



NEMO|etc.

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ENGINEER

TEST

CONSULT

P.E. EVALUATION REPORT (PEER)

Performance Roof Systems, Inc.

A SOPREMA Group Company

4800 Dr. Martin Luther King Jr. Blvd.
Kansas City, MO 64130
(816) 921-0221

PEER-SOPPRS-008.A.R16

FL16290-R14 (NON-HVHZ)

Date of Issuance: 06/12/2006

Revision 16: 10/14/2024

SCOPE:

This P.E. Evaluation Report (henceforth 'PEER') is issued under F.A.C. [Rule 61G20-3](#) and the applicable rules and regulations governing the use of construction materials in the State of Florida and the [Third-Party Evaluation Report](#) acceptance by the Texas Department of Insurance. The documentation submitted has been reviewed by Robert Nieminen, P.E. for compliance with the **8th Edition (2023) Florida Building Code and 2018 International Building Code** [sections noted herein](#).

DESCRIPTION: Derbigum Modified Bitumen Roof Systems (NON-HVHZ)

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

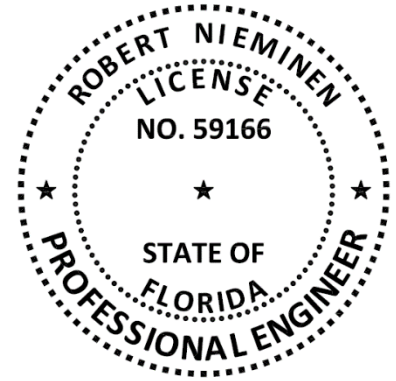
CONTINUED COMPLIANCE: This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our PEERs by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of its PEER relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: "NEMO P.E. Evaluated" may be displayed in advertising literature. If any portion of the PEER is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire PEER 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 PEER consists of pages 1 through 6, plus a 60-page Appendix.

Prepared by:



CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the PEERs are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. Robert Nieminen, P.E. is also Registered in the State of Texas; PE-96420.
6. This is a building code evaluation. Neither NEMO|etc. nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

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ROOFING SYSTEMS EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Modified Bitumen Roof Systems
Product Approval Method: Method 1, Option D – Codified Material, Evaluation by Engineer
Compliance Statement: Derbigum Modified Bitumen Roof Systems, as produced by Performance Roof Systems, Inc., have demonstrated compliance with the following sections of the referenced Building Codes through testing in accordance with the following Standards. Compliance is subject to the [Installation Requirements](#) and [Limitations of Use](#) set forth herein.

2. STANDARDS:

CODE	SECTION	PROPERTY	STANDARD
2023 Florida Building Code	1504.3.1	Wind resistance	FM 4474
	1504.6	Physical properties	ASTM G155
	1504.7	Impact resistance	FM 4470, Section 4.6
	1507.11.2	Material standard	ASTM D6162, D6163, D6164, D6222, D6223, D6298, D6509
2018 International Building Code	1504.3.1	Wind resistance	FM 4474
	1504.6	Physical properties	ASTM G155
	1504.7	Impact resistance	FM 4470, Section 4.6
	1507.11.2	Material standard	ASTM D6162, D6163, D6164, D6222, D6223, D6298, D6509

3. REFERENCES:

ENTITY	EXAMINATION	REFERENCE	DATE
PRI-CMT (TST5878)	ASTM D6222	PRS-057-02-01	10/06/15
PRI-CMT (TST5878)	ASTM D6222/G155	PRS-066-02-01	05/02/17
PRI-CMT (TST5878)	ASTM D6222/G155	691T001	04/03/20
PRI-CMT (TST5878)	ASTM D6223/G155	691T002	04/03/20
PRI-CMT (TST5878)	ASTM D6223/G155	691T003	04/03/20
PRI-CMT (TST5878)	ASTM D6509	691T0017	09/15/21
PRI-CMT (TST5878)	ASTM D6509	691T0016	09/16/21
PRI-CMT (TST5878)	ASTM D6222/G155	691T0018	10/01/21
PRI-CMT (TST5878)	ASTM D6223/G155	691T0020	10/01/21
PRI-CMT (TST5878)	ASTM D6223/G155	691T0019	11/30/21
PRI-CMT (TST5878)	ASTM D6222/G155	691T0018	04/22/22
ERD (TST6049)	FM 4470/FM 4474	SC5460.08.14	08/27/14
ERD (TST6049)	FM 4470/FM 4474	SC11955.16	11/03/16
FM (TST1867)	FM 4470	2Y3A2.AM	02/21/97
FM (TST1867)	FM 4470	2B5A5.AM	05/14/97
FM (TST1867)	FM 4470	2B5A7.AM	03/01/99
FM (TST1867)	FM 4470	3003642	07/08/99
FM (TST1867)	FM 4470	3007274	02/07/01
FM (TST1867)	FM 4470	3009889	04/03/01
FM (TST1867)	FM 4470	3011056	07/28/03
FM (TST1867)	FM 4470	3014452	07/28/03
FM (TST1867)	FM 4470/FM 4474	3D2Q3.AM	06/23/05
FM (TST1867)	FM 4470/FM 4474	3017037	09/30/05
FM (TST1867)	FM 4470/FM 4474	3023458	07/18/06
FM (TST1867)	FM 4470/FM 4474	3028039	09/11/06
FM (TST1867)	FM 4470/FM 4474	3036067	01/04/10
FM (TST1867)	FM 4470/FM 4474	3046791	06/03/13
FM (TST1867)	FM 4470/FM 4474	3044067 & 3046791	09/18/13
FM (TST1867)	FM 4470/FM 4474	3051017	02/21/14
FM (TST1867)	FM 4470/FM 4474	3051408	08/13/14
FM (TST1867)	FM 4470/FM 4474	3051281 & 3053409 LTR	11/14/14
FM (TST1867)	FM 4470/FM 4474	3059931	12/19/16
FM (TST1867)	FM 4470/FM 4474	3058967	01/10/17
IRT-ARCON (TST5296)	TAS 114(J)	03-001	01/17/03
IRT-ARCON (TST5296)	TAS 114(J)	03-002	01/17/03

ENTITY	EXAMINATION	REFERENCE	DATE
NEMO	Evaluation Report	S35000.12.10-R32	04/08/22
NEMO	Traceability	FBC Cross-Listing Agreement	05/03/24
NEMO (TST6049)	Criticality testing	4i-DBM-19-SSCRT-01.A	05/22/19
NEMO (TST6049)	FM 4474	4a-DBM-19-LSWUS	08/07/19
UL, LLC. (QUA9625)	Quality Assurance	Service Confirmation (MO)	08/02/22
UL, LLC. (QUA9625)	Quality Assurance	Service Confirmation (MS, OH)	03/17/22
UL, LLC. (QUA9625)	Quality Assurance	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

This PEER covers **Derbigum Modified Bitumen Roof Systems** installed in accordance with **Performance Roof Systems, Inc.** published installation instructions and the [Limitations of Use](#) herein.

TABLE 1: EVALUATED MEMBRANES					
TYPE	PRODUCT	MATERIAL STANDARD			MANUFACTURING LOCATION
		REFERENCE	TYPE	GRADE	
BASE SHEETS	Deribase	ASTM D6509	N/A	N/A	MO
	Deribase Ultra	ASTM D6509	N/A	N/A	MO
	Deribase HV	ASTM D6509	N/A	N/A	MO
APP BASE PLY MEMBRANES	Derbigum GP	ASTM D6223	I	S	MO
	Derbigum GP-FR	ASTM D6223	I	S	MO
	Derbigum XPS	ASTM D6223	I	S	MO
	Derbigum XPS-FR	ASTM D6223	I	S	MO
APP CAP PLY MEMBRANES	Bitutak Cold	ASTM D6222	I	S	MO
	SELECT APP POLY SANDED	ASTM D6222	I	S	MO
	Bitutak MB	ASTM D6222	I	S	MO
	SELECT APP POLY SP	ASTM D6222	I	S	MO
	Derbigum P	ASTM D6222	I	S	MO
	PrimeSource Grip-Rite APP 160S	ASTM D6222	I	S	MO
	Bitutak Cold Mineral	ASTM D6222	I	G	MO
	SELECT APP POLY GR	ASTM D6222	I	G	MO
	Bitutak MB Mineral	ASTM D6222	I	G	MO
	SELECT APP POLY FLAM GR	ASTM D6222	I	G	MO
	Derbicolor P	ASTM D6222	I	G	MO
	PrimeSource Grip-Rite APP Mineral	ASTM D6222	I	G	MO
	Derbicolor P-FR	ASTM D6222	I	G	MO
	Derbicolor P-FR CR	ASTM D6222	I	G	MO
	Derbigum GP	ASTM D6223	I	S	MO
	Derbigum GP-FR	ASTM D6223	I	S	MO
	Derbigum XPS	ASTM D6223	I	S	MO
	Derbigum XPS-FR	ASTM D6223	I	S	MO
	Derbicolor GP	ASTM D6223	I	G	MO
	Derbicolor GP-FR	ASTM D6223	I	G	MO
APP CAP PLY MEMBRANES	Derbicolor GP-FR CR	ASTM D6223	I	G	MO
	Derbicolor XPS	ASTM D6223	I	G	MO
	Derbicolor XPS-FR	ASTM D6223	I	G	MO
	Derbicolor XPS-FR CR	ASTM D6223	I	G	MO

TABLE 1: EVALUATED MEMBRANES

TYPE	PRODUCT	MATERIAL STANDARD			MANUFACTURING LOCATION
		REFERENCE	TYPE	GRADE	
SBS BASE PLY MEMBRANES	ELASTOPHENE Flam HS ⁱ	ASTM D6162	II	S	MS, OH
	ELASTOPHENE HS Sanded ⁱ	ASTM D6162	II	S	MS, OH
	Derbibase SA	ASTM D6163	I	S	OH
	ELASTOPHENE Stick ⁱ	ASTM D6163	I	S	OH
	ELASTOPHENE Flam 2.2 ⁱ	ASTM D6163	I	S	MS, OH
	SELECT SBS GLASS FLAM	ASTM D6163	I	S	MS, OH
	ELASTOPHENE Flam 3.0 ⁱ	ASTM D6163	I	S	MS, OH
	ELASTOPHENE PS 2.2 ⁱ	ASTM D6163	I	S	OH
	ELASTOPHENE PS 3.0 ⁱ	ASTM D6163	I	S	OH
	ELASTOPHENE Sanded 2.2 ⁱ	ASTM D6163	I	S	MS, OH
	ELASTOPHENE Sanded 3.0 ⁱ	ASTM D6163	I	S	MS, OH
	ELASTOPHENE SP 2.2 ⁱ	ASTM D6163	I	S	OH
	ELASTOPHENE SP 3.0 ⁱ	ASTM D6163	I	S	MS, OH
	COLVENT 180 TG ⁱ	ASTM D6164	I	S	OH
	COLVENT Flam 180 TG ⁱ	ASTM D6164	I	S	OH
	Derbibase SA Ultra	ASTM D6164	I	S	MS, OH
	SOPRALENE Stick ⁱ	ASTM D6164	I	S	MS, OH
	SOPRALENE 180 PS 2.2 ⁱ	ASTM D6164	I	S	MS, OH
	SOPRALENE 180 PS 3.0 ⁱ	ASTM D6164	I	S	MS, OH
	SOPRALENE 180 Sanded ⁱ	ASTM D6164	I	S	MS, OH
	SOPRALENE 180 Sanded 2.2 ⁱ	ASTM D6164	I	S	MS, OH
	SELECT SBS POLY SANDED	ASTM D6164	I	S	MS, OH
	SOPRALENE 180 SP 3.0 ⁱ	ASTM D6164	I	S	MS, OH
	SOPRALENE 180 SP 3.5 ⁱ	ASTM D6164	I	S	MS, OH
	SOPRALENE Flam 180 ⁱ	ASTM D6164	I	S	MS, OH
	SELECT SBS POLY FLAM	ASTM D6164	I	S	MS, OH
	SOPRALENE Flam Stick ⁱ	ASTM D6164	I	S	MS, OH
	SOPRALENE 250 Sanded ⁱ	ASTM D6164	I	S	OH
	SOPRALENE 250 SP ⁱ	ASTM D6164	I	S	OH
	SOPRALENE Flam 250 ⁱ	ASTM D6164	I	S	MS, OH
SBS CAP PLY MEMBRANES	ELASTOPHENE Flam FR GR ⁱ	ASTM D6163	I	G	MS, OH
	ELASTOPHENE Flam LS FR GR ⁱ	ASTM D6163	I	G	MS, OH
	ELASTOPHENE FR GR ⁱ	ASTM D6163	I	G	MS, OH
	ELASTOPHENE LS FR GR ⁱ	ASTM D6163	I	G	MS, OH
	SOPRALENE 180 FR GR ⁱ	ASTM D6164	I	G	MS, OH
	SOPRALENE Flam 180 FR GR ⁱ	ASTM D6164	I	G	MS, OH
	SOPRALENE Flam 180 GR ⁱ	ASTM D6164	I	G	MS, OH
	SELECT SBS POLY FLAM GR	ASTM D6164	I	G	MS, OH
	SOPRALENE 250 FR GR	ASTM D6164	I	G	OH
	SOPRALENE Flam 250 FR GR	ASTM D6164	I	G	OH
	SOPRALAST 50 TV ALU ⁱ	ASTM D6298	I	N/A	OH
	Derbilume FR	ASTM D6298	I	N/A	OH

ⁱ NEMO Certified. Consult [Directory of Certified Products](#) for production location(s).

5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance. PEERs are not to be construed as representing any attributes not specifically listed, nor are PEERs to be construed as an endorsement of the subject, or a recommendation for its use. There is no warranty by NEMO ETC, LLC or Robert Nieminen, P.E., express or implied, as to any finding or other matter in this PEER, or as to any product covered by the PEER.
- 5.2 This PEER is not for use in FBC High Velocity Hurricane Zone jurisdictions, as defined in FBC Chapter 2 (Broward and Miami-Dade Counties).
- 5.3 This PEER pertains to above-deck roof components. Roof decks and structural members shall be in accordance with the requirements of the applicable Code to the satisfaction of the Authority Having Jurisdiction.
- 5.4 This PEER does not include evaluation of fire classification. Refer to **FBC or IBC 1505** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC or IBC 2603** for requirements and limitations concerning the use of foam plastic insulation.
- 5.5 This PEER does not include evaluation of roof edge termination. Refer to **FBC or IBC 1504.5** for requirements and limitations regarding edge securement for low-slope roofs.
- 5.6 Refer to **FBC or IBC 1511** for requirements and limitations regarding recover installations.
- 5.6.1 For mechanically attached components over existing roof decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing shall be in accordance with [ANSI/SPRI FX-1](#) or [Testing Application Standard TAS 105](#).
- 5.6.2 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance with [ANSI/SPRI IA-1](#), [ASTM E907](#), [FM Loss Prevention Data Sheet 1-52](#) or [Testing Application Standard TAS 124](#) shall be conducted on mock-ups of the proposed new roof assembly.
- 5.6.3 For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with [ASTM E907](#), [FM Loss Prevention Data Sheet 1-52](#) or [Testing Application Standard TAS 124](#).
- 5.7 Refer to Appendix 1 for system attachment requirements for wind load resistance.
- 5.7.1 “MDP” = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per **FBC or IBC 1504.9** has already been applied). Refer to **FBC or IBC 1609** for determination of design wind loads.
- 5.7.2 For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with **FBC or IBC Chapter 16**. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are [ANSI/SPRI WD1](#), [FM Loss Prevention Data Sheet 1-29](#), [Roofing Application Standard RAS 117](#) or [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** for Zone 2/3 enhancements.
- 5.7.3 For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with **FBC or IBC Chapter 16**. No rational analysis is permitted for these systems.

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

6. INSTALLATION:

Derbigum Modified Bitumen Roof Systems shall be installed in accordance with **Performance Roof Systems, Inc.** published installation instructions, subject to the [Limitations of Use](#) noted herein.

7. BUILDING PERMIT REQUIREMENTS:

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

8. MANUFACTURING PLANTS:

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

9. QUALITY ASSURANCE ENTITY:

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

- THE 60-PAGES THAT FOLLOW FORM PART OF THIS PEER -

2023 FBC, 2018

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
1A	Wood	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	19
1B	Wood	New, Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	20
1C	Wood	New, Reroof (Tear-Off) or Recover	B-2	Mechanically Attached Thermal Barrier, Bonded Vapor Barrier, Insulation and Roof Cover	22
1D	Wood	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	22
1E	Wood	New or Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	24
2A	Steel	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	25
2B	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	26
2C	Steel	New, Reroof (Tear-Off) or Recover	B-2	Mechanically Attached Thermal Barrier, Bonded Vapor Barrier, Insulation and Roof Cover	32
2D	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	35
2E	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	D-2	Prelim. Attached Insulation, Mechanically Attached Base Sheet, Bonded Roof Cover	38
3A	Structural Concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	39
3B	Structural Concrete	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	45
4A	Deck with Lightweight concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	46
4B	Deck with Lightweight concrete	New or Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	48
4C	Deck with Lightweight concrete	Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	49
5A	Cementitious wood fiber	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	50
5B	Cementitious Wood Fiber	New, Reroof (Tear-Off)	A-3	Bonded Thermal Barrier, Bonded Vapor Barrier, Bonded Insulation, Bonded Roof Cover	51
6A	Gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	53
6B	Gypsum	Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	55
7A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	56
7B	Existing LWIC or Gypsum	Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	60

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 or IBC requirements to the satisfaction of the Authority Having Jurisdiction.
- Unless otherwise noted, fasteners and stress plates shall be as follows. Fastener shall be of sufficient length for the following engagements:

FASTENER/PLATE OPTIONS			
DECK TYPE	BY	PARTS	MINIMUM ENGAGEMENT
Wood	Performance Roof Systems	#12 or #14 Perlok Fastener with Perlok Steel Plate or Perlok-O #12 or #14 Screw with Perlok-O 3" Ribbed Plate or with Perlok-O 3" Steel Plate	Minimum ¾-inch plywood penetration or wood plank embedment
Steel	Performance Roof Systems	#12, #14 or #15 HS Perlok Fastener with Perlok Steel Plate or Perlok-O #12 or #14 Screw with Perlok-O 3" Ribbed Plate or with Perlok-O 3" Steel Plate	Minimum ¾-inch steel penetration and engage the top flute of the steel deck
Structural Concrete	Performance Roof Systems	14 Perlok Fastener or Perlok Spike with Perlok Steel Plate or Perlok-O #14 Screw or Perlok-O CD-10 with Perlok-O 3" Ribbed Plate or with Perlok-O 3" Steel Plate	Minimum 1-inch embedment. Fastener 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 FBC or IBC Approved (Local or Statewide) board(s) that meet FBC or IBC 1505 and, for foam plastic, FBC or IBC Chapter 26, when installed with the roof cover.

- 4 Minimum 200 psi, minimum 2-inch thick FBC or IBC Approved lightweight insulating concrete may be substituted for, or installed below, rigid insulation board for System Types B-1, C-1, C-2, D-1 or D-2, whereby fasteners are installed through the lightweight insulating concrete to engage the structural deck. The structural deck shall be of equal or greater type, thickness, and strength to the steel and structural concrete deck listings. Roof decks and structural members shall be in accordance with FBC or IBC requirements to the satisfaction of the Authority Having Jurisdiction. This is a wind uplift resistance allowance and does not purport to address non-wind-uplift-related issues, such as deck venting or moisture levels within the LWIC and the potential effect on overlying components.
- 5 Preliminary insulation attachment:
- 5A Unless otherwise noted, use Approved roofing fasteners and plates; minimum two (2) parts per 4x4-ft board or minimum four (4) parts per 4x8-ft board.
- 5B For systems where a vapor barrier is installed refer to Section 2.2.10.1.3 of [FM Loss Prevention Data Sheet 1-29](#).
- 6 Unless otherwise noted, insulation adhesive application rates are as follows.
- ✓ If applying hot asphalt to concrete deck, deck shall be primed with ASTM D41 primer.
 - ✓ Ribbon or bead width is at the time of application; the ribbons/beads shall expand as noted in the manufacturer's published instructions.
 - ✓ When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, board joints shall be staggered.
 - ✓ The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing.

INSULATION ADHESIVE REFERENCES					
By	FBC FILE OR NOA	ADHESIVE	REFERENCE	MINIMUM RATE	NOTE
Performance Roof Systems	FL31353	Permastic	Permastic	Full coverage at 1.5 to 2.0 gal/square	
Dupont de Nemours	FL720	INSTA STIK Quik Set Insulation Adhesive	INSTA-STIK	Continuous ¾-inch wide ribbons, 12-inch o.c.	
H.B. Fuller	FL1800	Millennium One Step Foamable Adhesive	M-OSFA	Continuous 0.5-inch to ¾-inch wide ribbons, 12" o.c.	
OMG	FL1608	OlyBond 500	OB500	Continuous ¾-inch to 1-inch wide ribbons, 12-inch o.c.	<i>Canister, PaceCart or SpotShot</i>
SOPREMA, Inc.	22-0929.06	DUOTACK	DUOTACK	Continuous 0.5 to 0.75-inch wide ribbons, 12-inch o.c.	<i>DUOTACK 365 may be used anywhere DUOTACK is referenced.</i>
		DUOTACK 365	DUOTACK 365	Continuous 0.5 to 0.75-inch wide ribbons, 12-inch o.c.	
		DUOTACK SPF	DUOTACK SPF	Continuous 2.5 wide ribbons, 12-inch o.c.	
	22-0224.04	DUOTACK SPF HFO	DUOTACK SPF HFO	Continuous 2.5-3.5 wide ribbons, 12-inch o.c.	<i>DUOTACK SPF may be used for insulation securement anywhere DUOTACK is referenced, except directly to existing gypsum decks, in recover applications over existing smooth-surfaced asphaltic built-up roof (BUR) or when used to adhere expanded polystyrene</i>
Generic	N/A	Hot asphalt	Hot asphalt	Full coverage at 25-30 lbs/square	

- 7 Unless otherwise noted, all insulations are flat-stock or taper board of the minimum thickness noted. Tapered polyisocyanurate at the following thickness limitations may be substituted with the following Maximum Design Pressure (MDP) limitations. In no case shall these values be used to 'increase' the MDP listings in the tables; rather if MDP listing below meets or exceeds that listed for a particular system in the tables, then the thinner board listed below may be used as a drop-in for the equivalent thicker material listed in the table.

