Base Ply:	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	
	Ply:	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	
	Cap Ply:	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic GMS	
BP-CA3	Base Ply:	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flintlastic Base 20	HB Fuller “Millennium Hurricane Force Membrane Adhesive”, beads spaced 6-inch o.c.
SBS-CA3	Base Ply:	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	
	Ply:	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	
	Cap Ply:	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic GMS	
SBS-CA4	Base Ply:	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	FlintBond Brush or Tropical Roofing Products #216 Modified Bitumen Adhesive at 1 to 1.5 gal/square.
	Note:	Base ply cures overnight prior to application of the ply or cap ply.	
	Ply:	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	
	Cap Ply:	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic GMS	
BP-AA	Base Ply:	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flintlastic Base 20	hot asphalt at 20-40 lbs/square
	Ply:	One or more Flintglas Ply 4	
BP-AA2	Base Ply:	Flintglas MS Cap (inverted)	hot asphalt in 24-inch diameter spots in 30-inch grid pattern
BP-AA3	Base Ply:	Flintglas MS Cap (inverted)	hot asphalt in 9-inch diameter spots in grid pattern noted herein.
BP-AA4	Base Ply:	Flintglas MS Cap (inverted)	hot asphalt in 9-inch wide ribbons spaced as noted herein.
SBS-AA	Base Ply:	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	hot asphalt at 20-40 lbs/square
	Ply:	One or more Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	
	Cap Ply:	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic GMS	
SBS-TA	Base Ply:	Flintlastic Ultra Poly SMS Base Sheet, Flintlastic Base 20 T	torch-applied
	Ply:	One or more Flintlastic Ultra Poly SMS Base Sheet, Flintlastic Base 20 T	
APP-TA	Base Ply:	One or more Flintlastic APP Base T, Flintlastic STA, Flintlastic STA Plus	torch-applied
	Cap Ply:	Flintlastic STA, Flintlastic STA Plus, Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR, Flintlastic GTA-FR CoolStar	
SBS-SA-H	Base Ply:	Black Diamond Base Sheet, Flintlastic Ultra Glass SA	self-adhering (activated by overlying membrane)
SBS-SA	Base Ply:	Flintlastic SA PlyBase, Flintlastic SA Mid Ply	self-adhering
	Ply:	Flintlastic SA PlyBase, Flintlastic SA Mid Ply	
	Cap Ply:	Flintlastic SA Cap, Flintlastic SA Cap CoolStar, Flintlastic SA Cap FR, Flintlastic SA Cap FR CoolStar	

©2019 NEMO ETC, LLC

16 Vapor barrier options for use over **structural concrete deck** followed by bonded insulation carry the following MDP limitations. The lesser of the MDP listings below vs. that for the selected assembly from **TABLE 3A** applies.

VAPOR BARRIER OPTIONS, STRUCTURAL CONCRETE DECK, ADHERED INSULATION					
OPTION #	PRIMER	VAPOR BARRIER		INSULATION ADHESIVE PER TABLE 3A	MDP (PSF)
		TYPE	ATTACH		
C-VB-1.	FlintPrime QD	Flintlastic SA PlyBase	Self-adhering	OB500, 12-inch o.c.	-82.5
C-VB-2.	None	All Weather/Empire Base Sheet, 3-inch wide side laps and 6-inch wide end laps are sealed with HB Fuller "HB Fuller "Millennium Hurricane Force Lap and Flashing Adhesive"	HB Fuller "Millennium Hurricane Force Membrane Adhesive HS", max. 6-inch o.c.	M-OSFA or M-PG1, 12-inch o.c.	-82.5
C-VB-3.	None	Flintlastic Ultra Poly SMS Base Sheet, 3-inch wide side laps and 6-inch wide end laps are hot-air-welded, torch-welded or sealed with HB Fuller "HB Fuller "Millennium Hurricane Force Lap and Flashing Adhesive"	HB Fuller "Millennium Hurricane Force Membrane Adhesive HS", max. 6-inch o.c.	M-OSFA or M-PG1, 12-inch o.c.	-82.5
C-VB-4.	FlintPrime QD	Black Diamond Base Sheet, Flintlastic Ultra Glass SA or Flintlastic SA Cap	Self-adhering	M-OSFA or M-PG1, 12-inch o.c.	-97.5
C-VB-5.	FlintPrime QD	Black Diamond Base Sheet, Flintlastic Ultra Glass SA or Flintlastic SA Cap	Self-adhering	M-OSFA or M-PG1, 6-inch o.c.	-315.0
C-VB-6.	FlintPrime QD	Flintlastic GTA	Torch-applied	M-OSFA or M-PG1, 12-inch o.c.	-420.0
C-VB-7.	FlintPrime QD	Flintlastic Base 20 T	Torch-applied	M-OSFA or M-PG1, 12-inch o.c.	-495.0

17 The following products are interchangeable within the scope of this Evaluation Report.

ACCEPTABLE ALTERNATES				
SUB-CATEGORY	MANUFACTURER	FBC FILE	LISTED PRODUCT HEREIN	ALTERNATE
Adhesives	H.B. Fuller Company	FL1800	M-OSFA	FlintFast QS Insulation Adhesive
			M-PG1	FlintFast LV Insulation Adhesive
Roofing Fasteners	Altenloh, Brinck and Co. U.S., Inc.	FL4500	Trufast #12 DP	FlintFast #12 Fastener
			Trufast #14 HD	FlintFast #14 Fastener
			Trufast #15 EHD	FlintFast #15 EHD Fastener
			Trufast 2" Barbed Metal Seam Plate	FlintFast 2" Barbed Seam Plate
			Trufast 2.4" Barbed Metal Seam Plate	FlintFast 2.4" Barbed Seam Plate
			Trufast 3" Metal Insulation Plate	FlintFast 3" Insulation Plate
Roofing Insulation	Atlas Roofing	FL17989	ACFoam II	FlintBoard ISO
			ACFoam III	FlintBoard ISO Cold
	Hunter Panels	FL5968	H-Shield	FlintBoard$_H$ ISO
			H-Shield CG	FlintBoard$_H$ ISO Cold
	Georgia-Pacific Gypsum, LLC	FL1250	DensDeck Prime	DensDeck StormX Prime Roof Board

18 "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.

©2019 NEMO ETC, LLC

TABLE 1A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER										
Sys. No.	Deck (Note 1)	Base Insulation		Top Insulation		Primer	Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
SELF-ADHERING SYSTEMS:										
W-1	Min. 15/32-inch APA rated CDX plywood, 24-inch span	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.	M-OSFA or M-PG1	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-60.0
W-2	Min. 15/32-inch APA rated CDX plywood, 24-inch span, blocked 48-inch o.c.	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1, 6-inch o.c.	(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.	M-OSFA or M-PG1, 6-inch o.c.	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-97.5
HYBRID SYSTEMS:										
W-3	Min. 15/32-inch APA rated CDX plywood, 24-inch span	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.	M-OSFA or M-PG1	None	SBS-SA-H	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-60.0
W-4	Min. 15/32-inch APA rated CDX plywood, 24-inch span, blocked 48-inch o.c.	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1, 6-inch o.c.	(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.	M-OSFA or M-PG1, 6-inch o.c.	None	SBS-SA-H	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-97.5
CONVENTIONAL SYSTEMS:										
W-5	Min. 15/32-inch APA rated CDX plywood, 24-inch span	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Optional additional layers of base insulation, followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-60.0
W-6	Min. 15/32-inch APA rated CDX plywood, 24-inch span, blocked 48-inch o.c.	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1, 6-inch o.c.	Optional additional layers of base insulation, followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.	M-OSFA or M-PG1, 6-inch o.c.	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-97.5

©2019 NEMO ETC, LLC

NEMO|etc.

TABLE 1B: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER													
Sys. No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Primer	Roof Cover (Note 15)			MDP (psf)
		Type	Fasteners	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
SELF-ADHERING SYSTEMS:													
W-7	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flintlastic Base 20, Poly SMS, Ultra Poly SMS or Flintglas MS Cap (inverted)	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	9-inch o.c. in 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	hot asphalt	Min. 0.25-inch DensDeck	hot asphalt	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*
W-8	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, All Weather/Empire Base Sheet, Poly SMS or Ultra Poly SMS	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. in 3-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	hot asphalt full coverage or M-OSFA, Insta Stik, OB500, Polyset BM or Polyset CRA, 4-inch o.c.	Min. 0.25-inch DensDeck	hot asphalt full coverage or M-OSFA, Insta Stik, OB500, Polyset BM or Polyset CRA, 6-inch o.c.	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
W-9	Min. 19/32-inch plywood, 24-inch span	Flintglas MS Cap (inverted)	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. in 3-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	hot asphalt	Min. 0.25-inch DensDeck	hot asphalt	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
W-10	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, All Weather/Empire Base Sheet, Poly SMS or Ultra Poly SMS	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. in 3-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	(Optional) Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	hot asphalt full coverage or M-OSFA, Insta Stik, OB500, Polyset BM or Polyset CRA, 4-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt full coverage or M-OSFA, Insta Stik, OB500, Polyset BM or Polyset CRA, 6-inch o.c.	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-60.0
W-11	Min. 19/32-inch plywood, 24-inch span	Flintglas MS Cap (inverted)	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. in 3-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	(Optional) Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-60.0
HYBRID SYSTEMS:													
W-12	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flintlastic Base 20, Poly SMS, Ultra Poly SMS or Flintglas MS Cap (inverted)	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	9-inch o.c. in 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	hot asphalt	None	N/A	None	SBS-SA-H	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*

©2019 NEMO ETC, LLC

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

Sys. No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Primer	Roof Cover (Note 15)			MDP (psf)
		Type	Fasteners	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
W-13	Min. 19/32-inch plywood at max. 24-inch	Glasbase Base Sheet or Flintglas MS Cap (inverted)	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. in 3-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	hot asphalt	None	N/A	None	SBS-SA-H	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-60.0
CONVENTIONAL SYSTEMS:													
W-14	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flintlastic Base 20, Poly SMS, Ultra Poly SMS or Flintglas MS Cap (inverted)	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	9-inch o.c. in 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	hot asphalt	Min. 0.25-inch DensDeck	hot asphalt	FlintPrime QD	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
W-15	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, All Weather/Empire Base Sheet, Poly SMS or Ultra Poly SMS	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. in 3-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	hot asphalt full coverage or M-OSFA, Insta Stik, OB500, Polyset BM or Polyset CRA, 4-inch o.c.	Min. 0.25-inch DensDeck	hot asphalt full coverage or M-OSFA, Insta Stik, OB500, Polyset BM or Polyset CRA, 6-inch o.c.	FlintPrime QD	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-52.5
W-16	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, All Weather/Empire Base Sheet, Poly SMS or Ultra Poly SMS	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. in 3-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	(Optional) Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	hot asphalt full coverage or M-OSFA, Insta Stik, OB500, Polyset BM or Polyset CRA, 4-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt full coverage or M-OSFA, Insta Stik, OB500, Polyset BM or Polyset CRA, 6-inch o.c.	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-60.0

©2019 NEMO ETC, LLC

TABLE 1C: 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 15)			MDP (psf)
		Type	Fasteners	Attach	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
HYBRID SYSTEMS:										
W-17	Min. 15/32-inch plywood, 24-inch span	Min. 1.5-inch ACFoam II or H-Shield	Trufast #12 DP or #14 HD with Trufast 3"Metal Insulation Plates	1 per 1.3 ft²	Min. 1.5-inch ACFoam II or H-Shield	hot asphalt, M-OSFA, M-PG1 Insta Stik, OB500	SBS-SA-H	(Optional) APP-TA	APP-TA	-67.5
CONVENTIONAL SYSTEMS:										
W-18	Min. 23/32-inch plywood, 24-inch span	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 2.0 ft²	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.75-inch FescoBoard (homogeneous)	hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
W-19	Min. 23/32-inch plywood, 24-inch span	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 2.0 ft²	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	hot asphalt	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
W-20	Min. 15/32-inch plywood, 24-inch span	Min. 1.5-inch ACFoam II or H-Shield	Trufast #12 DP or #14 HD with Trufast 3"Metal Insulation Plates	1 per 1.3 ft²	Optional additional layer(s) of base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof board	hot asphalt, M-OSFA, M-PG1, Insta Stik, OB500	APP-TA	(Optional) APP-TA	APP-TA	-90.0

TABLE 1D: 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			Primer	Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners	Attach		Base Ply	Ply	Cap Ply	
SELF-ADHERING SYSTEMS:										
W-21	Min. 15/32-inch plywood, 24-inch span	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	1 per 3.2 ft²	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-30.0*
W-22	Min. 19/32-inch plywood, 24-inch span	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck	Note 2	1 per 1.3 ft²	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0
W-23	Min. 19/32-inch plywood, 24-inch span	(Optional) One or more layers, any combination, loose laid	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	1 per 2.7 ft²	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*
W-24	Min. 19/32-inch plywood, 24-inch span	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	1 per 2.0 ft²	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*
W-25	Min. 15/32-inch plywood, 24-inch span	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II	Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.6 ft²	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5

©2019 NEMO ETC, LLC

TABLE 1D: 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			Primer	Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners	Attach		Base Ply	Ply	Cap Ply	
W-26	Min. 19/32-inch plywood, 24-inch span	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	Note 2	1 per 1.45 ft^2	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-60.0
HYBRID SYSTEMS:										
W-27	Min. 15/32-inch plywood, 24-inch span	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck, DensDeck Prime	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	1 per 2.0 ft^2	None	SBS-SA-H	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-30.0*
W-28	Min. 15/32-inch plywood, 24-inch span	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II	Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.6 ft^2	None	SBS-SA-H	(Optional) SBS-TA or APP-TA	APP-TA	-52.5
W-29	Min. 15/32-inch plywood, 24-inch span	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	Note 2	1 per 1.3 ft^2	None	SBS-SA-H	(Optional) BP-AA or SBS-AA	SBS-AA	-52.5
W-30	Min. 19/32-inch plywood, 24-inch span	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II or H-Shield	Note 2	1 per 1.45 ft^2	None	SBS-SA-H	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-60.0
W-31	Min. 15/32-inch plywood, 24-inch span	(Optional) Min. 1.5-inch, One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II or H-Shield	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.3 ft^2	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-75.0
W-32	Min. 19/32-inch plywood, 24-inch span	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	Note 2	1 per 1.3 ft^2	None	SBS-SA-H	(Optional) SBS-TA or APP-TA	APP-TA	-82.5
CONVENTIONAL SYSTEMS:										
W-33	Min. 23/32-inch plywood, 24-inch span	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.75-inch FescoBoard (homogeneous)	Note 2	1 per 2.0 ft^2	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
W-34	Min. 15/32-inch plywood, 24-inch span	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	1 per 2.0 ft^2	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
W-35	Min. 15/32-inch plywood, 24-inch span	(Optional for Recover) Min. 1.5-inch, One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.45 ft^2	None	APP-TA	(Optional) APP-TA	APP-TA	-60.0

©2019 NEMO ETC, LLC

TABLE 1D: 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			Primer	Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners	Attach		Base Ply	Ply	Cap Ply	
W-36	Min. 19/32-inch plywood, 24-inch span	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield, loose laid.	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.8 ft^2	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-60.0
W-37	Min. 15/32-inch plywood, 24-inch span	(Optional for Recover) Min. 1.5-inch, One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.3 ft^2	None	APP-TA	(Optional) APP-TA	APP-TA	-67.5

