



EXTERIOR RESEARCH & DESIGN, LLC.

Certificate of Authorization #9503

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EVALUATION REPORT

Versico Roofing Systems

P.O. Box 1289

Carlisle, PA 17013

(717) 245-7264

Evaluation Report C41250.03.12-R5

FL1616-R11

Date of Issuance: 03/30/2012

Revision 5: 08/29/2017

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 **6th Edition (2017) Florida Building Code** sections noted herein.

DESCRIPTION: Versico EPDM Single Ply Roof Systems

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

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

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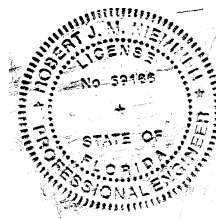
INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 5, plus a 27-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 08/29/2017. This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client

CERTIFICATION OF INDEPENDENCE:

1. Exterior Research & Design, LLC. d/b/a Trinity | ERD 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.
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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 Trinity|ERD nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

ROOFING SYSTEMS EVALUATION:
1. SCOPE:
Product Category: Roofing

Sub-Category: Single Ply Roof Systems

Compliance Statement: Versico EPDM Single Ply Roof Systems, as produced by Versico Roofing Systems, have demonstrated compliance with the following sections of the 5th Edition (2014) Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1504.3.1	Wind	FM 4474	2011
1504.7	Impact	FM 4470	2012
1507.12.2	Physical Properties	ASTM D4637	2013

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
CTL (TST1577)	TAS 114 / FM 4470	CTLA-105R	10/13/2008
CTL (TST1577)	TAS 114 / FM 4470	CTLA-105R-1	10/13/2008
CTL (TST1577)	TAS 114 / FM 4470	CTLA-105R-2	10/13/2008
CTL (TST1577)	TAS 114 / FM 4470	CTLA-106R-2	10/16/2008
ERD (TST6049)	Physical Properties	CRL-SC10340.09.16-2A	09/14/2016
ERD (TST6049)	Physical Properties	CRL-SC10340.09.16-3A	09/14/2016
ERD (TST6049)	Physical Properties	CRL-SC10340.09.16-3B	09/14/2016
ERD (TST6049)	Physical Properties	CRL-SC10340.09.16-3C	09/14/2016
ERD (TST6049)	Physical Properties	CRL-SC10340.01.17-1A	01/04/2017
ERD (TST6049)	Physical Properties	CRL-SC10340.01.17-1C	01/04/2017
ERD (TST6049)	Physical Properties	CRL-SC10340.01.17-1E	01/13/2017
FM Approvals (TST1867)	FM 4470/4474	3B5A1.AM	04/28/1997
FM Approvals (TST1867)	FM 4470/4474	2Z2A8.AM	05/16/1997
FM Approvals (TST1867)	FM 4470/4474	2B2A1.AM	05/29/1997
FM Approvals (TST1867)	FM 4470/4474	3B8Q4.AM	06/04/1997
FM Approvals (TST1867)	FM 4470/4474	4B2A1.AM	06/11/1997
FM Approvals (TST1867)	FM 4470/4474	2Z3A9.AM	07/30/1997
FM Approvals (TST1867)	FM 4470/4474	1B7A5.AM	02/23/1998
FM Approvals (TST1867)	FM 4470/4474	4D9A6.AM	08/03/1998
FM Approvals (TST1867)	FM 4470/4474	2D6A6.AM	10/07/1998
FM Approvals (TST1867)	FM 4470/4474	3003326	04/12/1999
FM Approvals (TST1867)	FM 4470/4474	3000348	04/19/1999
FM Approvals (TST1867)	FM 4470/4474	1B7A4.AM	07/08/1999
FM Approvals (TST1867)	FM 4470/4474	3009502	12/21/2000
FM Approvals (TST1867)	FM 4470/4474	3012458	02/23/2002
FM Approvals (TST1867)	FM 4470/4474	3013584	06/27/2003
FM Approvals (TST1867)	FM 4470/4474	3014692	08/05/2003
FM Approvals (TST1867)	FM 4470/4474	3016162	11/25/2003
FM Approvals (TST1867)	FM 4470/4474	3020353	03/25/2004
FM Approvals (TST1867)	FM 4470/4474	3016161	06/04/2004
FM Approvals (TST1867)	FM 4470/4474	3022181	09/01/2005
FM Approvals (TST1867)	FM 4470/4474	3022187	09/15/2005
FM Approvals (TST1867)	FM 4470/4474	3019897	10/07/2005
FM Approvals (TST1867)	FM 4470/4474	3024994	02/28/2006
FM Approvals (TST1867)	FM 4470/4474	3021941	03/20/2006
FM Approvals (TST1867)	FM 4470/4474	3024593	07/27/2006
FM Approvals (TST1867)	FM 4470/4474	3025930	08/30/2006
FM Approvals (TST1867)	FM 4470/4474	3022174	09/25/2006
FM Approvals (TST1867)	FM 4470/4474	3021235	06/01/2007
FM Approvals (TST1867)	FM 4470/4474	3026964	07/25/2007
FM Approvals (TST1867)	FM 4470/4474	3028441	10/16/2007

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
FM Approvals (TST1867)	FM 4470/4474	3031511	08/28/2008
FM Approvals (TST1867)	FM 4470/4474	797-04381-267	03/12/2009
FM Approvals (TST1867)	FM 4470/4474	3034066	04/14/2009
FM Approvals (TST1867)	FM 4470/4474	3034776	08/07/2009
FM Approvals (TST1867)	FM 4470/4474	3035794	08/07/2009
FM Approvals (TST1867)	FM 4470/4474	3034977	04/09/2010
FM Approvals (TST1867)	FM 4470/4474	3038140	08/04/2010
FM Approvals (TST1867)	FM 4470/4474	3041535	06/08/2011
FM Approvals (TST1867)	FM 4470/4474	3039340	06/24/2011
FM Approvals (TST1867)	FM 4470/4474	797-06605-267	07/06/2011
FM Approvals (TST1867)	FM 4470/4474	3043858	08/25/2011
FM Approvals (TST1867)	FM 4470/4474	3041797	10/13/2011
FM Approvals (TST1867)	FM 4470/4474	3039073	11/22/2011
FM Approvals (TST1867)	FM 4470/4474	3043710	03/23/2012
FM Approvals (TST1867)	FM 4470/4474	3042075	10/23/2012
FM Approvals (TST1867)	FM 4470/4474	3040260	02/27/2012
FM Approvals (TST1867)	FM 4470/FM 4474	3056745	09/28/2016
UL, LLC. (QUA9625)	Quality Control	Inspection Report (PA)	08/14/2017

4. PRODUCT DESCRIPTION:

The following roof covers are mechanically attached or fully adhered to Approved substrates using fasteners, stress plates and adhesives, as outlined in the Limitations / Conditions of Use herein.

- 4.1 **VersiGard Non-Reinforced** are nominal 45-mil (1.1 mm), 60-mil (1.5 mm) or 90-mil (2.2 mm) thick, non-reinforced Ethylene Propylene Diene Monomer based roof membranes.
- 4.2 **VersiGard Black VersiFleece 100, VersiGard Black VersiFleece 115 and VersiGard Black VersiFleece 145** are a nominal 45-mil (1.1 mm), 60-mil (1.5 mm) and 90-mil (2.2 mm) thick, respectively, non-reinforced Ethylene Propylene Diene Monomer based roof membranes with a nominal 55-mil (1.4 mm) polyester fleece backing.
- 4.3 **VersiGard White Standard** is a nominal 60-mil (1.5 mm) or 90-mil (2.2 mm) thick non-reinforced, bi-laminate, white-on-black, Ethylene Propylene Diene Monomer based roof membrane.
- 4.4 **VersiGard White VersiFleece 100, VersiGard White VersiFleece 115 and VersiGard White VersiFleece 145** are a nominal 45-mil (1.1 mm), 60-mil (1.5 mm) and 90-mil (2.2 mm) thick, respectively, non-reinforced, bi-laminate, white-on-black, Ethylene Propylene Diene Monomer based roof membranes with a nominal 55-mil (1.4 mm) polyester fleece backing.
- 4.5 **VersiGard Reinforced Standard and VersiGard Reinforced FR** are nominal 45-mil (1.1 mm), 60-mil (1.5 mm) or 75-mil (1.9 mm) thick, internally-reinforced Ethylene Propylene Diene Monomer based roof membranes.
- 4.6 **VersiFleece AC EPDM** are a nominal 45-mil (1.1 mm) or 60-mil (1.5 mm) thick, internally-reinforced Ethylene Propylene Diene Monomer based roof membranes with a nominal 45-mil (1.1 mm) polyester fleece backing.

5. LIMITATIONS:

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

6. INSTALLATION:

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

7. BUILDING PERMIT REQUIREMENTS:

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

8. MANUFACTURING PLANTS:

Contact the named QA entity for manufacturing facilities covered by **F.A.C. Rule 61G20-3** QA requirements.