MDP LIMITATIONS FOR TAPERED POLYISOCYANURATE INSULATIONS			
ADHESIVE	INSULATION	MIN. TAPERED THICKNESS (IN)	MDP (PSF)
INSTA-STIK	Any polyisocyanurate listed with adhesive herein	1.0	-112.5
M-OSFA	Any polyisocyanurate listed with adhesive herein	0.5	-157.5
DUOTACK SPF HFO	Any polyisocyanurate listed with adhesive herein	1.0	-117.5
OB500	ISO 95+ GL	0.5	-187.5
OB500	ENRGY 3	0.5	-315.0

MDP LIMITATIONS FOR TAPERED POLYISOCYANURATE INSULATIONS			
ADHESIVE	INSULATION	MIN. TAPERED THICKNESS (IN)	MDP (PSF)
OB500	Derbiboard	0.5	-487.5
DUOTACK, DUOTACK 365 or DUOTACK SPF	Any polyisocyanurate listed with adhesive herein	0.5	-157.5

- 8 For adhered roof insulation and board-size: Unless otherwise noted, refer to Section 2.2.10.6.2 of [FM Loss Prevention Data Sheet](#) 1-29.
- 9 For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with FBC or IBC Chapter 16. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are [ANSI/SPRI](#) WD1, [FM Loss Prevention Data Sheet](#) 1-29, [Roofing Application Standard](#) RAS 117 or 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 for Zone 2/3 enhancements.
- 10 For assemblies with all components fully bonded, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC or IBC Chapter 16. No rational analysis is permitted for these systems.
- 11 For mechanically attached components over existing decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with [ANSI/SPRI](#) FX-1 or [Testing Application Standard](#) TAS 105. For systems using Trufast Versa-Fast, the number of Versa-Fast Fasteners installed through the Versa-Fast Plate may be increased from the minimum noted in order to yield minimum required withdrawal resistance.
- 12 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing shall be conducted on mock-ups of the proposed new roof assembly. For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing. Field uplift testing shall be in accordance with ASTM E907, [FM Loss Prevention Data Sheet](#) 1-52 or [Testing Application Standard](#) TAS 124.
- 13 Refer to FBC or IBC 1511 for requirements and limitations regarding recover installations. For Structural Concrete Deck or Recover Applications using System Type C-1 the base insulation layer is optional and for System Type C-2, D-1 or D-2, the insulation is optional. Alternatively, an FBC or IBC Approved insulation board or coverboard may be used as a separation layer. Board products shall be preliminarily attached prior to roof cover installation ([Note 5](#)). The separator component shall be documented as meeting FBC or IBC 1505 and, for foam plastic, FBC or IBC Chapter 26, when installed with the roof cover in Recover applications.
- 14 Lightweight insulating concrete (LWIC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWIC is referenced, refer to current LWIC Product Approval for specific deck construction and limitations. Unless otherwise noted, for systems where specific LWIC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWIC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1. For “pre-existent” LWIC references, listings were established through testing over lightweight concrete cast using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Use of these listings in new construction or re-roof (tear-off) applications is at the discretion of the Designer or Record and Authority Having Jurisdiction.
- 15A For bonded membrane applications, unless otherwise noted, refer to the following.

ROOF COVER: MEMBRANE / ADHESIVE COMBINATIONS			
REFER	LAYER	MATERIAL	APPLICATION
AA	Base Ply or Ply:	PRS Glass Base, PRS Modified Base Sheet, Derbibase, Derbibase Ultra, PRS Glass Ply IV, PRS Glass Ply VI	Hot asphalt at 25 lbs/square.
	Ply:	Derbigum GP, Derbigum XPS	
CA	Base Ply or Ply:	PRS Glass Base, PRS Modified Base Sheet, Derbibase, Derbibase Ultra, Derbibase HV, PRS Glass Ply IV, PRS Glass Ply VI, Derbigum GP, Derbigum GP-FR, Derbigum XPS, Derbigum XPS-FR	Permastic Adhesive at 1.5 to 2.0 gal/square.
	Ply:	Derbigum GP, Derbigum GP-FR, Derbigum XPS, Derbigum XPS-FR	
	Cap Ply:	Derbigum GP, Derbigum GP-FR, Derbigum XPS, Derbigum XPS-FR, Derbicolor GP, Derbicolor P-FR*, Derbicolor P-FR CR*, Derbicolor GP-FR, Derbicolor GP-FR CR, Derbicolor XPS, Derbicolor XPS-FR, Derbicolor XPS-FR CR, Bitutak Cold, SELECT APP POLY SANDED, Derbigum P, PrimeSource Grip-Rite APP 160S, Bitutak Cold Mineral, SELECT APP POLY GR, Derbicolor P, PrimeSource Grip-Rite APP Mineral	
	NOTES:	<i>*Unless otherwise noted, use of Derbicolor P-FR or Derbicolor P-FR CR as a cold-applied cap membrane carries a high-end maximum design pressure (MDP) limitation of -135.0 psf.</i>	

ROOF COVER: MEMBRANE / ADHESIVE COMBINATIONS			
REFER	LAYER	MATERIAL	APPLICATION
APP-TA	Base Ply or Ply:	Derbibase, Derbibase Ultra, Derbibase HV, Derbigum GP, Derbigum GP-FR, Derbigum XPS, Derbigum XPS-FR, Bitutak Cold, SELECT APP POLY SANDED, Derbigum P, Bitutak MB, SELECT APP POLY SP, PrimeSource Grip-Rite APP 160S	Torch applied
	Cap Ply:	Derbigum GP, Derbigum GP-FR, Derbigum XPS, Derbigum XPS-FR, Derbicolor GP, Derbicolor P-FR, Derbicolor P-FR CR, Derbicolor GP-FR, Derbicolor GP-FR CR, Derbicolor XPS, Derbicolor XPS-FR, Derbicolor XPS-FR CR, Bitutak Cold, SELECT APP POLY SANDED, Derbigum P, Bitutak MB, SELECT APP POLY SP, PrimeSource Grip-Rite APP 160S, Bitutak Cold Mineral, SELECT APP POLY GR, Derbicolor P, Bitutak MB Mineral, SELECT APP POLY FLAM GR, PrimeSource Grip-Rite APP Mineral	
SBS-TA	Cap Ply:	Derbilume FR or SOPRALAST 50 TV ALU	Torch-applied
SBS-SA	Base Ply:	Derbibase SA, ELASTOPHENE Stick, Derbibase SA Ultra or SOPRALENE Stick	Self-adhering

15B For vapor barrier applications, unless otherwise noted, refer to the following.

VAPOR BARRIER: MEMBRANE / ADHESIVE COMBINATIONS			
REFER	LAYER	MATERIAL	APPLICATION
SBS-CA2	Vapor Barrier Base Ply:	SOPREMA ELASTOPHENE HS Sanded, ELASTOPHENE Sanded 2.2, ELASTOPHENE Sanded 3.0, ELASTOPHENE PS 2.2 ✦, ELASTOPHENE PS 3.0 ✦, SOPRALENE 180 Sanded 2.2, SELECT SBS POLY SANDED, SOPRALENE 180 Sanded, SOPRALENE 180 PS 2.2 ✦, SOPRALENE 180 PS 3.0 ✦, SOPRALENE 250 Sanded	0.5 to 1-inch wide ribbons SOPREMA COLPLY EF Adhesive spaced as noted
SBS-CA3	Vapor Barrier Base Ply:	SOPREMA ELASTOPHENE HS Sanded, ELASTOPHENE Sanded 2.2, ELASTOPHENE Sanded 3.0, ELASTOPHENE PS 2.2 ✦, ELASTOPHENE PS 3.0 ✦, SOPRALENE 180 Sanded 2.2, SELECT SBS POLY SANDED, SOPRALENE 180 Sanded, SOPRALENE 180 PS 2.2 ✦, SOPRALENE 180 PS 3.0 ✦, SOPRALENE 250 Sanded	SOPREMA COLPLY EF Adhesive at 1.5 – 2.5 gal/square
	Vapor Barrier Cap Ply:	SOPREMA ELASTOPHENE LS FR GR, ELASTOPHENE FR GR, SOPRALENE 180 FR GR, SOPRALENE 250 FR GR	
SBS-CA4	Vapor Barrier Base Ply:	SOPREMA ELASTOPHENE HS Sanded, ELASTOPHENE Sanded 2.2, ELASTOPHENE Sanded 3.0, ELASTOPHENE PS 2.2 ✦, ELASTOPHENE PS 3.0 ✦, SOPRALENE 180 Sanded 2.2, SELECT SBS POLY SANDED, SOPRALENE 180 Sanded, SOPRALENE 180 PS 2.2 ✦, SOPRALENE 180 PS 3.0 ✦, SOPRALENE 250 Sanded	SOPREMA COLPLY Adhesive at 1.5 - 2 gal/square
	Vapor Barrier Cap Ply:	SOPREMA ELASTOPHENE LS FR GR, ELASTOPHENE FR GR, SOPRALENE 180 FR GR, SOPRALENE 250 FR GR	
SBS-AA	Vapor Barrier Base Ply:	SOPREMA ELASTOPHENE HS Sanded, ELASTOPHENE Sanded 2.2, ELASTOPHENE Sanded 3.0, ELASTOPHENE PS 2.2 ✦, ELASTOPHENE PS 3.0 ✦, SOPRALENE 180 Sanded 2.2, SELECT SBS POLY SANDED, SOPRALENE 180 Sanded, SOPRALENE 180 PS 2.2 ✦, SOPRALENE 180 PS 3.0 ✦, SOPRALENE 250 Sanded	Hot asphalt at 20-40 lbs/square
	Vapor Barrier Cap Ply:	SOPREMA ELASTOPHENE LS FR GR, ELASTOPHENE FR GR, SOPRALENE 180 FR GR, SOPRALENE 250 FR GR	
SBS-TAP	Vapor Barrier Base Ply:	SOPREMA COLVENT 180 TG, COLVENT Flam 180 TG ✦	Torch-applied, Partial Bond
SBS-TAF	Vapor Barrier Base Ply:	SOPREMA ELASTOPHENE Flam HS ✦, ELASTOPHENE Flam 2.2 ✦, SELECT SBS GLASS FLAM ✦, ELASTOPHENE Flam 3.0 ✦, ELASTOPHENE SP 2.2, ELASTOPHENE SP 3.0, SOPRALENE Flam 180 ✦, SELECT SBS POLY FLAM ✦, SOPRALENE 180 SP 3.0, SOPRALENE 180 SP 3.5, SOPRALENE Flam 250 ✦, SOPRALENE 250 SP 4.0	Torch-Applied, Full Bond
	Vapor Barrier Cap Ply:	SOPREMA ELASTOPHENE Flam LS FR GR, ELASTOPHENE Flam FR GR, SOPRALENE Flam 180 GR, SELECT SBS POLY FLAM GR, SOPRALENE Flam 180 GR 3.5, SOPRALENE Flam 180 FR GR, SOPRALENE Flam 250 FR GR	
SBS-SA1	Vapor Barrier Base Ply:	Derbibase SA, ELASTOPHENE Stick, Derbibase SA Ultra, SOPRALENE Stick or SOPREMA SOPRALENE Flam Stick ✦	Self-adhering, Full Bond
	Vapor Barrier Cap Ply:	ELASTOPHENE Stick HR FR GR	
Notes:	Base / Ply membranes marked with an asterisk (✦) have a poly-film top surface, and require installation of a torch-applied membrane overtop.		
	Sand-surfaced membranes shall be primed with ASTM D41 primer or Derbibase SA Primer at 1 gal/sq. (0.6 l/m ²) prior to application of subsequent self-adhering (SBS-SA1) membranes.		
	Sand-surfaced membranes may be (optional) primed with ASTM D41 primer 1 gal/sq. (0.6 l/m ²) prior to application of subsequent cold-adhesive-applied (SBS-CA3 or SBS-CA4) or torch-applied (SBS-TAF) membranes.		
	In SBS-CA3 or SBS-TAF applications over SOPRABOARD, the SOPRABOARD may be optionally primed with Detec Systems "TruGround Conductive Primer", roller-applied at 0.4 gal/square prior to membrane installation.		

15C The following surfacing may be applied to the Cap Ply without adverse effect on the system wind load performance. Refer to current Florida Product Approval for approved Performance Roof Systems roof coatings and the Roofing Materials Directory for fire ratings associated with coating usage.

SURFACING FOR PERFORMANCE ROOF SYSTEMS MODIFIED BITUMEN ROOF SYSTEMS			
OPTION #	SURFACING	BY	FBC FILE
SURF-1.	ALSAN RS 230 Field, ALSAN Trafik RS 730 Field or ALSAN RS 260 LO Field liquid-applied, reinforced membrane, or ALSAN RS 230 Flash, ALSAN Trafik RS 730 Flash or ALSAN RS 260 LO Flash liquid-applied flashing membrane (to granule-surfaced Cap Ply only)	SOPREMA	FL9779
SURF-2.	DerbiFlash RS 230 Flash (to granule-surfaced APP or sanded- or smooth-surfaced SBS only)	Performance Roof Systems	FL31353
SURF-3.	Flood coat of hot asphalt at 60 lbs/square followed by embedded gravel at 400 lbs/square.	N/A	N/A
SURF-4.	COPLY Adhesive at 4 gal/square followed by embedded gravel at 400 lbs/square.	SOPREMA	FL9779

16 **Thermal Barrier and/or Vapor Barrier Options:**

16A **Wood Decks:** The lesser of the MDP listings below vs. that for the selected assembly applies,

WOOD DECKS: THERMAL BARRIER / VAPOR BARRIER OPTIONS, FOLLOWED BY BONDED INSULATION									
OPTION #	DECK (NOTE 1)	THERMAL BARRIER			PRIMER	VAPOR BARRIER (NOTE 15B)		ADHESIVE PER TABLE 1A OR 2A (NOTES 6,7,8)	MDP (PSF)
		TYPE	FASTEN (NOTE 11)	ATTACH (NOTE 17)		BASE PLY	CAP PLY (GRANULE)		
W-TB/VB-1.	APA rated, min. 19/32 CAT, 0.578 in., Exposure 1 OSB sheathing	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	None	SBS-CA3 (sanded top surface)	None	DUOTACK	-30.0*
W-TB/VB-2.	APA rated, min. 19/32 CAT, 0.578 in., Exposure 1 OSB sheathing	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	None	(Optional) SBS-CA3	SBS-CA3	DUOTACK 365	-30.0*
W-TB/VB-3.	APA rated, min. 19/32 CAT, 0.578 in., Exposure 1 OSB sheathing	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	(Optional) ASTM D41 primer	SBS-AA or SBS-TAF (sanded top surface)	None	DUOTACK	-30.0*
W-TB/VB-4.	APA rated, min. 19/32 CAT, 0.578 in., Exposure 1 OSB sheathing	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	(Optional) ASTM D41 primer	(Optional) SBS-AA or SBS-TAF	SBS-AA or SBS-TAF	DUOTACK 365	-30.0*
W-TB/VB-5.	APA rated, min. 19/32 CAT, 0.578 in., Exposure 1 OSB sheathing	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	Derbibase SA Primer	Derbistick SA or SBS-SA1 (sanded top surface)	None	DUOTACK	-30.0*
W-TB/VB-6.	APA rated, min. 19/32 CAT, 0.578 in., Exposure 1 OSB sheathing	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	Derbibase SA Primer	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-30.0*
W-TB/VB-7.	Min. 19/32-inch APA rated CDX plywood	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	None	SBS-CA3 (sanded top surface)	None	DUOTACK	-37.5*

WOOD DECKS: THERMAL BARRIER / VAPOR BARRIER OPTIONS, FOLLOWED BY BONDED INSULATION									
OPTION #	DECK (NOTE 1)	THERMAL BARRIER			PRIMER	VAPOR BARRIER (NOTE 15B)		ADHESIVE PER TABLE 1A OR 2A (NOTES 6,7,8)	MDP (PSF)
		TYPE	FASTEN (NOTE 11)	ATTACH (NOTE 17)		BASE PLY	CAP PLY (GRANULE)		
W-TB/VB-8.	Min. 19/32-inch APA rated CDX plywood	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	None	(Optional) SBS-CA3	SBS-CA3	DUOTACK 365	-37.5*
W-TB/VB-9.	Min. 19/32-inch APA rated CDX plywood	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	(Optional) ASTM D41 primer	SBS-AA or SBS-TAF (sanded top surface)	None	DUOTACK	-37.5*
W-TB/VB-10.	Min. 19/32-inch APA rated CDX plywood	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	(Optional) ASTM D41 primer	(Optional) SBS-AA or SBS-TAF	SBS-AA or SBS-TAF	DUOTACK 365	-37.5*
W-TB/VB-11.	Min. 19/32-inch APA rated CDX plywood	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	Derbibase SA Primer	Derbistick SA or SBS-SA1 (sanded top surface)	None	DUOTACK	-37.5*
W-TB/VB-12.	Min. 19/32-inch APA rated CDX plywood	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	Derbibase SA Primer	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-37.5*
W-TB/VB-13.	APA rated, min. 19/32 CAT, 0.578 in., Exposure 1 OSB sheathing or 19/32-inch APA rated CDX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 2.7 ft ²	None	SBS-CA3 (sanded top surface)	None	DUOTACK	-45.0*
W-TB/VB-14.	APA rated, min. 19/32 CAT, 0.578 in., Exposure 1 OSB sheathing or 19/32-inch APA rated CDX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 2.7 ft ²	None	(Optional) SBS-CA3	SBS-CA3	DUOTACK 365	-45.0*
W-TB/VB-15.	APA rated, min. 19/32 CAT, 0.578 in., Exposure 1 OSB sheathing or 19/32-inch APA rated CDX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 2.7 ft ²	(Optional) ASTM D41 primer	SBS-AA or SBS-TAF (sanded top surface)	None	DUOTACK	-45.0*
W-TB/VB-16.	APA rated, min. 19/32 CAT, 0.578 in., Exposure 1 OSB sheathing or 19/32-inch APA rated CDX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 2.7 ft ²	(Optional) ASTM D41 primer	(Optional) SBS-AA or SBS-TAF	SBS-AA or SBS-TAF	DUOTACK 365	-45.0*

WOOD DECKS: THERMAL BARRIER / VAPOR BARRIER OPTIONS, FOLLOWED BY BONDED INSULATION									
OPTION #	DECK (NOTE 1)	THERMAL BARRIER			PRIMER	VAPOR BARRIER (NOTE 15B)		ADHESIVE PER TABLE 1A OR 2A (NOTES 6,7,8)	MDP (PSF)
		TYPE	FASTEN (NOTE 11)	ATTACH (NOTE 17)		BASE PLY	CAP PLY (GRANULE)		
W-TB/VB-17.	APA rated, min. 19/32 CAT, 0.578 in., Exposure 1 OSB sheathing or 19/32-inch APA rated CDX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 2.7 ft ²	Derbibase SA Primer	Derbistick SA or SBS-SA1 (sanded top surface)	None	DUOTACK	-45.0*
W-TB/VB-18.	APA rated, min. 19/32 CAT, 0.578 in., Exposure 1 OSB sheathing or 19/32-inch APA rated CDX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 2.7 ft ²	Derbibase SA Primer	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-45.0*
W-TB/VB-19.	Min. 15/32-inch APA rated CDX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok #12 DP with Perlok 3-inch Metal Plate	1 per 1.6 ft ²	None	SBS-CA3 (sanded top surface)	None	DUOTACK	-67.5
W-TB/VB-20.	Min. 15/32-inch APA rated CDX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok #12 DP with Perlok 3-inch Metal Plate	1 per 1.6 ft ²	None	(Optional) SBS-CA3	SBS-CA3	DUOTACK 365	-67.5
W-TB/VB-21.	Min. 15/32-inch APA rated CDX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok #12 DP with Perlok 3-inch Metal Plate	1 per 1.6 ft ²	(Optional) ASTM D41 primer	SBS-AA or SBS-TAF (sanded top surface)	None	DUOTACK	-67.5
W-TB/VB-22.	Min. 15/32-inch APA rated CDX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok #12 DP with Perlok 3-inch Metal Plate	1 per 1.6 ft ²	(Optional) ASTM D41 primer	(Optional) SBS-AA or SBS-TAF	SBS-AA or SBS-TAF	DUOTACK 365	-67.5
W-TB/VB-23.	Min. 15/32-inch APA rated CDX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok #12 DP with Perlok 3-inch Metal Plate	1 per 1.6 ft ²	Derbibase SA Primer	Derbistick SA or SBS-SA1 (sanded top surface)	None	DUOTACK	-67.5
W-TB/VB-24.	Min. 15/32-inch APA rated CDX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok #12 DP with Perlok 3-inch Metal Plate	1 per 1.6 ft ²	Derbibase SA Primer	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-67.5
W-TB/VB-25.	Min. 15/32-inch APA rated BCX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or Perlok #14 HD Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	None	SBS-CA3 (sanded top surface)	None	DUOTACK	-67.5
W-TB/VB-26.	Min. 15/32-inch APA rated BCX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or Perlok #14 HD Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	None	(Optional) SBS-CA3	SBS-CA3	DUOTACK 365	-67.5

WOOD DECKS: THERMAL BARRIER / VAPOR BARRIER OPTIONS, FOLLOWED BY BONDED INSULATION									
OPTION #	DECK (NOTE 1)	THERMAL BARRIER			PRIMER	VAPOR BARRIER (NOTE 15B)		ADHESIVE PER TABLE 1A OR 2A (NOTES 6,7,8)	MDP (PSF)
		TYPE	FASTEN (NOTE 11)	ATTACH (NOTE 17)		BASE PLY	CAP PLY (GRANULE)		
W-TB/VB-27.	Min. 15/32-inch APA rated BCX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or Perlok #14 HD Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	(Optional) ASTM D41 primer	SBS-AA or SBS-TAF (sanded top surface)	None	DUOTACK	-67.5
W-TB/VB-28.	Min. 15/32-inch APA rated BCX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or Perlok #14 HD Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	(Optional) ASTM D41 primer	(Optional) SBS-AA or SBS-TAF	SBS-AA or SBS-TAF	DUOTACK 365	-67.5
W-TB/VB-29.	Min. 15/32-inch APA rated BCX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or Perlok #14 HD Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	Derbibase SA Primer	Derbistick SA or SBS-SA1 (sanded top surface)	None	DUOTACK	-67.5
W-TB/VB-30.	Min. 15/32-inch APA rated BCX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or Perlok #14 HD Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	Derbibase SA Primer	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-67.5
W-TB/VB-31.	Min. 19/32-inch APA rated CDX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok Versa-Fast Plate with minimum one (1) Perlok #14 HD Fastener installed into the center hole of the Versa-Fast Plate	1 per 1.8 ft ²	None	SBS-CA3 (sanded top surface)	None	DUOTACK	-67.5
W-TB/VB-32.	Min. 19/32-inch APA rated CDX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok Versa-Fast Plate with minimum one (1) Perlok #14 HD Fastener installed into the center hole of the Versa-Fast Plate	1 per 1.8 ft ²	None	(Optional) SBS-CA3	SBS-CA3	DUOTACK 365	-67.5
W-TB/VB-33.	Min. 19/32-inch APA rated CDX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok Versa-Fast Plate with minimum one (1) Perlok #14 HD Fastener installed into the center hole of the Versa-Fast Plate	1 per 1.8 ft ²	(Optional) ASTM D41 primer	SBS-AA or SBS-TAF (sanded top surface)	None	DUOTACK	-67.5
W-TB/VB-34.	Min. 19/32-inch APA rated CDX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok Versa-Fast Plate with minimum one (1) Perlok #14 HD Fastener installed into the center hole of the Versa-Fast Plate	1 per 1.8 ft ²	(Optional) ASTM D41 primer	(Optional) SBS-AA or SBS-TAF	SBS-AA or SBS-TAF	DUOTACK 365	-67.5
W-TB/VB-35.	Min. 19/32-inch APA rated CDX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok Versa-Fast Plate with minimum one (1) Perlok #14 HD Fastener installed into the center hole of the Versa-Fast Plate	1 per 1.8 ft ²	Derbibase SA Primer	Derbistick SA or SBS-SA1 (sanded top surface)	None	DUOTACK	-67.5
W-TB/VB-36.	Min. 19/32-inch APA rated CDX plywood	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board.	Perlok Versa-Fast Plate with minimum one (1) Perlok #14 HD Fastener installed into the center hole of the Versa-Fast Plate	1 per 1.8 ft ²	Derbibase SA Primer	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-67.5

WOOD DECKS: THERMAL BARRIER / VAPOR BARRIER OPTIONS, FOLLOWED BY BONDED INSULATION									
OPTION #	DECK (NOTE 1)	THERMAL BARRIER			PRIMER	VAPOR BARRIER (NOTE 15B)		ADHESIVE PER TABLE 1A OR 2A (NOTES 6,7,8)	MDP (PSF)
		TYPE	FASTEN (NOTE 11)	ATTACH (NOTE 17)		BASE PLY	CAP PLY (GRANULE)		
W-TB/VB-37.	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB, min. 15/32" APA rated plywood or nominal 1" T&G wood plank	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365	6-inch o.c.	None	SBS-AA or SBS-TAF (sanded top surface)	None	DUOTACK	-105.0
W-TB/VB-38.	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB, min. 15/32" APA rated plywood or nominal 1" T&G wood plank	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365	6-inch o.c.	None	(Optional) SBS-TAF	SBS-TAF	DUOTACK 365	-105.0
W-TB/VB-39.	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB, min. 15/32" APA rated plywood or nominal 1" T&G wood plank	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365	6-inch o.c.	Derbibase SA Primer	Derbistick SA or SBS-SA1 (sanded top surface)	None	DUOTACK	-105.0
W-TB/VB-40.	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB, min. 15/32" APA rated plywood or nominal 1" T&G wood plank	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365	6-inch o.c.	Derbibase SA Primer	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-105.0

16B Steel Decks: The lesser of the MDP listings below vs. that for the selected assembly applies.