TABLE 1E: 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 13)		Base Sheet			Primer	Roof Cover (Note 15)		MDP (psf)
		Type	Attach	Type	Fasteners	Attach		Base Ply	Cap Ply	
SELF-ADHERING SYSTEMS:										
W-38	Min. 19/32-inch plywood, 24-inch span	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Flintlastic SA NailBase	Note 2	8-inch o.c. at min. 3-inch lap and 8-inch o.c. in two (2), equally spaced, staggered center rows	FlintPrime QD at stress plates	(Optional) SBS-SA	SBS-SA	-82.5*
W-39	Min. 15/32-inch plywood, 24-inch span	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Flintlastic SA NailBase	OMG #14 HD with OMG 3 in. Round Metal Plate or Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	6-inch o.c. at min. 2-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows	FlintPrime QD at stress plates	(Optional) SBS-SA	SBS-SA	-97.5*
W-40	Min. 15/32-inch plywood, 24-inch span	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Flintlastic SA NailBase	OMG #14 HD with OMG 3 in. Round Metal Plate or Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	6-inch o.c. at min. 2-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	FlintPrime QD at stress plates	(Optional) SBS-SA	SBS-SA	-127.5*
HYBRID SYSTEMS:										
W-41	Min. 15/32-inch plywood, 24-inch span	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Glasbase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	OMG #14 HD with OMG 3 in. Round Metal Plate or Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	6-inch o.c. at 4-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows	FlintPrime QD at stress plates	SBS-SA-H	SBS-AA or APP-TA	-97.5
W-42	Min. 19/32-inch plywood, 24-inch span	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Glasbase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	Note 2	7-inch o.c. at 3-inch lap and 7-inch o.c. in three (3), equally spaced, staggered center rows	None	SBS-SA-H	SBS-AA or APP-TA	-105.0

©2019 NEMO ETC, LLC

TABLE 1E: 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 13)		Base Sheet			Primer	Roof Cover (Note 15)		MDP (psf)
		Type	Attach	Type	Fasteners	Attach		Base Ply	Cap Ply	
W-43	Min. 15/32-inch plywood, 24-inch span	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Glasbase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	OMG #14 HD with OMG 3 in. Round Metal Plate or Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	6-inch o.c. at 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	FlintPrime QD at stress plates	SBS-SA-H	SBS-AA or APP-TA	-127.5
CONVENTIONAL SYSTEMS:										
W-44	Min. 23/32-inch plywood, 24-inch span	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flintlastic Base 20 or Flintglas MS Cap (inverted)	Note 2	12-inch o.c. at 4-inch lap and 36-inch o.c. in two (2), equally spaced, staggered center rows	None	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-30.0*
W-45	Min. 23/32-inch plywood, 24-inch span	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flintlastic Base 20 or Flintglas MS Cap (inverted)	Note 2	12-inch o.c. at 4-inch lap and 24-inch o.c. in two (2), equally spaced, staggered center rows	None	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
W-46	Min. 23/32-inch plywood, 24-inch span	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	Note 2	12-inch o.c. at 4-inch lap and 36-inch o.c. in two (2), equally spaced, staggered center rows	None	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
W-47	Min. 15/32-inch plywood, 24-inch span	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas MS Cap (inverted)	OMG #14 HD with OMG 3 in. Round Metal Plate or Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	6-inch o.c. at 4-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows.	None	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-97.5
W-48	Min. 15/32-inch plywood, 24-inch span	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Flintlastic APP Base T	OMG #14 HD with OMG 3 in. Round Metal Plates	6-inch o.c. at 4-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows.	None	APP-TA	APP-TA	-97.5
W-49	Min. 15/32-inch plywood, 24-inch span	One or more layers, any thickness or combination	Prelim. Attach	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas MS Cap (inverted)	Trufast #14 HD with Trufast 3" Metal Insulation Plate	8-inch o.c. at 4-inch lap and 8-inch o.c. at three (3) equally spaced, staggered center rows	None	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-97.5
W-50	Min. 19/32-inch plywood, 24-inch span	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Glasbase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas MS Cap (inverted)	Note 2	7-inch o.c. at 3-inch lap and 7-inch o.c. in three (3), equally spaced, staggered center rows	None	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-105.0

©2019 NEMO ETC, LLC

TABLE 1E: 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 13)		Base Sheet			Primer	Roof Cover (Note 15)		MDP (psf)
		Type	Attach	Type	Fasteners	Attach		Base Ply	Cap Ply	
W-51	Min. 19/32-inch plywood, 24-inch span	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Flintlastic APP Base T	Dekfast DF-#14-PH3 with PLT-H-2-7/8 or OMG #14 HD with OMG 3 in. Round Metal Plate	7-inch o.c. at 3-inch lap and 7-inch o.c. in three (3), equally spaced, staggered center rows	None	APP-TA	APP-TA	-105.0
W-52	Min. 15/32-inch plywood, 24-inch span	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Glasbase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas MS Cap (inverted)	OMG #14 HD with OMG 3 in. Round Metal Plate or Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	6-inch o.c. at 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows.	None	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-127.5
W-53	Min. 15/32-inch plywood, 24-inch span	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Flintlastic APP Base T	OMG #14 HD with OMG 3 in. Round Metal Plates	6-inch o.c. at 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows.	None	APP-TA	APP-TA	-127.5
COLD-APPLIED SYSTEMS:										
W-54	Min. 15/32-inch plywood, 24-inch span	Min. 1-inch, One or more layers, any combination	Loose-laid	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas MS Cap (inverted)	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	8-inch o.c. at 4-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	None	(Optional) SBS-CA1	SBS-CA1	-52.5

TABLE 1F: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER								
System No.	Deck (Note 1)	Base Sheet			Primer	Roof Cover (Note 15)		MDP (psf)
		Base	Fasteners	Attach		Base Ply	Cap Ply	
SELF-ADHERING SYSTEMS:								
W-55	Min. 15/32-inch plywood, 24-inch span	Flintlastic SA NailBase	Simplex MAXX Cap	9-inch o.c. at min. 3-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	FlintPrime QD at stress plates	(Optional) SBS-SA	SBS-SA	-45.0*
W-56	Min. 15/32-inch plywood, 24-inch span	Flintlastic SA NailBase	Min. 1-inch long, 12 ga. Simplex Metal Cap Nails	6-inch o.c. at min. 2-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	None	(Optional) SBS-SA	SBS-SA	-52.5
W-57	Min. 19/32-inch plywood, 24-inch span	Flintlastic SA NailBase	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at min. 2-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	None	(Optional) SBS-SA	SBS-SA	-52.5

©2019 NEMO ETC, LLC

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

System No.	Deck (Note 1)	Base Sheet			Primer	Roof Cover (Note 15)		MDP (psf)
		Base	Fasteners	Attach		Base Ply	Cap Ply	
W-58	APA rated, min. 7/16 CAT, 0.418 in., Exposure 1, OSB, 24-inch span	Flintlastic SA NailBase	Simplex MAXX Cap	8-inch o.c. at min. 3-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	FlintPrime QD at stress plates	(Optional) Flintlastic SA Mid Ply, self-adhering	SBS-SA	-52.5
W-59	Min. 19/32-inch plywood, 24-inch span	Flintlastic SA NailBase	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at min. 2-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	None	(Optional) SBS-SA	SBS-SA	-60.0
W-60	Min. 15/32-inch plywood, 24-inch span	Flintlastic SA NailBase	Simplex MAXX Cap	8-inch o.c. at min. 3-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	FlintPrime QD at stress plates	(Optional) SBS-SA	SBS-SA	-67.5
W-61	Min. 19/32-inch plywood, 24-inch span	Flintlastic SA NailBase	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	6-inch o.c. at min. 2-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	None	(Optional) SBS-SA	SBS-SA	-75.0
W-62	Min. 15/32-inch plywood, 24-inch span	Flintlastic SA NailBase	Cap nails: 1-inch diameter, 0.032-inch metal cap with 0.120" shank diameter, annular ring shank nails	7-inch o.c. at min. 4-inch laps and 7-inch o.c. in five (5), equally spaced, staggered center rows	None	(Optional) SBS-SA	SBS-SA	-75.0
W-63	Min. 19/32-inch plywood, 24-inch span	Flintlastic SA NailBase	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	4-inch o.c. at min. 2-inch lap and 4-inch o.c. in four (4), equally spaced, staggered center rows	None	(Optional) SBS-SA	SBS-SA	-105.0
HYBRID SYSTEMS:								
W-64	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	9-inch o.c. at 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	None	SBS-SA-H	SBS-AA or APP-TA	-45.0*
W-65	Min. 15/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	Min. 1-inch long, 12 ga. Simplex Metal Cap Nails	6-inch o.c. at 3-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	None	SBS-SA-H	SBS-AA or APP-TA	-52.5
W-66	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at 4-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	None	SBS-SA-H	SBS-AA or APP-TA	-52.5
W-67	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at 4-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	None	SBS-SA-H	SBS-AA or APP-TA	-60.0
W-68	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	6-inch o.c. at 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	None	SBS-SA-H	SBS-AA or APP-TA	-82.5

©2019 NEMO ETC, LLC

TABLE 1F: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER								
System No.	Deck (Note 1)	Base Sheet			Primer	Roof Cover (Note 15)		MDP (psf)
		Base	Fasteners	Attach		Base Ply	Cap Ply	
W-69	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	4-inch o.c. at 3-inch lap and 4-inch o.c. in four (4), equally spaced, staggered center rows	None	SBS-SA-H	SBS-AA or APP-TA	-105.0
CONVENTIONAL SYSTEMS:								
W-70	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas MS Cap (inverted)	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	9-inch o.c. at 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	None	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
W-71	Min. 15/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet or Flintglas MS Cap (inverted)	Simplex MAXX Cap	9-inch o.c. at 2-inch lap and 18-inch o.c. in two (2), equally spaced, staggered center rows	None	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
W-72	Min. 15/32-inch plywood, 24-inch span	Flintlastic APP Base T	Simplex MAXX Cap	9-inch o.c. at 2-inch lap and 18-inch o.c. in two (2), equally spaced, staggered center rows	None	(Optional) APP-TA	APP-TA	-45.0*
W-73	Min. 15/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas MS Cap (inverted)	Min. 1-inch long, 12 ga. Simplex Metal Cap Nails	6-inch o.c. at 3-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	None	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-52.5
W-74	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas MS Cap (inverted)	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at 4-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	None	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-52.5
W-75	Min. 15/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet or Flintglas MS Cap (inverted)	Simplex MAXX Cap	9-inch o.c. at 2-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	None	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-52.5
W-76	Min. 15/32-inch plywood, 24-inch span	Flintlastic APP Base T	Simplex MAXX Cap	9-inch o.c. at 2-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	None	(Optional) APP-TA	APP-TA	-52.5
W-77	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas MS Cap (inverted)	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at 4-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	None	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-60.0
W-78	Min. 15/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas MS Cap (inverted)	Cap nails: 1-inch diameter, 0.032-inch metal cap with 0.120-inch shank diameter, annular ring shank nails.	6-inch o.c. at 4-inch lap and 6-inch o.c. at five (5) equally spaced, staggered center rows	None	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA	-67.5

©2019 NEMO ETC, LLC

TABLE 1F: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER								
System No.	Deck (Note 1)	Base Sheet			Primer	Roof Cover (Note 15)		MDP (psf)
		Base	Fasteners	Attach		Base Ply	Cap Ply	
W-79	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas MS Cap (inverted)	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	6-inch o.c. at 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	None	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-82.5
W-80	Min. 15/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet or Flintglas MS Cap (inverted)	Simplex MAXX Cap	6-inch o.c. at 2-inch lap and 6-inch o.c. in two (2), equally spaced, staggered center rows	None	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-90.0
W-81	Min. 15/32-inch plywood, 24-inch span	Flintlastic APP Base T	Simplex MAXX Cap	6-inch o.c. at 2-inch lap and 6-inch o.c. in two (2), equally spaced, staggered center rows	None	(Optional) APP-TA	APP-TA	-90.0
W-82	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas MS Cap (inverted)	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	4-inch o.c. at 3-inch lap and 4-inch o.c. in four (4), equally spaced, staggered center rows	None	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-105.0
W-83	Min. 15/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet or Flintglas MS Cap (inverted)	Simplex MAXX Cap	6-inch o.c. at 2-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows	None	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-105.0
W-84	Min. 15/32-inch plywood, 24-inch span	Flintlastic APP Base T	Simplex MAXX Cap	6-inch o.c. at 2-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows	None	(Optional) APP-TA	APP-TA	-105.0

TABLE 1G: 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			Primer	Roof Cover (Note 15)		MDP (psf)
		Base	Fasteners	Attach		Base Ply	Cap Ply	
SELF-ADHERING SYSTEMS:								
W-85	APA rated, min. 7/16 CAT, 0.418 in., Exposure 1, OSB, 24-inch span	Flintlastic SA NailBase	Trufast Versa Fasteners & Plates, two (2) screws per plate at 180° from each other*	9-inch o.c. at min. 3-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	FlintPrime QD at stress plates	(Optional) Flintlastic SA Mid Ply, self-adhering	SBS-SA	-60.0*
	Note:	**For re-roof (tear-off) or recover applications, field withdrawal resistance testing (Note 11) shall yield minimum 109 lbf. Additional Versa-Fast Fasteners within each Versa-Fast Plate may be utilized to produce minimum withdrawal resistance. For recover installations, screws shall be of sufficient length for minimum 1" penetration through OSB sheathing.*						
W-86	Min. 19/32-inch plywood, 24-inch span	Flintlastic SA NailBase	Note 2	8-inch o.c. at min. 3-inch lap and 8-inch o.c. in two (2), equally spaced, staggered center rows	FlintPrime QD at stress plates	(Optional) SBS-SA	SBS-SA	-82.5*

©2019 NEMO ETC, LLC

TABLE 1G: 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			Primer	Roof Cover (Note 15)		MDP (psf)
		Base	Fasteners	Attach		Base Ply	Cap Ply	
W-87	Min. 15/32-inch plywood, 24-inch span	Flintlastic SA NailBase	OMG #14 HD with OMG 3 in. Round Metal Plate or Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	6-inch o.c. at min. 2-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows	FlintPrime QD at stress plates	(Optional) SBS-SA	SBS-SA	-97.5*
W-88	Min. 15/32-inch plywood, 24-inch span	Flintlastic SA NailBase	OMG #14 HD with OMG 3 in. Round Metal Plate or Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	6-inch o.c. at min. 2-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	FlintPrime QD at stress plates	(Optional) SBS-SA	SBS-SA	-127.5*
HYBRID SYSTEMS:								
W-89	Min. 15/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	OMG #14 HD with OMG 3 in. Round Metal Plate or Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	6-inch o.c. at 4-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows	FlintPrime QD at stress plates	SBS-SA-H	SBS-AA or APP-TA	-97.5
W-90	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	Note 2	7-inch o.c. at 3-inch lap and 7-inch o.c. in three (3), equally spaced, staggered center rows	None	SBS-SA-H	SBS-AA or APP-TA	-105.0
W-91	Min. 15/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	OMG #14 HD with OMG 3 in. Round Metal Plate or Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	6-inch o.c. at 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	FlintPrime QD at stress plates	SBS-SA-H	SBS-AA or APP-TA	-127.5
CONVENTIONAL SYSTEMS:								
W-92	Min. 23/32-inch plywood, 24-inch span	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flintlastic Base 20 or Flintglas MS Cap (inverted)	Note 2	12-inch o.c. at 4-inch lap and 36-inch o.c. in two (2), equally spaced, staggered center rows	None	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-30.0*
W-93	Min. 23/32-inch plywood, 24-inch span	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flintlastic Base 20 or Flintglas MS Cap (inverted)	Note 2	12-inch o.c. at 4-inch lap and 24-inch o.c. in two (2), equally spaced, staggered center rows	None	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
W-94	Min. 23/32-inch plywood, 24-inch span	Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	Note 2	12-inch o.c. at 4-inch lap and 36-inch o.c. in two (2), equally spaced, staggered center rows	None	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
W-95	Min. 15/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas MS Cap (inverted)	OMG #14 HD with OMG 3 in. Round Metal Plate or Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	6-inch o.c. at 4-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows	None	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-97.5
W-96	Min. 15/32-inch plywood, 24-inch span	Flintlastic APP Base T	OMG #14 HD with OMG 3 in. Round Metal Plates	6-inch o.c. at 4-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows.	None	APP-TA	APP-TA	-97.5