9. QUALITY ASSURANCE ENTITY:

UL LLC– QUA9625; (414) 248-6409; karen.buchmann@ul.com

- THE 27-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, Reroof (Tear-Off), Recover	C	Mechanically Attached Insulation, Bonded Roof Cover	4
2A	Steel	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	5
2B-1	Steel or Structural Concrete	New, Reroof (Tear-Off), Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	5-7
2B-2	Steel or Structural Concrete	New, Reroof (Tear-Off), Recover	B-2	Mech Attached Base Insulation, Bonded Temp Roof, Bonded Top Insulation, Bonded Roof Cover	7
2C	Steel or Structural Concrete	New, Reroof (Tear-Off), Recover	C	Mechanically Attached Insulation, Bonded Roof Cover	8-12
2D-1	Steel or Structural Concrete	New, Reroof (Tear-Off), Recover	D	Insulated, Mechanically Attached Roof Cover (Stress Plates)	13
2D-2	Steel or Structural Concrete	New, Reroof (Tear-Off), Recover	D	Insulated, Mechanically Attached Roof Cover (Battens)	14
3A	Concrete	New, Reroof (Tear-Off)	A-1A	Bonded Insulation, Bonded Roof Cover	15-24
3B	Concrete	New, Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	24
4A	LWIC	New, Reroof (Tear-Off)	A-2	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	25
4B	LWIC	New	F	Non-Insulated, Bonded Roof Cover	25
5A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	26-27
5B	Various	Recover	F	Non-Insulated, Bonded Roof Cover	27

The following notes apply to the systems outlined herein:

- The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. Load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
- Unless otherwise noted, fasteners and stress plates for insulation attachment shall be as follows. Fasteners shall be of sufficient length for the following engagements:
 - Wood Deck: Versico HPV Fastener with HPV Insulation Plate. Minimum 1-inch wood penetration.
 - Steel Deck: Versico HPV Fastener with HPV Insulation Plate. Minimum 0.75-inch steel penetration, engage the top flute of the steel deck.
 - Structural Concrete: Versico MP 14-10 Concrete Fastener, Versico CD-10 Concrete Fastener or MP Concrete-Spike with HPV Insulation Plate. Minimum 1-inch embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer’s published installation instructions.
- Unless otherwise noted, insulation may be any one layer or combination of polyisocyanurate, polystyrene, fiberboard, perlite, mineral-wool based, gypsum-based, cement-based insulation board that meets the QA requirements of F.A.C. Rule 61G20-3 and is documented as meeting FBC 1505.1 and, for foam plastic, FBC Chapter 26, when installed with the roof cove.
- Minimum 200 psi, minimum 2-inch thick lightweight insulating concrete may be substituted for rigid insulation board for System Type D (mechanically attached membrane), whereby the membrane fasteners are installed through the LWIC to engage the structural steel or concrete deck. The structural deck shall be of equal or greater configuration to the steel and concrete deck listings.
- Preliminary insulation attachment for System Type D: Unless otherwise noted, refer to Section 2.2.10.1.3 of FM Loss Prevention Data Sheet 1-29 (January 2016).
- Unless otherwise noted, insulation adhesive application rates are as follows. Ribbon or bead width is at the time of application; the ribbons/beads shall expand as noted in the manufacturer’s published instructions:
 - Hot Asphalt: Applied at a rate of 20-40 lbs./sq.
 - FAST 100 or DASH 100-LV (FULL): Full-coverage at 1 gal./square.
 - FAST 100 or DASH 100-LV (RIBBON): Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c.
 - Flexible DASH (FULL): Full-coverage at 1 gal./square.
 - Flexible DASH (RIBBON): Continuous 1-inch wide ribbons, 12-inch o.c.
 - DASH Bag In A Box Adhesive (BIAB): Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c.
 - DASH Dual-Tank (DASH D-T) (FULL): Continuous 0.5-inch wide, wet-beads, 4-inch o.c.
 - DASH Dual-Tank (DASH D-T) (RIBBON): Continuous 0.5-inch wide, wet-beads, 12-inch o.c. Note: When installing multiple layers of insulation, DASH Dual-Tank beads shall be placed perpendicular to those placed for attachment of the previous layer.

- OlyBond 500: Continuous $\frac{3}{4}$ to 1-inch wide ribbons, 12-inch o.c. using PaceCart or SpotShot application devices.
 - *Note: When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, boards be staggered from layer-to-layer.*
 - *Note: The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing*
7. Unless otherwise noted, all insulations are flat stock or taper board of the minimum thickness noted. Tapered polyisocyanurate may be substituted for the flat stock board with the following Maximum Design Pressure (MDP) limitations:
- FAST 100 or DASH 100-LV or Flexible DASH (FULL or RIBBON): MDP -157.5 psf (Min. 0.5-inch thick)
 - OlyBond 500: MDP -187.5 psf (Min. 0.5-inch thick)
8. Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.
9. For mechanically attached components or partially bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC Chapter 16, and Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD1, FM Loss Prevention Data Sheet 1-29, Roofing Application Standard RAS 117 and Roofing Application Standard RAS 137. Assemblies marked with an asterisk* carry the limitations set forth in Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (January 2016) for Zone 2/3 enhancements.
10. For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16, and no rational analysis is permitted.
11. For mechanically attached components over existing decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing shall be in accordance with ANSI/SPRI FX-1 or Testing Application Standard TAS 105.
12. For existing substrates in a bonded recover or re-roof installation, the existing roof surface or existing roof deck shall be examined for compatibility and bond performance with the selected adhesive, and the existing roof system (for recover) shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with ANSI/SPRI IA-1, ASTM E907, FM Loss Prevention Data Sheet 1-52 or Testing Application Standard TAS 124.
13. For System Type D, steel deck applications, the roof membrane shall be run with its length perpendicular to the steel deck flutes.
14. For Structural Concrete Deck or Recover Applications using System Type D (Mechanically Attached Roof Cover), the insulation is optional. Alternatively, min. 0.5-inch HP Recovery Board, SecurShield HD or H-Shield HD or min. 0.25-inch to 0.625-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Glass-Mat Roof Board or min. 3/8-inch Insulfoam R-Tech EPS or Fan-Fold may be used as a separator board, preliminarily attached prior to roof cover installation. The separator component shall be documented as meeting FBC 1505.1 and, for foam plastic, FBC Chapter 26, when installed with the roof cover in Recover applications.
15. Lightweight Insulating Concrete (LWC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWC is referenced, refer to current LWC Product Approval for specific deck construction and limitations. For systems where specific LWC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1.
16. For membrane attachment using batten-strips, end laps shall be spliced with sufficient dimension to allow for minimum 2-fasteners at each batten-strip lap.
17. Side laps shall be sealed in accordance with Versico requirements:
- Primed with V150 Primer or Low-VOC EPDM Primer and adhered with VersiGard QA Adhesive Seam Tape or QA White Seam Tape
 - Primed with V150 Primer and sealed with pre-applied seam tape.
 - Cleaned with Weathered Membrane Cleaner, optional priming with V150 Primer or Low-VOC EPDM Primer, and adhered with G100B Seam Adhesive or G100 Seam Adhesive White.

18. Unless otherwise noted, membrane adhesive application rates are as follows:

Membrane	Adhesive	Method	Rate
Non-Fleece Roof Covers	G200SA Yellow Substrate Adhesive	Contact (both sides)	1.67 gal/square
Non-Fleece Roof Covers	Aqua Base 120 Bonding Adhesive	Contact (both sides)	1.67 to 2.0 gal/square
Non-Fleece Roof Covers	EPDM x-23 Low-VOC Bonding Adhesive	Contact (both sides)	1.67 gal/square
FleeceBACK Roof Covers	Aqua Base 120 Bonding Adhesive	Wet lay (substrate)	0.83 to 1 gal/square
FleeceBACK Roof Covers	FAST 100, FAST 100LV or Flexible DASH	Wet lay (substrate)	RIBBON spaced as noted herein or FULL Coverage = 1 gal/square or continuous ribbons, maximum 4-inch o.c.
AC Roof Covers	Versico Cold Applied Adhesive	Wet lay (substrate)	1.5 gal/square
AC Roof Covers	Hot asphalt	Wet lay (substrate)	25 lbs/square

19. Vapor barrier options for use over **structural concrete deck** followed by adhesive-applied insulation carry the following Maximum Design Pressure (MDP) limitations. The **lesser** of the MDP listings below vs. those in Table 3A applies.

VAPOR BARRIER OPTIONS; STRUCTURAL CONCRETE DECK; FOLLOWED BY ADHESIVE-APPLIED INSULATION PER TABLE 3A:					
Option #	Primer	Vapor Barrier		Insulation Adhesive	MDP (psf)
		Type	Application		
VB-1.	702 Primer	Versico 725TR	Self-adhering	DASH 100-LV, FULL-coverage at 1 gal/square.	-67.5
VB-2.	702 Primer	Versico 725TR	Self-adhering	DASH 100-LV, DASH Bag in a Box (BIAB) or DASH DC (RIBBON, 12-inch o.c.)	-67.5
VB-3.	702 LV Primer	Versico 725TR	Self-adhering	DASH 100-LV, FULL-coverage at 1 gal/square.	-97.5
VB-4.	702 LV Primer	Versico 725TR	Self-adhering	DASH 100-LV, DASH Bag in a Box (BIAB) or DASH DC (RIBBON, 12-inch o.c.)	-97.5
VB-5.	CAV-GRIP Primer	Versico 725TR	Self-adhering	DASH 100-LV, FULL-coverage at 1 gal/square.	-127.5
VB-6.	CAV-GRIP Primer	Versico 725TR	Self-adhering	DASH 100-LV, DASH Bag in a Box (BIAB) or DASH DC (RIBBON, 12-inch o.c.)	-127.5
VB-7.	ASTM D41	SureMB 90TG Base	Torch-applied	DASH 100-LV or DASH DC (RIBBON, 12-inch o.c.)	-165.0
VB-8.	ASTM D41	SureMB 90 Base	Hot-asphalt	Hot asphalt at 25 lbs/square	-172.5
VB-9.	ASTM D41	SureMB 90TG Base	Torch-applied	Hot asphalt at 25 lbs/square	-180.0

20. "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609 for determination of design wind loads.