STEEL DECKS: THERMAL BARRIER / VAPOR BARRIER OPTIONS, FOLLOWED BY BONDED INSULATION									
OPTION #	DECK (NOTE 1)	THERMAL BARRIER			PRIMER	VAPOR BARRIER (NOTE 15B)		ADHESIVE PER TABLE 2A OR 2B (NOTES 6,7,8)	MDP (PSF)
		TYPE	FASTEN	ATTACH (NOTE 17)		BASE PLY	CAP PLY (GRANULE)		
S-TB/VB-1.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	None	SBS-CA3, SBS-CA4 or SBS-AA (sanded top surface)	None	DUOTACK	-45.0*
S-TB/VB-2.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	None	(Optional) SBS-CA3	SBS-CA3	DUOTACK 365	-45.0*
S-TB/VB-3.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	None	(Optional) SBS-CA4	SBS-CA4	DUOTACK 365	-45.0*
S-TB/VB-4.	Min. 22 ga., type B, Grade 33 steel	0.25-inch DEXcell FA Glass Mat Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	None	SBS-CA3 (sanded top surface)	None	DUOTACK	-45.0*
S-TB/VB-5.	Min. 22 ga., type B, Grade 33 steel	0.25-inch DEXcell FA Glass Mat Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	None	(Optional) SBS-CA3	SBS-CA3	DUOTACK 365	-45.0*
S-TB/VB-6.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	ASTM D41 primer	SBS-TAF (sanded top surface)	None	DUOTACK	-45.0*
S-TB/VB-7.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	ASTM D41 primer	(Optional) SBS-TAF	SBS-TAF	DUOTACK 365	-45.0*
S-TB/VB-8.	Min. 22 ga., type B, Grade 33 steel	0.25-inch DEXcell FA Glass Mat Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	None	SBS-TAF (sanded top surface)	None	DUOTACK	-45.0*

STEEL DECKS: THERMAL BARRIER / VAPOR BARRIER OPTIONS, FOLLOWED BY BONDED INSULATION									
OPTION #	THERMAL BARRIER				PRIMER	VAPOR BARRIER (NOTE 15B)		ADHESIVE PER TABLE 2A OR 2B (NOTES 6,7,8)	MDP (PSF)
	DECK (NOTE 1)	TYPE	FASTEN	ATTACH (NOTE 17)		BASE PLY	CAP PLY (GRANULE)		
S-TB/VB-9.	Min. 22 ga., type B, Grade 33 steel	0.25-inch DEXcell FA Glass Mat Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	None	(Optional) SBS-TAF	SBS-TAF	DUOTACK 365	-45.0*
S-TB/VB-10.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	Derbibase SA Primer	Derbistick SA or SBS-SA1 (sanded top surface)	None	DUOTACK	-45.0*
S-TB/VB-11.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	Derbibase SA Primer	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-45.0*
S-TB/VB-12.	Min. 22 ga., type B, Grade 33 steel	0.25-inch DEXcell FA Glass Mat Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	Derbibase SA Primer	Derbistick SA or SBS-SA1 (sanded top surface)	None	DUOTACK	-45.0*
S-TB/VB-13.	Min. 22 ga., type B, Grade 33 steel	0.25-inch DEXcell FA Glass Mat Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	Derbibase SA Primer	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-45.0*
S-TB/VB-14.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365	12-inch o.c.	None	SBS-AA or SBS-TAF (sanded top surface)	None	DUOTACK	-45.0*
S-TB/VB-15.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365	12-inch o.c.	None	(Optional) SBS-TAF	SBS-TAF	DUOTACK 365	-45.0*
S-TB/VB-16.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365	12-inch o.c.	ELASTOCOL Stick or ELASTOCOL Stick Zero	SOPRAVAP'R or SBS-SA1 (sanded top surface)	None	DUOTACK	-45.0*
S-TB/VB-17.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365	12-inch o.c.	ELASTOCOL Stick or ELASTOCOL Stick Zero	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-45.0*
S-TB/VB-18.	Min. 22 ga., type B, Grade 33 steel	0.5-inch DEXcell FA Glass Mat Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	None	SBS-CA3 (sanded top surface)	None	DUOTACK	-75.0
S-TB/VB-19.	Min. 22 ga., type B, Grade 33 steel	0.5-inch DEXcell FA Glass Mat Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	None	SBS-TAF (sanded top surface)	None	DUOTACK	-75.0
S-TB/VB-20.	Min. 22 ga., type B, Grade 33 steel	0.5-inch DEXcell FA Glass Mat Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	None	(Optional) SBS-TAF	SBS-TAF	DUOTACK 365	-75.0
S-TB/VB-21.	Min. 22 ga., type B, Grade 40 steel	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	None	SBS-CA3, SBS-CA4 or SBS-AA (sanded top surface)	None	DUOTACK	-82.5
S-TB/VB-22.	Min. 22 ga., type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	None	SBS-AA (sanded top surface)	None	DUOTACK	-82.5
S-TB/VB-23.	Min. 22 ga., type B, Grade 40 steel	Min. 0.5-inch DensDeck, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	ASTM D41 primer	SBS-TAF (sanded top surface)	None	DUOTACK	-82.5
S-TB/VB-24.	Min. 22 ga., type B, Grade 40 steel	Min. 0.5-inch DensDeck, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	ASTM D41 primer	(Optional) SBS-TAF	SBS-TAF	DUOTACK 365	-82.5

STEEL DECKS: THERMAL BARRIER / VAPOR BARRIER OPTIONS, FOLLOWED BY BONDED INSULATION									
OPTION #	THERMAL BARRIER				PRIMER	VAPOR BARRIER (NOTE 15B)		ADHESIVE PER TABLE 2A OR 2B (NOTES 6,7,8)	MDP (PSF)
	DECK (NOTE 1)	TYPE	FASTEN	ATTACH (NOTE 17)		BASE PLY	CAP PLY (GRANULE)		
S-TB/VB-25.	Min. 22 ga., type B, Grade 40 steel	Min. 0.5-inch DensDeck, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	Derbibase SA Primer	Derbistick SA or SBS-SA1 (sanded top surface)	None	DUOTACK	-82.5
S-TB/VB-26.	Min. 22 ga., type B, Grade 40 steel	Min. 0.5-inch DensDeck, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	Derbibase SA Primer	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-82.5
S-TB/VB-27.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365	6-inch o.c.	None	SBS-AA or SBS-TAF (sanded top surface)	None	DUOTACK	-127.5
S-TB/VB-28.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365	6-inch o.c.	None	(Optional) SBS-TAF	SBS-TAF	DUOTACK 365	-127.5
S-TB/VB-29.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365	6-inch o.c.	Derbibase SA Primer	Derbistick SA or SBS-SA1 (sanded top surface)	None	DUOTACK	-127.5
S-TB/VB-30.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365	6-inch o.c.	Derbibase SA Primer	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-127.5
S-TB/VB-31.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DensDeck Prime	DUOTACK SPF HFO	12-inch o.c.	ELASTOCOL Stick or ELASTOCOL Stick Zero	SOPRAVAP'R or SBS-SA1 (sanded top surface)	None	DUOTACK SPF HFO	-75.0
S-TB/VB-32.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DensDeck Prime	DUOTACK SPF HFO	12-inch o.c.	ELASTOCOL Stick or ELASTOCOL Stick Zero	(Optional) SBS-SA1	SBS-TAF	DUOTACK SPF HFO	-75.0
S-TB/VB-33.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	12-inch o.c.	None	SBS-AA (sanded top surface)	None	DUOTACK SPF HFO	-75.0
S-TB/VB-34.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	12-inch o.c.	ELASTOCOL Stick Zero	SOPRAVAP'R	None	DUOTACK SPF HFO	-75.0
S-TB/VB-35.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	12-inch o.c.	ELASTOCOL 500	SBS-TAF (sanded top surface)	None	DUOTACK SPF HFO	-75.0
S-TB/VB-36.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	12-inch o.c.	ELASTOCOL 500	(Optional) SBS-TAF	SBS-TAF	DUOTACK SPF HFO	-75.0
S-TB/VB-37.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	12-inch o.c.	ELASTOCOL Stick Zero	SOPRAVAP'R	None	DUOTACK SPF HFO	-75.0
S-TB/VB-38.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	12-inch o.c.	ELASTOCOL Stick or ELASTOCOL Stick Zero	SBS-SA1 (sanded top surface)	None	DUOTACK SPF HFO	-75.0
S-TB/VB-39.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	12-inch o.c.	ELASTOCOL Stick or ELASTOCOL Stick Zero	(Optional) SBS-SA1	SBS-TAF	DUOTACK SPF HFO	-75.0
S-TB/VB-40.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DensDeck Prime	DUOTACK SPF HFO	6-inch o.c.	ELASTOCOL Stick or ELASTOCOL Stick Zero	SOPRAVAP'R or SBS-SA1 (sanded top surface)	None	DUOTACK SPF HFO, 6-inch o.c.	-127.5

STEEL DECKS: THERMAL BARRIER / VAPOR BARRIER OPTIONS, FOLLOWED BY BONDED INSULATION									
OPTION #	THERMAL BARRIER				PRIMER	VAPOR BARRIER (NOTE 15B)		ADHESIVE PER TABLE 2A OR 2B (NOTES 6,7,8)	MDP (PSF)
	DECK (NOTE 1)	TYPE	FASTEN	ATTACH (NOTE 17)		BASE PLY	CAP PLY (GRANULE)		
S-TB/VB-41.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DensDeck Prime	DUOTACK SPF HFO	6-inch o.c.	ELASTOCOL Stick or ELASTOCOL Stick Zero	(Optional) SBS-SA1	SBS-TAF	DUOTACK SPF HFO, 6-inch o.c.	-127.5
S-TB/VB-42.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	6-inch o.c.	None	SBS-AA (sanded top surface)	None	DUOTACK SPF HFO, 6-inch o.c.	-127.5
S-TB/VB-43.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	6-inch o.c.	ELASTOCOL Stick Zero	SOPRAVAP'R	None	DUOTACK SPF HFO, 6-inch o.c.	-127.5
S-TB/VB-44.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	6-inch o.c.	ELASTOCOL 500	SBS-TAF (sanded top surface)	None	DUOTACK SPF HFO, 6-inch o.c.	-127.5
S-TB/VB-45.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	6-inch o.c.	ELASTOCOL 500	(Optional) SBS-TAF	SBS-TAF	DUOTACK SPF HFO, 6-inch o.c.	-127.5
S-TB/VB-46.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	6-inch o.c.	ELASTOCOL Stick Zero	SOPRAVAP'R	None	DUOTACK SPF HFO, 6-inch o.c.	-127.5
S-TB/VB-47.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	6-inch o.c.	ELASTOCOL Stick or ELASTOCOL Stick Zero	SBS-SA1 (sanded top surface)	None	DUOTACK SPF HFO, 6-inch o.c.	-127.5
S-TB/VB-48.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	6-inch o.c.	ELASTOCOL Stick or ELASTOCOL Stick Zero	(Optional) SBS-SA1	SBS-TAF	DUOTACK SPF HFO, 6-inch o.c.	-127.5

16C Structural Concrete Decks: The lesser of the MDP listings below vs. that for the selected assembly applies.

CONCRETE DECKS: 1-PLY VAPOR BARRIER OPTIONS, FOLLOWED BY BONDED INSULATION				
OPTION #	PRIMER	VAPOR BARRIER (NOTE 15B)	ADHESIVE PER TABLE 3A (NOTES 6,7,8)	MDP (PSF)
C-VB-1.	none	SOPRASMART XP HD 180 Sanded applied in DUOTACK, ribbons 12-inch o.c. (laps are torched or sealed with a hot air gun)	DUOTACK	-52.5
C-VB-2.	ASTM D41	SBS-CA4 (granule top surface)	DUOTACK	-97.5
C-VB-3.	ASTM D41	SBS-CA4 (sanded top surface)	DUOTACK	-120.0
C-VB-4.	none	SBS-CA2 (sanded- or granule-top-surface), ribbons 6-inch o.c.	DUOTACK	-120.0
C-VB-5.	(Optional) ASTM D41	SBS-CA3 (granule top surface)	DUOTACK	-195.0
C-VB-6.	ASTM D41	SBS-AA (granule top surface)	DUOTACK	-195.0
C-VB-7.	ASTM D41	SBS-TAF (granule top surface)	DUOTACK	-195.0
C-VB-8.	Derbibase SA Primer	SBS-SA1 (granule top surface)	DUOTACK	-195.0
C-VB-9.	none	SBS-CA2 (sanded- or granule-top-surface), ribbons 6-inch o.c.	DUOTACK (ribbons shall be applied perpendicular to vapor barrier adhesive ribbons)	-207.5
C-VB-10.	ASTM D41	SBS-TAP (sanded top surface)	DUOTACK	-232.5
C-VB-11.	Derbibase SA Primer	Derbistick SA, self-adhering	DUOTACK	-240.0

CONCRETE DECKS: 1-PLY VAPOR BARRIER OPTIONS, FOLLOWED BY BONDED INSULATION				
OPTION #	PRIMER	VAPOR BARRIER (NOTE 15B)	ADHESIVE PER TABLE 3A (NOTES 6,7,8)	MDP (PSF)
C-VB-12.	none	SBS-CA3 (sanded top surface)	DUOTACK	-255.0
C-VB-13.	ASTM D41	SBS-CA3 (sanded top surface)	DUOTACK	-270.0
C-VB-14.	ASTM D41	SBS-AA (sanded top surface)	DUOTACK	-270.0
C-VB-15.	Derbibase SA Primer	One or two plies Derbibase SA or Derbibase SA Ultra, self-adhering	DUOTACK	-315.0
C-VB-16.	ASTM D41	SBS-TAF (sanded top surface)	DUOTACK	-382.5
C-VB-17.	none	SBS-CA2 (sanded- or granule-top-surface), ribbons 6-inch o.c.	DUOTACK, 6-inch o.c.	-445.0
C-VB-18.	ASTM D41	SBS-CA4 (granule top surface)	DUOTACK SPF HFO	-97.5
C-VB-19.	ASTM D41	SBS-CA4 (sanded top surface)	DUOTACK SPF HFO	-120.0
C-VB-20.	(Optional) ASTM D41, ELASTOCOL 500	SBS-CA3 (granule top surface)	DUOTACK SPF HFO	-195.0
C-VB-21.	ASTM D41	SBS-AA (granule top surface)	DUOTACK SPF HFO	-195.0
C-VB-22.	ASTM D41	SBS-TAF (granule top surface)	DUOTACK SPF HFO	-195.0
C-VB-23.	ELASTOCOL Stick, ELASTOCOL Stick Zero	SBS-SA1 (granule top surface)	DUOTACK SPF HFO	-195.0
C-VB-24.	(Optional) ASTM D41, ELASTOCOL 500	SBS-CA3 (sanded top surface)	DUOTACK SPF HFO	-222.5
C-VB-25.	ASTM D41	SBS-AA (sanded top surface)	DUOTACK SPF HFO	-222.5
C-VB-26.	ASTM D41	SBS-TAP or SBS-TAF (sanded top surface)	DUOTACK SPF HFO	-222.5
C-VB-27.	ELASTOCOL Stick, ELASTOCOL Stick Zero	SBS-SA1 (sanded top surface)	DUOTACK SPF HFO	-222.5
C-VB-28.	ELASTOCOL Stick Zero	SOPRAVAP'R, self-adhering	DUOTACK SPF HFO	-392.5
C-VB-29.	ASTM D41	Derbibase or Derbibase Ultra, torch-applied	hot asphalt	-75.0
C-VB-30.	ASTM D41	SBS-AA (sanded top surface)	hot asphalt	-210.0
C-VB-31.	ASTM D41	SOPRA IV, SOPRA VI, MODIFIED SOPRA G applied in hot asphalt	hot asphalt	-270.0
C-VB-32.	none	SBS-CA2 (sanded-top-surface), ribbons 6-inch o.c.	hot asphalt	-367.5
C-VB-33.	ASTM D41	SBS-TAF (sanded top surface)	hot asphalt	-367.5
C-VB-34.	ASTM D41	Derbibase, torch-applied	OB500, ribbons 12" o.c.	-77.5
C-VB-35.	ASTM D41	Bitutak Cold Mineral, SELECT APP POLY GR, Derbicolor P in Permastic Adhesive	OB500, ribbons 12" o.c.	-165.0
C-VB-36.	ASTM D41	Bitutak Cold Mineral, SELECT APP POLY GR, Derbicolor P, Bitutak MB Mineral, SELECT APP POLY FLAM GR, torch-applied	OB500, ribbons 12" o.c.	-180.0
C-VB-37.	ASTM D41	Two (2) PRS Glass Ply IV or VI in hot asphalt	OB500, ribbons 12" o.c.	-210.0
C-VB-38.	ASTM D41	Two (2) plies PRS Glass Ply IV in Permastic Adhesive	Permastic	-52.5
C-VB-39.	ASTM D41	Derbicolor GP, Derbicolor P-FR, Derbicolor GP-FR, Derbicolor XPS, Derbicolor XPS-FR, Bitutak Cold Mineral, SELECT APP POLY GR, Derbicolor P, Bitutak MB Mineral, SELECT APP POLY FLAM GR, PrimeSource Grip-Rite APP Mineral, torch-applied	DUOTACK SPF HFO, ribbons 12" o.c.	-150.0

CONCRETE DECKS: 2-PLY VAPOR BARRIER OPTIONS, FOLLOWED BY BONDED INSULATION					
OPTION #	PRIMER	VAPOR BARRIER (NOTE 15B)		ADHESIVE PER TABLE 3A (NOTES 6,7,8)	MDP (PSF)
		BASE PLY	TOP PLY		
C-VB-40.	ASTM D41	SBS-CA4	SBS-CA4, SBS-AA or SBS-TAF (granule top surface)	DUOTACK	-97.5
C-VB-41.	ASTM D41	SBS-CA4	SBS-CA4 (sanded top surface)	DUOTACK	-120.0
C-VB-42.	none	SBS-CA2, ribbons 6-inch o.c.	SBS-CA3 or SBS-TAF (sanded- or granule-top-surface)	DUOTACK	-120.0
C-VB-43.	(Optional) ASTM D41	SBS-CA3	SBS-CA3, SBS-CA4, SBS-AA, SBS-TAF or SBS-SA1 (granule top surface)	DUOTACK	-195.0

CONCRETE DECKS: 2-PLY VAPOR BARRIER OPTIONS, FOLLOWED BY BONDED INSULATION					
OPTION #	PRIMER	VAPOR BARRIER (NOTE 15B)		ADHESIVE PER TABLE 3A (NOTES 6,7,8)	MDP (PSF)
		BASE PLY	TOP PLY		
C-VB-44.	ASTM D41	SBS-AA or SBS-TAF	SBS-CA3, SBS-CA4, SBS-AA, SBS-TAF or SBS-SA1 (granule top surface)	DUOTACK	-195.0
C-VB-45.	Derbibase SA Primer	SBS-SA1	SBS-CA3, SBS-CA4, SBS-AA, SBS-TAF or SBS-SA1 (granule top surface)	DUOTACK	-195.0
C-VB-46.	none	SBS-CA2, ribbons 6-inch o.c.	SBS-CA3 or SBS-TAF (sanded- or granule-top-surface)	DUOTACK (ribbons shall be applied perpendicular to vapor barrier adhesive ribbons)	-207.5
C-VB-47.	ASTM D41	SBS-TAP	SBS-TAF (sanded top surface)	DUOTACK	-232.5
C-VB-48.	none	SBS-CA3	SBS-CA3 (sanded top surface)	DUOTACK	-255.0
C-VB-49.	ASTM D41	SBS-CA3	SBS-CA3 (sanded top surface)	DUOTACK	-270.0
C-VB-50.	ASTM D41	BP-AA	BP-AA	DUOTACK	-270.0
C-VB-51.	ASTM D41	SBS-AA	SBS-AA (sanded top surface)	DUOTACK	-270.0
C-VB-52.	Derbibase SA Primer	SBS-SA1	SBS-SA1 (sanded top surface)	DUOTACK	-315.0
C-VB-53.	ASTM D41	SBS-TAF	SBS-TAF (sanded top surface)	DUOTACK	-382.5
C-VB-54.	none	SBS-CA2, ribbons 6-inch o.c.	SBS-CA3 (sanded- or granule-top-surface)	DUOTACK, 6-inch o.c.	-382.5
C-VB-55.	none	SBS-CA2, ribbons 6-inch o.c.	SBS-TAF (sanded- or granule-top-surface)	DUOTACK, 6-inch o.c.	-445.0
C-VB-56.	ASTM D41	SBS-AA	SBS-AA (sanded top surface)	hot asphalt	-210.0
C-VB-57.	ASTM D41	BP-AA	BP-AA	hot asphalt	-270.0
C-VB-58.	none	SBS-CA2, ribbons 6-inch o.c.	SBS-CA3 or SBS-TAF (sanded-top-surface)	hot asphalt	-367.5
C-VB-59.	ASTM D41	SBS-TAF	SBS-TAF (sanded top surface)	hot asphalt	-367.5

Note: Top surfaces of membranes having a sand finish shall be primed with ASTM D41 primer or Derbibase SA Primer prior to application of subsequent self-adhering membranes.