©2019 NEMO ETC, LLC

TABLE 1G: 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			Primer	Roof Cover (Note 15)		MDP (psf)
		Base	Fasteners	Attach		Base Ply	Cap Ply	
W-97	Min. 15/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas MS Cap (inverted)	Trufast #14 HD with Trufast 3" Metal Insulation Plate	8-inch o.c. at 4-inch lap and 8-inch o.c. at three (3) equally spaced, staggered center rows	None	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA	-97.5
W-98	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas MS Cap (inverted)	Note 2	7-inch o.c. at 3-inch lap and 7-inch o.c. in three (3), equally spaced, staggered center rows	None	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-105.0
W-99	Min. 19/32-inch plywood, 24-inch span	Flintlastic APP Base T	Dekfast DF-#14-PH3 with PLT-H-2-7/8 or OMG #14 HD with OMG 3 in. Round Metal Plate	7-inch o.c. at 3-inch lap and 7-inch o.c. in three (3), equally spaced, staggered center rows	None	APP-TA	APP-TA	-105.0
W-100	Min. 15/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas MS Cap (inverted)	OMG #14 HD with OMG 3 in. Round Metal Plate or Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	6-inch o.c. at 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	None	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-127.5
W-101	Min. 15/32-inch plywood, 24-inch span	Flintlastic APP Base T	OMG #14 HD with OMG 3 in. Round Metal Plates	6-inch o.c. at 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows.	None	APP-TA	APP-TA	-127.5
COLD-APPLIED SYSTEMS:								
W-102	Min. 15/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas MS Cap (inverted)	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	8-inch o.c. at 4-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	None	(Optional) SBS-CA1	SBS-CA1	-52.5

TABLE 1H: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER						
System No.	Deck (Note 1)	Primer	Roof Cover (Note 15)			MDP (psf)
			Base Ply	Ply	Cap Ply	
W-103	APA rated, min. 7/16 CAT, 0.418 in., Exposure 1, OSB sheathing, 24-inch span	FlintPrime QD	Flintlastic SA Mid Ply, self-adhering	(Optional) SBS-SA	SBS-SA	-90.0
W-104	Min. 15/32-inch plywood, 24-inch span	FlintPrime QD	SBS-SA-H	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-112.5
W-105	Min. 15/32-inch plywood, 24-inch span	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-127.5

©2019 NEMO ETC, LLC

TABLE 2A: 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 15)			MDP (psf)
		Type	Fasteners	Attach	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
SELF-ADHERING SYSTEMS:										
S-1	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 4.0 ft²	Optional min. 1.5-inch additional layer(s) base insulation, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt, M-OSFA, Insta Stik, OB500, Polyset BM, Polyset CRA	SBS-SA	(Optional) SBS-SA	SBS-SA	-37.5*
S-2	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 2.0 ft²	Optional min. 1.5-inch additional layer(s) base insulation, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt, M-OSFA, Insta Stik, OB500, Polyset BM, Polyset CRA	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*
HYBRID SYSTEMS:										
S-3	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 1.45 ft²	Additional layer(s) base insulation	hot asphalt, M-OSFA, Insta Stik, OB500, Polyset BM, Polyset CRA	Flintlastic Ultra Glass SA	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-37.5
S-4	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 1.45 ft²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt, M-OSFA, Insta Stik, OB500, Polyset BM, Polyset CRA	Flintlastic Ultra Glass SA	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-52.5
S-5	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II or H-Shield	Trufast #12 DP or #14 HD with Trufast 3"Metal Insulation Plates	1 per 1.45 ft²	Min. 1.5-inch ACFoam II or H-Shield	hot asphalt, M-OSFA, M-PG1, Insta Stik, OB500	SBS-SA-H	(Optional) APP-TA	APP-TA	-67.5
S-6	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II or H-Shield	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.6 ft²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1, Insta Stik, OB500	SBS-SA-H	(Optional) SBS-TA or APP-TA	APP-TA	-75.0
S-7	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ENRGY 3	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.0 ft²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	OB500, 4-inch o.c.	SBS-SA-H	(Optional) SBS-TA or APP-TA	APP-TA	-90.0*
CONVENTIONAL SYSTEMS:										
S-8	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 4.0 ft²	Optional min. 1.5-inch additional layer(s) base insulation, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt, M-OSFA, Insta Stik, OB500, Polyset BM, Polyset CRA	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-37.5*

©2019 NEMO ETC, LLC

TABLE 2A: 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 15)			MDP (psf)
		Type	Fasteners	Attach	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
S-9	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 2.0 ft²	Optional min. 1.5-inch additional layer(s) base insulation, followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.75-inch FescoBoard (homogeneous).	hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
S-10	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 2.0 ft²	Optional min. 1.5-inch additional layer(s) base insulation, followed by min. 0.25-inch DensDeck or DensDeck Prime	hot asphalt	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
S-11	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 2.0 ft²	Optional min. 1.5-inch additional layer(s) base insulation, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt, M-OSFA, Insta Stik, OB500, Polyset BM, Polyset CRA	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
S-12	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 3.2 ft²	Optional min. 1.5-inch additional layer(s) base insulation, followed by min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.75-inch FescoBoard (homogeneous).	hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
S-13	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 3.2 ft²	Optional min. 1.5-inch additional layer(s) base insulation, followed by min. 0.25-inch DensDeck or DensDeck Prime	hot asphalt	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
S-14	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	Note 2	1 per 1.3 ft²	Min. 0.75-inch FescoBoard (homogeneous)	hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-52.5
S-15	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	Note 2	1 per 1.6 ft²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt, M-OSFA, Insta Stik, OB500, Polyset BM, Polyset CRA	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-60.0

©2019 NEMO ETC, LLC

TABLE 2A: 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 15)			MDP (psf)
		Type	Fasteners	Attach	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
S-16	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	Note 2	1 per 1.3 ft²	Min. 0.5-inch Structodek High Density Fiberboard	hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-67.5
S-17	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II or H-Shield	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.6 ft²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1, Insta Stik, OB500	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-75.0
S-18	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ENRGY 3	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.0 ft²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	OB500, 4-inch o.c.	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-90.0*
COLD-APPLIED SYSTEMS:										
S-19	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 2-inch ACFoam II or H-Shield	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 2.0 ft²	Min. 1.5-inch ACFoam III or H-Shield CG	OB500 or Polyset CRA	SBS-CA1	None	SBS-CA1	-45.0*
S-20	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 2-inch ACFoam II or H-Shield	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 2.0 ft²	Optional min. 1.5-inch additional layer(s) base insulation, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Insta Stik, M-OSFA, M-PG1, OB500, Polyset BM or Polyset CRA	SBS-CA1	None	SBS-CA1	-45.0*
S-21	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 2-inch ACFoam II or H-Shield	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 2.0 ft²	Optional min. 1.5-inch additional layer(s) base insulation, followed by min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Insta Stik, M-OSFA, M-PG1, OB500, Polyset BM or Polyset CRA	SBS-CA4	None	SBS-CA4	-45.0*
S-22	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II or H-Shield	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.6 ft²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1, Insta Stik, OB500	SBS-CA1	None	SBS-CA1	-75.0
S-23	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ENRGY 3	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.0 ft²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	OB500, 4-inch o.c.	SBS-CA1	None	SBS-CA1	-90.0*

©2019 NEMO ETC, LLC

TABLE 2B: 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(s) (Note 13)	Top Insulation Layer			Primer	Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners	Attach		Base Ply	Ply	Cap Ply	
SELF-ADHERING SYSTEMS:										
S-24	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 3.2 ft²	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-30.0*
S-25	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 2.7 ft²	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-37.5*
S-26	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.7 ft²	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*
S-27	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck	Note 2	1 per 1.3 ft²	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0
S-28	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II	Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.8 ft²	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-67.5
S-29	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.6 ft²	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-82.5
S-30	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II or H-Shield	Trufast #15 EHD (steel only) or Trufast #14 HD (concrete only) with Trufast 3" Metal Insulation Plate	1 per 1.0 ft²	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-97.5
HYBRID SYSTEMS:										
S-31	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck, DensDeck Prime	Note 2	1 per 2.0 ft²	None	SBS-SA-H	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-30.0*
S-32	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 2.7 ft²	None	SBS-SA-H	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-37.5*
S-33	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 2.7 ft²	None	SBS-SA-H	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
S-34	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II	Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.8 ft²	None	SBS-SA-H	(Optional) SBS-TA or APP-TA	APP-TA	-67.5

©2019 NEMO ETC, LLC

TABLE 2B: 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(s) (Note 13)	Top Insulation Layer			Primer	Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners	Attach		Base Ply	Ply	Cap Ply	
S-35	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II or H-Shield	Trufast #12 DP (steel only) or Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.45 ft²	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-75.0
S-36	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.6 ft²	None	SBS-SA-H	(Optional) SBS-TA or APP-TA	APP-TA	-82.5
S-37	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.45 ft²	None	SBS-SA-H	(Optional) SBS-TA or APP-TA	APP-TA	-82.5
S-38	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	Note 2	1 per 1.3 ft²	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-82.5
S-39	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II or H-Shield	Trufast #15 EHD (steel only) or Trufast #14 HD (concrete only) with Trufast 3" Metal Insulation Plate	1 per 1.0 ft²	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-97.5
S-40	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.0 ft²	None	SBS-SA-H	(Optional) SBS-TA or APP-TA	APP-TA	-135.0
CONVENTIONAL SYSTEMS:										
S-41	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.75-inch FescoBoard (homogeneous)	Note 2	1 per 2.7 ft²	None	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-30.0*
S-42	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Note 2	1 per 4.0 ft²	None	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-37.5*
S-43	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4.0 ft²	None	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-37.5*
S-44	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4.0 ft²	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*

©2019 NEMO ETC, LLC

TABLE 2B: 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(s) (Note 13)	Top Insulation Layer			Primer	Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners	Attach		Base Ply	Ply	Cap Ply	
S-45	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.75-inch FescoBoard (homogeneous)	Note 2	1 per 2.0 ft^2	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
S-46	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck or DensDeck Prime	Note 2	1 per 2.0 ft^2	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
S-47	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP (steel only) or Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.45 ft^2	None	APP-TA	(Optional) APP-TA	APP-TA	-60.0
S-48	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield, loose laid.	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.8 ft^2	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-60.0
S-49	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.45 ft^2	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-82.5
S-50	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II or H-Shield	Min. 0.5-inch DensDeck Prime	Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.3 ft^2	None	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA	SBS-AA	-112.5
S-51	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.0 ft^2	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-135.0
S-52	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II or H-Shield	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.3 ft^2	None	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA	SBS-AA	-157.5
S-53	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II or H-Shield	Min. 0.5-inch DensDeck Prime	Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.0 ft^2	None	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA	SBS-AA	-157.5

©2019 NEMO ETC, LLC

TABLE 2B: 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(s) (Note 13)	Top Insulation Layer			Primer	Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners	Attach		Base Ply	Ply	Cap Ply	
S-54	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch ACFoam II or H-Shield	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.0 ft^2	None	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA	SBS-AA	-172.5
SPOT- OR STRIP-MOPPED SYSTEMS:										
S-55	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ACFoam II or ENRGY 3	Note 2	1 per 1.6 ft^2	None	BP-AA2	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-37.5*
S-56	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 1-inch FescoBoard (homogeneous) or min. 1.5-inch FescoBoard (laminated)	Note 2	1 per 1.6 ft^2	None	BP-AA2	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
S-57	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek HD with Primed Red Coating	Note 2	1 per 2.0 ft^2	None	BP-AA2	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
S-58	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II	Note 2	1 per 1.45 ft^2	None	BP-AA3, 24-inch grid	(Optional) BP-AA or SBS-AA	SBS-AA	-52.5
S-59	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam II	Note 2	1 per 1.45 ft^2	None	BP-AA3, 24-inch grid	BP-AA or SBS-AA	SBS-TA	-52.5
COLD-APPLIED SYSTEMS:										
S-60	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 2.7 ft^2	None	SBS-CA1	None	SBS-CA1	-37.5*
S-61	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 2.7 ft^2	None	SBS-CA4	None	SBS-CA4	-37.5*
S-62	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam III or H-Shield CG	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 2.0 ft^2	None	SBS-CA1	None	SBS-CA1	-45.0*
S-63	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 2.7 ft^2	None	SBS-CA1	None	SBS-CA1	-45.0*
S-64	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 2.7 ft^2	None	SBS-CA4	None	SBS-CA4	-45.0*
S-65	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.45 ft^2	None	SBS-CA1	None	SBS-CA1	-82.5*

©2019 NEMO ETC, LLC

TABLE 2c: 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 13)		Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Attach	Type	Fasteners	Attach	Base Ply	Cap Ply	
SELF-ADHERING SYSTEMS:									
S-66	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Flintlastic SA NailBase	Note 2	9-inch o.c. at min. 2-inch lap and 18-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-45.0*
S-67	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Flintlastic SA NailBase	Note 2	12-inch o.c. at min. 2-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-52.5*
S-68	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Flintlastic SA NailBase	Note 2	12-inch o.c. at min. 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-60.0*
S-69	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Flintlastic SA NailBase (laid parallel to deck flutes)	Note 2	8-inch o.c. at min. 4-inch lap and 8-inch o.c. in two (2), equally spaced, staggered center rows, FlintPrime QD at stress plates	(Optional) SBS-SA	SBS-SA	-82.5*
CONVENTIONAL SYSTEMS:									
S-70	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flintlastic Base 20 or Flintglas MS Cap (inverted)	Note 2	12-inch o.c. at 4-inch lap and 36-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-30.0*
S-71	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flintlastic Base 20 or Flintglas MS Cap (inverted)	Note 2	12-inch o.c. at 4-inch lap and 24-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
S-72	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	Note 2	12-inch o.c. at 4-inch lap and 36-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
S-73	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	Note 2	18-inch o.c. at 4-inch lap and 18-inch o.c. in one (1) staggered center row	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
S-74	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	Dekfast DF-#14-PH3 with PLT-R-2-4B	12-inch o.c. within the min. 4-inch wide, heat-welded side lap	SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
S-75	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet or Flintglas MS Cap (inverted)	Note 2	12-inch o.c. at 3-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-52.5