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

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 18)	MDP (psf)
			Type	Fasteners	Attach		
MEMBRANE APPLIED IN G200SA YELLOW SUBSTRATE ADHESIVE:							
W-1	Min. 19/32" plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch thick Recovery Board, Fiber Base HD1, GP High Density Roof Fiberboard, min. 0.25-inch thick Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board, min. 1.5-inch ACFoam II, ACFoam III, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, H-Shield CG, ENRGY 3, PSI-25, Multi-Max FA-3	Note 2	1 per 2 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-45.0*
W-2	Min. 19/32" plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam Composite/FB, Polyiso MP-H Composite, H-Shield-WF, ENRGY 3 Plus	Note 2	1 per 3 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-45.0*
W-3	Min. 19/32" plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch ACFoam II, ACFoam III, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, H-Shield CG, ENRGY 3, PSI-25, Multi-Max FA-3	Note 2	1 per 4 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-45.0*
W-4	Min. 23/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 3.2 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-45.0*
MEMBRANE APPLIED IN EPDM x-23 LOW-VOC BONDING ADHESIVE:							
W-5	Min. 23/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 3.2 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / EPDM x-23 Low-VOC Bonding Adhesive	-45.0*
MEMBRANE APPLIED IN FAST 100, DASH 100-LV, FLEXIBLE DASH, DASH D-T:							
W-6	Min. 23/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 3.2 ft ²	VersiGard Black VersiFleece or VersiGard White VersiFleece / FAST 100, DASH 100-LV, Flexible DASH, DASH D-T (FULL)	-45.0*

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

System No.	Deck (Note 1)	Insulation	Roof Cover (Note 18)	MDP (psf)
SC-1	Min. 22 ga., type B, Grade 33 steel	Elastospray 81255 spray applied to fill the deck flutes and min. 1.5-inch above the top deck flanges.	VersiGard Black VersiFleece or VersiGard White VersiFleece / DASH 100-LV (FULL)	-195.0

**TABLE 2B-1: 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 18)	MDP (psf)
		Type	Fastener	Attach	Type	Attach		
MEMBRANE APPLIED IN G200SA YELLOW SUBSTRATE ADHESIVE:								
SC-2	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch Dens Deck followed by min. 2-inch Insulfoam VIII	Note 2	1 per 2.67 ft ²	Min. 1.5-inch InsulLam (OSB)	Flexible DASH (Ribbon, 6-inch o.c.)	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-37.5*
SC-3	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch Dens Deck followed by min. 2-inch Insulfoam VIII	Note 2	1 per 2.0 ft ²	Min. 2-inch Insulfoam HD Composite	Flexible DASH (Ribbon, 6-inch o.c.)	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-45.0*
SC-4	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch Dens Deck followed by min. 3-inch Insulfoam VIII	InsulFAST with Sure-Seal Insulation Plates	1 per 2.0 ft ²	Min. 2-inch InsulLam (OSB)	FAST 100LV (Ribbon, 6-inch o.c.)	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-75.0
SC-5	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch Polyiso MP-H or H-Shield	Note 2	1 per 1.33 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-60.0
MEMBRANE APPLIED IN FAST 100, DASH 100-LV, FLEXIBLE DASH, DASH D-T:								
SC-6	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N or HP-W, H-Shield, ENRGY 3, or AC Foam II	Note 2	1 per 2.0 ft ²	Min. 0.25-inch Dens Deck, Dens Deck Prime	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece / FAST 100, DASH 100-LV, Flexible DASH (RIBBON, 12-inch o.c.)	-37.5*
SC-7	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch Dens Deck or Dens Deck Prime	Note 2	1 per 2.0 ft ²	Min. 1.5-inch Kingspan GreenGuard Extruded Polystyrene followed by min. 0.25-inch Dens Deck Prime	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece / FAST 100, DASH 100-LV, Flexible DASH (RIBBON, 12-inch o.c.)	-37.5*

**TABLE 2B-1: 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 18)	MDP (psf)
		Type	Fastener	Attach	Type	Attach		
SC-8	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch Dens Deck followed by min. 2-inch Insulfoam VIII	Note 2	1 per 2.67 ft ²	Min. 1.5-inch Insullam (OSB)	Flexible DASH (Ribbon, 6-inch o.c.)	VersiGard Black VersiFleece or VersiGard White VersiFleece / FAST 100, DASH 100-LV, Flexible DASH (FULL)	-37.5*
SC-9	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N or HP-W, H-Shield, ENRGY 3, or AC Foam II	Note 2	1 per 2.0 ft ²	Additional layers of base insulation	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece / FAST 100, DASH 100-LV, Flexible DASH (RIBBON, 12-inch o.c.)	-45.0*
SC-10	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H or H-Shield	Note 2	1 per 3.2 ft ²	Min. 1.0-inch base insulation	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece / FAST 100, DASH 100-LV, Flexible DASH (FULL)	-45.0*
SC-11	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H or H-Shield	Note 2	1 per 3.2 ft ²	Min. 0.25-inch Dens Deck Prime	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece / FAST 100, DASH 100-LV, Flexible DASH (FULL)	-45.0*
SC-12	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch Polyiso MP-H or H-Shield	Note 2	1 per 4.0 ft ²	Min. 1.0-inch base insulation	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece / FAST 100, DASH 100-LV, Flexible DASH (FULL)	-45.0*
SC-13	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch Polyiso MP-H or H-Shield	Note 2	1 per 4.0 ft ²	Min. 0.25-inch Dens Deck Prime	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece / FAST 100, DASH 100-LV, Flexible DASH (FULL)	-45.0*
SC-14	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch Dens Deck followed by min. 2-inch Insulfoam VIII	Note 2	1 per 2.0 ft ²	Min. 2-inch Insulfoam HD Composite	Flexible DASH (Ribbon, 6-inch o.c.)	VersiGard Black VersiFleece or VersiGard White VersiFleece / Flexible DASH (FULL)	-45.0*
SC-15	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H or H-Shield	Note 2	1 per 1.6 ft ²	Min. 1.0-inch base insulation	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (Ribbon, 6-inch o.c.)	VersiGard Black VersiFleece or VersiGard White VersiFleece / FAST 100, DASH 100-LV, Flexible DASH (FULL)	-67.5
SC-16	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch Dens Deck followed by min. 3-inch Insulfoam VIII	InsulFAST with Sure-Seal Insulation Plates	1 per 2.0 ft ²	Min. 2-inch Insullam (OSB)	FAST 100LV (Ribbon, 6-inch o.c.)	VersiGard Black VersiFleece or VersiGard White VersiFleece / DASH 100-LV (FULL)	-75.0
SC-17	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield	Note 2	1 per 2.0 ft ²	Min. 0.25-inch Dens Deck Prime	DASH D-T (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece / DASH D-T (RIBBON, 12-inch o.c.)	-37.5*
SC-18	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield	Note 2	1 per 2.0 ft ²	Additional layers of base insulation	DASH D-T (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece / DASH D-T (RIBBON, 12-inch o.c.)	-45.0*

TABLE 2B-1: 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 18)	MDP (psf)
		Type	Fastener	Attach	Type	Attach		
SC-19	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield	Note 2	1 per 3.2 ft ²	Min. 1.0-inch base insulation	DASH D-T (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece / DASH D-T (FULL)	-45.0*
SC-20	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield	Note 2	1 per 3.2 ft ²	Min. 0.25-inch Dens Deck Prime	DASH D-T (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece / DASH D-T (FULL)	-45.0*
SC-21	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch Polyiso MP-H, VersiCore MP-H, H-Shield	Note 2	1 per 4.0 ft ²	Min. 1.0-inch base insulation	DASH D-T (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece / DASH D-T (FULL)	-45.0*
SC-22	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch Polyiso MP-H, VersiCore MP-H, H-Shield	Note 2	1 per 4.0 ft ²	Min. 0.25-inch Dens Deck Prime	DASH D-T (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece / DASH D-T (FULL)	-45.0*
SC-23	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield	Note 2	1 per 1.6 ft ²	Min. 1.0-inch base insulation	DASH D-T (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece / DASH D-T (FULL)	-67.5

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

System No.	Deck (Note 1)	Base Insulation Layer			Temp Roof	Insulation		Roof Cover (Note 18)	MDP (psf)
		Type	Fastener	Attach		Type	Attach		
MEMBRANE APPLIED IN FAST 100, DASH 100-LV, FLEXIBLE DASH:									
SC-24	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch Dens Deck Prime	Note 2	1 per 2 ft ²	CAV-GRIP or CCW-702 Quick Dry Primer followed by 725TR Air & Vapor Barrier, self-adhered	Min. 1.5-inch Polyiso MP-H	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (full or ribbon)	VersiGard Black VersiFleece or VersiGard White VersiFleece / FAST 100, DASH 100-LV, Flexible DASH (FULL)	-52.5

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

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 18)	MDP (psf)
			Type	Fasten	Attach		
MEMBRANE APPLIED IN G200SA YELLOW SUBSTRATE ADHESIVE:							
SC-25	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SecurShield HD or H-Shield HD	Note 2	1 per 2.66 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-37.5*
SC-26	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch thick Recovery Board	Note 2	1 per 2 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-45.0*
SC-27	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch thick Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-45.0*
SC-28	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1-inch Polyiso MP-H or H-Shield	Note 2	1 per 1.6 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-45.0*
SC-29	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, ACfoam II, ACfoam III, H-Shield CG, ENRGY 3, PSI-25, Multi-Max FA-3	Note 2	1 per 2 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-45.0*
SC-30	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, ACfoam II, ACfoam III, H-Shield CG, ENRGY 3, PSI-25, Multi-Max FA-3	Note 2	1 per 4 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-45.0*
SC-31	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Polyiso MP-H Composite, ACfoam Composite/FB, H-Shield-WF, ENRGY 3 Plus	Note 2	1 per 3 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-45.0*
SC-32	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N or HP-W, H-Shield, ENRGY 3 or ACfoam II	Min. 0.5-inch SecurShield HD Plus	Note 2	1 per 4 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-45.0*
SC-33	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1-inch Approved polyisocyanurate	Min. 0.5-inch Dens Deck Prime	Note 2	1 per 1.6 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-52.5
SC-34	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N or HP-W, H-Shield, ENRGY 3 or ACfoam II	Min. 0.5-inch SecurShield HD Plus	Note 2	1 per 1.78 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-60.0

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

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 18)	MDP (psf)
			Type	Fasten	Attach		
SC-35	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch SecurShield	Note 2	1 per 2 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-60.0
SC-36	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board, followed by min. 1.5-inch STYROFOAM DECKMATE Plus FA	Min. 0.5-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.3 ft ²	VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-67.5
SC-37	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Approved polyisocyanurate	Min. 0.5-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.3 ft ²	VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-67.5
SC-38	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ACFoam II, H-Shield or ENRGY 3.	Note 2	1 per 1.6 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-75.0
SC-39	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1-inch Approved polyisocyanurate	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-75.0
SC-40	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch Approved polyisocyanurate	Min. 7/16-inch APA rated OSB	Note 2	1 per 1.6 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-82.5
SC-41	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board, followed by min. 1.5-inch STYROFOAM DECKMATE Plus FA	Min. 0.5-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1 ft ²	VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-97.5
SC-42	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Approved polyisocyanurate	Min. 0.5-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1 ft ²	VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-97.5
SC-43	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Approved polyisocyanurate	Min. 7/16-inch APA rated OSB	Note 2	1 per 1 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-105.0
SC-44	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch SecurShield, SecurShield HD Composite or H-Shield HD Composite	Note 2	1 per 1 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-112.5
SC-45	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N or HP-W, H-Shield, ENRGY 3 or ACFoam II	Min. 0.5-inch SecurShield HD Plus	Note 2	1 per 1.33 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-112.5