16D Decks followed by Vapor Barrier followed by Lightweight Concrete (LWC): The lesser of the MDP listings below vs. that for the selected assembly from the Lightweight Concrete tables applies:

DECK FOLLOWED BY VAPOR BARRIER FOLLOWED BY LWC PER LWC SYSTEM TABLES				
OPTION #	PRIMER	VAPOR BARRIER (NOTE 15B)		MDP (PSF)
		BASE PLY	CAP PLY	
LWC-VB-1.	Derbibase SA Primer	One or two plies Derbibase SA or Derbibase SA Ultra, self-adhering	None	-60.0
LWC-VB-2.	None	SBS-CA3 (sanded-top-surface)	None	-255.0
LWC-VB-3.	None	(Optional) SBS-CA3	SBS-CA3 (sanded- or granule-top-surface)	-255.0
LWC-VB-4.	ASTM D41	SBS-CA3 (sanded-top-surface)	None	-270.0
LWC-VB-5.	ASTM D41	(Optional) SBS-CA3	SBS-CA3 (sanded- or granule-top-surface)	-270.0
LWC-VB-6.	ASTM D41	SBS-TAF (sanded-top-surface)	None	-367.5
LWC-VB-7.	ASTM D41	(Optional) SBS-TAF	SBS-TAF (sanded- or granule-top-surface)	-367.5
LWC-VB-8.	None	SBS-CA2, ribbons 6-inch o.c.	SBS-CA3 (sanded- or granule-top-surface)	-382.5
LWC-VB-9.	None	SBS-CA2 (sanded- or granule-top-surface), ribbons 6-inch o.c.	None	-445.0
LWC-VB-10.	None	SBS-CA2, ribbons 6-inch o.c.	SBS-TAF (sanded- or granule-top-surface)	-445.0

16E Cementitious Wood Fiber Decks: The lesser of the MDP listings below vs. that for the selected assembly applies,

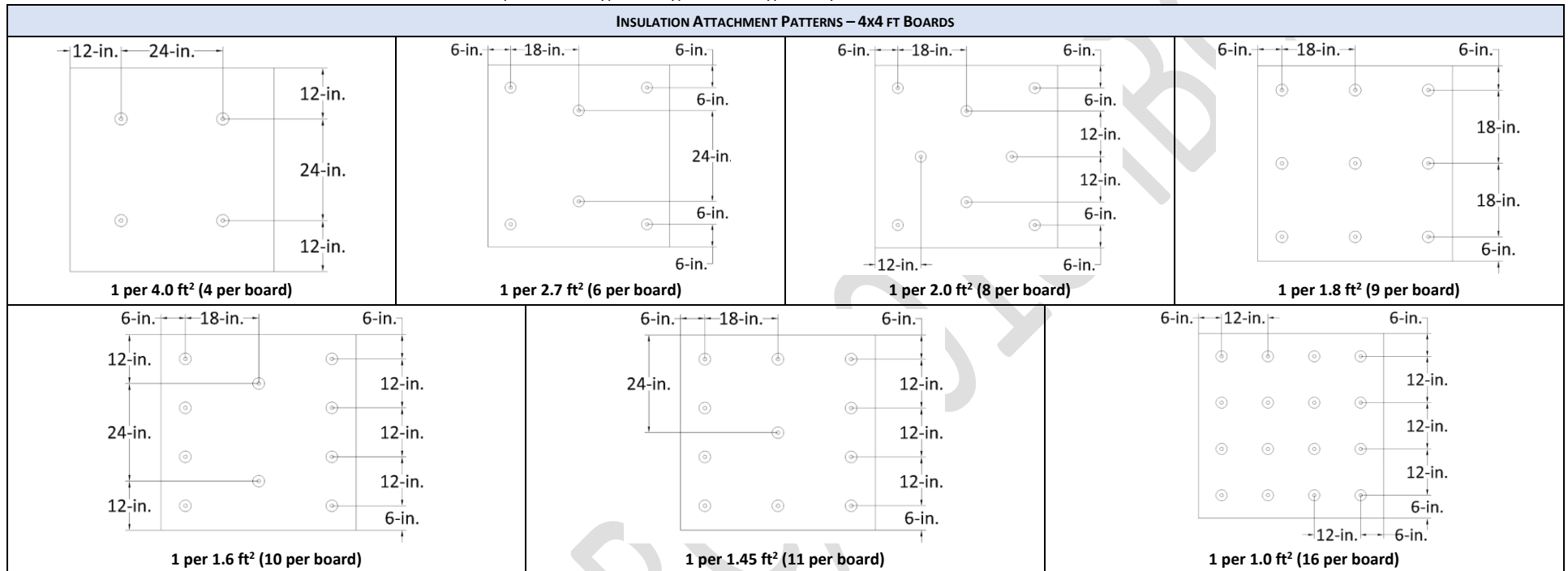
CEMENTITIOUS WOOD FIBER DECKS: VAPOR BARRIER OPTIONS, FOLLOWED BY BONDED INSULATION							
OPTION #	SUBSTRATE BOARD			VAPOR BARRIER (NOTE 15B)		INSULATION ADHESIVE (Notes 6,7,8)	MDP (psf)
	TYPE	FASTENER (Note 11)	ATTACH	BASE PLY	CAP PLY		
CWF-VB-1.	Min. 0.125-inch SOPRABOARD	Trufast Twin Loc-Nail (1.8-inch)	1 per 1.8 ft ²	SBS-CA3, SBS-AA or SBS-TAF	(Optional) SBS-CA3, SBS-AA or SBS-TAF	DUOTACK 365 or DUOTACK SPF HFO per Table 2A	-45.0*
CWF-VB-2.	Min. 0.125-inch SOPRABOARD	Trufast Twin Loc-Nail (1.8-inch)	1 per 1.0 ft ²	SBS-CA3, SBS-AA or SBS-TAF	(Optional) SBS-CA3, SBS-AA or SBS-TAF	DUOTACK 365 or DUOTACK SPF HFO per Table 2A	-67.5
CWF-VB-3.	Min. 0.125-inch SOPRABOARD	DUOTACK 365 or DUOTACK SPF HFO	ribbons 6-inch o.c.	SBS-CA3, SBS-AA or SBS-TAF	(Optional) SBS-CA3, SBS-AA or SBS-TAF	DUOTACK 365 or DUOTACK SPF HFO per Table 3A or 5A	-272.0

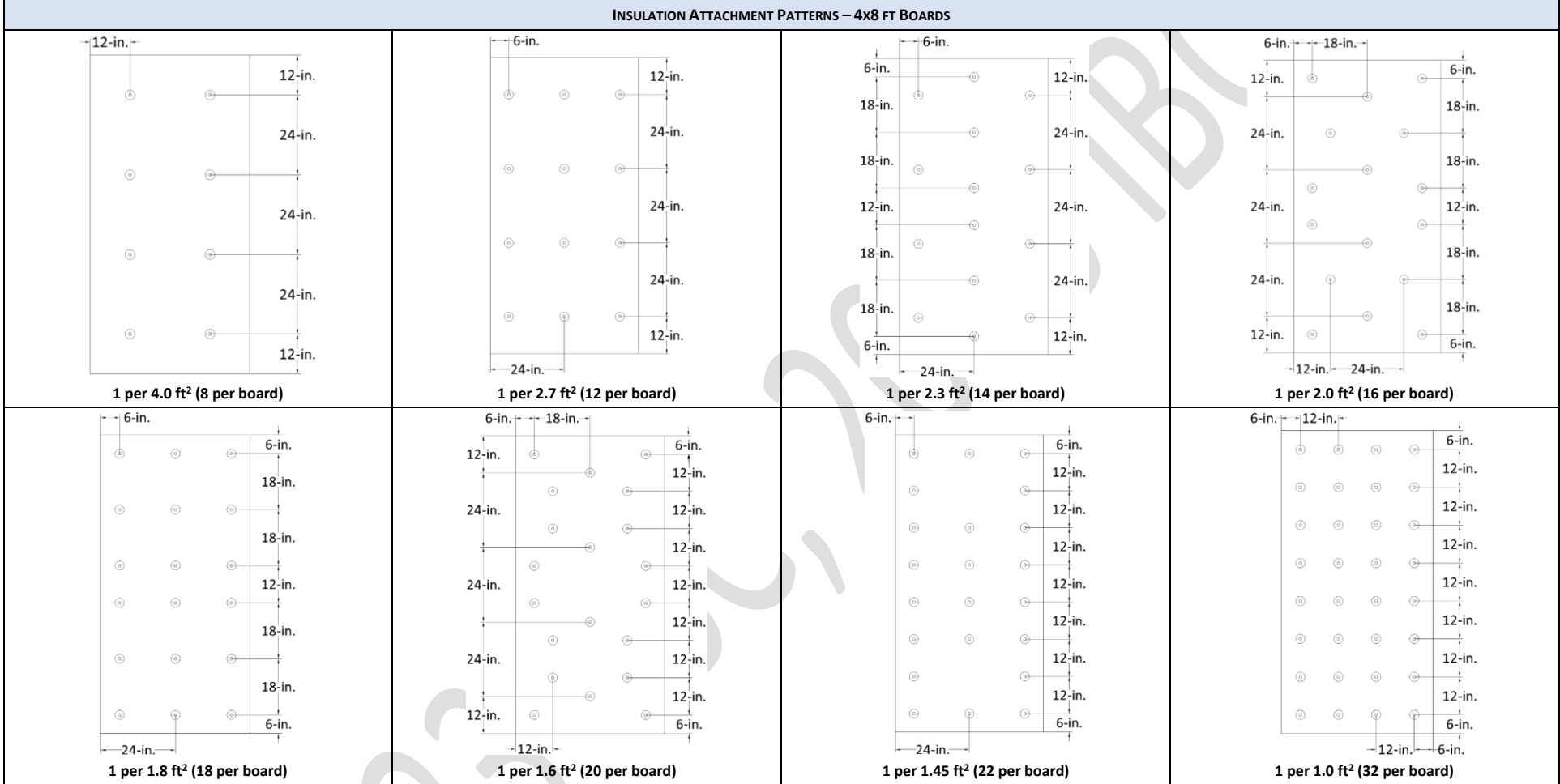
16F Existing Gypsum Decks: The lesser of the MDP listings below vs. that for the selected assembly applies,

EXISTING GYPSUM DECKS: VAPOR BARRIER OPTIONS, FOLLOWED BY BONDED INSULATION				
OPTION #	VAPOR BARRIER (NOTE 15B)		INSULATION ADHESIVE PER TABLE 3A OR 6A (NOTES 6,7,8)	MDP (psf)
	BASE PLY	CAP PLY		
GYP-VB-1.	SBS-CA2 (sanded- or granule-top-surface), ribbons 6-inch o.c.	None	DUOTACK	-120.0
GYP-VB-2.	SBS-CA2, ribbons 6-inch o.c.	SBS-CA3 or SBS-TAF (sanded- or granule-top-surface)	DUOTACK	-120.0
GYP-VB-3.	SBS-CA2 (sanded- or granule-top-surface), ribbons 6-inch o.c.	None	DUOTACK (ribbons shall be applied perpendicular to vapor barrier adhesive ribbons)	-207.5
GYP-VB-4.	SBS-CA2, ribbons 6-inch o.c.	SBS-CA3 or SBS-TAF (sanded- or granule-top-surface)	DUOTACK (ribbons shall be applied perpendicular to vapor barrier adhesive ribbons)	-207.5
GYP-VB-5.	SBS-CA2, ribbons 6-inch o.c.	SBS-CA3 (sanded- or granule-top-surface)	DUOTACK, 6-inch o.c.	-382.5
GYP-VB-6.	SBS-CA2 (sanded- or granule-top-surface), ribbons 6-inch o.c.	None	DUOTACK, 6-inch o.c.	-445.0
GYP-VB-7.	SBS-CA2, ribbons 6-inch o.c.	SBS-TAF (sanded- or granule-top-surface)	DUOTACK, 6-inch o.c.	-445.0

16G For System Types B-1, B-2, C-1, C-2, D-1 or D-2, Derbistick SA may be installed atop the roof deck prior to installation of the insulation and roof cover. Refer to [FM Loss Prevention Data Sheet](#) 1-29 for design and installation recommendations and limitations.

17 Unless otherwise noted, insulation or coverboard attachment patterns for Type B-1, Type B-2 and Type C-1 systems are as outlined below.





18 The following products are interchangeable within the scope of this PEER:

ACCEPTABLE ALTERNATES				
SUB-CATEGORY	BY	LISTED PRODUCT HEREIN	ALTERNATE	
			PRODUCT	FBC FILE
ADHESIVES	SOPREMA	DUOTACK SPF HFO	Polysat Commercial Roofing Adhesive	FL1365
ROOFING INSULATION	Performance Roof Systems	Derbiboard	ACFoam II, SOPRA-ISO s	FL17989
		Derbiboard CA	ACFoam III, SOPRA-ISO+ s	
		Derbiboard Composite	ACFoam Composite/PB	
		Derbiboard h	H-Shield, SOPRA-ISO r	
	SOPREMA	SOPRA-ISO+ r	H-Shield CG	FL5968
	Georgia-Pacific Gypsum	DensDeck Prime	DensDeck StormX Prime Roof Board	FL1250
ROOFING FASTENER	Performance Roof Systems	Perlok #12 DP	Trufast #12 DP	FL4500
		Perlok #14 HD	Trufast #14 HD	
		Perlok #15 EHD	Trufast #15 EHD	
		Perlok Versa-Fast Fastener	Trufast Versa-Fast Fastener	
		Perlok FM-75 Base Sheet Fastener	Trufast FM-75 Base Sheet Fastener	
		Perlok FM-90 Base Sheet Fastener	Trufast FM-90 Base Sheet Fastener	
		Perlok Twin Loc-Nail Assembled Fastener	Trufast Twin Loc-Nail Assembled Fastener	
		Perlok 3-inch Metal Plate	Trufast 3" Metal Insulation Plate	
		Perlok Versa-Fast Plate	Trufast Versa-Fast Plate	
		Perlok-O #12 Screw	OMG #12 Standard Roofgrip	FL699
		Perlok-O #14 Screw	OMG Heavy Duty	
		Perlok XHD	OMG XHD	
		Perlok-O CD-10	OMG CD-10	
		Perlok-O CRBSF 1.2	OMG CR Base Sheet Fastener (1.2")	
	Perlok-O CRBSF 1.7	OMG CR Base Sheet Fastener (1.7")		
	Perlok-O 3" Ribbed Plate	OMG 3 in. Ribbed Galvalume Plate (Flat)		
	Perlok-O 3" Steel Plate	OMG 3 in. Round Metal Plate		
	Perlok AccuTrac Flat Bottom Plate	OMG Flat Bottom Plate (Accutrac)	FL20311	
	#12 Perlok Fastener	Dekfast DF-#12-PH3		
	#14 Perlok Fastener	Dekfast DF-#14-PH3		
Perlok Steel Plate	Dekfast PLT-H-2-7/8			

19 "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC or IBC 1609 for determination of design wind loads. [\(Notes 9 and 10\)](#)

TABLE 1A: WOOD DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
 REFER TO NOTE 16A FOR THERMAL BARRIER / VAPOR BARRIER COMBINATION OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY:									
W-1.	Plywood or OSB	(Optional) Min. 1.5-inch Derbiboard or Derbiboard CA	DUOTACK SPF HFO	Min. 1.5-inch Derbiboard or Derbiboard CA	DUOTACK SPF HFO	CA	None	CA	-45.0
ASPHALT- OR TORCH-APPLIED BASE PLY:									
W-2.	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB, min. 15/32" APA rated plywood or nominal 1" T&G wood plank	Min. 1.5-inch Derbiboard, Derbiboard h, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK 365, 12" o.c.	Min. 0.125-inch SOPRABOARD or min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board	DUOTACK 365, 12" o.c.	APP-TA	(Optional) APP-TA	APP-TA	-52.5
W-3.	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB, min. 15/32" APA rated plywood or nominal 1" T&G wood plank	Min. 1.5-inch Derbiboard, Derbiboard h, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK 365, 6" o.c.	Min. 0.25-in. DEXcell FA Glass Mat Roof Board	DUOTACK 365, 6" o.c.	APP-TA	(Optional) APP-TA	APP-TA	-105.0
W-4.	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB, min. 15/32" APA rated plywood or nominal 1" T&G wood plank	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	DUOTACK 365, ribbons 6" o.c.	None	N/A	APP-TA	(Optional) APP-TA	APP-TA	-105.0
W-5.	Plywood or OSB	(Optional) Min. 1.5-inch Derbiboard or Derbiboard CA	DUOTACK SPF HFO	Min. 0.5-inch Structodek HD with Primed Red Coating or min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	AA	(Optional) AA or APP-TA	APP-TA	-52.5
SELF-ADHERING BASE PLY:									
W-6.	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB, min. 15/32" APA rated plywood or nominal 1" T&G wood plank	Min. 1.5-inch Derbiboard, Derbiboard h, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK 365, 12" o.c.	Min. 0.125-inch SOPRABOARD or min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board. Top surface shall be primed with Derbibase SA Primer.	DUOTACK 365, 12" o.c.	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-52.5
W-7.	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB, min. 15/32" APA rated plywood or nominal 1" T&G wood plank	Min. 1.5-inch Derbiboard, Derbiboard h, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK 365, 6" o.c.	Min. 0.25-in. SOPRABOARD, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch DEXcell Cement Roof Board. Top surface shall be primed with Derbibase SA Primer.	DUOTACK 365, 6" o.c.	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-105.0
W-8.	APA rated, 7/16 CAT, 0.418 in., Exposure 1 OSB, min. 15/32" APA rated plywood or nominal 1" T&G wood plank	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board. Top surface shall be primed with Derbibase SA Primer.	DUOTACK 365, ribbons 6" o.c.	None	N/A	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-105.0

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

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Fastener (Note 11)	Attach (Note 17)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY:										
W-9.	Min. 19/32-inch 4-ply plywood or OSB	Min. 1.5-inch Derbiboard, ISO 95+GL or ENRGY 3	#12 or #14 Perlok Fastener with Perlok Steel Plate, Perlok-O #12 or #14 Screw with Perlok-O 3" Steel Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	1 per 1.45 ft ²	Min. 0.5-inch Structodek HD with Primed Red Coating or JM Retro-Fit Board or min. ¾-inch JM Fesco Board	Asphalt applied	CA	(Optional) AA, CA or APP-TA	CA or APP-TA	-45.0*
W-10.	Min. 19/32-inch 4-ply plywood or OSB	Min. 1.5-inch Derbiboard, ISO 95+GL or ENRGY 3	#12 or #14 Perlok Fastener with Perlok Steel Plate, Perlok-O #12 or #14 Screw with Perlok-O 3" Steel Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	1 per 1.45 ft ²	Min. 0.5-inch Structodek HD with Primed Red Coating or DensDeck	INSTA-STIK	CA	(Optional) AA, CA or APP-TA	CA or APP-TA	-45.0*
W-11.	Min. 19/32-inch 4-ply plywood or OSB	Min. 1.5-inch Derbiboard, ISO 95+GL or ENRGY 3	#12 or #14 Perlok Fastener with Perlok Steel Plate, Perlok-O #12 or #14 Screw with Perlok-O 3" Steel Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	1 per 1.45 ft ²	Min. 0.5-inch Structodek HD with Primed Red Coating, DensDeck or DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	OB500	CA	(Optional) AA, CA or APP-TA	CA or APP-TA	-45.0*
W-12.	Min. 19/32-inch 4-ply plywood or OSB	Min. 1.5-inch Derbiboard, ISO 95+GL or ENRGY 3	#12 or #14 Perlok Fastener with Perlok Steel Plate, Perlok-O #12 or #14 Screw with Perlok-O 3" Steel Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	1 per 1.45 ft ²	Min. 0.5-inch Structodek HD with Primed Red Coating or DensDeck	DUOTACK SPF HFO	CA	(Optional) AA, CA or APP-TA	CA or APP-TA	-45.0*
ASPHALT-APPLIED BASE PLY:										
W-13.	Min. 19/32-inch 4-ply plywood or OSB	Min. 1.5-inch Derbiboard, ISO 95+GL or ENRGY 3	#12 or #14 Perlok Fastener with Perlok Steel Plate, Perlok-O #12 or #14 Screw with Perlok-O 3" Steel Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	1 per 1.45 ft ²	Min. 0.5-inch Structodek HD with Primed Red Coating or JM Retro-Fit Board or min. ¾-inch JM Fesco Board	Asphalt applied	AA	(Optional) AA, CA or APP-TA	CA or APP-TA	-45.0*
W-14.	Min. 19/32-inch 4-ply plywood or OSB	Min. 2-inch Derbiboard, ISO 95+GL or ENRGY 3	#12 or #14 Perlok Fastener with Perlok Steel Plate, Perlok-O #12 or #14 Screw with Perlok-O 3" Steel Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	1 per 1.45 ft ²	Min. 0.5-inch Structodek HD with Primed Red Coating or JM Retro-Fit Board or min. ¾-inch JM Fesco Board	Asphalt applied	AA	(Optional) AA or APP-TA	APP-TA	-60.0*
W-15.	Min. 19/32-inch 4-ply plywood or OSB	Min. 1.5-inch Derbiboard, ISO 95+GL or ENRGY 3	#12 or #14 Perlok Fastener with Perlok Steel Plate, Perlok-O #12 or #14 Screw with Perlok-O 3" Steel Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	1 per 1.45 ft ²	Min. 0.5-inch Structodek HD with Primed Red Coating or DensDeck	INSTA-STIK	AA	(Optional) AA, CA or APP-TA	CA or APP-TA	-45.0*
W-16.	Min. 19/32-inch 4-ply plywood or OSB	Min. 1.5-inch Derbiboard, ISO 95+GL or ENRGY 3	#12 or #14 Perlok Fastener with Perlok Steel Plate, Perlok-O #12 or #14 Screw with Perlok-O 3" Steel Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	1 per 1.45 ft ²	Min. 0.5-inch Structodek HD with Primed Red Coating, DensDeck or DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	OB500	AA	(Optional) AA, CA or APP-TA	CA or APP-TA	-45.0*

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

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Fastener (Note 11)	Attach (Note 17)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
W-17.	Min. 19/32-inch 4-ply plywood or OSB	Min. 1.5-inch Derbiboard, ISO 95+GL or ENRGY 3	#12 or #14 Perlok Fastener with Perlok Steel Plate, Perlok-O #12 or #14 Screw with Perlok-O 3" Steel Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	1 per 1.45 ft ²	Min. 0.5-inch Structodek HD with Primed Red Coating or DensDeck	DUOTACK SPF HFO	AA	(Optional) AA, CA or APP-TA	CA or APP-TA	-45.0*
TORCH-APPLIED BASE PLY:										
W-18.	Min. 19/32-inch APA rated OSB or CDX plywood	Min 2-inch Derbiboard, Derbiboard h, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener	1 per 2.7 ft ²	Min. 0.125-inch SOPRABOARD	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
W-19.	Min. 15/32-inch APA rated BCX plywood	Min 2-inch Derbiboard, Derbiboard h, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	Perlok Versa-Fast Plate with minimum two (2) Perlok Versa-Fast Fastener or Perlok #14 HD Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	Min. 0.25-inch SOPRABOARD	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-67.5
SELF-ADHERING BASE PLY:										
W-20.	Min. 19/32-inch APA rated OSB or CDX plywood	Min 2-inch Derbiboard, Derbiboard h, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 2.7 ft ²	Min. 0.125-inch SOPRABOARD or min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board. Top surface shall be primed with Derbibase SA Primer.	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-45.0*
W-21.	Min. 15/32-inch APA rated BCX plywood	Min 2-inch Derbiboard, Derbiboard h, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	Perlok Versa-Fast Plate with minimum two (2) Perlok Versa-Fast Fastener or Perlok #14 HD Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	Min. 0.25-inch SOPRABOARD, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board. Top surface shall be primed with Derbibase SA Primer	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-67.5