©2019 NEMO ETC, LLC

TABLE 2c: 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 13)		Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Attach	Type	Fasteners	Attach	Base Ply	Cap Ply	
S-76	Min. 22 ga., type B, 40 ksi steel or min. 2,500 psi structrual concrete	Min. 2-inch, One or more layers, any combination	Prelim. Attached	Flintlastic Ultra Poly SMS Base Sheet	Trufast #15 EHD (steel only) or Trufast #14 HD (concrete only) with Trufast 2" Barbed Metal Seam Plate	12-inch o.c. within the min. 4-inch wide, heat-welded side lap	(Optional) SBS-TA or APP-TA	APP-TA	-52.5
S-77	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Flintlastic Ultra Poly SMS Base Sheet	Trufast #15 EHD (steel only) or Trufast #14 HD (concrete only) with Trufast 2.4" Barbed Metal Seam Plate	12-inch o.c. within the min. 4-inch wide, heat-welded side lap	(Optional) SBS-TA or APP-TA	APP-TA	-60.0
S-78	Min. 22 ga., type B, 40 ksi steel or min. 2,500 psi structrual concrete	Min. 2-inch, One or more layers, any combination	Prelim. Attached	Flintlastic Ultra Poly SMS Base Sheet	Trufast #15 EHD (steel only) or Trufast #14 HD (concrete only) with Trufast 2.4" Scoop Seam Plate	12-inch o.c. within the min. 4-inch wide, heat-welded side lap	(Optional) SBS-TA or APP-TA	APP-TA	-67.5
S-79	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Glasbase Base Sheet or Flintglas MS Cap (inverted)	OMG #14 HD with OMG Flat Bottom Plates (AccuTrac)	6-inch o.c. at 4-inch lap and 6-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-67.5
S-80	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Flintlastic Base 20 or Flintglas MS Cap (inverted)	Note 2	6-inch o.c. at 4-inch lap and 6-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-67.5
S-81	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas MS Cap (inverted)	Trufast #14 HD with Trufast 3" Metal Insulation Plate	6-inch o.c. at 4-inch lap and 6-inch o.c. at three (3) equally spaced, staggered center rows	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA	-97.5
S-82	Min. 22 ga., type B, 40 ksi steel or min. 2,500 psi structrual concrete	Min. 2-inch, One or more layers, any combination	Prelim. Attached	Flintlastic Ultra Poly SMS Base Sheet	Trufast #15 EHD (steel only) or Trufast #14 HD (concrete only) with Trufast 2.4" Scoop Seam Plate	6-inch o.c. within the min. 4-inch wide, heat-welded side lap	(Optional) SBS-TA or APP-TA	APP-TA	-112.5
S-83	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	Note 2	12-inch o.c. at 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	SBS-TA or APP-TA	APP-TA	-112.5
S-84	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	Note 2	12-inch o.c. at 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	SBS-AA	SBS-AA	-120.0

©2019 NEMO ETC, LLC

TABLE 2c: 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 13)		Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Attach	Type	Fasteners	Attach	Base Ply	Cap Ply	
S-85	Min. 22 ga., type B, 40 ksi steel or min. 2,500 psi structrual concrete	Min. 2-inch, One or more layers, any combination	Prelim. Attached	Flintlastic Ultra Poly SMS Base Sheet	Trufast #15 EHD (steel only) or Trufast #14 HD (concrete only) with Trufast 2.4" Scoop Seam Plate	6-inch o.c. within the min. 4-inch wide, heat-welded side laps and 6-inch o.c. in one (1) center row, stripped-in with 6-inch side strips of torch-applied Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet.	(Optional) SBS-TA or APP-TA	APP-TA	-165.0
COLD-APPLIED SYSTEMS:									
S-86	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structrual concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flintlastic Base 20	Note 2	6-inch o.c. at 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	SBS-CA1	SBS-CA1	-45.0*
S-87	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structrual concrete	Min. 1-inch, One or more layers, any combination	Loose-laid	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	Trufast #14 HD with Trufast 3" Metal Insulation Plate	6-inch o.c. at 4-inch lap and 12-inch o.c. in three (3), equally spaced, staggered center rows	(Optional) SBS-CA1	SBS-CA1	-75.0

©2019 NEMO ETC, LLC

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
SEE NOTE 16 FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Primer	Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
SELF-ADHERING SYSTEMS:											
C-1.	Structural concrete	FlintPrime QD	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
C-2.	Structural concrete	FlintPrime QD	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	hot asphalt	Min. 0.25-inch DensDeck	hot asphalt	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
C-3.	Structural concrete	None	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 0.5-inch ACFoam-HD CoverBoard or H-Shield HD	M-OSFA or M-PG1	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-97.5
C-4.	Structural concrete	None	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 2-inch H-Shield HD Composite CG	M-OSFA or M-PG1	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-142.5
C-5.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
C-6.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	M-OSFA or M-PG1	Min. 0.25-inch DensDeck	M-OSFA or M-PG1	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
C-7.	Structural concrete	None	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1, 6-inch o.c.	Min. 2-inch H-Shield HD Composite CG	M-OSFA or M-PG1, 6-inch o.c.	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-305.0
C-8.	Structural concrete	None	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1, 6-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1, 6-inch o.c.	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-315.0
C-9.	Structural concrete	None	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1, 6-inch o.c.	Min. 0.5-inch ACFoam-HD CoverBoard or H-Shield HD	M-OSFA or M-PG1, 6-inch o.c.	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-315.0
C-10.	Structural concrete	(Optional) FlintPrime QD	Min. 1.5-inch Multi-Max FA	Insta Stik	Min. 0.25-inch DensDeck	Insta Stik	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-67.5
C-11.	Structural concrete	(Optional) FlintPrime QD	Min. 1.5-inch ENRGY 3	Insta Stik	Min. 0.25-inch DensDeck	Insta Stik	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-112.5
C-12.	Structural concrete	(Optional) FlintPrime QD	Min. 1.5-inch ACFoam II	Insta Stik	Min. 0.25-inch DensDeck	Insta Stik	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-120.0
C-13.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Insta Stik	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Insta Stik	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
C-14.	Structural concrete	FlintPrime QD	Min. 1.5-inch ACFoam II or ENRGY 3	OB500	Min. 0.25-inch DensDeck	OB500	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-120.0

©2019 NEMO ETC, LLC

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
SEE NOTE 16 FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Primer	Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
C-15.	Structural concrete	None	Min. 1.5-inch ACFoam II or ENRGY 3	OB500	Min. 0.25-inch DensDeck	OB500	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-150.0
C-16.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
C-17.	Structural concrete	None	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset BM or Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM or Polyset CRA	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
C-18.	Structural concrete	None	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset BM or Polyset CRA	Min. 0.25-inch DensDeck	Polyset BM or Polyset CRA	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
HYBRID SYSTEMS:											
C-19.	Structural concrete	FlintPrime QD	Min. 1.5-inch ACFoam II or H-Shield	hot asphalt	(Optional) Additional layer(s) base insulation	hot asphalt	None	Flintlastic Ultra Glass SA	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-322.5
C-20.	Structural concrete	FlintPrime QD	Min. 1.5-inch ACFoam II or H-Shield	hot asphalt	(Optional) Additional layer(s) base insulation	hot asphalt	None	Black Diamond Base Sheet	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-375.0
C-21.	Structural concrete	None	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 0.5-inch ACFoam-HD CoverBoard or H-Shield HD	M-OSFA or M-PG1	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-97.5
C-22.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA	(Optional) Additional layer(s) base insulation	M-OSFA	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-232.5
C-23.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-217.5
C-24.	Structural concrete	None	Min. 1-inch Styrofoam Brand Roofmate	M-OSFA or M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-210.0
C-25.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	None	N/A	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-195.0
C-26.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	M-PG1	(Optional) Additional layer(s) base insulation	M-PG1	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-270.0

©2019 NEMO ETC, LLC

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
SEE NOTE 16 FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Primer	Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
C-27.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-217.5
C-28.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	None	N/A	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-195.0
C-29.	Structural concrete	None	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1, 6-inch o.c.	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ACFoam-HD CoverBoard or H-Shield HD	M-OSFA or M-PG1, 6-inch o.c.	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-315.0
C-30.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	Insta Stik	(Optional) Additional layer(s) base insulation	Insta Stik	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-135.0
C-31.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	Insta Stik	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Insta Stik	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-217.5
C-32.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Insta Stik	None	N/A	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-195.0
C-33.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	OB500	(Optional) Additional layer(s) base insulation	OB500	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-135.0
C-34.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-217.5
C-35.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-195.0
C-36.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	Polyset BM or Polyset CRA	(Optional) Additional layer(s) base insulation	Polyset BM or Polyset CRA	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-270.0
C-37.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	Polyset BM or Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM or Polyset CRA	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-217.5

©2019 NEMO ETC, LLC

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
SEE NOTE 16 FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Primer	Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
C-38.	Structural concrete	None	Min. 1.5-inch, min. 1.5 pcf Insulfoam II Roofing EPS	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-180.0
C-39.	Structural concrete	None	Min. 1.5-inch, min. 2.0 pcf Insulfoam IX Roofing EPS	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-217.5
C-40.	Structural concrete	None	Min. 1.5-inch Styrofoam Brand Roofmate	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-217.5
C-41.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM or Polyset CRA	None	N/A	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, APP-TA	-195.0
CONVENTIONAL SYSTEMS:											
C-42.	Structural concrete	FlintPrime QD	Min. 1.5-inch ACFoam II	hot asphalt	Min. 0.25-inch DensDeck, DensDeck Prime	hot asphalt	None	SBS-TA	(Optional) SBS-TA	SBS-TA	-180.0
C-43.	Structural concrete	FlintPrime QD	(Optional) Min. 1.5-inch ACFoam II	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-180.0
C-44.	Structural concrete	FlintPrime QD	(Optional) Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-225.0
C-45.	Structural concrete	FlintPrime QD	(Optional) Min. 1.5-inch ACFoam II or H-Shield	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	None	APP-TA	(Optional) APP-TA	APP-TA	-252.5
C-46.	Structural concrete	FlintPrime QD	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	hot asphalt	Min. 0.5-inch Structodek High Density Fiberboard	hot asphalt	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-227.0
C-47.	Structural concrete	FlintPrime QD	(Optional) Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	None	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-232.5
C-48.	Structural concrete	FlintPrime QD	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	hot asphalt	Min. 0.25-inch DensDeck	hot asphalt	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-240.0
C-49.	Structural concrete	FlintPrime QD	Min. 1.5-inch ACFoam II	hot asphalt	Min. 0.75-inch FescoBoard (homogeneous)	hot asphalt	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-412.0

©2019 NEMO ETC, LLC

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
SEE NOTE 16 FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Primer	Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
C-50.	Structural concrete	FlintPrime QD	Min. 1.5-inch ACFoam II	hot asphalt	Min. 0.5-inch DuraBoard (homogeneous)	hot asphalt	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-430.0
C-51.	Structural concrete	FlintPrime QD	0.5-inch Structodek High Density Fiberboard or min. 0.75-inch Fesco Board (homogeneous)	hot asphalt	None	N/A	None	BP-AA	(Optional) BP-AA or SBS-AA	SBS-AA	-437.5
C-52.	Structural concrete	FlintPrime QD	0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	hot asphalt	None	N/A	None	SBS-TA	(Optional) SBS-AA or SBS-TA	SBS-AA	-302.5
C-53.	Structural concrete	FlintPrime QD	0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	hot asphalt	None	N/A	None	BP-AA	(Optional) BP-AA or SBS-AA	SBS-AA	-537.5
C-54.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA	Min. 0.5-inch Structodek High Density Fiberboard	M-OSFA	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-127.5
C-55.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-PG1	Min. 0.5-inch Structodek High Density Fiberboard	M-PG1	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-180.0
C-56.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA	Min. 0.25-inch DensDeck	M-OSFA	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-232.5
C-57.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-PG1	Min. 0.25-inch DensDeck	M-PG1	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-240.0
C-58.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	M-PG1	Min. 0.25-inch DensDeck Prime	M-PG1	None	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA	-297.5
C-59.	Structural concrete	None	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-225.0
C-60.	Structural concrete	None	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	None	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-232.5
C-61.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	None	APP-TA	(Optional) APP-TA	APP-TA	-252.5

©2019 NEMO ETC, LLC

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
SEE NOTE 16 FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Primer	Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
C-62.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	None	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA	-297.5
C-63.	Structural concrete	None	0.5-inch Structodek High Density Fiberboard	M-PG1	None	N/A	None	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-195.0
C-64.	Structural concrete	None	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-PG1	None	N/A	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-195.0
C-65.	Structural concrete	None	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1, 6-inch o.c.	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1, 6-inch o.c.	None	SBS-AA or SBS-TA	(Optional) SBS-AA or SBS-TA	SBS-AA	-315.0
C-66.	Structural concrete	None	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1, 6-inch o.c.	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1, 6-inch o.c.	None	Flintlastic STA or Flintlastic STA Plus	(Optional) APP-TA	APP-TA	-315.0
C-67.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	Insta Stik	Min. 0.25-inch DensDeck Prime	Insta Stik	None	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA	-297.5
C-68.	Structural concrete	None	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	Insta Stik	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Insta Stik	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-225.0
C-69.	Structural concrete	None	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	Insta Stik	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Insta Stik	None	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-232.5
C-70.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	Insta Stik	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Insta Stik	None	APP-TA	(Optional) APP-TA	APP-TA	-252.5
C-71.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	Insta Stik	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Insta Stik	None	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA	-297.5
C-72.	Structural concrete	None	0.5-inch Structodek High Density Fiberboard	Insta Stik	None	N/A	None	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-195.0
C-73.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Insta Stik	None	N/A	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-195.0

©2019 NEMO ETC, LLC

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
SEE NOTE 16 FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Primer	Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
C-74.	Structural concrete	None	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.5-inch Structodek High Density Fiberboard	OB500	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-120.0
C-75.	Structural concrete	None	Min. 1.5-inch ACFoam II	OB500	Min. 0.25-inch DensDeck or DensDeck Prime	OB500	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-150.0
C-76.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	OB500	Min. 0.25-inch DensDeck Prime	OB500	None	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA	-297.5
C-77.	Structural concrete	None	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-225.0
C-78.	Structural concrete	None	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-232.5
C-79.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	APP-TA	(Optional) APP-TA	APP-TA	-252.5
C-80.	Structural concrete	None	Min. 1.5-inch ACFoam II or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA	-297.5
C-81.	Structural concrete	None	0.5-inch Structodek High Density Fiberboard	OB500	None	N/A	None	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-195.0
C-82.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-195.0
C-83.	Structural concrete	None	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset BM or Polyset CRA	Min. 0.5-inch Structodek High Density Fiberboard	Polyset CRA	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-180.0
C-84.	Structural concrete	None	Min. 1-inch ENRGY 3, H-Shield, or H-Shield CG, min. 1.3-inch ACFoam III or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset BM or Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM or Polyset CRA	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-225.0
C-85.	Structural concrete	None	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset BM or Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM or Polyset CRA	None	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-232.5

©2019 NEMO ETC, LLC

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
SEE NOTE 16 FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Primer	Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
C-86.	Structural concrete	None	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset BM or Polyset CRA	Min. 0.25-inch DensDeck	Polyset BM or Polyset CRA	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-240.0
C-87.	Structural concrete	None	0.5-inch Structodek High Density Fiberboard	Polyset BM or Polyset CRA	None	N/A	None	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-195.0
C-88.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM or Polyset CRA	None	N/A	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-195.0
SPOT- OR STRIP-MOPPED SYSTEMS:											
C-89.	Structural concrete	FlintPrime QD	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	hot asphalt	(Optional) Additional layer(s) of base insulation	hot asphalt	None	BP-AA3, 24-inch grid	(Optional) BP-AA, SBS-AA	SBS-AA	-37.5
COLD-APPLIED SYSTEMS:											
C-90.	Structural concrete	None	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	M-OSFA or M-PG1	None	Flintlastic Poly SMS Base Sheet in Karnak #81	(Optional) Flintlastic Poly SMS Base Sheet in Karnak #81	SBS-CA1	-90.0
C-91.	Structural concrete	None	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 0.5-inch ACFoam-HD CoverBoard or H-Shield HD	M-OSFA or M-PG1	None	SBS-CA1	None	SBS-CA1	-97.5
C-92.	Structural concrete	None	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 0.5-inch ACFoam-HD CoverBoard or H-Shield HD	M-OSFA or M-PG1	None	SBS-CA4	None	SBS-CA4	-97.5
C-93.	Structural concrete	None	Min. 0.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	None	SBS-CA1	None	SBS-CA1	-105.0
C-94.	Structural concrete	None	Min. 0.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	None	SBS-CA4	None	SBS-CA4	-105.0
C-95.	Structural concrete	None	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1, 6-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	M-OSFA or M-PG1, 6-inch o.c.	None	Flintlastic Poly SMS Base Sheet in Karnak #81	(Optional) Flintlastic Poly SMS Base Sheet in Karnak #81	SBS-CA1	-112.5
C-96.	Structural concrete	None	(Optional) Min. 0.5-inch ACFoam II or H-Shield	OB500	Min. 1.5-inch ACFoam III or H-Shield CG	OB500	None	SBS-CA1	None	SBS-CA1	-82.5
C-97.	Structural concrete	None	Min. 0.5-inch ACFoam II or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	SBS-CA1	None	SBS-CA1	-105.0
C-98.	Structural concrete	None	Min. 0.5-inch ACFoam II or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	SBS-CA4	None	SBS-CA4	-105.0