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

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 18)	MDP (psf)
			Type	Fasten	Attach		
SC-46	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch SecurShield, SecurShield HD Composite or H-Shield HD Composite	Note 2	1 per 1 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / G200SA Yellow Substrate Adhesive	-127.5
MEMBRANE APPLIED IN AQUA BASE 120 BA ADHESIVE:							
SC-47	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Recovery Board or min. 0.25-inch Dens Deck Prime	Note 2	1 per 4 ft ²	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR / Aqua Base 120 BA	-30.0*
SC-48	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	None	Min. 0.5-inch Recovery Board	Note 2	1 per 2 ft ²	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR / Aqua Base 120 BA	-37.5*
SC-49	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, ENRGY 3	Min. 0.5-inch Recovery Board	Note 2	1 per 2 ft ²	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR / Aqua Base 120 BA	-45.0*
SC-50	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 2 ft ²	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR / Aqua Base 120 BA	-45.0*
SC-51	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 7/16" APA Rated oriented strand board	Note 2	1 per 2 ft ²	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR / Aqua Base 120 BA	-45.0*
SC-52	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1-inch Polyiso MP-H or H-Shield	Note 2	1 per 1.6 ft ²	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR / Aqua Base 120 BA	-45.0*
SC-53	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ACFoam II, H-Shield, ENRGY 3	Note 2	1 per 2 ft ²	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR / Aqua Base 120 BA	-45.0*
SC-54	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, ENRGY 3	Min. 0.5-inch Recovery Board	Note 2	1 per 2 ft ²	VersiGard Black VersiFleece or VersiGard White VersiFleece / Aqua Base 120 BA	-45.0*
SC-55	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 2 ft ²	VersiGard Black VersiFleece or VersiGard White VersiFleece / Aqua Base 120 BA	-45.0*
SC-56	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ACFoam II, H-Shield, ENRGY 3	Note 2	1 per 2 ft ²	VersiGard Black VersiFleece or VersiGard White VersiFleece / Aqua Base 120 BA	-45.0*
MEMBRANE APPLIED IN EPDM x-23 Low-VOC BONDING ADHESIVE:							
SC-57	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Polyiso MP-H or H-Shield	Note 2	1 per 3.2 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / EPDM x-23 Low-VOC Bonding Adhesive	-45.0*

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

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 18)	MDP (psf)
			Type	Fasten	Attach		
SC-58	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch Polyiso MP-H or H-Shield	Note 2	1 per 4 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / EPDM x-23 Low-VOC Bonding Adhesive	-45.0*
SC-59	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, Polyiso MP-H, VersiCore MP-H, MP-N, MP-W, H-Shield, ENRGY 3	Min. 0.5-inch Recovery Board	Note 2	1 per 2 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / EPDM x-23 Low-VOC Bonding Adhesive	-45.0*
SC-60	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2.0-inch Polyiso MP-H or H-Shield	Note 2	1 per 1.6 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / EPDM x-23 Low-VOC Bonding Adhesive	-75.0
SC-61	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch SecurShield	Note 2	1 per 1 ft ²	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR / EPDM x-23 Low-VOC Bonding Adhesive	-75.0
MEMBRANE APPLIED IN FAST 100, DASH 100-LV, FLEXIBLE DASH, DASH-DT:							
SC-62	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch SecurShield, H-Shield CG	Note 2	1 per 3.2 ft ²	VersiGard Black VersiFleece or VersiGard White VersiFleece / DASH D-T (RIBBON, 12-inch o.c.)	-45.0*
SC-63	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch Recovery Board	Note 2	1 per 2.0 ft ²	VersiGard Black VersiFleece or VersiGard White VersiFleece / Flexible DASH (RIBBON, 12-inch o.c.)	-45.0*
SC-64	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 0.5-inch Dens Deck Prime	Note 2	1 per 2.0 ft ²	VersiGard Black VersiFleece or VersiGard White VersiFleece / FAST 100, DASH 100-LV, Flexible DASH, DASH D-T (RIBBON, 12-inch o.c.)	-45.0*
SC-65	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N or HP-W, H-Shield, ENRGY 3 or ACFoam II	Min. 0.5-inch SecurShield HD Plus	Note 2	1 per 4 ft ²	VersiGard Black VersiFleece or VersiGard White VersiFleece / Flexible DASH (FULL)	-45.0*
SC-66	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N or HP-W, H-Shield, ENRGY 3 or ACFoam II	Min. 0.5-inch SecurShield HD Plus	Note 2	1 per 1.78 ft ²	VersiGard Black VersiFleece or VersiGard White VersiFleece / Flexible DASH (FULL)	-60.0
SC-67	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 7/16-inch APA or TECO rated OSB	Note 2	1 per 1.9 ft ²	VersiGard Black VersiFleece or VersiGard White VersiFleece / FAST 100, DASH 100-LV, Flexible DASH, DASH D-T (FULL)	-75.0
SC-68	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 0.5-inch Dens Deck Prime	Note 2	1 per 1 ft ²	VersiGard Black VersiFleece or VersiGard White VersiFleece / Flexible DASH (FULL)	-97.5
SC-69	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch Polyiso MP-H	Note 2	1 per 1 ft ²	VersiGard Black VersiFleece or VersiGard White VersiFleece / Flexible DASH (FULL)	-112.5

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

System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 18)	MDP (psf)
			Type	Fasten	Attach		
SC-70	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N or HP-W, H-Shield, ENRGY 3 or AC Foam II	Min. 0.5-inch SecurShield HD Plus	Note 2	1 per 1.33 ft ²	VersiGard Black VersiFleece or VersiGard White VersiFleece / Flexible DASH (FULL)	-112.5
SC-71	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1 ft ²	VersiGard Black VersiFleece or VersiGard White VersiFleece / Flexible DASH (FULL)	-127.5
SC-72	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch SecurShield	Note 2	1 per 1 ft ²	VersiGard Black VersiFleece or VersiGard White VersiFleece / Flexible DASH, DASH D-T (FULL)	-135.0
SC-73	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch thick, one or more layers, any combination, loose laid	Min 7/16-inch APA or TECO rated OSB	Note 2	1 per 1 ft ²	VersiGard Black VersiFleece or VersiGard White VersiFleece / FAST 100, DASH 100-LV, Flexible DASH, DASH D-T (FULL)	-135.0
SC-74	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Approved polyisocyanurate	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1 ft ²	VersiGard Black VersiFleece or VersiGard White VersiFleece / FAST 100, DASH 100-LV Flexible DASH, DASH D-T (FULL).	-135.0
MEMBRANE APPLIED IN VERSICO COLD APPLIED ADHESIVE:							
SC-75	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Recovery Board	Note 2	1 per 2 ft ²	VersiFleece AC EPDM / Versico Cold Applied Adhesive	-45.0*
SC-76	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime	Note 2	1 per 2 ft ²	VersiFleece AC EPDM / Versico Cold Applied Adhesive	-45.0*
SC-77	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch Polyiso MP-H, VersiCore MP-H, HP-N or HP-W	Note 2	1 per 1.6 ft ²	VersiFleece AC EPDM / Versico Cold Applied Adhesive	-60.0

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

System No.	Deck	Insulation		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners	Attachment	
SC-78	Min. 22 ga, type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5" thick, one or more layers, any combination	Prelim attach	VersiGard Reinforced Standard or VersiGard Reinforced FR (0.070" thick)	Versico HPV Fastener (steel only), HD 14-10, CD-10 (concrete only) or MP Concrete-Spike (concrete only) with 2 in. Polymer Plates	12-inch o.c. within 7-inch wide laps spaced 115-inch o.c.	-30.0
SC-79	Min. 22 ga, type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5" thick, one or more layers, any combination	Prelim attach	VersiGard Reinforced Standard or VersiGard Reinforced FR	Versico HPV Fastener (steel only), HD 14-10, CD-10 (concrete only) or MP Concrete-Spike (concrete only) with 2 in. Polymer Plates	12-inch o.c. within 6-inch wide laps spaced 90-inch o.c.	-30.0
SC-80	Min. 22 ga, type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5" thick, one or more layers, any combination	Prelim attach	VersiGard Reinforced Standard or VersiGard Reinforced FR	Versico HPV Fastener (steel only), HD 14-10, CD-10 (concrete only) or MP Concrete-Spike (concrete only) with 2 in. Polymer Plates	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c.	-37.5
SC-81	Min. 22 ga, type B, Grade 40 steel or min. 2,500 psi structural concrete	Min. 1.5" thick, one or more layers, any combination	Prelim attach	VersiGard Reinforced Standard or VersiGard Reinforced FR (0.070" thick)	Versico HPV Fastener (steel only), HD 14-10, CD-10 (concrete only) or MP Concrete-Spike (concrete only) with 2 in. Polymer Plates	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c.	-52.5
SC-82	Min. 22 ga, type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5" thick, one or more layers, any combination	Prelim attach	VersiGard Reinforced Standard or VersiGard Reinforced FR	Versico HPV Fastener (steel only), HD 14-10, CD-10 (concrete only) or MP Concrete-Spike (concrete only) with 2 in. Polymer Plates	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c.	-52.5
SC-83	Min. 22 ga, type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5" thick, one or more layers, any combination	Prelim attach	VersiGard Reinforced Standard or VersiGard Reinforced FR	Versico HPV Fastener (steel only), HD 14-10, CD-10 (concrete only) or MP Concrete-Spike (concrete only) with 2 in. Polymer Plates	6-inch o.c. within 6-inch wide laps spaced 90-inch o.c.	-52.5
SC-84	Min. 22 ga, type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5" thick, one or more layers, any combination	Prelim attach	VersiGard White VersiFleece 145	Versico HPV Fastener (steel only), HD 14-10, CD-10 (concrete only) or MP Concrete-Spike (concrete only) with 2 in. Polymer Plates	6-inch o.c. within 6-inch wide laps spaced 112-inch o.c.	-52.5
SC-85	Min. 22 ga, type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5" thick, one or more layers, any combination	Prelim attach	VersiGard Reinforced Standard or VersiGard Reinforced FR (0.070" thick)	Versico HPV Fastener (steel only), HD 14-10, CD-10 (concrete only) or MP Concrete-Spike (concrete only) with 2 in. Polymer Plates	6-inch o.c. within 7-inch wide laps spaced 115-inch o.c.	-60.0