TABLE 1c: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Thermal Barrier			Vapor Barrier	Base Insulation		Top Insulation		Roof Cover (Note 15)			MDP (psf)
		Type	Fastener (Note 11)	Attach (Note 17)		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
W-22.	Min. nominal ¾-inch plywood or nominal 2-inch wood plank	Min. 5/8-inch DensDeck or DEXcell FA Glass Mat Roof Board	#12 or #14 Perlok Fastener with Perlok Steel Plate, Perlok-O #12 or #14 Screw with Perlok-O 3" Steel Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	Derbibase or Derbibase Ultra in Permastic at 1.5 to 2.0 gal/sq.	One or more layers min. 1.5-inch Derbiboard	INSTA-STIK	(Optional) Min. 0.5-inch DensDeck or Structodek HD with Primed Red Coating	INSTA-STIK	CA	(Optional) CA	CA	-45.0*
W-23.	Min. nominal ¾-inch plywood or nominal 2-inch wood plank	Min. 5/8-inch DensDeck or DEXcell FA Glass Mat Roof Board	#12 or #14 Perlok Fastener with Perlok Steel Plate, Perlok-O #12 or #14 Screw with Perlok-O 3" Steel Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	Derbibase or Derbibase Ultra in Permastic at 1.5 to 2.0 gal/sq.	One or more layers min. 1.5-inch Derbiboard	OB500	(Optional) Min. 0.5-inch DensDeck, DEXcell FA Glass Mat Roof Board or Structodek HD with Primed Red Coating or 7/16-inch DEXcell Cement Roof Board	OB500	CA	(Optional) CA	CA	-45.0*

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

System No.	Deck (Note 1)	Base Insulation Layer (Note 3, Note 13)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fastener (Note 11)	Attach (Note 17)	Base Ply	Ply	Cap Ply	
ASPHALT-APPLIED BASE PLY:									
W-24.	Min. 19/32-inch 4-ply plywood or OSB	(Optional) One or more layers, any combination, loose laid	Min. 2-inch Derbiboard Composite, ISO 95+ GL Composite, JM Fesco Foam or JM ENRGY 3 Plus	#12 or #14 Perlok Fastener with Perlok Steel Plate, Perlok-O #12 or #14 Screw with Perlok-O 3" Steel Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	1 per 1.45 ft ²	AA	(Optional) AA or APP-TA	APP-TA	-67.5*
TORCH-APPLIED BASE PLY:									
W-25.	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD	Dekfast #14 with Hex Plate or 3" Round Insulation Plate	1 per 2.3 ft ²	APP-TA	(Optional) APP-TA	APP-TA	-30.0*
W-26.	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD	Perlok HD with Perlok Steel Plate or Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 2.3 ft ²	APP-TA	(Optional) APP-TA	APP-TA	-37.5*
W-27.	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD	Perlok HD with Perlok Steel Plate or Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	APP-TA	(Optional) APP-TA	APP-TA	-45.0*

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

System No.	Deck (Note 1)	Base Insulation Layer (Note 3, Note 13)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fastener (Note 11)	Attach (Note 17)	Base Ply	Ply	Cap Ply	
W-28.	Min. 15/32-inch APA rated CDX plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board	Perlok #12 DP with Perlok 3-inch Metal Plate	1 per 1.6 ft ² (10 per 4x4 ft board)	APP-TA	(Optional) APP-TA	APP-TA	-67.5
W-29.	Min. 15/32-inch APA rated BCX plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board	Perlok Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or Perlok #14 HD Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	APP-TA	(Optional) APP-TA	APP-TA	-67.5
W-30.	Min. 19/32-inch APA rated CDX plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board	Perlok Versa-Fast Plate with minimum one (1) Perlok #14 HD Fastener installed into the center hole of the Versa-Fast Plate	1 per 1.8 ft ²	APP-TA	(Optional) APP-TA	APP-TA	-67.5
SELF-ADHERING BASE PLY:									
W-31.	APA rated, min. 19/32 CAT, 0.578 in., Exposure 1 OSB sheathing	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DEXcell FA Glass Mat Roof Board. Top surface shall be primed with Derbibase SA Primer.	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener	1 per 4.0 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-30.0*
W-32.	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD. Top surface shall be primed with Derbibase SA Primer.	Dekfast #14 with Hex Plate or 3" Round Insulation Plate	1 per 2.3 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-30.0*
W-33.	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DEXcell FA Glass Mat Roof Board. Top surface shall be primed with Derbibase SA Primer.	Perlok Versa-Fast Plate with minimum one (1) Perlok Versa-Fast Fastener	1 per 4.0 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-37.5*
W-34.	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD primed with Derbibase SA Primer or 0.25-inch DensDeck Prime	Perlok HD with Perlok Steel Plate or Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 2.3 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-37.5*
W-35.	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD or 0.25-inch DensDeck Prime	Perlok HD with Perlok Steel Plate or Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-45.0*
W-36.	Min. 15/32-inch APA rated CDX plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board. Top surface shall be primed with Derbibase SA Primer.	Perlok #12 DP with Perlok 3-inch Metal Plate	1 per 1.6 ft ² (10 per 4x4 ft board)	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-67.5
W-37.	Min. 15/32-inch APA rated BCX plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board. Top surface shall be primed with Derbibase SA Primer.	Perlok Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or Perlok #14 HD Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-67.5

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

System No.	Deck (Note 1)	Base Insulation Layer (Note 3, Note 13)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fastener (Note 11)	Attach (Note 17)	Base Ply	Ply	Cap Ply	
W-38.	Min. 19/32-inch APA rated CDX plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board, min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board. Top surface shall be primed with Derbibase SA Primer.	Perlok Versa-Fast Plate with minimum one (1) Perlok #14 HD Fastener installed into the center hole of the Versa-Fast Plate	1 per 1.8 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-67.5

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

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Fastener (Note 11)	Attach	Base Ply	Cap Ply	
ASPHALT- OR TORCH-APPLIED BASE PLY:							
W-39.	Min. 19/32-inch 4-ply plywood or OSB	PRS GlassBase, PRS Modified Base Sheet or Derbibase	Senco Rayon Tape and N12FABN staples	Staples spaced max. 5-inch o.c. in tape rows located in the min. 2-inch wide lap and in three, equally spaced rows between the laps	AA or APP-TA	APP-TA	-45.0*
W-40.	Min. 19/32-inch 4-ply plywood or OSB	PRS GlassBase, PRS Modified Base Sheet or Derbibase	#12 or #14 Perlok Fastener with Perlok Steel Plate, Perlok-O #12 or #14 Screw with Perlok-O 3" Steel Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	9-inch o.c. in the min. 2-inch wide lap and 9-inch o.c. in three, equally spaced, staggered center rows	AA or APP-TA	APP-TA	-52.5
SELF-ADHERING BASE PLY:							
W-41.	Min. 15/32-inch plywood	Soprabase S (primed with Derbibase SA Primer)	Simplex MAXX Cap	9-inch o.c. at 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	SBS-SA	APP-TA or SBS-TA	-45.0*
W-42.	Min. 15/32-inch plywood	Soprabase S (primed with Derbibase SA Primer)	Simplex MAXX Cap	9-inch o.c. at 2-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	SBS-SA	APP-TA or SBS-TA	-52.5
W-43.	Min. 15/32-inch plywood	Soprabase S (primed with Derbibase SA Primer)	Simplex MAXX Cap	6-inch o.c. at 2-inch lap and 6-inch o.c. in two, equally spaced, staggered center rows	SBS-SA	APP-TA or SBS-TA	-90.0
W-44.	Min. 15/32-inch plywood	Soprabase S (primed with Derbibase SA Primer)	Simplex MAXX Cap	6-inch o.c. at 2-inch lap and 6-inch o.c. in three, equally spaced, staggered center rows	SBS-SA	APP-TA or SBS-TA	-105.0

TABLE 2A: STEEL DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
 REFER TO NOTE 16B FOR THERMAL BARRIER / VAPOR BARRIER COMBINATION OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY:									
S-1.	22 ga., Type B, Grade 33 steel	Min. 1.5-inch ISO 95+ GL	INSTA-STIK	Min. 1.5-inch ISO 95+ GL	INSTA-STIK	CA	None	CA	-45.0*
S-2.	22 ga., Type B, Grade 40 steel	Min. 2-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Additional optional layer(s), min. 1.5-inch base insulation followed by min. 0.25-inch DensDeck Prime	DUOTACK	CA	(Optional) CA or APP-TA	CA or APP-TA	-67.5
S-3.	22 ga., Type B, Grade 33 steel	(Optional) Min. 1.5-inch Derbiboard	OB500	Min. 1.5-inch Derbiboard or Derbiboard CA	OB500	CA	None	CA	-45.0*
S-4.	22 ga., Type B, Grade 33 steel	(Optional) Min. 1.5-inch Derbiboard	DUOTACK SPF HFO	Min. 1.5-inch Derbiboard	DUOTACK SPF HFO	CA	None	CA	-45.0
ASPHALT- OR TORCH-APPLIED BASE PLY:									
S-5.	22 ga., Type B, Grade 40 steel	Min. 2-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Additional optional layer(s), min. 1.5-inch base insulation followed by min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK	AA or APP-TA	(Optional) AA or APP-TA	APP-TA	-60.0
S-6.	22 ga., Type B, Grade 40 steel	Min. 2-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Additional optional layer(s), min. 1.5-inch base insulation followed by min. 0.25-inch SECUROCK Gypsum Fiber Roof Board	DUOTACK	AA or APP-TA	(Optional) AA or APP-TA	APP-TA	-75.0
TORCH-APPLIED BASE PLY:									
S-7.	22 ga., Type B, Grade 40 steel	Min. 2-inch Derbiboard, Derbiboard CA, Derbiboard h, SOPRA-ISO+r or Multi-Max FA3	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Additional optional layer(s), min. 1.5-inch base insulation followed by min. 0.125-inch SOPRABOARD	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-52.5
S-8.	22 ga., Type B, Grade 40 steel	Min. 2-inch Derbiboard, Derbiboard CA, Derbiboard h, SOPRA-ISO+r or Multi-Max FA3	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Additional optional layer(s), min. 1.5-inch base insulation followed by min. 0.25-inch SOPRABOARD	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-82.5
S-9.	22 ga., Type B, Grade 50 steel	Min. 2-inch Derbiboard, Derbiboard CA, Derbiboard h, SOPRA-ISO+r, Multi-Max FA3 or SOPRA-ISO+x	DUOTACK 365 or DUOTACK SPF, ribbons 6" o.c. (on each deck flange)	Min. 0.25-in. DensDeck Prime or DEXcell FA Glass Mat Roof Board	DUOTACK 365 or DUOTACK SPF, ribbons 6" o.c.	APP-TA	(Optional) APP-TA	APP-TA	-120.0
SELF-ADHERING BASE PLY:									
S-10.	22 ga., Type B, Grade 40 steel	Min. 2-inch Derbiboard, Derbiboard CA, Derbiboard h, SOPRA-ISO+r or Multi-Max FA3	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Additional optional layer(s), min. 1.5-inch base insulation followed by min. 0.125-inch SOPRABOARD. Top surface shall be primed with Derbibase SA Primer.	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-60.0

TABLE 2A: STEEL DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
 REFER TO NOTE 16B FOR THERMAL BARRIER / VAPOR BARRIER COMBINATION OPTIONS

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
S-11.	22 ga., Type B, Grade 40 steel	Min. 2-inch Derbiboard, Derbiboard CA, Derbiboard h, SOPRA-ISO+r or Multi-Max FA3	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Additional optional layer(s), min. 1.5-inch base insulation followed by min. 0.25-inch SOPRABOARD, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board. Top surface shall be primed with Derbibase SA Primer.	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-82.5
S-12.	22 ga., Type B, Grade 50 steel	Min. 2-inch Derbiboard, Derbiboard CA, Derbiboard h, SOPRA-ISO+r, Multi-Max FA3 or SOPRA-ISO+x	DUOTACK 365 or DUOTACK SPF, ribbons 6" o.c. (on each deck flange)	Min. 0.25-in. DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch DEXcell Cement Roof Board. Top surface shall be primed with Derbibase SA Primer.	DUOTACK 365 or DUOTACK SPF, ribbons 6" o.c.	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-120.0
S-13.	22 ga., Type B, Grade 50 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board. Top surface shall be primed with Derbibase SA Primer	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	None	N/A	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-127.5

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

Sys. No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Fastener (Note 11)	Attach (Note 17)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY:										
S-14.	22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Derbiboard, ISO 95+GL or ENRGY 3	Perlok Fastener with Perlok Steel Plate, Perlok-O Screw with Perlok-O 3" Steel Plate or Perlok AccuTrac Flat Bottom Metal Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	Min. 1.5-inch Derbiboard, Derbiboard CA, ISO 95+GL or ENRGY 3 or min. 0.25-inch DensDeck	INSTA-STIK	CA	None	CA	-45.0*
S-15.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Derbiboard	Note 2	1 per 2.0 ft ²	Min. 1.4-inch Derbiboard	DUOTACK	CA	(Optional) CA or APP-TA	CA or APP-TA	-30.0*
S-16.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Derbiboard	Note 2	1 per 2.0 ft ²	Min. 0.5-inch Structodek HD Fiberboard	DUOTACK	CA	(Optional) CA or APP-TA	CA or APP-TA	-45.0*

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

Sys. No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Fastener (Note 11)	Attach (Note 17)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
S-17.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.5-inch Derbiboard or Derbiboard h	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	Min. 0.25-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	CA	(Optional) CA or APP-TA	CA or APP-TA	-45.0*
S-18.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	Min. 1-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r; followed by min. 0.25-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	CA	(Optional) CA or APP-TA	CA or APP-TA	-45.0*
S-19.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch Derbiboard, Derbiboard h or SOPRA-ISO+ r	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	Min. 0.25-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	CA	(Optional) CA or APP-TA	CA or APP-TA	-45.0*
S-20.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch Derbiboard, Derbiboard h or SOPRA-ISO+ r	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 1.6 ft ²	Min. 0.25-inch DensDeck Prime or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	CA	(Optional) CA or APP-TA	CA or APP-TA	-67.5
S-21.	22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Derbiboard, ISO 95+GL or ENRGY 3	Perlok-O Screw with Perlok-O 3" Steel Plate	1 per 2.0 ft ²	Min. 1.5-inch Derbiboard, Derbiboard CA, ISO 95+GL or ENRGY 3	OB500	CA	None	CA	-45.0*
S-22.	22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch Derbiboard, ISO 95+GL or ENRGY 3	Perlok-O Screw with Perlok-O 3" Steel Plate	1 per 4.0 ft ²	Min. 1.5-inch Derbiboard, Derbiboard CA, ISO 95+GL or ENRGY 3	OB500	CA	None	CA	-45.0*
S-23.	22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 5/8-inch DensDeck or DEXcell FA Glass Mat Roof Board	#12 or #14 Perlok Fastener with Perlok Steel Plate, Perlok-O #12 or #14 Screw with Perlok-O 3" Steel Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	One or more layers min. 1.5-inch Derbiboard or Derbiboard CA followed by optional Min. 0.5-inch DensDeck, DEXcell FA Glass Mat Roof Board or Structodek HD with Primed Red Coating or 7/16-inch DEXcell Cement Roof Board	OB500	CA	(Optional) CA	CA	-45.0*
S-24.	22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Derbiboard, ISO 95+GL or ENRGY 3	Perlok Fastener with Perlok Steel Plate, Perlok-O Screw with Perlok-O 3" Steel Plate or Perlok AccuTrac Flat Bottom Metal Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	Min. 1.5-inch Derbiboard, Derbiboard CA, ISO 95+GL or ENRGY 3 (flat or tapered) or min. 0.5-inch DensDeck	DUOTACK SPF HFO	CA	None	CA	-45.0*

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

Sys. No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Fastener (Note 11)	Attach (Note 17)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
ASPHALT- OR TORCH-APPLIED BASE PLY:										
S-25.	22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch Derbiboard, ISO 95+GL or ENRGY 3	Perlok Fastener with Perlok Steel Plate, Perlok-O Screw with Perlok-O 3" Steel Plate or Perlok AccuTrac Flat Bottom Metal Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	1 per 1.45 ft ²	Min. 0.5-inch Structodek HD with Primed Red Coating or JM Retro-Fit Board or min. ¼-inch JM Fesco Board	Asphalt applied	AA	(Optional) AA or APP-TA	APP-TA	-60.0
S-26.	22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch Derbiboard	Perlok Fastener with Perlok Steel Plate, Perlok-O Screw with Perlok-O 3" Steel Plate	1 per 2.0 ft ²	Min. 3/8-inch DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board	Asphalt applied	AA or APP-TA	(Optional) AA or APP-TA	APP-TA	-60.0
S-27.	22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch Derbiboard	Perlok Fastener with Perlok Steel Plate, Perlok-O Screw with Perlok-O 3" Steel Plate	1 per 2.0 ft ²	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	AA or TA	(Optional) AA or TA	TA	-60.0
S-28.	22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch Derbiboard	Perlok Fastener with Perlok Steel Plate, Perlok-O Screw with Perlok-O 3" Steel Plate	1 per 2.0 ft ²	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	INSTA-STIK	AA or APP-TA	(Optional) AA or APP-TA	APP-TA	-60.0
S-29.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Derbiboard or Derbiboard h	Note 2	1 per 2.0 ft ²	Min. 0.5-inch Structodek HD Fiberboard	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-45.0*
S-30.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.5-inch Derbiboard, Derbiboard h or SOPRA-ISO+ r	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-45.0*
S-31.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	Min. 1-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r; followed by Min. 0.25-inch DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-45.0*
S-32.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch Derbiboard, Derbiboard h or SOPRA-ISO+ r	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-45.0*

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

Sys. No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Fastener (Note 11)	Attach (Note 17)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
S-33.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch Derbiboard	Note 2	1 per 2.0 ft ²	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK	AA or APP-TA	(Optional) AA or APP-TA	APP-TA	-60.0
S-34.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch Derbiboard, Derbiboard h or SOPRA-ISO+ r	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 1.6 ft ²	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	AA or APP-TA	(Optional) AA or APP-TA	APP-TA	-60.0
S-35.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch Derbiboard, Derbiboard h or SOPRA-ISO+ r	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 1.6 ft ²	Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board	DUOTACK	AA or APP-TA	(Optional) AA or APP-TA	APP-TA	-75.0
S-36.	22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch Derbiboard	Perlok Fastener with Perlok Steel Plate, Perlok-O Screw with Perlok-O 3" Steel Plate	1 per 2.0 ft ²	Min. 3/8-inch DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	OB500	AA or APP-TA	(Optional) AA or APP-TA	APP-TA	-60.0
S-37.	22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch Derbiboard	Perlok Fastener with Perlok Steel Plate, Perlok-O Screw with Perlok-O 3" Steel Plate	1 per 2.0 ft ²	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	AA or APP-TA	(Optional) AA or APP-TA	APP-TA	-60.0
TORCH-APPLIED BASE PLY:										
S-38.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Derbiboard or Derbiboard h	Note 2	1 per 2.0 ft ²	Min. 0.125-inch SOPRABOARD	Asphalt applied	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
S-39.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch Derbiboard or Derbiboard h	Note 2	1 per 4.0 ft ²	Min. 0.125-inch SOPRABOARD	Asphalt applied	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
S-40.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.5-inch Derbiboard, Derbiboard h, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 2.0 ft ²	Min. 0.125-inch SOPRABOARD	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
S-41.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 4.0 ft ²	Min. 1-inch Derbiboard, Derbiboard CA, Derbiboard h, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max; followed by min. 0.125-inch SOPRABOARD	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-45.0*

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

Sys. No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Fastener (Note 11)	Attach (Note 17)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
S-42.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch Derbiboard, Derbiboard h, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 4.0 ft ²	Min. 0.125-inch SOPRABOARD	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
S-43.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	Dekfast DF-#15-PH3 with Dekfast PLT-3-R	1 per 1.8 ft ²	Additional layer(s) base insulation followed by min. 0.125-inch SOPRABOARD	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-52.5
S-44.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch Derbiboard, Derbiboard h, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 1.6 ft ²	Min. 0.25-inch SOPRABOARD	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-82.5
S-45.	Min. 22 ga., type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board, mechanically attached, and followed by vapor barrier of SBS-TAF (sand-surfaced)	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	INSULATION: Min. 2-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r followed by COVERBOARD: min. 0.125-inch SOPRABOARD.	DUOTACK 365	APP-TA	(Optional) APP-TA	APP-TA	-82.5
SELF-ADHERING BASE PLY:										
S-46.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.5-inch Derbiboard, Derbiboard h, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 2.0 ft ²	Min. 0.125-inch SOPRABOARD or Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board. Top surface shall be primed with Derbibase SA Primer.	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-45.0*
S-47.	Min. 22 ga., type B, Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 4.0 ft ²	Min. 1-inch Derbiboard, Derbiboard CA, Derbiboard h, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max; followed by Min. 0.125-inch SOPRABOARD or Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board. Top surface shall be primed with Derbibase SA Primer.	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-45.0*
S-48.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch Derbiboard, Derbiboard, h, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 4.0 ft ²	Min. 0.125-inch SOPRABOARD or Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board. Top surface shall be primed with Derbibase SA Primer.	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-45.0*

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

Sys. No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Fastener (Note 11)	Attach (Note 17)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
S-49.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 1.8 ft ²	Min. 0.125-inch SOPRABOARD. Top surface shall be primed with Derbibase SA Primer.	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-52.5
S-50.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch Derbiboard, Derbiboard, h, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 1.6 ft ²	Min. 0.25-inch SOPRABOARD, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board. Top surface shall be primed with Derbibase SA Primer.	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-82.5
S-51.	Min. 22 ga., type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board, mechanically attached, and followed by vapor barrier of SBS-TAF (sand-surfaced)	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	INSULATION: Min. 2-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r followed by COVERBOARD: min. 0.125-inch SOPRABOARD. Top surface shall be primed with Derbibase SA Primer.	DUOTACK 365	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-82.5