©2019 NEMO ETC, LLC

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
SEE NOTE 16 FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Primer	Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
C-99.	Structural concrete	None	(Optional) Min. 0.5-inch ACFoam II or H-Shield	Polyset BM or Polyset CRA	Min. 1.5-inch ACFoam III or H-Shield CG	Polyset BM or Polyset CRA	None	SBS-CA1	None	SBS-CA1	-82.5
C-100.	Structural concrete	None	Min. 0.5-inch ACFoam II or H-Shield	Polyset BM or Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM or Polyset CRA	None	SBS-CA1	None	SBS-CA1	-105.0
C-101.	Structural concrete	None	Min. 0.5-inch ACFoam II or H-Shield	Polyset BM or Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM or Polyset CRA	None	SBS-CA4	None	SBS-CA4	-105.0

TABLE 3B: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-3: BONDED TEMP ROOF, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Primer	Temp Roof	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
				Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
COLD-APPLIED SYSTEMS:											
C-102.	Structural concrete	FlintPrime QD	Flintlastic SA PlyBase, self-adhered	(Optional) Min. 0.5-inch ACFoam II or H-Shield	OB500	Min. 1.5-inch ACFoam III or H-Shield CG	OB500	SBS-CA1	None	SBS-CA1	-82.5
C-103.	Structural concrete	FlintPrime QD	Flintlastic SA PlyBase, self-adhered	Min. 0.5-inch ACFoam II or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-CA1	None	SBS-CA1	-82.5
C-104.	Structural concrete	FlintPrime QD	Flintlastic SA PlyBase, self-adhered	Min. 0.5-inch ACFoam II or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-CA4	None	SBS-CA4	-82.5

©2019 NEMO ETC, LLC

TABLE 3C: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER						
System No.	Deck (Note 1)	Primer	Roof Cover (Note 15)			MDP (psf)
			Base Ply	Ply	Cap Ply	
SELF-ADHERING SYSTEMS:						
C-105.	Structural concrete	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-630.0
HYBRID SYSTEMS:						
C-106.	Structural concrete	FlintPrime QD	Flintlastic Ultra Glass SA	(Optional) SBS-AA	SBS-AA	-135.0
C-107.	Structural concrete	FlintPrime QD	SBS-SA-H	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-150.0
C-108.	Structural concrete	FlintPrime QD	Flintlastic Ultra Glass SA	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-322.5
C-109.	Structural concrete	FlintPrime QD	SBS-SA-H	(Optional) BP-AA, SBS-AA	SBS-AA	-240.0
C-110.	Structural concrete	FlintPrime QD	BP-AA, SBS-AA	SBS-SA-H	SBS-AA, SBS-TA, APP-TA	-635.0
CONVENTIONAL SYSTEMS:						
C-111.	Structural concrete	FlintPrime QD	APP-TA	(Optional) APP-TA	APP-TA	-420.0
C-112.	Structural concrete	FlintPrime QD	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-635.0
COLD-APPLIED SYSTEMS:						
C-113.	Structural concrete	FlintPrime QD	SBS-CA1	(Optional) SBS-CA1	SBS-CA1	-262.5

©2019 NEMO ETC, LLC

TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER										
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
CELCORE (FL2037):										
SELF-ADHERING SYSTEMS:										
LWC-1	Min. 22 ga., Type BV, Grade 33 steel, 6 ft span	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
LWC-2	Min. 22 ga., Type BV, Grade 33 steel, 6 ft span	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
LWC-3	Min. 22 ga., Type BV, Grade 33 steel, 6 ft span	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
LWC-4	Min. 22 ga., Type BV, Grade 33 steel, 6 ft span	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	Polyset BM	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
LWC-5	Min. 22 ga., Type BV, Grade 33 steel, 6 ft span	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
HYBRID SYSTEMS:										
LWC-6	Min. 22 ga., Type BV, Grade 33 steel, 6 ft span	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA, M-PG1, OB500, Polyset BM, Polyset CRA	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1, OB500, Polyset BM, Polyset CRA	SBS-SA-H	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-52.5
CONVENTIONAL SYSTEMS:										
LWC-7	Min. 22 ga., Type BV, Grade 33 steel, 6 ft span	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	BP-AA or SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-52.5
LWC-8	Min. 22 ga., Type BV, Grade 33 steel, 6 ft span	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	BP-AA or SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-52.5

©2019 NEMO ETC, LLC

TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER										
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)			MDP (psf)
			Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
LWC-9	Min. 22 ga., Type BV, Grade 33 steel, 6 ft span	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	BP-AA or SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-52.5
LWC-10	Min. 22 ga., Type BV, Grade 33 steel, 6 ft span	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	Polyset BM	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM	BP-AA or SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-52.5
LWC-11	Min. 22 ga., Type BV, Grade 33 steel, 6 ft span	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	BP-AA or SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-52.5
ELASTIZELL (FL4994):										
COLD APPLIED SYSTEMS:										
LWC-12	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span	Min. 350 psi, min 2-inch Range II Elastizell with Zell-Crete Fibers.	Min. 1.5-inch H-Shield CG	OB500, 6-inch o.c.	(Optional) Additional layers of base insulation	OB500, 6-inch o.c.	BP-CA3 or SBS-CA3	(Optional) BP-CA3 or SBS-CA3	SBS-CA3	-60.0
LWC-13	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span	Min. 350 psi, min 2-inch Range II Elastizell with Zell-Crete Fibers. When walkable, attach LWC with Trufast #14 HD with Trufast 3" Metal Insulation Plates at 1 per 8 ft^2 through to the structural deck.	Min. 1.5-inch H-Shield CG	OB500, 6-inch o.c.	(Optional) Additional layers of base insulation	OB500, 6-inch o.c.	BP-CA3 or SBS-CA3	(Optional) BP-CA3 or SBS-CA3	SBS-CA3	-67.5

©2019 NEMO ETC, LLC

TABLE 4B: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER											
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)				MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Primer	Base Ply	Ply	Cap Ply	
CELCORE (FL2037):											
SELF-ADHERING SYSTEMS:											
LWC-14	Structural concrete	Min. 300 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA	Min. 0.25-inch DensDeck	M-OSFA	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-90.0
LWC-15	Structural concrete	Min. 300 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-90.0
LWC-16	Structural concrete	Min. 300 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound and surfaced with Celcore Sanded Bonding Surface (SBS)	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
LWC-17	Structural concrete	Min. 300 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound and surfaced with Celcore Sanded Bonding Surface (SBS)	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA	Min. 0.25-inch DensDeck	M-OSFA	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
LWC-18	Structural concrete	Min. 300 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound and surfaced with Celcore Sanded Bonding Surface (SBS)	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-217.5
LWC-19	Structural concrete	Min. 300 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
LWC-20	Structural concrete	Min. 300 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound and surfaced with Celcore Sanded Bonding Surface (SBS)	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5

©2019 NEMO ETC, LLC

TABLE 4B: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER											
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)				MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Primer	Base Ply	Ply	Cap Ply	
LWC-21	Structural concrete	Min. 300 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-PG1	Min. 0.25-inch DensDeck	M-PG1	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
LWC-22	Structural concrete	Min. 300 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound and surfaced with Celcore Sanded Bonding Surface (SBS)	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-PG1	Min. 0.25-inch DensDeck	M-PG1	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
LWC-23	Structural concrete	Min. 300 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-240.0
LWC-24	Structural concrete	Min. 300 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound and surfaced with Celcore Sanded Bonding Surface (SBS)	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-232.5
LWC-25	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
LWC-26	Structural concrete	Min. 200 psi, min. 2-inch Celcore Cellular Concrete	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
LWC-27	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
LWC-28	Structural concrete	Min. 200 psi, min. 2-inch Celcore Cellular Concrete	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset CRA	Min. 0.25-inch DensDeck	Polyset CRA	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-180.0
HYBRID SYSTEMS:											

©2019 NEMO ETC, LLC

TABLE 4B: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER											
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)				MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Primer	Base Ply	Ply	Cap Ply	
LWC-29	Structural concrete	Min. 300 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound	One or more layer(s), min. 1.5-inch ACFoam II or H-Shield	M-OSFA	(Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-90.0
LWC-30	Structural concrete	Min. 300 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound and surfaced with Celcore Sanded Bonding Surface (SBS)	One or more layer(s), min. 1.5-inch ACFoam II or H-Shield	M-OSFA	(Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-217.5
LWC-31	Structural concrete	Min. 300 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound and surfaced with Celcore Sanded Bonding Surface (SBS)	One or more layer(s), min. 1.5-inch ACFoam II or H-Shield	M-PG1	(Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-PG1	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-232.5
LWC-32	Structural concrete	Min. 300 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound	One or more layer(s), min. 1.5-inch ACFoam II or H-Shield	M-PG1	(Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-PG1	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-240.0
LWC-33	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	OB500	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-215.0
LWC-34	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	Polyset BM or Polyset CRA	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM or Polyset CRA	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-215.0
CONVENTIONAL SYSTEMS:											
LWC-35	Structural concrete	Min. 300 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-90.0
LWC-36	Structural concrete	Min. 300 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound and surfaced with Celcore Sanded Bonding Surface (SBS)	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-217.5

©2019 NEMO ETC, LLC

TABLE 4B: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER											
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)				MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Primer	Base Ply	Ply	Cap Ply	
LWC-37	Structural concrete	Min. 300 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-PG1	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-PG1	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-240.0
LWC-38	Structural concrete	Min. 300 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound and surfaced with Celcore Sanded Bonding Surface (SBS)	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-PG1	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-PG1	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-232.5
LWC-39	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-215.0
LWC-40	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	Polyset BM	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-215.0
LWC-41	Structural concrete	Min. 200 psi, min. 2-inch Celcore Cellular Concrete	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset CRA	Min. 0.5-inch Structodek High Density Fiberboard	Polyset CRA	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-180.0
LWC-42	Structural concrete	Min. 200 psi, min. 2-inch Celcore Cellular Concrete	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or DensDeck or DensDeck Prime	Polyset CRA	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-180.0
LWC-43	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-215.0
ELASTIZELL (FL4994):											
SELF-ADHERING SYSTEMS:											
LWC-44	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	Min. 1.5-inch ACFoam II or ENRGY 3	OB500	Min. 0.25-inch DensDeck	OB500	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-150.0
LWC-45	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5

©2019 NEMO ETC, LLC

TABLE 4B: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER											
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)				MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Primer	Base Ply	Ply	Cap Ply	
LWC-46	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
LWC-47	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset CRA	Min. 0.25-inch DensDeck	Polyset CRA	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-180.0
CONVENTIONAL SYSTEMS:											
LWC-48	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	Min. 1.5-inch ACFoam II	OB500	Min. 0.25-inch DensDeck or DensDeck Prime	OB500	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-150.0
LWC-49	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-225.0
LWC-50	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset CRA	Min. 0.5-inch Structodek High Density Fiberboard	Polyset CRA	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-180.0
LWC-51	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or DensDeck or DensDeck Prime	Polyset CRA	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-180.0
COLD APPLIED SYSTEMS:											
LWC-52	Structural concrete	Min. 350 psi, min 2-inch Elastizell with Zell-Crete Fibers.	Min. 1.5-inch H-Shield CG	OB500, 6-inch o.c.	(Optional) Additional layers of base insulation	OB500, 6-inch o.c.	None	BP-CA3 or SBS-CA3	(Optional) BP-CA3 or SBS-CA3	SBS-CA3	-60.0
LWC-53	Structural concrete	Min. 350 psi, min 2-inch Range II Elastizell with Zell-Crete Fibers. When walkable, attach LWC with Trufast #14HD with Trufast 3" Metal Insulation Plates at 1 per 8 ft^2 through to the structural deck.	Min. 1.5-inch H-Shield CG	OB500, 6-inch o.c.	(Optional) Additional layers of base insulation	OB500, 6-inch o.c.	None	BP-CA3 or SBS-CA3	(Optional) BP-CA3 or SBS-CA3	SBS-CA3	-67.5

©2019 NEMO ETC, LLC

TABLE 4C: LIGHTWEIGHT INSULATING CONCRETE OVER STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: LWC TO DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER												
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Vapor Barrier	Base Insulation Layer		Coverboard		Primer	Roof Cover (Note 15)			MDP (psf)
				Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		Base Ply	Ply	Cap Ply	
PRE-EXISTENT CELLULAR LWC:												
SELF-ADHERING SYSTEMS:												
LWC-54	Min. 22 ga., Type BV, Grade 40 steel	Min. 400 psi, Min. 2-inch, pre-existent cellular lightweight concrete, Repair LWC spalls with Celcore SBS (Sanded Bonding Surface)	Flintlastic Ultra Poly SMS Base Sheet applied in HB Fuller "Millennium Hurricane Force Membrane Adhesive HS", ribbons max. 6-inch o.c. 3-inch wide side laps and 6-inch wide end laps are hot-air-welded, torch-welded or sealed with HB Fuller "Millennium Hurricane Force Lap and Flashing Adhesive"	One or more layers, min. 2-inch ACFoam II or H-Shield	M-OSFA or M-PG1	(Optional) 0.5-in. DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-67.5
HYBRID SYSTEMS:												
LWC-55	Min. 22 ga., Type BV, Grade 40 steel	Min. 400 psi, Min. 2-inch, pre-existent cellular lightweight concrete, Repair LWC spalls with Celcore SBS (Sanded Bonding Surface)	Flintlastic Ultra Poly SMS Base Sheet applied in HB Fuller "Millennium Hurricane Force Membrane Adhesive HS", ribbons max. 6-inch o.c. 3-inch wide side laps and 6-inch wide end laps are hot-air-welded, torch-welded or sealed with HB Fuller "Millennium Hurricane Force Lap and Flashing Adhesive"	One or more layers, min. 2-inch ACFoam II or H-Shield	M-OSFA or M-PG1	0.5-in. DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	(Optional) FlintPrime QD	SBS-SA-H	(Optional) SBS-TA or APP-TA	APP-TA	-67.5
CONVENTIONAL SYSTEMS:												
LWC-56	Min. 22 ga., Type BV, Grade 40 steel	Min. 400 psi, Min. 2-inch, pre-existent cellular lightweight concrete, Repair LWC spalls with Celcore SBS (Sanded Bonding Surface)	Flintlastic Ultra Poly SMS Base Sheet applied in HB Fuller "Millennium Hurricane Force Membrane Adhesive HS", ribbons max. 6-inch o.c. 3-inch wide side laps and 6-inch wide end laps are hot-air-welded, torch-welded or sealed with HB Fuller "Millennium Hurricane Force Lap and Flashing Adhesive"	One or more layers, min. 2-inch ACFoam II or H-Shield	M-OSFA or M-PG1	0.5-in. DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	(Optional) FlintPrime QD	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-67.5
ELASTIZELL (FL4994):												
SELF-ADHERING SYSTEMS:												
LWC-57	Structural Concrete	Min. 420 psi, min. 2-inch Elastizell	All Weather/Empire Base Sheet or Flintglas MS Cap (inverted) applied in HB Fuller "Millennium Hurricane Force Membrane Adhesive HS", ribbons max. 6-inch o.c., 3-inch wide side laps and 6-inch wide end laps are sealed with HB Fuller "Millennium Hurricane Force Lap and Flashing Adhesive"	One or more layers, min. 2-inch ACFoam II or H-Shield	M-OSFA or M-PG1	(Optional) 0.5-in. DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-67.5