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

System No.	Deck	Insulation		Roof Cover			MDP (psf)
		Type	Attach	Membrane	Fasteners	Attachment	
SC-86	Min. 22 ga, type B, Grade 40 steel or min. 2,500 psi structural concrete	Min. 1.5" thick, one or more layers, any combination	Prelim attach	VersiGard Reinforced Standard or VersiGard Reinforced FR	Versico HPV-X (steel only), HD 14-10 (concrete only), CD-10 (concrete only) or MP Concrete-Spike (concrete only) with Steel Battens or Sure-Tite Fasteners (steel only) with Sure-Tite Fastening Bar	Fasteners 12-inch o.c. through batten within 6-inch wide laps spaced 114-inch o.c.	-30.0
SC-87	Min. 22 ga, type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5" thick, one or more layers, any combination	Prelim attach	VersiGard Reinforced Standard or VersiGard Reinforced FR	Versico HPV-X (steel only), HD 14-10 (concrete only), CD-10 (concrete only) or MP Concrete-Spike (concrete only) with OMG Polymer Batten Strip.	Fasteners 12-inch o.c. through batten within 6-inch wide laps spaced 90-inch o.c.	-30.0
SC-88	Min. 22 ga, type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5" thick, one or more layers, any combination	Prelim attach	VersiGard Reinforced Standard or VersiGard Reinforced FR	Versico HPV-X (steel only), HD 14-10 (concrete only), CD-10 (concrete only) or MP Concrete-Spike (concrete only) with Steel Battens	Fasteners 12-inch o.c. through batten within 6-inch wide laps spaced 90-inch o.c.	-30.0
SC-89	Min. 22 ga, type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5" thick, one or more layers, any combination	Prelim attach	VersiGard Reinforced Standard or VersiGard Reinforced FR	Versico HPV-X (steel only), HD 14-10 (concrete only), CD-10 (concrete only) or MP Concrete-Spike (concrete only) with Steel Battens or Sure-Tite Fasteners (steel only) with Sure-Tite Fastening Bar	Fasteners 12-inch o.c. through batten within min. 5-inch wide laps spaced max 115-inch o.c.	-37.5
SC-90	Min. 22 ga, type B, Grade 80 steel	Min. 1.5" thick, one or more layers, any combination	Prelim attach	VersiGard Reinforced Standard or VersiGard Reinforced FR	Sure-Tite Fasteners (steel only) with Sure-Tite Fastening Bar	Fasteners 12-inch o.c. through batten within 6-inch wide laps spaced 114-inch o.c.	-45.0
SC-91	Min. 22 ga, type B, Grade 33 steel	Min. 1.5" thick, one or more layers, any combination	Prelim attach	VersiGard Reinforced Standard or VersiGard Reinforced FR	Sure-Tite Fasteners (steel only) with Sure-Tite Fastening Bar	Fasteners 12-inch o.c. through batten within 6-inch wide laps spaced 90-inch o.c.	-45.0
SC-92	Min. 22 ga, type B, Grade 40 steel or min. 2,500 psi structural concrete	Min. 1.5" thick, one or more layers, any combination	Prelim attach	VersiGard Reinforced Standard or VersiGard Reinforced FR	Versico HPV-X (steel only), HD 14-10 (concrete only), CD-10 (concrete only) or MP Concrete-Spike (concrete only) with Steel Battens or Sure-Tite Fasteners (steel only) with Sure-Tite Fastening Bar	Fasteners 6-inch o.c. through batten within 6-inch wide laps spaced 114-inch o.c.	-52.5
SC-93	Min. 22 ga, type B, Grade 80 steel	Min. 1.5" thick, one or more layers, any combination	Prelim attach	VersiGard Reinforced Standard or VersiGard Reinforced FR	Sure-Tite Fasteners (steel only) with Sure-Tite Fastening Bar	Fasteners 12-inch o.c. through batten within 6-inch wide laps spaced 90-inch o.c.	-52.5
SC-94	Min. 22 ga, type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5" thick, one or more layers, any combination	Prelim attach	VersiGard Reinforced Standard or VersiGard Reinforced FR	Versico HPV-X (steel only), HD 14-10 (concrete only), CD-10 (concrete only) or MP Concrete-Spike (concrete only) with Steel Battens or Sure-Tite Fasteners (steel only) with Sure-Tite Fastening Bar	Fasteners 6-inch o.c. through batten within min. 5-inch wide laps spaced max. 115-inch o.c.	-60.0
SC-95	Min. 22 ga, type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5" thick, one or more layers, any combination	Prelim attach	VersiGard Reinforced Standard or VersiGard Reinforced FR	Versico HPV-X (steel only), HD 14-10 (concrete only), CD-10 (concrete only) or MP Concrete-Spike (concrete only) with OMG Polymer Batten Strip.	Fasteners 6-inch o.c. through batten within 6-inch wide laps spaced 90-inch o.c.	-60.0
SC-96	Min. 22 ga, type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5" thick, one or more layers, any combination	Prelim attach	VersiGard Reinforced Standard or VersiGard Reinforced FR	Versico HPV-X (steel only), HD 14-10 (concrete only), CD-10 (concrete only) or MP Concrete-Spike (concrete only) with Steel Battens	Fasteners 6-inch o.c. through batten within 6-inch wide laps spaced 90-inch o.c.	-82.5

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1A: BONDED INSULATION, BONDED ROOF COVER
NOTE: REFER TO NOTE 19 FOR VAPOR BARRIER OPTIONS

System No.	Roof Deck	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 18)		MDP (psf)
		Type	Attach	Type	Attach	Membrane	Application	
MEMBRANE APPLIED IN G200SA YELLOW SUBSTRATE ADHESIVE:								
C-1.	Min. 2,500 psi structural concrete (primed)	Min. 0.5-inch Polyiso MP-H or H-Shield	Hot Asphalt	(Optional) Additional layers of base insulation	Hot Asphalt	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-157.5
C-2.	Min. 2,500 psi structural concrete (primed)	Min. 1.5-inch ACFoam II, ACFoam III, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ENRGY 3	Hot Asphalt	(Optional) Additional layers of base insulation	Hot Asphalt	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-330.0
C-3.	Min. 2,500 psi structural concrete (primed)	Min. 1.5-inch ACFoam II, ACFoam III, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ENRGY 3	Hot Asphalt	Min 0.5-inch HP Recover Board, GP High Density Roof Fiberboard or Temple Fiber Base HD1 or HD6	Hot Asphalt	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-330.0
C-4.	Min. 2,500 psi structural concrete (primed)	Min. 1.5-inch ACFoam II, ACFoam III, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ENRGY 3	Hot Asphalt	Min. 0.25-inch Dens Deck, Dens Deck Prime	Hot Asphalt	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-352.5
C-5.	Min. 2,500 psi structural concrete	Min. 0.5-inch Polyiso MP-H or H-Shield	FAST 100, DASH 100-LV, Flexible DASH, BIAB (full or ribbon)	(Optional) Additional layers of base insulation	FAST 100, DASH 100-LV, Flexible DASH, BIAB (full or ribbon)	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-157.5
C-6.	Min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, ACFoam III, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ENRGY 3	FAST 100, DASH 100-LV, Flexible DASH, BIAB (RIBBON)	Min 0.5-inch HP Recover Board	FAST 100, DASH 100-LV, Flexible DASH, BIAB (RIBBON)	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-157.5
C-7.	Min. 2,500 psi structural concrete	Min. 0.5-inch Polyiso MP-H or H-Shield	DASH 100-LV, Flexible DASH (full or ribbon)	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DASH 100-LV, Flexible DASH (full or ribbon)	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-157.5
C-8.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulLam (GYP)	Flexible DASH (FULL)	None	N/A	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-157.5
C-9.	Min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, ACFoam III, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ENRGY 3	FAST 100, DASH 100-LV, Flexible DASH, BIAB (full or ribbon)	Min. 0.25-inch Dens Deck, Dens Deck Prime	FAST 100, DASH 100-LV, Flexible DASH, BIAB (full or ribbon)	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-232.5

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1A: BONDED INSULATION, BONDED ROOF COVER
NOTE: REFER TO NOTE 19 FOR VAPOR BARRIER OPTIONS

System No.	Roof Deck	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 18)		MDP (psf)
		Type	Attach	Type	Attach	Membrane	Application	
C-10.	Min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, ACFoam III, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ENRGY 3	FAST 100, DASH 100-LV, Flexible DASH, BIAB (RIBBON)	(Optional) Additional layers of base insulation	FAST 100, DASH 100-LV, Flexible DASH, BIAB (RIBBON)	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-240.0
C-11.	Min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, ACFoam III, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ENRGY 3	FAST 100, DASH 100-LV, Flexible DASH, BIAB (RIBBON)	Min. 2-inch Polyiso MP-H Composite	FAST 100, DASH 100-LV, Flexible DASH, BIAB (RIBBON)	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-240.0
C-12.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SecurShield or H-Shield CG	BIAB	Min. 1.5-inch SecurShield HD Composite or H-Shield HD Composite	BIAB	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-240.0
C-13.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulLam (WF)	Flexible DASH (FULL)	None	N/A	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-255.0
C-14.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SecurShield or H-Shield CG	FAST 100, DASH 100-LV, Flexible DASH (full or ribbon)	Min. 1.5-inch SecurShield HD Composite or H-Shield HD Composite	FAST 100, DASH 100-LV, Flexible DASH (full or ribbon)	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-270.0
C-15.	Min. 2,500 psi structural concrete	Min. 1.5-inch Insulfoam HD Composite	Flexible DASH (FULL)	None	N/A	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-270.0
C-16.	Min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, ACFoam III, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ENRGY 3	FAST 100, DASH 100-LV, Flexible DASH (FULL)	(Optional) Additional layers of base insulation	FAST 100, DASH 100-LV, Flexible DASH (FULL)	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-330.0
C-17.	Min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, ACFoam III, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ENRGY 3	FAST 100, DASH 100-LV, Flexible DASH (FULL)	Min 0.5-inch HP Recover Board	FAST 100, DASH 100-LV, Flexible DASH (FULL)	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-330.0
C-18.	Min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, ACFoam III, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ENRGY 3	FAST 100, DASH 100-LV, Flexible DASH (FULL)	Min. 2-inch Polyiso MP-H Composite	FAST 100, DASH 100-LV, Flexible DASH (FULL)	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-330.0
C-19.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulLam (OSB)	Flexible DASH (FULL)	None	N/A	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-105.0