TABLE 2c: STEEL DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Thermal Barrier			Vapor Barrier	Insulation Layer(s)		Roof Cover (Note 15)			MDP (psf)
		Type	Fastener (Note 11)	Attach (Note 17)		Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
COLD APPLIED BASE PLY:											
S-52.	22 ga., type B, Grade 40 steel	Min. 0.625-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	#14 Perlok Fastener with Perlok Steel Plate	1 per 4.0 ft ²	Bitutak Cold, SELECT APP POLY SANDED, Derbigum P, Bitutak MB, SELECT APP POLY SP or PrimeSource Grip-Rite APP 160S, torch-applied	Insulation: (Optional) One or more layers, min. 1.5-inch Derbiboard Coverboard: Min. 2-inch Rockwool MULTIFIX	M-OSFA	CA	(Optional) CA or TA	CA or TA	-45.0*
S-53.	22 ga., type B, Grade 33 steel	Min. 5/8-inch DensDeck or DEXcell FA Glass Mat Roof Board	#12 or #14 Perlok Fastener with Perlok Steel Plate, Perlok-O #12 or #14 Screw with Perlok-O 3" Steel Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	Derbibase or Derbibase Ultra in Permastic at 1.5 to 2.0 gal/sq.	Insulation: One or more layers min. 1.5-inch Derbiboard or Derbiboard CA Coverboard: (Optional) Min. 0.5-inch DensDeck or Structodek HD with Primed Red Coating	INSTA-STIK	CA	(Optional) CA	CA	-45.0*
S-54.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch DensDeck, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board. Top surface shall be primed with Derbibase SA Primer	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	Derbistick SA, Derbibase SA, Derbibase SA Ultra	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	CA	(Optional) CA or APP-TA	CA or APP-TA	-45.0*
S-55.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface shall be primed with Derbibase SA Primer	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	Derbistick SA, Derbibase SA, Derbibase SA Ultra	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r followed by Min. 0.25-inch DensDeck Prime	DUOTACK	CA	(Optional) CA or APP-TA	CA or APP-TA	-67.5
S-56.	22 ga., type B, Grade 33 steel	Min. 5/8-inch DensDeck or DEXcell FA Glass Mat Roof Board	#12 or #14 Perlok Fastener with Perlok Steel Plate, Perlok-O #12 or #14 Screw with Perlok-O 3" Steel Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	Derbibase or Derbibase Ultra in Permastic at 1.5 to 2.0 gal/sq.	Insulation: One or more layers min. 1.5-inch Derbiboard or Derbiboard CA Coverboard: (Optional) Min. 0.5-inch DensDeck, DEXcell FA Glass Mat Roof Board or Structodek HD with Primed Red Coating or 7/16-inch DEXcell Cement Roof Board	OB500	CA	(Optional) CA	CA	-45.0*

TABLE 2c: STEEL DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Thermal Barrier			Vapor Barrier	Insulation Layer(s)		Roof Cover (Note 15)			MDP (psf)
		Type	Fastener (Note 11)	Attach (Note 17)		Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
ASPHALT- OR TORCH-APPLIED BASE PLY:											
S-57.	22 ga., type B, Grade 40 steel	Min. 0.625-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	#14 Perlok Fastener with Perlok Steel Plate	1 per 4.0 ft ²	Bitutak Cold, SELECT APP POLY SANDED, Derbigum P, Bitutak MB, SELECT APP POLY SP or PrimeSource Grip-Rite APP 160S, torch-applied	One or more layers, min. 1.5-inch Derbiboard followed by min. 2-inch Rockwool MULTIFIX	M-OSFA	TA	(Optional) CA or TA	CA or TA	-45.0*
S-58.	22 ga., type B, Grade 40 steel	Min. 0.625-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	#14 Perlok Fastener with Perlok Steel Plate	1 per 4.0 ft ²	Bitutak Cold, SELECT APP POLY SANDED, Derbigum P, Bitutak MB, SELECT APP POLY SP or PrimeSource Grip-Rite APP 160S, torch-applied	Min. 2-inch Rockwool MULTIFIX	M-OSFA	TA	(Optional) CA or TA	CA or TA	-45.0*
S-59.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch DensDeck, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board. Top surface shall be primed with Deribase SA Primer	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 4.0 ft ²	Derbistick SA, Deribase SA, Deribase SA Ultra	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r followed by Min. 0.25-inch DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	AA or APP-TA	(Optional) AA or APP-TA	APP-TA	-45.0*
S-60.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch DensDeck, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board. Top surface shall be primed with Deribase SA Primer	Perlok #14 HD with Perlok 3-inch Metal Plate	1 per 2.0 ft ²	Derbistick SA, Deribase SA, Deribase SA Ultra	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r followed by Min. 0.25-inch DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	AA or APP-TA	(Optional) AA or APP-TA	APP-TA	-60.0
TORCH-APPLIED BASE PLY:											
S-61.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface shall be primed with Deribase SA Primer.	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 4.0 ft ²	Derbistick SA, Deribase SA, Deribase SA Ultra	Min. 1.5-inch Derbiboard, Derbiboard CA, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, Derbiboard h, SOPRA-ISO+ r or Multi-Max FA3 followed by Min. 0.125-inch SOPRABOARD	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
S-62.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface shall be primed with Deribase SA Primer.	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 2.0 ft ²	Derbistick SA, Deribase SA, Deribase SA Ultra	Min. 1.5-inch Derbiboard, Derbiboard CA, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, Derbiboard h, SOPRA-ISO+ r or Multi-Max FA3 followed by Min. 0.25-inch SOPRABOARD	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-82.5

TABLE 2c: STEEL DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Thermal Barrier			Vapor Barrier	Insulation Layer(s)		Roof Cover (Note 15)			MDP (psf)
		Type	Fastener (Note 11)	Attach (Note 17)		Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
SELF-ADHERING BASE PLY:											
S-63.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface shall be primed with Derbibase SA Primer.	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 4.0 ft ²	Derbistick SA, Derbibase SA, Derbibase SA Ultra	Min. 1.5-inch Derbiboard, Derbiboard CA, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, Derbiboard h, SOPRA-ISO+ r or Multi-Max FA3 followed by Min. 0.125-inch SOPRABOARD or Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board. Top surface shall be primed with Derbibase SA Primer.	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-45.0*
S-64.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.25-inch DEXcell FA Glass Mat Roof Board. Top surface shall be primed with Derbibase SA Primer.	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 4.0 ft ²	Derbistick SA, Derbibase SA, Derbibase SA Ultra	Min. 1.5-inch Derbiboard h followed by min. 0.25-inch DEXcell FA Glass Mat Roof Board. Top surface shall be primed with Derbibase SA Primer.	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-45.0*
S-65.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board. Top surface shall be primed with Derbibase SA Primer.	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 2.0 ft ²	Derbistick SA, Derbibase SA, Derbibase SA Ultra	Min. 1.5-inch Derbiboard, Derbiboard h, Multi-Max FA3 or Ultra-Max followed by min. 0.25-inch DEXcell FA Glass Mat Roof Board. Top surface shall be primed with Derbibase SA Primer.	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-75.0
S-66.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface shall be primed with Derbibase SA Primer.	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 2.0 ft ²	Derbistick SA, Derbibase SA, Derbibase SA Ultra	Min. 1.5-inch Derbiboard, Derbiboard CA, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, Derbiboard h, SOPRA-ISO+ r or Multi-Max FA3 followed by Min. 0.25-inch SOPRABOARD, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board. Top surface shall be primed with Derbibase SA Primer	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-82.5

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

System No.	Deck (Note 1)	Base Insulation Layer (Note 3, Note 13)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fastener (Note 11)	Attach (Note 17)	Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY:									
S-67.	22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. ¼-inch Fesco Board	#14 Perlok with Perlok Steel Plate	1 per 2.0 ft ²	CA	None	CA	-30.0*
S-68.	22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. ¼-inch Fesco Board	#14 Perlok with Perlok Steel Plate	1 per 1.6 ft ²	CA	None	CA	-45.0*
S-69.	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 Derbiboard or Derbiboard CA	#14 Perlok with Perlok Steel Plate	1 per 2.7 ft ²	CA	None	CA	-45.0*
S-70.	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 DensDeck or DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	Perlok-O #12 or #14 Screw with Perlok-O 3" Ribbed Plate or with Perlok-O 3" Steel Plate	1 per 1.8 ft ²	CA	None	CA	-45.0*
S-71.	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 DensDeck Prime or 7/16-inch DEXcell Cement Roof Board	Perlok-O #12 or #14 Screw with Perlok-O 3" Ribbed Plate or with Perlok-O 3" Steel Plate	1 per 1.6 ft ²	CA	None	CA	-67.5
ASPHALT-APPLIED BASE PLY:									
S-72.	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 Derbiboard Composite, ISO 95+ GL Composite, JM Fesco Foam or JM ENRGY 3 Plus	Perlok Fastener with Perlok Steel Plate, Perlok-O Screw with Perlok-O 3" Steel Plate or Perlok AccuTrac Flat Bottom Metal Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	1 per 1.45 ft ²	AA	(Optional) AA or APP-TA	APP-TA	-67.5
S-73.	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 SECUROCK Gypsum-Fiber Roof Board or DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	Perlok Fastener with Perlok Steel Plate, Perlok-O Screw with Perlok-O 3" Steel Plate	1 per 4.0 ft ²	AA	(Optional) AA or APP-TA	APP-TA	-45.0*
S-74.	22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	Perlok-O Screw with Perlok-O 3" Steel Plate	1 per 1.6 ft ²	AA	(Optional) AA or APP-TA	APP-TA	-67.5
S-75.	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 SECUROCK Gypsum-Fiber Roof Board	Perlok Fastener with Perlok Steel Plate, Perlok-O Screw with Perlok-O 3" Steel Plate	1 per 1.8 ft ²	AA	(Optional) AA or APP-TA	APP-TA	-75.0
TORCH-APPLIED BASE PLY:									
S-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. 0.125-inch SOPRABOARD	Note 2	1 per 4.0 ft ²	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
S-77.	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 SECUROCK Gypsum-Fiber Roof Board	Perlok Fastener with Perlok Steel Plate, Perlok-O Screw with Perlok-O 3" Steel Plate	1 per 4.0 ft ²	APP-TA	(Optional) AA or APP-TA	APP-TA	-45.0*

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

System No.	Deck (Note 1)	Base Insulation Layer (Note 3, Note 13)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fastener (Note 11)	Attach (Note 17)	Base Ply	Ply	Cap Ply	
S-78.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD	Note 2	1 per 2.0 ft ²	APP-TA	(Optional) APP-TA	APP-TA	-60.0
S-79.	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 SECUROCK Gypsum-Fiber Roof Board	Perlok Fastener with Perlok Steel Plate, Perlok-O Screw with Perlok-O 3" Steel Plate	1 per 1.8 ft ²	APP-TA	(Optional) AA or APP-TA	APP-TA	-75.0
S-80.	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	One or more layers, min. 2-inch, any combination, loose laid	Min. 0.25-inch SOPRABOARD	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 1.0 ft ²	APP-TA	(Optional) APP-TA	APP-TA	-120.0
SELF-ADHERING BASE PLY:									
S-81.	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 3.2 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-30.0*
S-82.	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 DensDeck primed with Derbibase SA Primer or DensDeck Prime	Note 2	1 per 2.6 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-30.0*
S-83.	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. 0.125-inch SOPRABOARD. Top surface shall be primed with Derbibase SA Primer.	Note 2	1 per 2.3 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-37.5*
S-84.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board. Top surface shall be primed with Derbibase SA Primer.	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 4.0 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-37.5*
S-85.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface shall be primed with Derbibase SA Primer.	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 4.0 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-45.0*
S-86.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board. Top surface primed with Derbibase SA Primer.	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 4.0 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-45.0*
S-87.	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 0.375-inch SECUROCK Gypsum-Fiber Roof Board. Top surface shall be primed with Derbibase SA Primer.	Note 2	1 per 2.7 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-45.0*
S-88.	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 Derbiboard CA, SOPRA-ISO+ or Ultra-Max	Note 2	1 per 2.0 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-45.0*

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

System No.	Deck (Note 1)	Base Insulation Layer (Note 3, Note 13)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fastener (Note 11)	Attach (Note 17)	Base Ply	Ply	Cap Ply	
S-89.	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 Derbiboard or Derbiboard h. Top surface shall be mist-primed with Derbibase SA Primer.	Note 2	1 per 2.0 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-45.0*
S-90.	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 DensDeck primed with Derbibase SA Primer or DensDeck Prime	Note 2	1 per 2.0 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-45.0*
S-91.	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. 0.125-inch SOPRABOARD. Top surface shall be primed with Derbibase SA Primer.	Note 2	1 per 2.0 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-45.0*
S-92.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board. Top surface shall be primed with Derbibase SA Primer.	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 1.8 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-45.0
S-93.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.25-inch DensDeck Prime	Perlok #14 HD with Perlok 3-inch Metal Plate or #14 Perlok Fastener with Perlok Steel Plate	1 per 1.8 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-52.5
S-94.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.4-inch, any combination, loose laid	Min. 0.25-inch DensDeck primed with Derbibase SA Primer or DensDeck Prime	Perlok-O #14 Screw with Perlok AccuTrac Flat Bottom Plate	1 per 1.8 ft ²	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-60.0

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

System No.	Deck (Note 1)	Insulation Layer (Note 3, Note 13)		Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Attach	Type	Fastener (Note 11)	Attach	Base Ply	Cap Ply	
COLD-APPLIED:									
S-95.	22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Any type, thickness or combination	Prelim Attach	Derbibase or Derbigum GP	Perlok Fastener with Perlok Steel Plate	12-inch o.c. at the 3-inch laps and 18-inch o.c. at two (2) equally spaced, staggered center rows	None	CA	-37.5*
S-96.	22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Any type, thickness or combination	Prelim Attach	Derbibase, Derbigum GP, Derbibase Ultra or PRS Glass Ply VI	Perlok-O Screw with Perlok-O 3" Steel Plate	12-inch o.c. at the 3-inch laps and 18-inch o.c. at two (2) equally spaced, staggered center rows	None	CA	-37.5*
S-97.	22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Any type, thickness or combination	Prelim Attach	Derbibase Ultra or Derbigum GP	Perlok-O #12 Screw with Perlok AccuTrac Flat Bottom Plate	12-inch o.c. at the 3-inch laps and 18-inch o.c. at two (2) equally spaced, staggered center rows	None	CA	-37.5*
S-98.	22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Any type, thickness or combination	Prelim Attach	Derbigum GP	Perlok Fastener with Perlok Steel Plate, Perlok-O Screw with Perlok-O 3" Steel Plate or Perlok-O #12 Screw with Perlok AccuTrac Flat Bottom Plate	6-inch o.c. at the 6-inch wide, heat-welded side laps	None	CA	-45.0
TORCH-APPLIED:									
S-99.	22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Any type, thickness or combination	Prelim Attach	PRS Glass Base, Derbibase, PRS Glass Ply VI, GAFLAS #75 or PermaPly No. 28	Perlok-O Screw with Perlok-O 3" Steel Plate or Perlok #12 DP or #14 HD with Perlok 3-inch Metal Plate	12-inch o.c. at the 4-inch laps and 18-inch o.c. at two, equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-45.0*
S-100.	22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Any type, thickness or combination	Prelim Attach	Derbigum GP	Perlok Fastener with Perlok Steel Plate, Perlok-O Screw with Perlok-O 3" Steel Plate	6-inch o.c. at the 6-inch wide, heat-welded side laps	(Optional) APP-TA	APP-TA	-45.0
S-101.	22 ga., type B, Grade 80 steel	Min. 0.5-inch ASTM C1289 polyisocyanurate followed by optional min. 0.25-inch DensDeck, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board	Loose-laid	Derbibase HV, with 3-inch heat-welded side laps prior to attach	Perlok #15 EHD with Perlok 3-inch Metal Plate	12-inch o.c. at the 3-inch laps and 12-inch o.c. at two (2), equally spaced, staggered center rows	Derbibase Ultra, torch-applied	Derbicolor P-FR, Derbicolor P-FR CR, heat-welded	-135.0
S-102.	22 ga., type B, Grade 80 steel	Min. 0.5-inch ASTM C1289 polyisocyanurate followed by optional min. 0.25-inch DensDeck, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board	Loose-laid	Derbibase HV, with 3-inch heat-welded side laps prior to attach	Perlok #15 EHD with Perlok 3-inch Metal Plate	12-inch o.c. at the 3-inch laps and 12-inch o.c. at two (2), equally spaced, staggered center rows	Derbibase Ultra, torch-applied	APP-TA (no Derbicolor P-FR, Derbicolor P-FR CR)	-172.5

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

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY:										
C-1.	Structural concrete	ASTM D41	Min. 1.5-inch Derbiboard	Asphalt applied	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Asphalt applied	Derbibase in Permastic	None	CA or APP-TA	-105.0
C-2.	Structural concrete	ASTM D41	Min. 1.5-inch Derbiboard	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	Derbibase in Permastic	None	CA or TA	-105.0
C-3.	Structural concrete	None	(Optional) Min. 1.5-inch Derbiboard or Derbiboard CA	M-OSFA	Min. 1.5-inch Derbiboard or Derbiboard CA	M-OSFA	CA	None	CA	-135.0
C-4.	Structural concrete	ASTM D41	Min. 1.5-inch Derbiboard	INSTA-STIK	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	INSTA-STIK	Derbibase in Permastic	None	CA or APP-TA	-105.0
C-5.	Structural concrete	(Optional) ASTM D41	(Optional) Min. 1.5-inch Derbiboard	INSTA-STIK	Min. 1.5-inch Derbiboard	INSTA-STIK	CA	None	CA	-112.5
C-6.	Structural Concrete	None	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	CA	None	CA	-67.5
C-7.	Structural Concrete	None	(Optional) Min. 1.5-inch, min. 1.25 pcf, Insulfoam, Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK	CA	None	CA	-105.0
C-8.	Structural Concrete	None	Min. 1.5-inch Derbiboard or Derbiboard CA	DUOTACK	(Optional) Additional layer(s) base insulation	DUOTACK	CA	None	CA	-135.0
C-9.	Structural concrete	None	Min. 2-inch Derbiboard, Derbiboard CA or SOPRA-ISO+ r	OB500	Min. 0.5-inch H-Shield HD, min. 0.25-inch DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	OB500	CA	None	CA	-67.5*
C-10.	Structural concrete	None	(Optional) Min. 2-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+ r	OB500	Min. 2.0-inch H-Shield HD Composite CG	OB500	CA	None	CA	-75.0*
C-11.	Structural concrete	ASTM D41	Min. 1.5-inch Derbiboard	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	Derbibase in Permastic	None	CA or APP-TA	-105.0
C-12.	Structural concrete	(Optional) ASTM D41	(Optional) Min. 1.5-inch Derbiboard	OB500	Min. 1.5-inch Derbiboard	OB500	CA	None	CA	-120.0
C-13.	Structural concrete	None	(Optional) Min. 1.5-inch Derbiboard or Derbiboard CA	Permastic	Min. ¾-inch Fesco Board	Permastic	CA	None	CA	-45.0
C-14.	Structural concrete	None	(Optional) Min. 1.5-inch Derbiboard or Derbiboard CA	Permastic	Min. 1.5-inch Derbiboard or Derbiboard CA	Permastic	CA	None	CA	-52.5

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

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
C-15.	Structural concrete	ASTM D41	Min. 1.5-inch Derbiboard	PermaStic	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	PermaStic	Derbibase in PermaStic	None	CA or APP-TA	-105.0
C-16.	Structural concrete	ASTM D41	Min. 1.5-inch Derbiboard	DUOTACK SPF HFO	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	Derbibase in PermaStic	None	CA or APP-TA	-105.0
C-17.	Structural concrete	None	(Optional) Min. 1.5-inch Derbiboard or Derbiboard CA	DUOTACK SPF HFO	Min. 1.5-inch Derbiboard or Derbiboard CA	DUOTACK SPF HFO	CA	None	CA	-120.0
ASPHALT-APPLIED BASE PLY:										
C-18.	Structural concrete	ASTM D41	(Optional) Min. 1.5-inch Derbiboard	Asphalt applied	Min. 1.5-inch Derbiboard Composite	Asphalt applied	AA	(Optional) AA or APP-TA	APP-TA	-150.0
C-19.	Structural concrete	ASTM D41	(Optional) Min. 1.5-inch Derbiboard	Asphalt applied	Min. 0.5-inch Structodek HD with Primed Red Coating or JM Retro-Fit Board	Asphalt applied	AA	(Optional) AA or APP-TA	APP-TA	-150.0
C-20.	Structural concrete	ASTM D41	(Optional) Min. 1.5-inch Derbiboard	Asphalt applied	Min. ¾-inch JM FescoBoard	Asphalt applied	AA	(Optional) AA or APP-TA	APP-TA	-150.0
C-21.	Structural concrete	ASTM D41	(Optional) Min. 1.5-inch ISO 95+ GL or ENRGY 3	Asphalt applied	Min. ¾-inch JM FescoBoard or min. 0.5-inch JM Retro-Fit Board	Asphalt applied	AA	(Optional) AA or APP-TA	APP-TA	-180.0
C-22.	Structural concrete	ASTM D41	(Optional) Min. 1.5-inch ISO 95+ GL or ENRGY 3	Asphalt applied	Min. 0.5-inch Structodek HD with Primed Red Coating	Asphalt applied	AA	(Optional) AA or APP-TA	APP-TA	-210.0
C-23.	Structural concrete	ASTM D41	Min. 2.0-inch Derbiboard	Asphalt applied	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Asphalt applied	AA	(Optional) AA or APP-TA	APP-TA	-225.0
C-24.	Structural concrete	ASTM D41	(Optional) Min. 1.5-inch ENRGY 3	Asphalt applied	Min. 1.5-inch ENRGY 3 Plus	Asphalt applied	AA	(Optional) AA or APP-TA	APP-TA	-262.5
C-25.	Structural concrete	None	(Optional) Min. 1.5-inch Derbiboard or Derbiboard CA	M-OSFA	Min. 0.5-inch Structodek HD with Primed Red Coating	M-OSFA	AA	(Optional) AA or TA	TA	-127.5
C-26.	Structural concrete	None	Min. 2.0-inch Derbiboard	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	AA	(Optional) AA or TA	TA	-225.0

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

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
C-27.	Structural concrete	(Optional) ASTM D41	(Optional) Min. 1.5-inch Derbiboard	INSTA-STIK	Min. 0.5-inch Structodek HD with Primed Red Coating, min. ¼-inch JM FescoBoard or min. 0.25-inch DensDeck	INSTA-STIK	AA	(Optional) AA or APP-TA	APP-TA	-112.5
C-28.	Structural concrete	None	Min. 2.0-inch Derbiboard	INSTA-STIK	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	INSTA-STIK	AA	(Optional) AA or APP-TA	APP-TA	-225.0
C-29.	Structural Concrete	None	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-120.0
C-30.	Structural Concrete	None	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DensDeck or DensDeck Prime	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-150.0
C-31.	Structural Concrete	None	Min. 1.5-inch, min. 1.25 pcf, Insulfoam	DUOTACK	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-152.5
C-32.	Structural Concrete	None	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-225.0
C-33.	Structural concrete	(Optional) ASTM D41	(Optional) Min. 1.5-inch Derbiboard	OB500	Min. 0.5-inch Structodek HD with Primed Red Coating or min. 0.25-inch DensDeck or DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	OB500	AA	(Optional) AA or APP-TA	APP-TA	-150.0
C-34.	Structural concrete	None	Min. 2.0-inch Derbiboard	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	OB500	AA	(Optional) AA or APP-TA	APP-TA	-225.0
C-35.	Structural concrete	None	(Optional) Min. 1.5-inch Derbiboard or Derbiboard CA	DUOTACK SPF HFO	Min. 0.5-inch Structodek HD with Primed Red Coating or min. 0.25-inch DensDeck	DUOTACK SPF HFO	AA	(Optional) AA or APP-TA	APP-TA	-150.0
C-36.	Structural concrete	None	Min. 2.0-inch Derbiboard	DUOTACK SPF HFO	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	AA	(Optional) AA or APP-TA	APP-TA	-225.0