©2019 NEMO ETC, LLC

TABLE 4c: LIGHTWEIGHT INSULATING CONCRETE OVER STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: LWC TO DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER												
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Vapor Barrier	Base Insulation Layer		Coverboard		Primer	Roof Cover (Note 15)			MDP (psf)
				Type	Attach (Notes 6&7)	Type	Attach (Notes 6&7)		Base Ply	Ply	Cap Ply	
LWC-58	Structural Concrete	Min. 420 psi, min. 2-inch Elastizell	Flintlastic Ultra Poly SMS Base Sheet applied in HB Fuller "Millennium Hurricane Force Membrane Adhesive HS", ribbons max. 6-inch o.c., 3-inch wide side laps and 6-inch wide end laps are hot-air-welded, torch-welded or sealed with HB Fuller "Millennium Hurricane Force Lap and Flashing Adhesive"	One or more layers, min. 2-inch ACFoam II or H-Shield	M-OSFA or M-PG1	(Optional) 0.5-in. DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-67.5
HYBRID SYSTEMS:												
LWC-59	Structural Concrete	Min. 420 psi, min. 2-inch Elastizell	All Weather/Empire Base Sheet or Flintglas MS Cap (inverted) applied in HB Fuller "Millennium Hurricane Force Membrane Adhesive HS", ribbons max. 6-inch o.c., 3-inch wide side laps and 6-inch wide end laps are sealed with HB Fuller "Millennium Hurricane Force Lap and Flashing Adhesive"	One or more layers, min. 2-inch ACFoam II or H-Shield	M-OSFA or M-PG1	0.5-in. DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	(Optional) FlintPrime QD	SBS-SA-H	(Optional) SBS-TA or APP-TA	APP-TA	-67.5
LWC-60	Structural Concrete	Min. 420 psi, min. 2-inch Elastizell	Flintlastic Ultra Poly SMS Base Sheet applied in HB Fuller "Millennium Hurricane Force Membrane Adhesive HS", ribbons max. 6-inch o.c., 3-inch wide side laps and 6-inch wide end laps are hot-air-welded, torch-welded or sealed with HB Fuller "Millennium Hurricane Force Lap and Flashing Adhesive"	One or more layers, min. 2-inch ACFoam II or H-Shield	M-OSFA or M-PG1	0.5-in. DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	(Optional) FlintPrime QD	SBS-SA-H	(Optional) SBS-TA or APP-TA	APP-TA	-67.5
CONVENTIONAL SYSTEMS:												
LWC-61	Structural Concrete	Min. 420 psi, min. 2-inch Elastizell	All Weather/Empire Base Sheet or Flintglas MS Cap (inverted) applied in HB Fuller "Millennium Hurricane Force Membrane Adhesive HS", ribbons max. 6-inch o.c., 3-inch wide side laps and 6-inch wide end laps are sealed with HB Fuller "Millennium Hurricane Force Lap and Flashing Adhesive"	One or more layers, min. 2-inch ACFoam II or H-Shield	M-OSFA or M-PG1	0.5-in. DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	(Optional) FlintPrime QD	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-67.5
LWC-62	Structural Concrete	Min. 420 psi, min. 2-inch Elastizell	Flintlastic Ultra Poly SMS Base Sheet applied in HB Fuller "Millennium Hurricane Force Membrane Adhesive HS", ribbons max. 6-inch o.c., 3-inch wide side laps and 6-inch wide end laps are hot-air-welded, torch-welded or sealed with HB Fuller "Millennium Hurricane Force Lap and Flashing Adhesive"	One or more layers, min. 2-inch ACFoam II or H-Shield	M-OSFA or M-PG1	0.5-in. DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	(Optional) FlintPrime QD	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-67.5

©2019 NEMO ETC, LLC

TABLE 4D: LIGHTWEIGHT CONCRETE OVER STEEL 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)	Lightweight Concrete (Note 14)			Anchor Sheet			Insulation			Roof Cover (Note 15)			MDP (psf)
		Deck Treatment	Type	Surface Treatment	Type	Fasteners	Attach	Base	Top	Attach	Base Ply	Ply	Cap Ply	
PRE-EXISTENT CELLULAR LWC:														
SPOT- OR STRIP-MOPPED SYSTEMS:														
LWC-63	Min. 22 ga. steel or structural concrete deck.	None	Min 350 psi, min 2-inch pre-existent cellular LWIC	None	Flintglas MS Cap (inverted)	Trufast Twin-Loc Nails	9-inch o.c. at the 4-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch ACFoam II	(Optional) Additional layers base insulation	Hot asphalt	BP-AA4, 18-inch o.c.	(Optional) BP-AA, SBS-AA	SBS-AA	-60.0
	Note:	*To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 88 lbf when tested per ANSI/SPRI FX-1 or TAS 105.*												
CELCORE (FL2037):														
SELF-ADHERING SYSTEMS:														
LWC-64	Min. 22 ga., type BV, Grade 40 steel, 6 ft span	Celcore S-1 Deck Preparation	Min. 470 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound	All Weather/Empire Base Sheet, Glasbase Base Sheet or Flintlastic Base 20 or Flintglas MS Cap (inverted)	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	Min. 1.5" ACFoam II	(Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface shall be primed with FlintPrime QD.	hot asphalt	SBA-SA	(Optional) SBS-SA	SBS-SA	-60.0
HYBRID SYSTEMS:														
LWC-65	Min. 22 ga., type BV, Grade 40 steel, 6 ft span	Celcore S-1 Deck Preparation	Min. 470 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound	All Weather/Empire Base Sheet, Glasbase Base Sheet or Flintlastic Base 20 or Flintglas MS Cap (inverted)	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	Min. 1.5" ACFoam II	(Optional) Min. 0.125-inch STURDY-DEK Asphaltic Cover Board or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface may be optionally primed with FlintPrime QD.	hot asphalt	SBS-SA-H	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-60.0
CONVENTIONAL SYSTEMS:														

©2019 NEMO ETC, LLC

TABLE 4D: LIGHTWEIGHT CONCRETE OVER STEEL 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)	Lightweight Concrete (Note 14)			Anchor Sheet			Insulation			Roof Cover (Note 15)			MDP (psf)
		Deck Treatment	Type	Surface Treatment	Type	Fasteners	Attach	Base	Top	Attach	Base Ply	Ply	Cap Ply	
LWC-66	Min. 22 ga., type BV, Grade 40 steel, 6 ft span	Celcore S-1 Deck Preparation	Min. 470 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound	All Weather/Empire Base Sheet, Glasbase Base Sheet or Flintlastic Base 20 or Flintglas MS Cap (inverted)	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	Min. 1.5" ACFoam II	Min. 0.125-inch STURDY-DEK Asphaltic Cover Board, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.75-inch Fesco Board (homogeneous)	hot asphalt	BP-AA or SBS-AA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-60.0
LWC-67	Min. 22 ga., type BV, Grade 40 steel, 6 ft span	Celcore S-1 Deck Preparation	Min. 470 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound	All Weather/Empire Base Sheet, Glasbase Base Sheet or Flintlastic Base 20 or Flintglas MS Cap (inverted)	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	Min. 1.5" ACFoam II	Min. 0.125-inch STURDY-DEK Asphaltic Cover Board or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface may be optionally primed with FlintPrime QD.	hot asphalt	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-60.0
ELASTIZELL (FL4994):														
SELF-ADHERING SYSTEMS:														
LWC-68	Min. 22 ga., type BV, Grade 40 steel, 6 ft span	None	Min. 490 psi, min. 2-inch Elastizell with Zell-Crete Fibers	None	All Weather/Empire Base Sheet, Glasbase Base Sheet or Flintlastic Base 20 or Flintglas MS Cap (inverted)	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	Min. 1.5" ACFoam II	(Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface shall be primed with FlintPrime QD.	hot asphalt	SBA-SA	(Optional) SBS-SA	SBS-SA	-67.5
HYBRID SYSTEMS:														
LWC-69	Min. 22 ga., type BV, Grade 40 steel, 6 ft span	None	Min. 490 psi, min. 2-inch Elastizell with Zell-Crete Fibers	None	All Weather/Empire Base Sheet, Glasbase Base Sheet or Flintlastic Base 20 or Flintglas MS Cap (inverted)	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	Min. 1.5" ACFoam II	(Optional) Min. 0.125-inch STURDY-DEK Asphaltic Cover Board or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface may be optionally primed with FlintPrime QD.	hot asphalt	SBS-SA-H	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-67.5
CONVENTIONAL SYSTEMS:														

©2019 NEMO ETC, LLC

TABLE 4D: LIGHTWEIGHT CONCRETE OVER STEEL 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)	Lightweight Concrete (Note 14)			Anchor Sheet			Insulation			Roof Cover (Note 15)			MDP (psf)
		Deck Treatment	Type	Surface Treatment	Type	Fasteners	Attach	Base	Top	Attach	Base Ply	Ply	Cap Ply	
LWC-70	Min. 22 ga., type BV, Grade 40 steel, 6 ft span	None	Min. 490 psi, min. 2-inch Elastizell with Zell-Crete Fibers	None	All Weather/Empire Base Sheet, Glasbase Base Sheet or Flintlastic Base 20 or Flintglas MS Cap (inverted)	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	Min. 1.5" ACFoam II	Min. 0.125-inch STURDY-DEK Asphaltic Cover Board, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.75-inch Fesco Board (homogeneous)	hot asphalt	BP-AA or SBS-AA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-67.5
LWC-71	Min. 22 ga., type BV, Grade 40 steel, 6 ft span	None	Min. 490 psi, min. 2-inch Elastizell with Zell-Crete Fibers	None	All Weather/Empire Base Sheet, Glasbase Base Sheet or Flintlastic Base 20 or Flintglas MS Cap (inverted)	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	Min. 1.5" ACFoam II	Min. 0.125-inch STURDY-DEK Asphaltic Cover Board or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface may be optionally primed with FlintPrime QD.	hot asphalt	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-67.5
SPOT- OR STRIP-MOPPED SYSTEMS:														
LWC-72	Min. 22 ga. steel or structural concrete deck.	None	Min 350 psi, min 2-inch Elastizell cellular LWIC	None	Flintglas MS Cap (inverted)	Trufast FM-90 Base Ply Fasteners	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch ACFoam II	(Optional) Additional layers base insulation	Hot asphalt	BP-AA3, 18-inch grid	(Optional) BP-AA, SBS-AA	SBS-AA	-37.5*

©2019 NEMO ETC, LLC

TABLE 4E: LIGHTWEIGHT CONCRETE DECKS OVER STEEL OR STRUCTURAL CONCRETE DECK – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E-2: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER										
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)			Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Deck Treatment	LWC	Surface Treatment	Type	Fasteners	Attach	Base Ply	Cap Ply	
PRE-EXISTENT CELLULAR LIGHTWEIGHT CONCRETE:										
SELF-ADHERING SYSTEMS:										
LWC-73	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span or structural concrete	None	Min. 300 psi, min. 2-inch pre-existent cellular lightweight insulating concrete.	None	Flintlastic SA NailBase	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8")	7-inch o.c. at the min. 2-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows, FlintPrime QD at stress plates	SBS-SA	SBS-SA	-60.0
	Note:	*To qualify the LWIC under this assembly, a 1.8-inch Trufast Twin Loc-Nail Assembled Fastener shall achieve an average withdrawal of 73 lbf when tested per ANSI/SPRI FX-1 or TAS 105*								
LWC-74	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span or structural concrete	None	Min. 300 psi, min. 2-inch pre-existent cellular lightweight insulating concrete.	None	Flintlastic SA NailBase	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8")	9-inch o.c. at the min. 2-inch lap and 9-inch o.c. in two (2), equally spaced, staggered center rows, FlintPrime QD at stress plates	SBS-SA	SBS-SA	-60.0
	Note:	*To qualify the LWIC under this assembly, a 1.8-inch Trufast Twin Loc-Nail Assembled Fastener shall achieve an average withdrawal of 93 lbf when tested per ANSI/SPRI FX-1 or TAS 105*								
HYBRID SYSTEMS:										
LWC-75	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span or structural concrete	None	Min. 300 psi, min. 2-inch pre-existent cellular lightweight insulating concrete.	None	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8")	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-60.0
	Note:	*To qualify the LWIC under this assembly, a 1.8-inch Trufast Twin Loc-Nail Assembled Fastener shall achieve an average withdrawal of 88 lbf when tested per ANSI/SPRI FX-1 or TAS 105*								
LWC-76	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span or structural concrete	None	Min. 350 psi, min. 3-inch pre-existent cellular lightweight insulating concrete.	None	Flintlastic Base 20 or Flintlastic Poly SMS Base Sheet	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-67.5
	Note:	*To qualify the LWIC under this assembly, a 1.8-inch Trufast Twin Loc-Nail Assembled Fastener shall achieve an average withdrawal of 97 lbf when tested per ANSI/SPRI FX-1 or TAS 105*								
LWC-77	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span or structural concrete	None	Min. 300 psi, min. 2-inch pre-existent cellular lightweight insulating concrete.	None	Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8")	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-75.0
	Note:	*To qualify the LWIC under this assembly, a 1.8-inch Trufast Twin Loc-Nail Assembled Fastener shall achieve an average withdrawal of 110 lbf when tested per ANSI/SPRI FX-1 or TAS 105*								
CONVENTIONAL SYSTEMS:										

©2019 NEMO ETC, LLC

TABLE 4E: LIGHTWEIGHT CONCRETE DECKS OVER STEEL OR STRUCTURAL CONCRETE DECK – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E-2: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER										
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)			Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Deck Treatment	LWC	Surface Treatment	Type	Fasteners	Attach	Base Ply	Cap Ply	
LWC-78	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span or structural concrete	None	Min. 300 psi, min. 2-inch pre-existent cellular lightweight insulating concrete.	None	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet or Flintglas MS Cap (inverted)	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8")	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-60.0
	Note:	*To qualify the LWIC under this assembly, a 1.8-inch Trufast Twin Loc-Nail Assembled Fastener shall achieve an average withdrawal of 88 lbf when tested per ANSI/SPRI FX-1 or TAS 105*								
LWC-79	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span or structural concrete	None	Min. 300 psi, min. 2-inch pre-existent cellular lightweight insulating concrete.	None	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet or Flintglas MS Cap (inverted)	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8")	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA or APP-TA	-67.5
	Note:	*To qualify the LWIC under this assembly, a 1.8-inch Trufast Twin Loc-Nail Assembled Fastener shall achieve an average withdrawal of 77 lbf when tested per ANSI/SPRI FX-1 or TAS 105*								
LWC-80	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span or structural concrete	None	Min. 350 psi, min. 3-inch pre-existent cellular lightweight insulating concrete.	None	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintglas MS Cap (inverted)	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-67.5
	Note:	*To qualify the LWIC under this assembly, a 1.8-inch Trufast Twin Loc-Nail Assembled Fastener shall achieve an average withdrawal of 97 lbf when tested per ANSI/SPRI FX-1 or TAS 105*								
LWC-81	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span or structural concrete	None	Min. 300 psi, min. 2-inch pre-existent cellular lightweight insulating concrete.	None	Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8")	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-75.0
	Note:	*To qualify the LWIC under this assembly, a 1.8-inch Trufast Twin Loc-Nail Assembled Fastener shall achieve an average withdrawal of 110 lbf when tested per ANSI/SPRI FX-1 or TAS 105*								
CELCORE (FL2037):										
SELF-ADHERING SYSTEMS:										
LWC-82	Min. 22 ga., type BV, Grade 40 steel, 6 ft span	Celcore S-1 Deck Preparation	Min. 470 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound	Flintlastic SA NailBase	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	SBS-SA	SBS-SA	-45.0
HYBRID SYSTEMS:										
LWC-83	Min. 22 ga., type BV, Grade 40 steel, 6 ft span	Celcore S-1 Deck Preparation	Min. 470 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound	All Weather/Empire Base Sheet, Glasbase Base Sheet or Flintlastic Base 20	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-45.0