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1A: BONDED INSULATION, BONDED ROOF COVER
NOTE: REFER TO NOTE 19 FOR VAPOR BARRIER OPTIONS

System No.	Roof Deck	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 18)		MDP (psf)
		Type	Attach	Type	Attach	Membrane	Application	
C-20.	Min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield, SecurShield, H-Shield CG	DASH D-T (RIBBON)	(Optional) Additional layers of base insulation and/or min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or Dens Deck Prime	DASH D-T (RIBBON)	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-112.5
C-21.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield, SecurShield, H-Shield CG	DASH D-T (RIBBON)	Min. 1.5-inch SecurShield HD Composite or H-Shield HD Composite or min. 2-inch Polyiso MP-H Composite	DASH D-T (RIBBON)	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-112.5
C-22.	Min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield	DASH D-T (FULL)	(Optional) Additional layers of base insulation and/or Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DASH D-T (FULL)	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-157.5
C-23.	Min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield	DASH D-T (FULL)	Min. 0.25-inch Dens Deck Prime	DASH D-T (FULL)	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-232.5
C-24.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield, SecurShield, H-Shield CG	DASH D-T (FULL)	Min. 1.5-inch SecurShield HD Composite or H-Shield HD Composite	DASH D-T (FULL)	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-270.0
C-25.	Min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield	DASH D-T (FULL)	(Optional) Additional layers of base insulation	DASH D-T (FULL)	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-330.0
C-26.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield, SecurShield, H-Shield CG	DASH D-T (FULL)	Min. 2-inch Polyiso MP-H Composite	DASH D-T (FULL)	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-330.0
C-27.	Min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, ACFoam III, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ENRGY 3	OB500	Min 0.5-inch HP Recover Board	OB500	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-120.0
C-28.	Min. 2,500 psi structural concrete	Min. 1.0-inch Foamular 250	OB500	Min 0.5-inch HP Recover Board	OB500	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-120.0

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1A: BONDED INSULATION, BONDED ROOF COVER
NOTE: REFER TO NOTE 19 FOR VAPOR BARRIER OPTIONS

System No.	Roof Deck	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 18)		MDP (psf)
		Type	Attach	Type	Attach	Membrane	Application	
C-29.	Min. 2,500 psi structural concrete	Min. 2.0-inch, min. 1.0 pcf, FM Approved ASTM C578 expanded polystyrene	OB500	Min. 0.25-inch Dens Deck or Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-120.0
C-30.	Min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, ACFoam III, HP-N, HP-W, ENRGY 3	OB500	(Optional) Additional layers of base insulation	OB500	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-150.0
C-31.	Min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, ACFoam III, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ENRGY 3	OB500	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-150.0
C-32.	Min. 2,500 psi structural concrete	Min. 0.5-inch Polyiso MP-H or H-Shield	OB500	(Optional) Additional layers of base insulation	OB500	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-157.5
C-33.	Min. 2,500 psi structural concrete	Min. 1.0-inch STYROFOAM DECKMATE Plus FA	OB500	Min. 0.25-inch Dens Deck, Dens Deck Prime	OB500	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-232.5
C-34.	Min. 2,500 psi structural concrete	Min. 1.0-inch Foamular 250	OB500	Min. 0.25-inch Dens Deck or Dens Deck Prime	OB500	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-277.5
MEMBRANE APPLIED IN AQUA BASE 120 BA ADHESIVE:								
C-35.	Min. 2,500 psi structural concrete (primed)	(Optional) Min. 1.5-inch ACFoam II, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, ENRGY 3	Hot Asphalt	Min. 0.5-inch Recovery Board	Hot Asphalt	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-90.0
C-36.	Min. 2,500 psi structural concrete (primed)	Min. 0.5-inch Polyiso MP-H or H-Shield	Hot Asphalt	(Optional) Additional layers of base insulation	Hot Asphalt	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-157.5
C-37.	Min. 2,500 psi structural concrete (primed)	Min. 1.5-inch ACFoam II, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, ENRGY 3	Hot Asphalt	(Optional) Additional layers of base insulation	Hot Asphalt	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-165.0

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1A: BONDED INSULATION, BONDED ROOF COVER
NOTE: REFER TO NOTE 19 FOR VAPOR BARRIER OPTIONS

System No.	Roof Deck	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 18)		MDP (psf)
		Type	Attach	Type	Attach	Membrane	Application	
C-38.	Min. 2,500 psi structural concrete (primed)	(Optional) Min. 1.5-inch AC Foam II, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, ENRGY 3	Hot Asphalt	Min. 0.25-inch Dens Deck Prime	Hot Asphalt	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-165.0
C-39.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, AC Foam II, H-Shield, ENRGY 3	FAST 100, DASH 100-LV, Flexible DASH, BIAB (full or ribbon)	Min. 0.5-inch Recovery Board	FAST 100, DASH 100-LV, Flexible DASH, BIAB (full or ribbon)	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-90.0
C-40.	Min. 2,500 psi structural concrete	Min. 1-inch Insulfoam I	Flexible DASH, BIAB (full or ribbon)	Min. 0.5-inch Recovery Board	Flexible DASH, BIAB (full or ribbon)	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-90.0
C-41.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulLam (WF)	Flexible DASH (FULL)	None	N/A	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-90.0
C-42.	Min. 2,500 psi structural concrete	Min. 0.5-inch Polyiso MP-H or H-Shield	FAST 100, DASH 100-LV, Flexible DASH, BIAB (full or ribbon)	(Optional) Additional layers of base insulation	FAST 100, DASH 100-LV, Flexible DASH, BIAB (full or ribbon)	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-157.5
C-43.	Min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, AC Foam II, H-Shield, ENRGY 3	FAST 100, DASH 100-LV, Flexible DASH, BIAB (full or ribbon)	(Optional) Additional layers of base insulation	FAST 100, DASH 100-LV, Flexible DASH, BIAB (full or ribbon)	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-165.0
C-44.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, AC Foam II, H-Shield, ENRGY 3	FAST 100, DASH 100-LV, Flexible DASH, BIAB (full or ribbon)	Min. 0.25-inch Dens Deck Prime	FAST 100, DASH 100-LV, Flexible DASH, BIAB (full or ribbon)	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-165.0
C-45.	Min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, AC Foam II, H-Shield, ENRGY 3	FAST 100, DASH 100-LV, Flexible DASH (FULL)	(Optional) Additional layers of base insulation	FAST 100, DASH 100-LV, Flexible DASH (FULL)	VersiGard Black VersiFleece or VersiGard White VersiFleece	Aqua Base 120 BA	-232.5
C-46.	Min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H or H-Shield	DASH D-T (RIBBON)	(Optional) Additional layers of base insulation	DASH D-T (RIBBON)	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-112.5
C-47.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield, SecurShield, H-Shield CG	DASH D-T (RIBBON)	Min. 0.25-inch Dens Deck Prime	DASH D-T (RIBBON)	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-112.5
C-48.	Min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H or H-Shield	DASH D-T (FULL)	(Optional) Additional layers of base insulation	DASH D-T (FULL)	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-165.0

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1A: BONDED INSULATION, BONDED ROOF COVER
NOTE: REFER TO NOTE 19 FOR VAPOR BARRIER OPTIONS

System No.	Roof Deck	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 18)		MDP (psf)
		Type	Attach	Type	Attach	Membrane	Application	
C-49.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield, SecurShield, H-Shield CG	DASH D-T (FULL)	Min. 0.25-inch Dens Deck Prime	DASH D-T (FULL)	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-165.0
C-50.	Min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield	DASH D-T (FULL)	(Optional) Additional layers of base insulation	DASH D-T (FULL)	VersiGard Black VersiFleece or VersiGard White VersiFleece	Aqua Base 120 BA	-232.5
C-51.	Min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, ENRGY 3	OB500	(Optional) Additional layers of base insulation	OB500	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-105.0
C-52.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch ACFoam II, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, ENRGY 3	OB500	Min. 0.5-inch Recovery Board	OB500	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-90.0
C-53.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch ACFoam II, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, ENRGY 3	OB500	Min. 0.25-inch Dens Deck Prime	OB500	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-150.0
MEMBRANE APPLIED IN EPDM x-23 LOW-VOC BONDING ADHESIVE:								
C-54.	Min. 2,500 psi structural concrete	Min. 0.5-inch Polyiso MP-H or H-Shield	DASH 100-LV, Flexible DASH (full or ribbon)	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DASH 100-LV, Flexible DASH (full or ribbon)	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	EPDM x-23 Low-VOC Bonding Adhesive	-75.0
C-55.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulLam (GYP)	Flexible DASH (FULL)	None	N/A	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	EPDM x-23 Low-VOC Bonding Adhesive	-75.0
C-56.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SecurShield or H-Shield CG	BIAB	Min. 1.5-inch SecurShield HD Composite or H-Shield HD Composite	BIAB	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	EPDM x-23 Low-VOC Bonding Adhesive	-240.0
C-57.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SecurShield or H-Shield CG	FAST 100, DASH 100-LV, Flexible DASH, BIAB (RIBBON)	Min. 1.5-inch SecurShield HD Composite or H-Shield HD Composite	FAST 100, DASH 100-LV, Flexible DASH, BIAB (RIBBON)	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	EPDM x-23 Low-VOC Bonding Adhesive	-285.0
C-58.	Min. 2,500 psi structural concrete	Min. 1.5-inch Insulfoam HD Composite	Flexible DASH (FULL)	None	N/A	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	EPDM x-23 Low-VOC Bonding Adhesive	-472.5

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1A: BONDED INSULATION, BONDED ROOF COVER
NOTE: REFER TO NOTE 19 FOR VAPOR BARRIER OPTIONS