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

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
TORCH-APPLIED BASE PLY:										
C-37.	Structural concrete	ASTM D41	Min. 2.0-inch Derbiboard	Asphalt applied	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Asphalt applied	APP-TA	(Optional) APP-TA	APP-TA	-232.5
C-38.	Structural Concrete	D41	Min. 1.5-inch Derbiboard, ENRGY 3, Derbiboard h or Multi-Max FA3	Asphalt applied	Min. 0.125-inch SOPRABOARD	Asphalt applied	APP-TA	(Optional) APP-TA	APP-TA	-365.0
C-39.	Structural Concrete	None	Min. 1.5-inch Derbiboard, ENRGY 3, EnergyGuard POLYISO INSULATION, Derbiboard h or Multi-Max FA3	M-OSFA, 6-inch o.c.	Min. 0.125-inch SOPRABOARD	M-OSFA, 6-inch o.c.	TA	(Optional) TA	TA	-215.0
C-40.	Structural concrete	None	Min. 2.0-inch Derbiboard	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	TA	(Optional) TA	TA	-232.5
C-41.	Structural concrete	None	Min. 2.0-inch Derbiboard	INSTA-STIK	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	INSTA-STIK	APP-TA	(Optional) APP-TA	APP-TA	-232.5
C-42.	Structural Concrete	None	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DensDeck Prime	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-160.0
C-43.	Structural Concrete	None	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-232.5
C-44.	Structural Concrete	None	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, Derbiboard h, SOPRA-ISO+r, SOPRA-ISOx or SOPRA-ISO+x	DUOTACK	Min. 0.125-inch SOPRABOARD	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-382.5
C-45.	Structural concrete	None	Min. 1" Derbiboard, Derbiboard CA, ENRGY 3 or ISO 95+GL	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or 0.5" DuraBoard	OB500	Derbibase, Derbibase Ultra, Derbibase HV or Bitutak Cold, SELECT APP POLY SANDED, Derbigum P, Bitutak MB, SELECT APP POLY SP, Grip-Rite APP 160S, torch-applied	(Optional) APP-TA	APP-TA	-130.0
C-46.	Structural concrete	None	Min. 1" Derbiboard, Derbiboard CA, ENRGY 3 or ISO 95+GL	OB500	Min. 0.25-inch DensDeck Prime	OB500	APP-TA	(Optional) APP-TA	APP-TA	-160.0

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

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
C-47.	Structural concrete	None	Min. 1" Derbiboard, Derbiboard CA, ENRGY 3 or ISO 95+GL	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or 0.5" DuraBoard	OB500	Derbigum GP or Derbigum XPS, torch-applied	(Optional) APP-TA	APP-TA	-160.0
C-48.	Structural concrete	None	Min. 2.0-inch Derbiboard	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	APP-TA	(Optional) APP-TA	APP-TA	-232.5
C-49.	Structural Concrete	None	Min. 1.5-inch Derbiboard, ENRGY 3, Derbiboard h or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.125-inch SOPRABOARD	DUOTACK SPF HFO	APP-TA	(Optional) APP-TA	APP-TA	-157.5
C-50.	Structural concrete	None	Min. 2.0-inch Derbiboard	DUOTACK SPF HFO	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	APP-TA	(Optional) APP-TA	APP-TA	-232.5
SELF-ADHERING BASE PLY:										
C-51.	Structural Concrete	D41	Min. 1.5-inch Derbiboard, Derbiboard h, ENRGY 3 or Multi-Max FA3	Asphalt applied	(Optional) Additional layers of base insulation	Asphalt applied	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-155.0
C-52.	Structural Concrete	D41	One or more layers min. 1.5-inch Derbiboard, Derbiboard h, ENRGY 3 or Multi-Max FA3	Asphalt applied	Min. 0.125-inch SOPRABOARD	Asphalt applied	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-155.0
C-53.	Structural Concrete	D41	Min. 2-inch Derbiboard, Derbiboard h, ENRGY 3 or Multi-Max FA3	Asphalt applied	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Asphalt applied	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-172.5
C-54.	Structural Concrete	None	Min. 1.5-inch, min. 1.25 pcf, Insulfoam	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-152.5
C-55.	Structural Concrete	None	One or more layers min. 1.5-inch, min. 1.25 pcf, Insulfoam	M-OSFA	Min. 0.125-inch SOPRABOARD	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-152.5
C-56.	Structural Concrete	None	Min. 1.5-inch Derbiboard, Derbiboard h, ENRGY 3 or Multi-Max FA3	M-OSFA	(Optional) Additional layers of base insulation	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-155.0
C-57.	Structural Concrete	None	Min. 1.5-inch Derbiboard, Derbiboard h, ENRGY 3, EnergyGuard POLYISO INSULATION or Multi-Max FA3	M-OSFA	Min. 0.125-inch SOPRABOARD	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-155.0
C-58.	Structural Concrete	None	Min. 2-inch Derbiboard, Derbiboard h, ENRGY 3, EnergyGuard POLYISO INSULATION or Multi-Max FA3	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-172.5
C-59.	Structural Concrete	None	Min. 1.5-inch, min. 1.25 pcf, Insulfoam	M-OSFA at 6-inch o.c.	Min. 0.125-inch SOPRABOARD	M-OSFA at 6-inch o.c.	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-215.0
C-60.	Structural Concrete	None	Min. 1.5-inch, min. 1.25 pcf, Insulfoam	M-OSFA at 6-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA at 6-inch o.c.	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-215.0

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

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
C-61.	Structural Concrete	None	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, Derbiboard h, SOPRA-ISO+r, SOPRA-ISOx or SOPRA-ISO+x	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board. Top surface shall be primed with Derbibase SA Primer.	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-120.0
C-62.	Structural Concrete	None	Min. 1.5-inch, min. 1.25 pcf, Insulfoam	DUOTACK	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-152.5
C-63.	Structural Concrete	None	One or more layers min. 1.5-inch, min. 1.25 pcf, Insulfoam	DUOTACK	Min. 0.125-inch SOPRABOARD	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-152.5
C-64.	Structural Concrete	None	Min. 1.5-inch Derbiboard, Derbiboard h, ENRGY 3 or Multi-Max FA3	DUOTACK	(Optional) Additional layers of base insulation	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-150.0
C-65.	Structural Concrete	None	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, Derbiboard h, SOPRA-ISO+r, SOPRA-ISOx or SOPRA-ISO+x	DUOTACK	Min. 0.125-inch SOPRABOARD	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-150.0
C-66.	Structural Concrete	None	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, Derbiboard h, SOPRA-ISO+r, SOPRA-ISOx or SOPRA-ISO+x	DUOTACK	Min. 0.4375-inch DEXcell Cement Roof Board. Top surface shall be primed with Derbibase SA Primer.	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-157.5
C-67.	Structural Concrete	None	Min. 2-inch Derbiboard, Derbiboard CA, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, Derbiboard h, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-172.5
C-68.	Structural Concrete	None	Min. 1.5-inch Derbiboard, Derbiboard CA, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, Derbiboard h, SOPRA-ISO+r, SOPRA-ISOx or SOPRA-ISO+x	DUOTACK	Min. 0.4375-inch DEXcell Cement Roof Board. Top surface shall be primed with Derbibase SA Primer.	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-190.0
C-69.	Structural Concrete	None	Min. 1.5-inch, min. 1.25 pcf, Insulfoam	DUOTACK at 6-inch o.c.	Min. 0.125-inch SOPRABOARD	DUOTACK at 6-inch o.c.	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-215.0
C-70.	Structural Concrete	None	Min. 1.5-inch, min. 1.25 pcf, Insulfoam	DUOTACK at 6-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK at 6-inch o.c.	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-215.0

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

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
C-71.	Structural Concrete	None	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, Derbiboard h, SOPRA-ISO+r, SOPRA-ISOx or SOPRA-ISO+x	DUOTACK	Min. 0.125-inch SOPRABOARD. Top surface shall be primed with Derbibase SA Primer.	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-270.0
C-72.	Structural Concrete	None	Min. 1.5-inch Derbiboard, Derbiboard CA, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, ENRGY 3 25 PSI AGF, ENRGY 3 25 PSI CGF, Derbiboard h, SOPRA-ISO+r, SOPRA-ISOx or SOPRA-ISO+x	DUOTACK, 6-inch o.c.	Min. 0.4375-inch DEXcell Cement Roof Board. Top surface shall be primed with Derbibase SA Primer.	DUOTACK, 6-inch o.c.	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-285.0
C-73.	Structural Concrete	None	Min. 1.5-inch, min. 1.25 pcf, Insulfoam	DUOTACK SPF HFO	Min. 0.125-inch SOPRABOARD	DUOTACK SPF HFO	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-87.5
C-74.	Structural Concrete	None	Min. 1.5-inch, min. 1.25 pcf, Insulfoam	DUOTACK SPF HFO	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-87.5
C-75.	Structural Concrete	None	Min. 1.5-inch Derbiboard, Derbiboard h, ENRGY 3 or Multi-Max FA3	DUOTACK SPF HFO	(Optional) Additional layers of base insulation	DUOTACK SPF HFO	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-155.0
C-76.	Structural Concrete	None	Min. 1.5-inch Derbiboard, Derbiboard h, ENRGY 3 or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.125-inch SOPRABOARD	DUOTACK SPF HFO	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-155.0
C-77.	Structural Concrete	None	Min. 2-inch Derbiboard, Derbiboard h, ENRGY 3 or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-172.5

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

System No.	Deck	Primer	Roof Cover (Note 15)			MDP (psf)
			Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY:						
C-78.	Structural concrete	ASTM D41	CA	None	CA	-255.0
ASPHALT- OR TORCH-APPLIED BASE PLY:						
C-79.	Structural concrete	ASTM D41	AA or APP-TA	(Optional) AA or APP-TA	APP-TA	-300.0
SELF-ADHERING BASE PLY:						
C-80.	Structural Concrete	Derbibase SA Primer	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-67.5

TABLE 4A: DECK WITH LIGHTWEIGHT CONCRETE – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
 REFER TO **NOTE 16D** FOR VAPOR BARRIER OPTIONS (BETWEEN STRUCTURAL CONCRETE AND LIGHTWEIGHT CONCRETE)

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY:										
PRE-EXISTENT CELLULAR LWC:										
LWC-1.	Structural Concrete	Min. 300 psi, pre-existent cellular lightweight insulating concrete deck	(Optional) Min. 1.5-inch Derbiboard or Derbiboard CA	DUOTACK SPF HFO	Min. 1.5-inch Derbiboard or Derbiboard CA	DUOTACK SPF HFO	CA	None	CA	-135.0
ASPHALT-APPLIED BASE PLY:										
CELCORE (FL2037):										
LWC-2.	Structural Concrete	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. Celcore PVA Curing Compound	Min. 2-inch Derbiboard CA or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-120.0
LWC-3.	Structural Concrete	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. Celcore PVA Curing Compound	Min. 2-inch Derbiboard CA or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DensDeck Prime	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-150.0
LWC-4.	Structural Concrete	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. Celcore PVA Curing Compound	Min. 2-inch Derbiboard CA or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-170.0
LWC-5.	Structural Concrete	Min. 200 psi Celcore Cellular Concrete	Min. 1.5-inch Derbiboard or Derbiboard CA	DUOTACK SPF HFO	Min. 0.5-inch Structodek HD with Primed Red Coating or Min. 0.25-inch DensDeck	DUOTACK SPF HFO	AA	(Optional) AA or APP-TA	APP-TA	-222.5
ELASTIZELL (FL4994):										
LWC-6.	Structural Concrete	Min. 200 psi Range II Elastizell Lightweight Insulating Concrete	(Optional) Min. 1.5-inch Derbiboard	OB500	Min. 0.25-inch DensDeck or DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	OB500	AA	(Optional) AA or APP-TA	APP-TA	-225.0
LWC-7.	Structural Concrete	Min. 200 psi Range II Elastizell Lightweight Insulating Concrete	Min. 1.5-inch Derbiboard or Derbiboard CA	DUOTACK SPF HFO	Min. 0.5-inch Structodek HD with Primed Red Coating or Min. 0.25-inch DensDeck	DUOTACK SPF HFO	AA	(Optional) AA or APP-TA	APP-TA	-180.0
MEARLCRETE (FL13492):										
LWC-8.	Structural Concrete	Min. 200 psi Mearlcrete	Min. 1.5-inch Derbiboard or Derbiboard CA	DUOTACK SPF HFO	Min. 0.5-inch Structodek HD with Primed Red Coating or Min. 0.25-inch DensDeck	DUOTACK SPF HFO	AA	(Optional) AA or APP-TA	APP-TA	-225.0

TABLE 4A: DECK WITH LIGHTWEIGHT CONCRETE – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
 REFER TO **NOTE 16D** FOR VAPOR BARRIER OPTIONS (BETWEEN STRUCTURAL CONCRETE AND LIGHTWEIGHT CONCRETE)

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
TORCH-APPLIED BASE PLY:										
CELCORE (FL2037):										
LWC-9.	Structural Concrete	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. Celcore PVA Curing Compound	Min. 2-inch Derbi-board CA or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DensDeck Prime	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-160.0
LWC-10.	Structural Concrete	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. Celcore PVA Curing Compound	Min. 2-inch Derbi-board CA or SOPRA-ISO+r	DUOTACK	Min. 0.125-inch SOPRABOARD or Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-170.0
LWC-11.	Structural Concrete	Min. 200 psi Range II Elastzell Lightweight Insulating Concrete	Min. 1" Derbi-board, Derbi-board CA, ENRGY 3 or ISO 95+GL	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or 0.5" DuraBoard	OB500	APP-TA	(Optional) APP-TA	APP-TA	-130.0
LWC-12.	Structural Concrete	Min. 200 psi Range II Elastzell Lightweight Insulating Concrete	Min. 1" Derbi-board, Derbi-board CA, ENRGY 3 or ISO 95+GL	OB500	Min. 0.25-inch DensDeck Prime	OB500	APP-TA	(Optional) APP-TA	APP-TA	-160.0
LWC-13.	Structural Concrete	Min. 200 psi Range II Elastzell Lightweight Insulating Concrete	Min. 1" Derbi-board, Derbi-board CA, ENRGY 3 or ISO 95+GL	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or 0.5" DuraBoard	OB500	Derbigum GP or Derbigum XPS, torch-applied	(Optional) APP-TA	APP-TA	-160.0
LWC-14.	Structural Concrete	Min. 200 psi Range II Elastzell Lightweight Insulating Concrete	Min. 0.25-inch DensDeck Prime	OB500	None	N/A	APP-TA	(Optional) APP-TA	APP-TA	-210.0
LWC-15.	Structural Concrete	Min. 200 psi Range II Elastzell Lightweight Insulating Concrete	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or 0.5" DuraBoard	OB500	None	N/A	Derbigum GP or Derbigum XPS, torch-applied	(Optional) APP-TA	APP-TA	-210.0
PRE-EXISTENT CELLULAR LWC:										
LWC-16.	Structural Concrete	Cellular lightweight concrete, Min. 400 psi, Min. 2-inch top coat <i>Note: To qualify the LWIC under this assembly, a Perlok FM-90 Base Sheet Fastener shall achieve an average withdrawal of 156 lbf when tested per Note 11</i>	Min. 0.125-inch SOPRABOARD	DUOTACK 365, 6-inch o.c.	None	N/A	APP-TA	(Optional) APP-TA	APP-TA	-210.0
SELF-ADHERING BASE PLY:										
CELCORE (FL2037):										
LWC-17.	Structural Concrete	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. Celcore PVA Curing Compound.	Min. 0.125-inch SOPRABOARD	DUOTACK	None	N/A	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-115.0

TABLE 4A: DECK WITH LIGHTWEIGHT CONCRETE – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
 REFER TO [NOTE 16D](#) FOR VAPOR BARRIER OPTIONS (BETWEEN STRUCTURAL CONCRETE AND LIGHTWEIGHT CONCRETE)

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
LWC-18.	Structural Concrete	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. Celcore PVA Curing Compound.	Min. 2-inch Derbiboard CA or SOPRA-ISO+ r	DUOTACK	Min. 0.125-inch SOPRABOARD	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-155.0

TABLE 4B: DECK WITH LIGHTWEIGHT CONCRETE – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER
 REFER TO [NOTE 16D](#) FOR VAPOR BARRIER OPTIONS (BETWEEN STRUCTURAL CONCRETE AND LIGHTWEIGHT CONCRETE)

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
			Type	Fastener	Attach	Base Ply	Cap Ply	
CELCORE (FL2037):								
LWC-19.	Steel or structural concrete	Min. 200 psi Celcore Cellular Concrete	Derbibase, Derbibase Ultra or Derbigum GP	Perlok-O CRBSF 1.7	7-inch o.c. in the 4-inch lap and 7-inch o.c. at two (2) equally spaced, staggered center rows	CA, AA or APP-TA	CA or APP-TA	-45.0
CONCRECEL (FL5584 & FL10500):								
LWC-20.	Steel or structural concrete	Min. 200 psi Concrecel Concrete	Derbibase, Derbibase Ultra or Derbigum GP	Perlok-O CRBSF 1.7	7-inch o.c. in the 4-inch lap and 7-inch o.c. at two (2) equally spaced, staggered center rows	CA, AA or APP-TA	CA or APP-TA	-45.0
LWC-21.	Min. 22 ga., type B, Grade 33 vented steel deck or structural concrete	Deck treated with Concrecel Bonding Agent followed by min. 450 psi Concrecel Concrete	Derbibase	Perlok-O CRBSF 1.7	7-inch o.c. in the 4-inch lap and 7-inch o.c. at two (2) equally spaced, staggered center rows	(Optional) AA or APP-TA	APP-TA	-60.0
ELASTIZELL (FL4994):								
LWC-22.	Steel or structural concrete	Min. 200 psi Range II Elastizell Lightweight Insulating Concrete	Derbibase, Derbibase Ultra or Derbigum GP	Perlok-O CRBSF 1.7	7-inch o.c. in the 4-inch lap and 7-inch o.c. at two (2) equally spaced, staggered center rows	CA, AA or APP-TA	CA or APP-TA	-45.0

**TABLE 4c: DECK WITH LIGHTWEIGHT CONCRETE – REROOF (TEAR-OFF)
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

REFER TO **NOTE 16D** FOR VAPOR BARRIER OPTIONS (BETWEEN STRUCTURAL CONCRETE AND LIGHTWEIGHT CONCRETE)

System No.	Deck (Note 1)	LWC (Note 12, Note 14)				Roof Cover (Note 15)				MDP (psf)
		Bonding Agent / Primer	Type	Sealer	Surfacing	Primer	Base	Ply	Cap	
CELCORE (FL2037):										
LWC-23.	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft spans; 5/8" puddle welds, 6" o.c. or structural concrete	(Optional) Celcore S-1 Deck Preparation Slurry	Pre-existent (> 28 days old) Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture, Min. 300 psi, min. 2-inch thick	Celcore PVA Curing Compound	(Optional) Repair LWC spalls with Celcore SBS (Sanded Bonding Surface)	None	BITUTAK Cold Mineral or SELECT APP POLY GR applied granule-side down in Soprema COLPLY EF Adhesive, ribbons max. 6-inch o.c. Side laps torch-sealed	(Optional) APP-TA	APP-TA	-37.5
LWC-24.	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft spans; 5/8" puddle welds, 6" o.c. or structural concrete	(Optional) Celcore S-1 Deck Preparation Slurry	Pre-existent (> 28 days old) Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture, Min. 300 psi, min. 2-inch thick	Celcore PVA Curing Compound	None	None	Derbibase Ultra applied Soprema COLPLY EF Adhesive, ribbons max. 6-inch o.c. Side laps torch-sealed	(Optional) APP-TA	APP-TA	-45.0
LWC-25.	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft spans; 5/8" puddle welds, 6" o.c. or structural concrete	(Optional) Celcore S-1 Deck Preparation Slurry	Pre-existent (> 28 days old) Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture, Min. 300 psi, min. 2-inch thick	Celcore PVA Curing Compound	None	None	PRS Modified Base applied Soprema COLPLY EF Adhesive, ribbons max. 6-inch o.c.	APP-TA	CA or APP-TA	-45.0
PRE-EXISTENT CELLULAR LWC:										
LWC-26.	Structural Concrete	None	Cellular lightweight concrete, Min. 400 psi, Min. 2-inch top coat <i>Note: To qualify the LWIC under this assembly, a Perlok FM-90 Base Sheet Fastener shall achieve an average withdrawal of 156 lbf when tested per Note 11.</i>	None	None	None	Derbibase or Derbibase Ultra applied Soprema COLPLY EF Adhesive, 1.5 gal/sq. Side laps torch-sealed	(Optional) APP-TA	APP-TA	-165.0

TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
 REFER TO NOTE 16E FOR VAPOR BARRIER OPTIONS

System No.	Deck (Note 1, Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY:									
CWF-1.	Existing Tectum	(Optional) Min. 1.5-inch Derbiboard	OB500	Derbiboard (flat or tapered)	OB500	CA	None	CA	-45.0*
CWF-2.	Existing Tectum	(Optional) Min. 1.5-inch Derbiboard or Derbiboard CA	DUOTACK SPF HFO	Derbiboard or Derbiboard CA (flat or tapered)	DUOTACK SPF HFO	CA	None	CA	-52.5
ASPHALT-APPLIED BASE PLY:									
CWF-3.	Existing Tectum	(Optional) Min. 1.5-inch Derbiboard	OB500	Min. 0.5-inch Structodek HD with Primed Red Coating or min. 0.25-inch DensDeck, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board 7/16-inch DEXcell Cement Roof Board	OB500	AA	(Optional) AA or APP-TA	APP-TA	-45.0*
CWF-4.	Existing Tectum	(Optional) Min. 1.5-inch Derbiboard or Derbiboard CA	DUOTACK SPF HFO	Min. 0.5-inch Structodek HD with Primed Red Coating or min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	AA	(Optional) AA or APP-TA	APP-TA	-52.5
TORCH-APPLIED BASE PLY:									
CWF-5.	Min. 2-inch Tectum Plank	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK, 4-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-163.0
CWF-6.	Min. 2-inch Tectum Plank	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK, 4-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 6-inch o.c.	APP-TA	(Optional) APP-TA	APP-TA	-185.0
CWF-7.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	None	N/A	APP-TA	(Optional) APP-TA	APP-TA	-185.0
SELF-ADHERING BASE PLY:									
CWF-8.	Min. 2-inch Tectum Plank	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK, 4-inch o.c.	Min. 7/16-inch DEXcell Cement Roof Board primed with Derbibase SA Primer	DUOTACK	SBS-SA1	(Optional) APP-TA	APP-TA or SBS-TA	-190.0
CWF-9.	Min. 2-inch Tectum Plank	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK, 4-inch o.c.	Min. 7/16-inch DEXcell Cement Roof Board primed with Derbibase SA Primer	DUOTACK, 6-inch o.c.	SBS-SA1	(Optional) APP-TA	APP-TA or SBS-TA	-285.0
CWF-10.	Min. 2-inch Tectum Plank	Min. 7/16-inch DEXcell Cement Roof Board primed with Derbibase SA Primer	DUOTACK, 4-inch o.c.	None	N/A	SBS-SA1	(Optional) APP-TA	APP-TA or SBS-TA	-285.0
CWF-11.	Min. 2-inch Tectum Plank	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK, 4-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board primed with Derbibase SA Primer	DUOTACK	SBS-SA1	(Optional) APP-TA	APP-TA or SBS-TA	-163.0

TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
 REFER TO NOTE 16E FOR VAPOR BARRIER OPTIONS

System No.	Deck <u>(Note 1, Note 12)</u>	Base Insulation Layer		Top Insulation Layer		Roof Cover <u>(Note 15)</u>			MDP (psf)
		Type	Attach <u>(Notes 6,7,8)</u>	Type	Attach <u>(Notes 6,7,8)</u>	Base Ply	Ply	Cap Ply	
CWF-12.	Min. 2-inch Tectum Plank	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK, 4-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board primed with Derbibase SA Primer	DUOTACK, 6-inch o.c.	SBS-SA1	(Optional) APP-TA	APP-TA or SBS-TA	-185.0
CWF-13.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board primed with Derbibase SA Primer	DUOTACK, 4-inch o.c.	None	N/A	SBS-SA1	(Optional) APP-TA	APP-TA or SBS-TA	-185.0

TABLE 5B: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-3: BONDED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck <u>(Note 1)</u>	Thermal Barrier		Primer	Vapor Barrier <u>(Note 15B)</u>	Base Insulation Layer		Top Insulation Layer		Roof Cover <u>(Note 15)</u>			MDP (psf)
		Type	Attach <u>(Notes 6,7,8)</u>			Type	Attach <u>(Notes 6,7,8)</u>	Type	Attach <u>(Notes 6,7,8)</u>	Base	Ply	Cap	
TORCH-APPLIED BASE:													
CWF-14.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	None	SBS-CA3, SBS-AA or SBS-TAF	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-163.0
CWF-15.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	Derbibase SA Primer	Derbibase SA, self-adhering or SBS-SA1	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-163.0
CWF-16.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	None	SBS-CA3, SBS-AA or SBS-TAF	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK, 6-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 6-inch o.c.	APP-TA	(Optional) APP-TA	APP-TA	-185.0
CWF-17.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	Derbibase SA Primer	Derbibase SA, self-adhering or SBS-SA1	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK, 6-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 6-inch o.c.	APP-TA	(Optional) APP-TA	APP-TA	-185.0

**TABLE 5B: CEMENTITIOUS WOOL FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-3: BONDED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Thermal Barrier		Primer	Vapor Barrier (Note 15B)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base	Ply	Cap	
SELF-ADHERING BASE PLY:													
CWF-18.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	None	SBS-CA3, SBS-AA or SBS-TAF	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with Derbibase SA Primer.	DUOTACK	SBS-SA1	(Optional) APP-TA	APP-TA or SBS-TA	-163.0
CWF-19.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	Derbibase SA Primer	Derbibase SA, self-adhering or SBS-SA1	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with Derbibase SA Primer.	DUOTACK	SBS-SA1	(Optional) APP-TA	APP-TA or SBS-TA	-163.0
CWF-20.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	None	SBS-CA3, SBS-AA or SBS-TAF	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK, 6-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with Derbibase SA Primer.	DUOTACK, 6-inch o.c.	SBS-SA1	(Optional) APP-TA	APP-TA or SBS-TA	-185.0
CWF-21.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	Derbibase SA Primer	Derbibase SA, self-adhering or SBS-SA1	Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK, 6-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with Derbibase SA Primer.	DUOTACK, 6-inch o.c.	SBS-SA1	(Optional) APP-TA	APP-TA or SBS-TA	-185.0

TABLE 6A: GYPSUM DECKS - WIND UPLIFT PERFORMANCE – REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
 REFER TO [NOTE 16F](#) FOR VAPOR BARRIER OPTIONS.

System No.	Deck (Note 1 , Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY:									
G-1.	Existing gypsum deck	(Optional) Min. 1.5-inch Derbiboard or Derbiboard CA	M-OSFA	Min. 1.5-inch Derbiboard or Derbiboard CA	M-OSFA	CA	None	CA	-135.0
G-2.	Existing gypsum deck	(Optional) Min. 1.5-inch, min. 1.25 pcf, Insulfoam, Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	CA	None	CA	-67.5
G-3.	Existing gypsum deck	(Optional) Min. 1.5-inch, min. 1.25 pcf, Insulfoam, Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK	CA	None	CA	-105.0
G-4.	Existing gypsum deck	Min. 1.5-inch Derbiboard or Derbiboard CA	DUOTACK	(Optional) Additional layer(s) base insulation	DUOTACK	CA	None	CA	-135.0
G-5.	Existing gypsum deck	(Optional) Min. 1.5-inch Derbiboard	OB500	Min. 1.5-inch Derbiboard	OB500	CA	None	CA	-120.0
G-6.	Existing gypsum deck	(Optional) Min. 1.5-inch Derbiboard CA	DUOTACK SPF HFO	Min. 1.5-inch Derbiboard CA	DUOTACK SPF HFO	CA	None	CA	-75.0
ASPHALT-APPLIED BASE PLY:									
G-7.	Existing gypsum deck	(Optional) Min. 1.5-inch Derbiboard or Derbiboard CA	M-OSFA	Min. 0.5-inch Structodek HD with Primed Red Coating	M-OSFA	AA	(Optional) AA or TA	TA	-127.5
G-8.	Existing gypsum deck	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-120.0
G-9.	Existing gypsum deck	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DensDeck or DensDeck Prime	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-150.0
G-10.	Existing gypsum deck	Min. 1.5-inch, min. 1.25 pcf, Insulfoam	DUOTACK	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-152.5
G-11.	Existing gypsum deck	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-162.5
G-12.	Existing gypsum deck	(Optional) Min. 1.5-inch Derbiboard	OB500	Min. 0.5-inch Structodek HD with Primed Red Coating or min. 0.25-inch DensDeck or DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	OB500	AA	(Optional) AA or APP-TA	APP-TA	-135.0
G-13.	Existing gypsum deck	(Optional) Min. 1.5-inch Derbiboard	DUOTACK SPF HFO	Min. 0.5-inch Structodek HD with Primed Red Coating or min. 0.25-inch DensDeck	DUOTACK SPF HFO	AA	(Optional) AA or APP-TA	APP-TA	-150.0

TABLE 6A: GYPSUM DECKS - WIND UPLIFT PERFORMANCE – REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
 REFER TO NOTE 16F FOR VAPOR BARRIER OPTIONS.

System No.	Deck (Note 1 , Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
G-14.	Existing gypsum deck	(Optional) Min. 1.5-inch ISO 95+ GL or ENRGY 3	DUOTACK SPF HFO	Min. 0.5-inch Structodek HD with Primed Red Coating	DUOTACK SPF HFO	AA	(Optional) AA or APP-TA	APP-TA	-210.0
G-15.	Existing gypsum deck	Min. 2.0-inch Derbiboard	DUOTACK SPF HFO	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	AA	(Optional) AA or APP-TA	APP-TA	-225.0
TORCH-APPLIED BASE PLY:									
G-16.	Existing gypsum deck	(Optional) Min. 1.5-inch Derbiboard, ENRGY 3, EnergyGuard POLYSIO INSULATION, Derbiboard h or Multi-Max FA3	M-OSFA	Min. 0.125-inch SOPRABOARD	M-OSFA	TA	(Optional) TA	TA	-155.0
G-17.	Existing gypsum deck	(Optional) Min. 1.5-inch, min. 1.25 pcf, Insulfoam	DUOTACK	Min. 0.125-inch SOPRABOARD	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-152.5
G-18.	Existing gypsum deck	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, Derbiboard h, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.125-inch SOPRABOARD	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-155.0
G-19.	Existing gypsum deck	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DensDeck Prime	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-160.0
G-20.	Existing gypsum deck	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-162.5
G-21.	Existing gypsum deck	(Optional) Min. 1.5-inch Derbiboard, ENRGY 3, Derbiboard h or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.125-inch SOPRABOARD	DUOTACK SPF HFO	APP-TA	(Optional) APP-TA	APP-TA	-157.5
G-22.	Existing gypsum deck	Min. 2.0-inch Derbiboard	DUOTACK SPF HFO	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	APP-TA	(Optional) APP-TA	APP-TA	-232.5
SELF-ADHERING BASE PLY:									
G-23.	Existing gypsum deck	(Optional) Min. 1.5-inch, min. 1.25 pcf, Insulfoam	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-152.5
G-24.	Existing gypsum deck	(Optional) Min. 1.5-inch, min. 1.25 pcf, Insulfoam	M-OSFA	Min. 0.125-inch SOPRABOARD	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-152.5
G-25.	Existing gypsum deck	Min. 1.5-inch Derbiboard, Derbiboard h, ENRGY 3 or Multi-Max FA3	M-OSFA	(Optional) Additional layers of base insulation	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-155.0
G-26.	Existing gypsum deck	(Optional) Min. 1.5-inch Derbiboard, Derbiboard h, ENRGY 3, EnergyGuard POLYSIO INSULATION or Multi-Max FA3	M-OSFA	Min. 0.125-inch SOPRABOARD	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-155.0
G-27.	Existing gypsum deck	(Optional) Min. 2-inch Derbiboard, Derbiboard h, ENRGY 3, EnergyGuard POLYSIO INSULATION or Multi-Max FA3	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-162.5
G-28.	Existing gypsum deck	(Optional) Min. 1.5-inch, min. 1.25 pcf, Insulfoam	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-152.5

TABLE 6A: GYPSUM DECKS - WIND UPLIFT PERFORMANCE – REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
 REFER TO [NOTE 16F](#) FOR VAPOR BARRIER OPTIONS.

System No.	Deck (Note 1, Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
G-29.	Existing gypsum deck	(Optional) Min. 1.5-inch, min. 1.25 pcf, Insulfoam	M-OSFA	Min. 0.125-inch SOPRABOARD	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-152.5
G-30.	Existing gypsum deck	Min. 1.5-inch Derbiboard, Derbiboard h, ENRGY 3 or Multi-Max FA3	M-OSFA	(Optional) Additional layers of base insulation	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-155.0
G-31.	Existing gypsum deck	(Optional) Min. 1.5-inch Derbiboard, Derbiboard h, ENRGY 3, EnergyGuard POLYISO INSULATION or Multi-Max FA3	M-OSFA	Min. 0.125-inch SOPRABOARD	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-155.0
G-32.	Existing gypsum deck	(Optional) Min. 2-inch Derbiboard, Derbiboard h, ENRGY 3, EnergyGuard POLYISO INSULATION or Multi-Max FA3	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-172.5
G-33.	Existing gypsum deck	(Optional) Min. 1.5-inch, min. 1.25 pcf, Insulfoam	DUOTACK SPF HFO	Min. 0.125-inch SOPRABOARD	DUOTACK SPF HFO	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-87.5
G-34.	Existing gypsum deck	(Optional) Min. 1.5-inch, min. 1.25 pcf, Insulfoam	DUOTACK SPF HFO	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-87.5
G-35.	Existing gypsum deck	Min. 1.5-inch Derbiboard, Derbiboard h, ENRGY 3 or Multi-Max FA3	DUOTACK SPF HFO	(Optional) Additional layers of base insulation	DUOTACK SPF HFO	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-155.0
G-36.	Existing gypsum deck	(Optional) Min. 1.5-inch Derbiboard, Derbiboard h, ENRGY 3 or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.125-inch SOPRABOARD	DUOTACK SPF HFO	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-155.0
G-37.	Existing gypsum deck	(Optional) Min. 2-inch Derbiboard, Derbiboard h, ENRGY 3 or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-172.5

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

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Fastener (Note 11)	Attach	Base Ply	Cap Ply	
G-38.	Existing gypsum deck	Derbibase, Derbibase Ultra, Derbigum GP or Derbigum XPS	Perlok-O CRBSF 1.2	7-inch o.c. in the 4-inch lap and 7-inch o.c. at two (2), equally spaced, staggered center rows	(Optional) CA	CA	-45.0*

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

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

System No.	Substrate (Note 1 , Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf) ^A
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
COLD-APPLIED BASE PLY:									
R-1.	Existing smooth surface asphalt BUR or APP or SBS roof cover	(Optional) Min. 1.5-inch Derbiboard CA	Asphalt applied	Min. 1.5-inch Derbiboard CA	Asphalt applied	CA	None	CA	-75.0
R-2.	Existing smooth surface asphalt BUR or APP or SBS roof cover	(Optional) Min. 1.5-inch Derbiboard or Derbiboard CA	M-OSFA	Min. 1.5-inch Derbiboard or Derbiboard CA	M-OSFA	CA	None	CA	-135.0
R-3.	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	CA	None	CA	-67.5
R-4.	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch, min. 1.25 pcf, Insulfoam, Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK	CA	None	CA	-105.0
R-5.	Smooth- or granule-surface modified bitumen or BUR	Min. 1.5-inch Derbiboard or Derbiboard CA	DUOTACK	(Optional) Additional layer(s) base insulation	DUOTACK	CA	None	CA	-135.0
R-6.	Existing smooth surface asphalt BUR or APP or SBS roof cover	(Optional) Min. 1.5-inch Derbiboard	OB500	Min. 1.5-inch Derbiboard	OB500	CA	None	CA	-120.0
R-7.	Existing smooth surface asphalt BUR or APP or SBS roof cover	(Optional) Min. 1.5-inch Derbiboard or Derbiboard CA	DUOTACK SPF HFO	Min. 1.5-inch Derbiboard or Derbiboard CA	DUOTACK SPF HFO	CA	None	CA	-120.0
ASPHALT-APPLIED BASE PLY:									
R-8.	Existing smooth surface asphalt BUR or APP or SBS roof cover	(Optional) Min. 1.5-inch Derbiboard or Derbiboard CA	M-OSFA	Min. 0.5-inch Structodek HD with Primed Red Coating	M-OSFA	AA	(Optional) AA or TA	TA	-127.5
R-9.	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-120.0
R-10.	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DensDeck or DensDeck Prime	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-150.0
R-11.	Smooth- or granule-surface modified bitumen or BUR	Min. 1.5-inch, min. 1.25 pcf, Insulfoam	DUOTACK	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-152.5

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

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

System No.	Substrate (Note 1, Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf) ^A
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
R-12.	Granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-195.0
R-13.	Smooth-surface SBS modified bitumen	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	AA	(Optional) AA or APP-TA	APP-TA	-225.0
R-14.	Existing smooth surface asphalt BUR or APP or SBS roof cover	(Optional) Min. 1.5-inch Derbiboard	OB500	Min. 0.5-inch Structodek HD with Primed Red Coating or min. 0.25-inch DensDeck or DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board or 7/16-inch DEXcell Cement Roof Board	OB500	AA	(Optional) AA or APP-TA	APP-TA	-120.0
R-15.	Existing smooth surface asphalt BUR or APP or SBS roof cover	(Optional) Min. 1.5-inch Derbiboard or Derbiboard CA	DUOTACK SPF HFO	Min. 0.5-inch Structodek HD with Primed Red Coating or min. 0.25-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	AA	(Optional) AA or APP-TA	APP-TA	-150.0
TORCH-APPLIED BASE PLY:									
R-16.	Smooth-surface SBS modified bitumen	Min. 2-inch Derbiboard, ENRGY 3, Derbiboard h or Multi-Max FA3	Asphalt applied	Min. 0.125-inch SOPRABOARD	Asphalt applied	APP-TA	(Optional) APP-TA	APP-TA	-260.0
R-17.	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch, min. 1.25 pcf, Insulfoam	DUOTACK	Min. 0.125-inch SOPRABOARD	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-150.0
R-18.	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DensDeck Prime	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-160.0
R-19.	Granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-195.0
R-20.	Smooth-surface SBS modified bitumen	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch SECUROCK Gypsum Fiber Roof Board	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-232.5
R-21.	Smooth-surface SBS modified bitumen	Min. 2-inch Derbiboard, Derbiboard CA, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, Derbiboard h, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.125-inch SOPRABOARD	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-260.0
R-22.	Existing smooth-surface asphalt BUR	(Optional) Min. 1" Derbiboard, Derbiboard CA, ISO 90+GL or ENRGY 3	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or 0.5" DuraBoard	OB500	APP-TA	(Optional) APP-TA	APP-TA	-130.0

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

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

System No.	Substrate (Note 1, Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf) ^A
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
R-23.	Existing smooth-surface asphalt BUR	(Optional) Min. 1" Derbiboard, Derbiboard CA, ISO 90+GL or ENRGY 3	OB500	Min. 0.5" DuraBoard	OB500	Derbigum GP or Derbigum XPS, torch-applied	(Optional) APP-TA	APP-TA	-130.0
R-24.	Existing smooth-surface asphalt BUR	Min. 1" Derbiboard, Derbiboard CA, ISO 90+GL or ENRGY 3	OB500	Min. 0.25-inch DensDeck Prime	OB500	APP-TA	(Optional) APP-TA	APP-TA	-160.0
R-25.	Existing smooth-surface asphalt BUR	Min. 1" Derbiboard, Derbiboard CA, ISO 90+GL or ENRGY 3	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or 0.5" DuraBoard	OB500	Derbigum GP or Derbigum XPS, torch-applied	(Optional) APP-TA	APP-TA	-160.0
R-26.	Existing smooth-surface asphalt BUR	Min. 0.25-inch DensDeck Prime	OB500	None	N/A	APP-TA	(Optional) APP-TA	APP-TA	-210.0
R-27.	Existing smooth-surface asphalt BUR	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or 0.5" DuraBoard	OB500	None	N/A	Derbigum GP or Derbigum XPS, torch-applied	(Optional) APP-TA	APP-TA	-210.0
R-28.	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch Derbiboard, ENRGY 3, Derbiboard h or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.125-inch SOPRABOARD	DUOTACK SPF HFO	APP-TA	(Optional) APP-TA	APP-TA	-157.5
SELF-ADHERING BASE PLY:									
R-29.	Smooth- or granule-surface modified bitumen or BUR	Min. 1.4-inch Derbiboard, ENRGY 3, Derbiboard h or Multi-Max FA3	Asphalt applied	(Optional) Additional layers of base insulation	Asphalt applied	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-150.0
R-30.	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch Derbiboard, ENRGY 3, Derbiboard h or Multi-Max FA3	Asphalt applied	Min. 0.125-inch SOPRABOARD	Asphalt applied	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-150.0
R-31.	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 2-inch Derbiboard, ENRGY 3, Derbiboard h or Multi-Max FA3	Asphalt applied	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Asphalt applied	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-150.0
R-32.	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch, min. 1.25 pcf, Insulfoam	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-152.5
R-33.	Smooth- or granule-surface modified bitumen or BUR	(Optional) One or more layers min. 1.5-inch, min. 1.25 pcf, Insulfoam	M-OSFA	Min. 0.125-inch SOPRABOARD	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-152.5
R-34.	Smooth- or granule-surface modified bitumen or BUR	Min. 1.5-inch Derbiboard, Derbiboard h, ENRGY 3 or Multi-Max FA3	M-OSFA	(Optional) Additional layers of base insulation	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-155.0
R-35.	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch Derbiboard, Derbiboard h, ENRGY 3, EnergyGuard POLYISO INSULATION or Multi-Max FA3	M-OSFA	Min. 0.125-inch SOPRABOARD	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-155.0

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

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

System No.	Substrate (Note 1, Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf) ^A
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
R-36.	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 2-inch Derbiboard, Derbiboard h, ENRGY 3, EnergyGuard POLYSIO INSULATION or Multi-Max FA3	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-157.5
R-37.	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch, min. 1.25 pcf, Insulfoam	DUOTACK	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-150.0
R-38.	Smooth- or granule-surface modified bitumen or BUR	(Optional) One or more layers min. 1.5-inch, min. 1.25 pcf, Insulfoam	DUOTACK	Min. 0.125-inch SOPRABOARD	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-150.0
R-39.	Smooth- or granule-surface modified bitumen or BUR	Min. 1.4-inch Derbiboard, Derbiboard CA, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, Derbiboard h, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	(Optional) Additional layers of base insulation	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-150.0
R-40.	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch Derbiboard, Derbiboard CA, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, Derbiboard h, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.125-inch SOPRABOARD	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-150.0
R-41.	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 2-inch Derbiboard, Derbiboard CA, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, Derbiboard h, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-150.0
R-42.	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch, min. 1.25 pcf, Insulfoam	DUOTACK SPF HFO	Min. 0.125-inch SOPRABOARD	DUOTACK SPF HFO	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-87.5
R-43.	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch, min. 1.25 pcf, Insulfoam	DUOTACK SPF HFO	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-87.5
R-44.	Smooth- or granule-surface modified bitumen or BUR	Min. 1.5-inch Derbiboard, Derbiboard h, ENRGY 3 or Multi-Max FA3	DUOTACK SPF HFO	(Optional) Additional layers of base insulation	DUOTACK SPF HFO	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-155.0
R-45.	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch Derbiboard, Derbiboard h, ENRGY 3 or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.125-inch SOPRABOARD	DUOTACK SPF HFO	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-155.0
R-46.	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 2-inch Derbiboard, Derbiboard h, ENRGY 3 or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-172.5

TABLE 7B: RE-ROOF (TEAR-OFF) OR RECOVER APPLICATIONS
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER

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

System No.	Substrate (Note 1, Note 12)	Vapor Barrier	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)			MDP (psf) ^A
			Type	Fastener (Note 11)	Attach (Note 17)	Type	Attach	Base Ply	Ply	Cap Ply	
TORCH-APPLIED BASE PLY:											
R-47.	Pre-existent min. 360 psi aggregate or min. 320 psi cellular lightweight insulating concrete	(Optional) Min. 6-mil polyethylene or one or more layers Approved Derbigum base sheet or modified bitumen sheet, loose-laid	Min. 2-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	Perlok Versa-Fast Plate with minimum two (2) Perlok Versa-Fast Fastener installed 180° into the holes of the Versa-Fast Plate to engage existing substrate (Field W/D ≥ 187 lbf)	1 per 1.8 ft ²	Optional additional layer(s) base insulation followed by min. 0.125-inch SOPRABOARD	DUOTACK	APP-TA	(Optional) APP-TA	APP-TA	-52.5
SELF-ADHERING BASE PLY:											
R-48.	Pre-existent min. 360 psi aggregate or min. 320 psi cellular lightweight insulating concrete	(Optional) Min. 6-mil polyethylene or one or more layers Approved Derbigum base sheet or modified bitumen sheet, loose-laid	Min. 2-inch Derbiboard, Derbiboard CA, Derbiboard h or SOPRA-ISO+r	Perlok Versa-Fast Plate with minimum two (2) Perlok Versa-Fast Fastener installed 180° into the holes of the Versa-Fast Plate to engage existing substrate (Field W/D ≥ 187 lbf)	1 per 1.8 ft ²	Optional additional layer(s) base insulation followed by min. 0.125-inch SOPRABOARD or Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board. Top surface shall be primed with Derbibase SA Primer.	DUOTACK	SBS-SA	(Optional) APP-TA	APP-TA or SBS-TA	-52.5