©2019 NEMO ETC, LLC

TABLE 4E: LIGHTWEIGHT CONCRETE DECKS OVER STEEL OR STRUCTURAL CONCRETE DECK – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E-2: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER										
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)			Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Deck Treatment	LWC	Surface Treatment	Type	Fasteners	Attach	Base Ply	Cap Ply	
LWC-84	Min. 22 ga., type BV, Grade 40 steel, 6 ft span	Celcore S-1 Deck Preparation	Min. 470 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound	Flintglas MS Cap (inverted) primed with FlintPrime QD	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-45.0
CONVENTIONAL SYSTEMS:										
LWC-85	Min. 22 ga., type BV, Grade 40 steel, 6 ft span	Celcore S-1 Deck Preparation	Min. 470 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound	All Weather/Empire Base Sheet, Glasbase Base Sheet or Flintlastic Base 20 or Flintglas MS Cap (inverted)	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0
LWC-86	Min. 22 ga., type B steel at max. 5 ft spans structural concrete	None	Min. 300 psi, min 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture.	Celcore PVA Curing Compound	All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet	Trufast FM-90 Base Sheet Fasteners	9-inch o.c. at 4-inch laps and 12-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA	-60.0
LWC-87	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span or structural concrete	None	Min. 300 psi, min 2-inch Celcore Cellular Concrete.	Celcore PVA Curing Compound	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet or Flintglas MS Cap (inverted)	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA or APP-TA	-75.0
CONCRECEL (FL5584 & FL10500):										
CONVENTIONAL SYSTEMS:										
LWC-88	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span or structural concrete	Concrecel Bonding Agent	Min. 300 psi, min 2¼-inch Concrecel Concrete.	Concrecel Curing Compound	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet or Flintglas MS Cap (inverted)	OMG CR Base Ply Fasteners (1.7)	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-AA or SBS-AA	SBS-AA or APP-TA	-52.5
ELASTIZELL (FL4994):										
SELF-ADHERING SYSTEMS:										
LWC-89	Min. 22 ga., type BV, Grade 40 steel, 6 ft span	None	Min. 490 psi, min. 2-inch Elastizell with Zell-Crete Fibers	None	Flintlastic SA NailBase	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	SBS-SA	SBS-SA	-45.0
HYBRID SYSTEMS:										

©2019 NEMO ETC, LLC

TABLE 4E: LIGHTWEIGHT CONCRETE DECKS OVER STEEL OR STRUCTURAL CONCRETE DECK – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E-2: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER										
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)			Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Deck Treatment	LWC	Surface Treatment	Type	Fasteners	Attach	Base Ply	Cap Ply	
LWC-90	Min. 26 ga. steel at max 5 ft spans or structural concrete	None	Min. 200 psi, min 2-inch Elastizell.	None	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet or Flintlastic Poly SMS Base Sheet	Trufast FM-90 Base Sheet Fasteners or Trufast Twin Loc-Nail Assembled Fasteners (1.8 inch)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-30.0
LWC-91	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span or structural concrete	None	Min. 200 psi, min 2-inch Elastizell.	None	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet or Flintlastic Poly SMS Base Sheet	Trufast FM-90 Base Sheet Fasteners or Trufast Twin Loc-Nail Assembled Fasteners (1.8 inch)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-45.0
LWC-92	Min. 22 ga., type BV, Grade 40 steel, 6 ft span	None	Min. 490 psi, min. 2-inch Elastizell with Zell-Crete Fibers	None	All Weather/Empire Base Sheet, Glasbase Base Sheet or Flintlastic Base 20	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-45.0
LWC-93	Min. 22 ga., type BV, Grade 40 steel, 6 ft span	None	Min. 490 psi, min. 2-inch Elastizell with Zell-Crete Fibers	None	Flintglas MS Cap (inverted) primed with FlintPrime QD	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	SBS-SA-H	SBS-AA or APP-TA	-45.0
CONVENTIONAL SYSTEMS:										
LWC-94	Min. 26 ga. steel at max 5 ft spans or structural concrete	None	Min. 200 psi, min 2-inch Elastizell.	None	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet or Flintglas MS Cap (inverted)	Trufast FM-90 Base Sheet Fasteners or Trufast Twin Loc-Nail Assembled Fasteners (1.8 inch)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-30.0
LWC-95	Min. 26 ga. steel at max 5 ft spans or structural concrete	None	Min. 200 psi, min 2-inch Elastizell.	None	Flintlastic APP Base T	Trufast FM-90 Base Sheet Fasteners	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-30.0
LWC-96	Min. 22 ga., type BV, Grade 40 steel, 6 ft span	None	Min. 490 psi, min. 2-inch Elastizell with Zell-Crete Fibers	None	All Weather/Empire Base Sheet, Glasbase Base Sheet or Flintlastic Base 20 or Flintglas MS Cap (inverted)	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0
LWC-97	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span or structural concrete	None	Min. 200 psi, min 2-inch Elastizell.	None	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet or Flintglas MS Cap (inverted)	Trufast FM-90 Base Sheet Fasteners or Trufast Twin Loc-Nail Assembled Fasteners (1.8 inch)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0

©2019 NEMO ETC, LLC

TABLE 4E: LIGHTWEIGHT CONCRETE DECKS OVER STEEL OR STRUCTURAL CONCRETE DECK – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E-2: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER										
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)			Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Deck Treatment	LWC	Surface Treatment	Type	Fasteners	Attach	Base Ply	Cap Ply	
LWC-98	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span or structural concrete	None	Min. 200 psi, min 2-inch Elastizell.	None	Flintlastic APP Base T	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-45.0
COLD APPLIED SYSTEMS:										
LWC-99	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span or structural concrete	None	Min. 350 psi, min 2-inch Range II Elastizell with Zell-Crete Fibers.	None	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0
LWC-100	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span	None	Min. 350 psi, min 2-inch Range II Elastizell with Zell-Crete Fibers.	None	Glasbase Base Sheet, Flintlastic Poly SMS Base Sheet	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-CA3 or SBS-CA3	SBS-CA3	-52.5
LWC-101	Structural concrete	None	Min. 350 psi, min 2-inch Range II Elastizell with Zell-Crete Fibers.	None	Glasbase Base Sheet, Flintlastic Poly SMS Base Sheet	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-CA3 or SBS-CA3	SBS-CA3	-60.0
MEARLCRETE (FL13492):										
CONVENTIONAL SYSTEMS:										
LWC-102	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span or structural concrete	None	Min. 250 psi, min 2-inch Mearlcrete.	None	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet or Flintglas MS Cap (inverted)	OMG CR Base Ply Fasteners (1.7)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-AA or SBS-AA	SBS-AA or APP-TA	-45.0
LWC-103	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span or structural concrete	None	Min. 250 psi, min 2-inch Mearlcrete.	None	Flintlastic Poly SMS Base Sheet	OMG CR Base Ply Fasteners (1.7)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-AA or SBS-AA	SBS-AA or APP-TA	-52.5
LWC-104	Min. 22 ga., Type BV, Grade 33 steel, 5 ft span or structural concrete	None	Min. 300 psi, min 2-inch Mearlcrete.	None	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet or Flintglas MS Cap (inverted)	OMG CR Base Ply Fasteners (1.7)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-AA or SBS-AA	SBS-AA or APP-TA	-52.5

©2019 NEMO ETC, LLC

TABLE 4F: LIGHTWEIGHT CONCRETE DECKS – REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER									
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)		Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Surfacing	Base	Fasteners	Spacing	Base Ply	Cap Ply	
PRE-EXISTENT CELLULAR LWC:									
LWC-105	Min. 22 ga., Type BV, Grade 40 steel	Min. 470 psi, Min. 2-inch, pre-existent cellular lightweight concrete	For reroof (tear-off), repair LWC spalls with Celcore SBS (Sanded Bonding Surface)	Flintlastic Ultra Poly SMS Base Sheet	Trufast Versa Fasteners (min. 2.25") & Plates, two (2) screws per plate at 180° from each other*	9-inch o.c. within the min. 5-inch wide, heat-welded side laps	(Optional) SBS-TA or APP-TA	APP-TA	-75.0
	Note:	**Field withdrawal resistance testing (Note 11) shall yield minimum 322 lbf. Additional Versa-Fast Fasteners within each Versa-Fast Plate may be utilized to produce minimum withdrawal resistance. For recover installations, screws shall be of sufficient length for minimum 2.25" embedment into the existing LWC assembly.*							

TABLE 4G: LIGHTWEIGHT CONCRETE DECKS – REROOF (TEAR-OFF) SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER						
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)		Roof Cover (Note 15)		MDP (psf)
		Type	Surfacing	Base Ply	Cap Ply	
PRE-EXISTENT CELLULAR LWC:						
LWC-106	Min. 22 ga., Type BV, Grade 40 steel	Min. 400 psi, Min. 2-inch, pre-existent cellular lightweight concrete	Repair LWC spalls with Celcore SBS (Sanded Bonding Surface)	Flintlastic Ultra Poly SMS Base Sheet applied in HB Fuller "Millennium Hurricane Force Membrane Adhesive HS", ribbons max. 6-inch o.c. 3-inch wide side laps and 6-inch wide end laps are hot-air-welded, torch-welded or sealed with HB Fuller "Millennium Hurricane Force Lap and Flashing Adhesive"	SBS-CA1 or SBS-CA4	-75.0
LWC-107	Min. 22 ga., Type BV, Grade 40 steel	Min. 400 psi, Min. 2-inch, pre-existent cellular lightweight concrete	Repair LWC spalls with Celcore SBS (Sanded Bonding Surface)	Flintlastic Ultra Poly SMS Base Sheet applied in HB Fuller "Millennium Hurricane Force Membrane Adhesive HS", ribbons max. 6-inch o.c. 3-inch wide side laps and 6-inch wide end laps are hot-air-welded, torch-welded or sealed with HB Fuller "Millennium Hurricane Force Lap and Flashing Adhesive"	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, or Flintlastic GMS, applied in HB Fuller "Millennium Hurricane Force Membrane Adhesive HS", continuous ribbons maximum 6-inch o.c. 3-inch wide side laps and 6-inch wide end laps are hot-air-welded, torch-welded or sealed with HB Fuller "Millennium Hurricane Force Lap and Flashing Adhesive"	-97.5

©2019 NEMO ETC, LLC

TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER										
System No.	Deck (Notes 1&12)	Base Insulation Layer		Top Insulation Layer		Primer	Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
SELF-ADHERING SYSTEMS:										
CWF-1.	Tectum	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA	(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.	M-OSFA	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-60.0
CWF-2.	Tectum	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA, 6-inch o.c.	(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.	M-OSFA, 6-inch o.c.	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-90.0
CWF-3.	Existing Tectum (re-roof only)	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	OB500	Min. 0.25-inch DensDeck	OB500	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*
CWF-4.	Existing Tectum (re-roof only)	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*
CWF-5.	Tectum	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset BM or Polyset CRA	Min. 0.25-inch DensDeck	Polyset BM or Polyset CRA	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
CWF-6.	Tectum	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset BM or Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM or Polyset CRA	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
HYBRID SYSTEMS:										
CWF-7.	Tectum	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA	(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.	M-OSFA	None	SBS-SA-H	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-60.0
CWF-8.	Tectum	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA, 6-inch o.c.	(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.	M-OSFA, 6-inch o.c.	None	SBS-SA-H	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-90.0
CONVENTIONAL SYSTEMS:										
CWF-9.	Tectum	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA	Optional additional layers of base insulation, followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-60.0
CWF-10.	Tectum	Min. 1.5-inch ACFoam II or H-Shield	M-OSFA, 6-inch o.c.	Optional additional layers of base insulation, followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.	M-OSFA, 6-inch o.c.	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-90.0

©2019 NEMO ETC, LLC

TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER										
System No.	Deck (Notes 1&12)	Base Insulation Layer		Top Insulation Layer		Primer	Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
CWF-11.	Existing Tectum (re-roof only)	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	OB500	Min. 0.5-inch Structodek High Density Fiberboard	OB500	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
CWF-12.	Existing Tectum (re-roof only)	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or DensDeck or DensDeck Prime	OB500	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
CWF-13.	Tectum	Min. 1-inch ENRGY 3, H-Shield, or H-Shield CG, min. 1.3-inch ACFoam III or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset BM or Polyset CRA	Min. 0.5-inch Structodek High Density Fiberboard	Polyset CRA	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-52.5
CWF-14.	Tectum	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset BM or Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or DensDeck or DensDeck Prime	Polyset BM or Polyset CRA	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-52.5

©2019 NEMO ETC, LLC

TABLE 5B: CEMENTITIOUS WOOF FIBER DECKS – NEW CONSTRUCTION OR 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 15)			MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
HYBRID SYSTEMS:												
CWF-15.	Tectum	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet or Flintglas MS Cap (inverted)	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 80 lbf)	6-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	hot asphalt	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	SBS-SA-H	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-60.0
CWF-16.	Tectum	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet or Flintglas MS Cap (inverted)	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 69 lbf)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	hot asphalt	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	SBS-SA-H	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-60.0
CONVENTIONAL SYSTEMS:												
CWF-17.	Existing Tectum	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet or Flintglas MS Cap (inverted)	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 80 lbf)	6-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	hot asphalt	Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch Structodek High Density Fiberboard	hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA or APP-TA	-60.0
CWF-18.	Existing Tectum	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet or Flintglas MS Cap (inverted)	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 69 lbf)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	hot asphalt	Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch Structodek High Density Fiberboard	hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA or APP-TA	-60.0

©2019 NEMO ETC, LLC

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

System No.	Deck (Note 1)	Base Insulation Layer(s)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base Ply	Ply	Cap Ply	
CWF-19.	Existing Tectum	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OMG Polymer GypTec with 3" GypTec Plate (Field W/D > 180 lbf)	1 per 2.0 ft²	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
CWF-20.	Existing Tectum	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck or DensDeck Prime	OMG Polymer GypTec with 3" GypTec Plate (Field W/D > 160 lbf)	1 per 1.8 ft²	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
CWF-21.	Existing Tectum	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Trufast Twin Loc-Nail Assembled Fasteners (Field W/D > 180 lbf)	1 per 2.0 ft²	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
CWF-22.	Existing Tectum	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck or DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Trufast Twin Loc-Nail Assembled Fasteners (Field W/D > 180 lbf)	1 per 2.0 ft²	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*

TABLE 5D: CEMENTITOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) OR REROOF
SYSTEM TYPE E-2: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Base	Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
SELF-ADHERING SYSTEMS:							
CWF-23.	Tectum	Flintlastic SA NailBase	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 80 lbf)	6-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA	SBS-SA	-60.0
CWF-24.	Tectum	Flintlastic SA NailBase	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 69 lbf)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA	SBS-SA	-60.0
CONVENTIONAL SYSTEMS:							
CWF-25.	Existing Tectum (reroof only)	All Weather/Empire Base Sheet or Flintglas MS Cap (inverted)	Trufast Insuldeck Loc-Nail Base Sheet Fastener (Field W/D > 53 lbf)	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA	-30.0*
CWF-26.	Existing Tectum (reroof only)	All Weather/Empire Base Sheet or Flintglas MS Cap (inverted)	Trufast Insuldeck Loc-Nail Base Sheet Fastener (Field W/D > 55 lbf)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA	-45.0*
CWF-27.	Tectum	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet or Flintglas MS Cap (inverted)	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 80 lbf)	6-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA or APP-TA	-60.0
CWF-28.	Tectum	Glasbase Base Sheet, Flintlastic Base 20 or All Weather/Empire Base Sheet or Flintglas MS Cap (inverted)	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 77 lbf)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA or APP-TA	-67.5