System No.	Roof Deck	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 18)		MDP (psf)
		Type	Attach	Type	Attach	Membrane	Application	
C-59.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SecurShield or H-Shield CG	FAST 100, DASH 100-LV, Flexible DASH (FULL)	Min. 1.5-inch SecurShield HD Composite or H-Shield HD Composite	FAST 100, DASH 100-LV, Flexible DASH (FULL)	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	EPDM x-23 Low-VOC Bonding Adhesive	-495.0
C-60.	Min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H or H-Shield	DASH D-T (FULL or RIBBON)	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DASH D-T (FULL or RIBBON)	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	EPDM x-23 Low-VOC Bonding Adhesive	-75.0
C-61.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield, SecurShield, H-Shield CG	DASH D-T (RIBBON)	Min. 1.5-inch SecurShield HD Composite or H-Shield HD Composite	DASH D-T (RIBBON)	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	EPDM x-23 Low-VOC Bonding Adhesive	-112.5
C-62.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield, SecurShield, H-Shield CG	DASH D-T (FULL)	Min. 1.5-inch SecurShield HD Composite or H-Shield HD Composite	DASH D-T (FULL)	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	EPDM x-23 Low-VOC Bonding Adhesive	-382.5
MEMBRANE APPLIED IN FAST 100, DASH 100-LV, FLEXIBLE DASH, DASH D-T:								
C-63.	Min. 2,500 psi structural concrete	Min. 1-inch Insulfoam I	Flexible DASH (RIBBON)	Min. 0.5-inch Recovery Board	Flexible DASH (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-142.5
C-64.	Min. 2,500 psi structural concrete	Min. 1-inch Insulfoam I	BIAB	Min. 0.5-inch Recovery Board	BIAB	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-157.5
C-65.	Min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, ENRGY 3, ACfoam II	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (RIBBON)	Min. 0.5-inch Recovery Board	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-157.5
C-66.	Min. 2,500 psi structural concrete	Min. 1.5-inch Kingspan GreenGuard or Foamular 150 or Min. 1.0-inch Dow STYROFOAM ROOFMATE	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (RIBBON)	Min. 0.5-inch Recovery Board	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-157.5
C-67.	Min. 2,500 psi structural concrete	(Optional) Polyiso MP-H, VersiCore MP-H, HP-N, or HP-W, ENRGY 3, H-Shield, or AC Foam II	FAST 100 or DASH 100-LV, Flexible DASH (FULL)	Polyiso MP-HNB, DuraFaceR, H-Shield-NB	FAST 100 or DASH 100-LV, Flexible DASH (FULL)	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH, DASH D-T (FULL)	-187.5
C-68.	Min. 2,500 psi structural concrete	Min. 0.5-inch Recovery Board	Flexible DASH (RIBBON)	None	N/A	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-202.5

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1A: BONDED INSULATION, BONDED ROOF COVER
NOTE: REFER TO NOTE 19 FOR VAPOR BARRIER OPTIONS

System No.	Roof Deck	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 18)		MDP (psf)
		Type	Attach	Type	Attach	Membrane	Application	
C-69.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N, or HP-W, ENRGY 3, H-Shield, or AC Foam II	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (RIBBON)	Min. 7/16-inch APA rated OSB or min. 0.25-inch Dens Deck or Dens Deck Prime	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-240.0
C-70.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N, or HP-W, ENRGY 3, H-Shield, or AC Foam II	FAST 100, DASH 100-LV, Flexible DASH, BIAB (RIBBON)	Min. 7/16-inch APA rated OSB or min. 0.25-inch Dens Deck Prime	FAST 100, DASH 100-LV, Flexible DASH, BIAB (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece	DASH D-T (FULL)	-240.0
C-71.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulLam (WF)	Flexible DASH (FULL)	None	N/A	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-255.0
C-72.	Min. 2,500 psi structural concrete	Min. 1-inch Insulfoam I	Flexible DASH (FULL)	Min. 0.5-inch Recovery Board	Flexible DASH (FULL)	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-300.0
C-73.	Min. 2,500 psi structural concrete	Min. 1-inch FM Approved EPS (BASF, NOVA, or Huntsman beads)	FAST 100 or DASH 100-LV, Flexible DASH (FULL)	Min. 0.5-inch Recovery Board	FAST 100 or DASH 100-LV, Flexible DASH (FULL)	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-322.5
C-74.	Min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, ENRGY 3, AC Foam II	FAST 100 or DASH 100-LV, Flexible DASH (FULL)	Min. 0.5-inch Recovery Board	FAST 100 or DASH 100-LV, Flexible DASH (FULL)	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-330.0
C-75.	Min. 2,500 psi structural concrete	Min. 1.5-inch Kingspan GreenGuard or Foamular 150 or Min. 1.0-inch Dow STYROFOAM ROOFMATE	FAST 100 or DASH 100-LV, Flexible DASH (FULL)	Min. 0.5-inch Recovery Board	FAST 100 or DASH 100-LV, Flexible DASH (FULL)	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-330.0
C-76.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N, or HP-W, ENRGY 3, H-Shield, or AC Foam II	FAST 100, DASH 100-LV, Flexible DASH (FULL)	Min. 7/16-inch APA rated OSB or min. 0.25-inch Dens Deck Prime	FAST 100, DASH 100-LV, Flexible DASH (FULL)	VersiGard Black VersiFleece or VersiGard White VersiFleece	DASH D-T (FULL)	-382.5
C-77.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N, or HP-W, ENRGY 3, H-Shield, or AC Foam II	FAST 100 or DASH 100-LV, Flexible DASH (FULL)	Min. 7/16-inch APA rated OSB or min. 0.25-inch Dens Deck or Dens Deck Prime	FAST 100 or DASH 100-LV, Flexible DASH (FULL)	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-457.5
C-78.	Min. 2,500 psi structural concrete	Min. 1.5-inch InsulLam (OSB)	Flexible DASH (FULL)	None	N/A	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-457.5

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1A: BONDED INSULATION, BONDED ROOF COVER
NOTE: REFER TO NOTE 19 FOR VAPOR BARRIER OPTIONS

System No.	Roof Deck	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 18)		MDP (psf)
		Type	Attach	Type	Attach	Membrane	Application	
C-79.	Min. 2,500 psi structural concrete	Elastospray 81255 spray applied to min. 1.5-inch thick	N/A	None	N/A	VersiGard Black VersiFleece or VersiGard White VersiFleece	DASH 100-LV (FULL).	-495.0
C-80.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield, SecurShield, H-Shield CG	DASH D-T (RIBBON)	Polyiso MP-HNB, DuraFaceR, H-Shield NB	DASH D-T (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH, DASH D-T (FULL)	-112.5
C-81.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield, SecurShield, H-Shield CG	DASH D-T (RIBBON)	Min. 7/16-inch APA rated OSB or min. 0.25-inch Dens Deck Prime	DASH D-T (RIBBON)	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH, DASH D-T (FULL)	-112.5
C-82.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield, SecurShield, H-Shield CG	DASH D-T (FULL)	Polyiso MP-HNB, DuraFaceR, H-Shield NB	DASH D-T (FULL)	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH, DASH D-T (FULL)	-187.5
C-83.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield, SecurShield, H-Shield CG	DASH D-T (FULL)	Min. 7/16-inch APA rated OSB or min. 0.25-inch Dens Deck Prime	DASH D-T (FULL)	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH, DASH D-T (FULL)	-382.5
MEMBRANE APPLIED IN HOT ASPHALT:								
C-84.	Min. 2,500 psi structural concrete (primed)	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N or HP-W	HA	Min. 0.5-inch Recovery Board	HA	VersiFleece AC EPDM	Hot Asphalt	-150.0
MEMBRANE APPLIED IN VERSICO COLD APPLIED ADHESIVE:								
C-85.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N or HP-W	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (RIBBON)	Min. 0.5-inch Recovery Board	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (RIBBON)	VersiFleece AC EPDM	Versico Cold Applied Adhesive	-157.5
C-86.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N or HP-W	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (RIBBON)	Min. 0.25-inch Dens Deck or Dens Deck Prime	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (RIBBON)	VersiFleece AC EPDM	Versico Cold Applied Adhesive	-240.0
C-87.	Min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N or HP-W	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (RIBBON)	(Optional) Additional layers of base insulation	FAST 100 or DASH 100-LV, Flexible DASH, BIAB (RIBBON)	VersiFleece AC EPDM	Versico Cold Applied Adhesive	-240.0
C-88.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N or HP-W	FAST 100 or DASH 100-LV, Flexible DASH (FULL)	Min. 0.5-inch Recovery Board	FAST 100 or DASH 100-LV, Flexible DASH (FULL)	VersiFleece AC EPDM	Versico Cold Applied Adhesive	-330.0
C-89.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N or HP-W	FAST 100 or DASH 100-LV, Flexible DASH (FULL)	Min. 0.25-inch Dens Deck or Dens Deck Prime	FAST 100 or DASH 100-LV, Flexible DASH (FULL)	VersiFleece AC EPDM	Versico Cold Applied Adhesive	-375.0

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1A: BONDED INSULATION, BONDED ROOF COVER
 NOTE: REFER TO NOTE 19 FOR VAPOR BARRIER OPTIONS

System No.	Roof Deck	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 18)		MDP (psf)
		Type	Attach	Type	Attach	Membrane	Application	
C-90.	Min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, HP-N or HP-W	FAST 100 or DASH 100-LV, Flexible DASH (FULL)	(Optional) Additional layers of base insulation	FAST 100 or DASH 100-LV, Flexible DASH (FULL)	VersiFleece AC EPDM	Versico Cold Applied Adhesive	-457.5
C-91.	Min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield	DASH D-T (RIBBON)	(Optional) Additional layers of base insulation	DASH D-T (RIBBON)	VersiFleece AC EPDM	Versico Cold Applied Adhesive	-112.5
C-92.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield	DASH D-T (RIBBON)	Min. 0.25-inch Dens Deck Prime	DASH D-T (RIBBON)	VersiFleece AC EPDM	Versico Cold Applied Adhesive	-112.5
C-93.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield	DASH D-T (RIBBON)	Min. 0.25-inch Dens Deck Prime	DASH D-T (RIBBON)	VersiFleece AC EPDM	Versico Cold Applied Adhesive	-375.0
C-94.	Min. 2,500 psi structural concrete	Min. 1.5-inch Polyiso MP-H, VersiCore MP-H, H-Shield	DASH D-T (RIBBON)	(Optional) Additional layers of base insulation	DASH D-T (RIBBON)	VersiFleece AC EPDM	Versico Cold Applied Adhesive	-382.5

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

System No.	Roof Deck	Roof Cover (Note 18)		MDP (psf)
		Membrane	Application	
C-95.	Min. 2,500 psi structural concrete	VersiGard White Standard	G200SA Yellow Substrate Adhesive	-240.0
C-96.	Min. 2,500 psi structural concrete	VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-240.0
C-97.	Min. 2,500 psi structural concrete	VersiGard Non-Reinforced	G200SA Yellow Substrate Adhesive	-315.0
C-98.	Min. 2,500 psi structural concrete	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-495.0
C-99.	Min. 2,500 psi structural concrete	VersiFleece AC EPDM	Hot Asphalt	-97.5
C-100.	Min. 2,500 psi structural concrete primed with CCW-702 or D41 primer	VersiFleece AC EPDM	Hot Asphalt	-495.0

**TABLE 4A: LIGHTWEIGHT CONCRETE 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)	LWC (Note 15)	Anchor Sheet			Insulation			Roof Cover (Note 18)	MDP (psf)
			Type	Fasteners	Attach	Base	Top	Attach		
LWC-1	Min. 22 ga., Type B, Grade 33 vented steel or min. 2,500 psi structural concrete	Min. 250 psi, Min. 2-inch thick, Elastizell Range II LWIC	Perma Ply 28	OMG CR Assembled Base Sheet Fasteners	9-inch o.c. in the 3-inch side lap and 9-inch o.c. in two staggered rows in the center of the sheet	Min. 1.0-inch Polyiso MP-H, VersiCore MP-H, HP-N or HP-W, H-Shield, AC Foam II, or ENRGY 3	Min. 1.0-inch Recovery Board	Hot asphalt	VersiFleece AC EPDM / Hot asphalt	-45.0

**TABLE 4B: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE – NEW CONSTRUCTION
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck (Note 1)	LWC (Note 15)		Roof Cover (Note 18)		MDP (psf)
		Type	Surface Treatment	Membrane	Application	
MEMBRANE APPLIED IN FAST 100, DASH 100-LV, FLEXIBLE DASH:						
LWC-2	Min. 22 ga., Type BV, Grade 33 steel; max. 6 ft spans.	Min. 27 pcf wet cast density, min. 250 psi, min. 2-inch thick, Elastizell Range II LWIC	None	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-30.0
LWC-3	Min. 22 ga., Type BV, Grade 33 steel; max. 5 ft spans.	Min. 27 pcf wet cast density, min. 250 psi, min. 2-inch thick, Elastizell Range II LWIC	None	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-45.0
LWC-4	Min. 22 ga., Type BV, Grade 33 steel; max. 5 ft spans; primed with Zell Bonding Agent.	Min. 27 pcf wet cast density, min. 250 psi, min. 2-inch thick, Elastizell Range II LWIC	None	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-60.0
LWC-5	Min. 22 ga., Type BV, Grade 33 steel; max. 6 ft spans	Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete.	(Optional) Celcore PVA Curing Compound	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-60.0
LWC-6	Min. 22 ga., Type BV, Grade 33 steel; max. 4 ft spans.	Min. 38 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture.	Celcore PVA Curing Compound	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-67.5
LWC-7	Min. 22 ga., Type BV, Grade 33 steel; max. 6 ft spans	Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete. When walkable, LWIC is attached with Versico HPV Fasteners & Insulation Plates at a density of 1 per 9 ft ² .	(Optional) Celcore PVA Curing Compound	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-67.5
LWC-8	Min. 2,500 psi structural concrete	Min. 27 pcf wet cast density, min. 250 psi, min. 2-inch thick, Elastizell Range II LWIC	None	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-90.0
LWC-9	Min. 22 ga., Type BV, Grade 33 steel; max. 6 ft spans	Min. 36 pcf wet cast density, min. 200 psi, min. 2-inch thick Celcore MF Cellular Concrete. When walkable, LWIC is attached with Versico HPV Fasteners & Insulation Plates at a density of 1 per 1 ft ² .	(Optional) Celcore PVA Curing Compound	VersiGard Black VersiFleece or VersiGard White VersiFleece	FAST 100, DASH 100-LV, Flexible DASH (FULL)	-120.0

TABLE 5A: RECOVER APPLICATIONS
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Substrate (Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 18)		MDP (psf)
		Type	Attach	Type	Attach	Membrane	Application	
MEMBRANE APPLIED IN G200SA YELLOW SUBSTRATE ADHESIVE:								
R-1	Existing asphaltic BUR	Min. 1.5-inch ACFoam II, ACFoam III, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ENRGY 3	Hot Asphalt	(Optional) Additional layers of base insulation	Hot Asphalt	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-330.0
R-2	Existing asphaltic BUR	Min. 1.5-inch ACFoam II, ACFoam III, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ENRGY 3	Hot Asphalt	Min 0.5-inch HP Recover Board, GP High Density Roof Fiberboard or Temple Fiber Base HD1 or HD6	Hot Asphalt	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-330.0
R-3	Existing asphaltic BUR	Min. 1.5-inch ACFoam II, ACFoam III, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ENRGY 3	Hot Asphalt	Min. 0.25-inch Dens Deck, Dens Deck Prime	Hot Asphalt	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-352.5
R-4	Existing asphaltic BUR or mineral surface cap	Min. 1.5-inch ACFoam II, ACFoam III, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ENRGY 3	OB500	(Optional) Additional layers of base insulation	OB500	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-120.0
R-5	Existing asphaltic BUR or mineral surface cap	Min. 1.5-inch ACFoam II, ACFoam III, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, ENRGY 3	OB500	Min 0.5-inch HP Recover Board, GP High Density Roof Fiberboard or Temple Fiber Base HD1 or HD6 or min. 0.25-inch Dens Deck or Dens Deck Prime	OB500	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-120.0
R-6	Existing asphaltic BUR or mineral surface cap	Min. 1.0-inch Foamular 250 or STYROFOAM DECKMATE Plus FA or min. 2.0-inch, min. 1.0 pcf, FM Approved ASTM C578 expanded polystyrene	OB500	Min 0.5-inch HP Recover Board, GP High Density Roof Fiberboard or Temple Fiber Base HD1 or HD6 or min. 0.25-inch Dens Deck or Dens Deck Prime	OB500	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-120.0
R-7	Existing asphaltic BUR or mineral surface cap	Min. 1.0-inch Foamular 250	OB500	Min. 0.25-inch Dens Deck or Dens Deck Prime	OB500	VersiGard Non-Reinforced, VersiGard White Standard, VersiGard Reinforced Standard or VersiGard Reinforced FR	G200SA Yellow Substrate Adhesive	-120.0
MEMBRANE APPLIED IN AQUA BASE 120 BA ADHESIVE:								
R-8	Existing asphaltic BUR	Min. 1.5-inch ACFoam II, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, ENRGY 3	Hot Asphalt	(Optional) Additional layers of base insulation	Hot Asphalt	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-165.0
R-9	Existing asphaltic BUR	(Optional) Min. 1.5-inch ACFoam II, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, ENRGY 3	Hot Asphalt	Min. 0.5-inch Recovery Board	Hot Asphalt	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-90.0

**TABLE 5A: RECOVER APPLICATIONS
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 18)		MDP (psf)
		Type	Attach	Type	Attach	Membrane	Application	
R-10	Existing asphaltic BUR	(Optional) Min. 1.5-inch ACFoam II, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, ENRGY 3	Hot Asphalt	Min. 0.25-inch Dens Deck Prime	Hot Asphalt	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-165.0
R-11	Existing asphaltic BUR or mineral surface cap	Min. 1.5-inch ACFoam II, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, ENRGY 3	OB500	(Optional) Additional layers of base insulation	OB500	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-105.0
R-12	Existing asphaltic BUR or mineral surface cap	(Optional) Min. 1.5-inch ACFoam II, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, ENRGY 3	OB500	Min. 0.5-inch Recovery Board	OB500	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-90.0
R-13	Existing asphaltic BUR or mineral surface cap	(Optional) Min. 1.5-inch ACFoam II, Polyiso MP-H, VersiCore MP-H, HP-N, HP-W, H-Shield, ENRGY 3	OB500	Min. 0.25-inch Dens Deck Prime	OB500	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	Aqua Base 120 BA	-150.0
MEMBRANE APPLIED IN EPDM x-23 LOW-VOC BONDING ADHESIVE:								
R-14	Existing asphaltic BUR or mineral surface cap	Min. 0.5-inch Polyiso MP-H or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	EPDM x-23 Low-VOC Bonding Adhesive	-75.0
R-15	Existing asphaltic BUR or mineral surface cap	Min. 1.5-inch Insullam (GYP)	OB500	None	N/A	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	EPDM x-23 Low-VOC Bonding Adhesive	-75.0
R-16	Existing asphaltic BUR or mineral surface cap	Min. 1.5-inch Insulfoam HD Composite	OB500	None	N/A	VersiGard Non-Reinforced, VersiGard Reinforced Standard or VersiGard Reinforced FR	EPDM x-23 Low-VOC Bonding Adhesive	-120.0

**TABLE 5B: RECOVER APPLICATIONS
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Substrate (Note 12)	Roof Cover (Note 18)		MDP (psf)
		Membrane	Application	
R-17	Existing, fully-adhered EPDM roof cover over insulated steel deck	VersiGard Black VersiFleece or VersiGard White VersiFleece	DASH 100-LV, Flexible DASH (RIBBON, 12-inch o.c.)	-30.0
R-18	Existing asphaltic BUR	VersiFleece AC EPDM	Versico Cold Applied Adhesive	-60.0
R-19	Existing, fully-adhered EPDM roof cover over insulated steel deck	VersiGard Black VersiFleece or VersiGard White VersiFleece	DASH 100-LV, Flexible DASH (RIBBON, 6-inch o.c. or FULL)	-75.0
R-20	Existing, fully-adhered EPDM roof cover over insulated or non-insulated structural concrete deck	VersiGard Black VersiFleece or VersiGard White VersiFleece	DASH 100-LV, Flexible DASH (FULL)	-315.0