©2019 NEMO ETC, LLC

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 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
SELF-ADHERING SYSTEMS:									
G-1.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ACFoam II, ACFoam III, ENRGY 3, H-Shield or H-Shield CG	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
G-2.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	M-OSFA	Min. 0.25-inch DensDeck primed with FlintPrime QD	M-OSFA	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
G-3.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
G-4.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ACFoam II or ENRGY 3	OB500	Min. 0.25-inch DensDeck primed with FlintPrime QD	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-135.0
G-5.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
G-6.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	Polyset BM	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
G-7.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1-inch H-Shield or ENRGY 3, min. 1.3-inch ACFoam III or min. 1.5-inch ACFoam II, Multi-Max FA3 or Ultra-Max	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
G-8.	Existing sound gypsum or gypsum plank	min. 1-inch H-Shield or ENRGY 3, min. 1.3-inch ACFoam III or min. 1.5-inch ACFoam II, Multi-Max FA3 or Ultra-Max	Polyset CRA	Min. 0.25-inch DensDeck primed with FlintPrime QD	Polyset CRA	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
HYBRID SYSTEMS:									
G-9.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA, M-PG1, OB500, Polyset BM, Polyset CRA	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1, OB500, Polyset BM, Polyset CRA	SBS-SA-H	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-187.5
CONVENTIONAL SYSTEMS:									
G-10.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA	Min. 0.5-inch Structodek High Density Fiberboard	M-OSFA	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-127.5
G-11.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	BP-AA or SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-187.5

©2019 NEMO ETC, LLC

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 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
G-12.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA	Min. 0.25-inch DensDeck	M-OSFA	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-232.5
G-13.	Existing sound gypsum or gypsum plank	Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	BP-AA or SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-202.5
G-14.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	BP-AA or SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-187.5
G-15.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.5-inch Structodek High Density Fiberboard	OB500	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-120.0
G-16.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-135.0
G-17.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-187.5
G-18.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	Polyset BM	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-187.5
G-19.	Existing sound gypsum or gypsum plank	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset CRA	Min. 0.5-inch Structodek High Density Fiberboard	Polyset CRA	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-180.0
G-20.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch ACFoam II, ACFoam III, H-Shield or H-Shield CG	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-187.5
G-21.	Existing sound gypsum or gypsum plank	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-225.0
G-22.	Existing sound gypsum or gypsum plank	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	APP-TA	-232.5
G-23.	Existing sound gypsum or gypsum plank	Min. 1-inch ENRGY 3, H-Shield or H-Shield CG or min. 1.5-inch Multi-Max FA3 or Ultra-Max	Polyset CRA	Min. 0.25-inch DensDeck	Polyset CRA	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-240.0

©2019 NEMO ETC, LLC

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			Base Insulation		Top Insulation		Roof Cover (Note 15)			MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach	Type	Attach	Base Ply	Ply	Cap Ply	
HYBRID SYSTEMS:												
G-24.	Existing sound gypsum or gypsum plank	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet or Flintglas MS Cap (inverted)	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 80 lbf)	6-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	hot asphalt	None	N/A	SBS-SA-H	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-60.0
G-25.	Existing sound gypsum or gypsum plank	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet or Flintglas MS Cap (inverted)	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 69 lbf)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	hot asphalt	None	N/A	SBS-SA-H	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-60.0
CONVENTIONAL SYSTEMS:												
G-26.	Existing sound gypsum or gypsum plank	All Weather/Empire Base Sheet or Flintglas MS Cap (inverted)	Trufast FM-75 or FM-90 Base Sheet Fastener or Twin Loc-Nail Assembled Fastener (Field W/D > 100 lbf)	9-inch o.c. at the 4-inch lap and 18-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	hot asphalt	Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch Structodek High Density Fiberboard	hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA or APP-TA	-45.0*
G-27.	Existing sound gypsum or gypsum plank	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet or Flintglas MS Cap (inverted)	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 80 lbf)	6-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	hot asphalt	Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch Structodek High Density Fiberboard	hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA or APP-TA	-60.0
G-28.	Existing sound gypsum or gypsum plank	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet or Flintglas MS Cap (inverted)	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 69 lbf)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	hot asphalt	Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch Structodek High Density Fiberboard	hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA or APP-TA	-60.0

©2019 NEMO ETC, LLC

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

System No.	Deck (Note 1)	Base Insulation Layer(s)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base Ply	Ply	Cap Ply	
G-29.	Existing sound gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OMG Polymer GypTec with 3" GypTec Plate (Field W/D > 180 lbf)	1 per 2.0 ft^2	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
G-30.	Existing sound gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck or DensDeck Prime	OMG Polymer GypTec with 3" GypTec Plate (Field W/D > 160 lbf)	1 per 1.8 ft^2	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
G-31.	Existing sound gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Trufast Twin Loc-Nail Assembled Fasteners (Field W/D > 180 lbf)	1 per 2.0 ft^2	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*
G-32.	Existing sound gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck or DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Trufast Twin Loc-Nail Assembled Fasteners (Field W/D > 180 lbf)	1 per 2.0 ft^2	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-45.0*

TABLE 6D: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE E-2: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Base	Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
SELF-ADHERING SYSTEMS:							
G-33.	Existing sound gypsum or gypsum plank	Flintlastic SA NailBase	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 80 lbf)	6-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA	SBS-SA	-60.0
G-34.	Existing sound gypsum or gypsum plank	Flintlastic SA NailBase	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 88 lbf)	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA	SBS-SA	-60.0
CONVENTIONAL SYSTEMS:							
G-35.	Existing sound gypsum or gypsum plank	All Weather/Empire Base Sheet or Flintglas MS Cap (inverted)	Trufast FM-75 or FM-90 Base Sheet Fastener or Twin Loc-Nail Assembled Fastener (Field W/D > 100 lbf)	9-inch o.c. at the 4-inch lap and 18-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA	-45.0*
G-36.	Existing sound gypsum or gypsum plank	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet or Flintglas MS Cap (inverted)	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 80 lbf)	6-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA or APP-TA	-60.0
G-37.	Existing sound gypsum or gypsum plank	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet or Flintglas MS Cap (inverted)	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 100 lbf)	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA or APP-TA	-67.5

©2019 NEMO ETC, LLC

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

[A] The reported MDP documents the allowable maximum design pressure of the new insulation and roof cover when installed atop the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Primer	Roof Cover (Note 15)			MDP (psf)[A]
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
SELF-ADHERING SYSTEMS:										
R-1	Existing fully bonded BUR or modified bitumen roof cover	(Optional) Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	hot asphalt	Min. 0.25-inch DensDeck	hot asphalt	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-105.0
R-2	Existing fully bonded BUR or modified bitumen roof cover	(Optional) Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-105.0
R-3	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 0.5-inch ACFoam-HD Coverboard or H-Shield HD	M-OSFA or M-PG1	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-97.5
R-4	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
R-5	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II, ENRGY 3 or Multi-Max FA3	M-OSFA or M-PG1	Min. 0.25-inch DensDeck	M-OSFA or M-PG1	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
R-6	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1, 6-inch o.c.	Min. 0.5-inch ACFoam-HD Coverboard or H-Shield HD	M-OSFA or M-PG1, 6-inch o.c.	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-315.0
R-7	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1, 6-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1, 6-inch o.c.	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-315.0
R-8	Existing fully bonded BUR or modified bitumen roof cover	(Optional) Min. 1.5-inch ACFoam II or ENRGY 3	OB500	Min. 0.25-inch DensDeck	OB500	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-120.0
R-9	Existing fully bonded BUR or modified bitumen roof cover	(Optional) Min. 1.5-inch ACFoam II or ENRGY 3	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-120.0
R-10	Existing fully-bonded smooth- or granule-surface asphalt BUR or granule-surface modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	Polyset BM	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
R-11	Existing fully-bonded smooth- or granule-surface asphalt BUR or granule-surface modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	Polyset BM	Min. 0.25-inch DensDeck	Polyset BM	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
R-12	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	None	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5

©2019 NEMO ETC, LLC

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

[A] The reported MDP documents the allowable maximum design pressure of the new insulation and roof cover when installed atop the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Primer	Roof Cover (Note 15)			MDP (psf)[A]
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
R-13	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	Polyset CRA	Min. 0.25-inch DensDeck	Polyset CRA	FlintPrime QD	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
HYBRID SYSTEMS:										
R-14	Existing fully bonded BUR or modified bitumen roof cover	(Optional) Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-105.0
R-15	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 0.5-inch ACFoam-HD CoverBoard or H-Shield HD	M-OSFA or M-PG1	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-97.5
R-16	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	(Optional) Additional layer(s) base insulation	M-OSFA or M-PG1	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-210.0
R-17	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-210.0
R-18	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1, 6-inch o.c.	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ACFoam-HD CoverBoard or H-Shield HD	M-OSFA or M-PG1, 6-inch o.c.	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-315.0
R-19	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	(Optional) Min. 1.5-inch ACFoam II or ENRGY 3	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-120.0
R-20	Existing fully-bonded smooth- or granule-surface asphalt BUR or granule-surface modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	Polyset BM	(Optional) Additional layer(s) base insulation	Polyset BM	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-195.0

©2019 NEMO ETC, LLC

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

[A] The reported MDP documents the allowable maximum design pressure of the new insulation and roof cover when installed atop the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Primer	Roof Cover (Note 15)			MDP (psf)[A]
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
R-21	Existing fully-bonded smooth- or granule-surface asphalt BUR or granule-surface modified bitumen	(Optional0 Min. 1.5-inch ACFoam II or H-Shield	Polyset BM	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-195.0
R-22	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	Min. 1.5-inch ACFoam II or H-Shield	Polyset CRA	(Optional) Additional layer(s) base insulation	Polyset CRA	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-222.5
R-23	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	None	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-217.5
CONVENTIONAL SYSTEMS:										
R-24	Existing fully bonded BUR or modified bitumen roof cover	(Optional) Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	hot asphalt	Min. 0.5-inch Structodek High Density Fiberboard, Min. 0.75-inch FescoBoard (homogeneous) or Min. 0.5-inch DuraBoard (homogeneous)	hot asphalt	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-105.0
R-25	Existing fully bonded BUR or modified bitumen roof cover	(Optional) Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield or Multi-Max FA3	hot asphalt	0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	hot asphalt	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-105.0
R-26	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA or M-PG1	Min. 0.5-inch Structodek High Density Fiberboard	M-OSFA or M-PG1	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-165.0
R-27	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch DensDeck	M-OSFA or M-PG1	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-210.0
R-28	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch DensDeck Prime	M-OSFA or M-PG1	None	BP-AA, SBS-AA, SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA	-210.0

©2019 NEMO ETC, LLC

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

[A] The reported MDP documents the allowable maximum design pressure of the new insulation and roof cover when installed atop the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Primer	Roof Cover (Note 15)			MDP (psf)[A]
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
R-29	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 2-inch ACFoam II, ENRGY 3 or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-210.0
R-30	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1, 6-inch o.c.	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1, 6-inch o.c.	None	SBS-AA or SBS-TA	(Optional) SBS-AA or SBS-TA	SBS-AA	-315.0
R-31	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1, 6-inch o.c.	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1, 6-inch o.c.	None	Flintlastic STA or Flintlastic STA Plus	(Optional) APP-TA	APP-TA	-315.0
R-32	Existing fully bonded BUR or modified bitumen roof cover	(Optional) Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.5-inch Structodek High Density Fiberboard	OB500	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-120.0
R-33	Existing fully bonded BUR or modified bitumen roof cover	(Optional) Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	OB500	Min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-120.0
R-34	Existing fully-bonded smooth- or granule-surface asphalt BUR or granule-surface modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	Polyset BM	Min. 0.25-inch DensDeck	Polyset BM	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-195.0
R-35	Existing fully-bonded smooth- or granule-surface asphalt BUR or granule-surface modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	Polyset BM	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-195.0
R-36	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	Min. 1.5-inch ACFoam II or H-Shield	Polyset CRA	Min. 0.5-inch Structodek High Density Fiberboard	Polyset CRA	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-180.0
R-37	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	Polyset CRA	Min. 0.25-inch DensDeck	Polyset CRA	None	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-222.5

©2019 NEMO ETC, LLC

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

[A] The reported MDP documents the allowable maximum design pressure of the new insulation and roof cover when installed atop the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Primer	Roof Cover (Note 15)			MDP (psf)[A]
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
R-38	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	None	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA or APP-TA	-222.5
COLD-APPLIED SYSTEMS:										
R-39	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 0.5-inch ACFoam-HD CoverBoard or H-Shield HD	M-OSFA or M-PG1	None	SBS-CA1	None	SBS-CA1	-97.5
R-40	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 1.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 0.5-inch ACFoam-HD CoverBoard or H-Shield HD	M-OSFA or M-PG1	None	SBS-CA4	None	SBS-CA4	-97.5
R-41	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 0.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	None	SBS-CA1	None	SBS-CA1	-105.0
R-42	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 0.5-inch ACFoam II or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	None	SBS-CA4	None	SBS-CA4	-105.0
R-43	Existing fully bonded BUR or modified bitumen roof cover	(Optional) Min. 0.5-inch ACFoam II or H-Shield	OB500	Min. 1.5-inch ACFoam III or H-Shield CG	OB500	None	SBS-CA1	None	SBS-CA1	-82.5
R-44	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	(Optional) Min. 0.5-inch ACFoam II or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	SBS-CA1	None	SBS-CA1	-105.0
R-45	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	(Optional) Min. 0.5-inch ACFoam II or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	SBS-CA4	None	SBS-CA4	-105.0
R-46	Existing fully-bonded smooth- or granule-surface asphalt BUR or granule-surface modified bitumen	(Optional) Min. 0.5-inch ACFoam II or H-Shield	Polyset BM	Min. 1.5-inch ACFoam III	Polyset BM	None	SBS-CA1	None	SBS-CA1	-82.5
R-47	Existing fully-bonded smooth- or granule-surface asphalt BUR or granule-surface modified bitumen	(Optional) Min. 0.5-inch ACFoam II or H-Shield	Polyset BM	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM	None	SBS-CA1	None	SBS-CA1	-105.0
R-48	Existing fully-bonded smooth- or granule-surface asphalt BUR or granule-surface modified bitumen	(Optional) Min. 0.5-inch ACFoam II or H-Shield	Polyset BM	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset BM	None	SBS-CA4	None	SBS-CA4	-105.0
R-49	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 0.5-inch ACFoam II or H-Shield	Polyset CRA	Min. 1.5-inch ACFoam III or H-Shield CG	Polyset CRA	None	SBS-CA1	None	SBS-CA1	-82.5
R-50	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 0.5-inch ACFoam II or H-Shield	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	None	SBS-CA1	None	SBS-CA1	-105.0

©2019 NEMO ETC, LLC

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

[A] The reported MDP documents the allowable maximum design pressure of the new insulation and roof cover when installed atop the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Primer	Roof Cover (Note 15)			MDP (psf)[A]
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		Base Ply	Ply	Cap Ply	
R-51	Existing fully-bonded smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) Min. 0.5-inch ACFoam II or H-Shield	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	None	SBS-CA4	None	SBS-CA4	-105.0

TABLE 7B: RECOVER APPLICATIONS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER

[A] The reported MDP documents the allowable maximum design pressure of the new roof cover when installed atop the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate (Notes 1 & 12)	Primer	Roof Cover (Note 15)			MDP (psf)[A]
			Base Ply	Ply	Cap Ply	
R-52	Existing fully bonded asphalt built-up roof (BUR)	(Optional) FlintPrime QD	SBS-CA1	None	SBS-CA1	-187.5

©2019 NEMO ETC, LLC