



NEMO EVALUATIONS REPORT

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SOPREMA, Inc.
FL31780-R7

Nemo|cert.
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Oxford, CT 06478
(475) 888-CERT (2378)
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INSPECT

CERTIFY

EVALUATE

VALIDATE

QUALIFY

NEMO EVALUATION REPORT (NER)



SOPREMA

SOPREMA, Inc.
310 Quadral Drive
Wadsworth, OH 44281
(800) 356-3521

SUBJECT: SENTINEL® Roof Systems

SCOPE: This NEMO Evaluation Report (henceforth 'NER') is issued under F.A.C. [Rule 61G20-3](#) and the applicable rules and regulations governing Product Approval of construction materials in the State of Florida and ISO/IEC 17065 via [NEMO|cert.](#) NEMO Evaluations has evaluated the product described herein for compliance with the [Code sections noted herein](#).

CODE: 2024, 2021, and 2018 International Building Code TDI [Third-Party Evaluation Report](#) acceptance
2023 Florida Building Code, 8th Edition
2022 California Building Code
2023 City of Los Angeles Building Code [Section 98.0501](#), Product Approval, Alternate Materials, Systems, Devices and Methods of Construction

FBC JURISDICTION: Non-HVHZ and HVHZ

CATEGORY: **FBC:** Roofing **NEMO:** Single Ply

SUB-CATEGORY: **FBC:** Single Ply Roof Systems

CSI DIVISION: 07 00 00 Thermal and Moisture Protection
07 54 00 Thermoplastic Membrane Roofing
07 54 19 Polyvinyl-Chloride Roofing

FBC METHOD: Method 1, Option C – Codified Material, Evaluation by Evaluation Entity

COMPLIANCE STATEMENT: **SENTINEL® Roof Systems**, as produced by **SOPREMA, Inc.**, have demonstrated compliance with the [Code sections noted herein](#) through testing in accordance with the referenced Standards, rational analysis and an ongoing quality assurance program. Compliance is subject to the [Installation Requirements](#) and [Limitations of Use](#) set forth herein.

QUALITY ASSURANCE: Evidence of current quality assurance shall be listing and/or labeling in accordance with the requirements of [NEMO|cert.](#)

CONTINUED COMPLIANCE: This NER is valid until such time the named product(s) change, the referenced Quality Assurance changes, or the evaluated Code provisions change. NEMO Evaluations requires, at minimum, a complete review of this NER with each 3-year Code Cycle.

BUILDING PERMIT REQUIREMENTS: As required by the Building Official or Authority Having Jurisdiction to evaluate the installation of this product.

ADVERTISEMENT: "NEMO Evaluated" may be displayed in advertising literature. If any portion of the NER is displayed, it shall be displayed in its entirety.

CERTIFICATION OF INDEPENDENCE:

- ✓ NEMO CERT, 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.
- ✓ NEMO CERT, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
- ✓ This is a building code evaluation. NEMO CERT, LLC is not, in any way, the Designer of Record for any project on which this NER, or previous versions thereof, is/was used for permitting or design guidance.

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[LINK TO TOP OF ATTACHMENT REQUIREMENTS](#)



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AA-779



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1. CODES, PROPERTIES AND STANDARDS:

CODE	SECTION	PROPERTY	STANDARD
2018 International Building Code	1504.3.1	Wind resistance	FM 4474 or UL1897
	1504.6	Physical properties	ASTM G155
	1504.7	Impact resistance	FM 4470
	1505.1	Fire Classification	UL 790
	1507.10.2	Material standard	ASTM D2178, D4897
	1507.10.2, 1507.11.2.1	Material standard	ASTM D4601
	1507.11.2	Material standard	ASTM D6162, D6163, D6164
	1507.13.2	Material standard	ASTM D4434
2021 International Building Code	1504.4.1	Wind resistance	FM 4474 or UL1897
	1504.7	Impact resistance	FM 4470
	1505.1	Fire Classification	UL 790
	1507.10.2	Material standard	ASTM D2178, D4897
	1507.10.2, 1507.11.2.1	Material standard	ASTM D4601
	1507.11.2	Material standard	ASTM D6162, D6163, D6164
	1507.12.2	Material standard	ASTM D4434
2024 International Building Code	1504.4.1	Wind resistance	FM 4474 or UL1897
	1504.7	Impact resistance	FM 4470
	1505.1	Fire Classification	UL 790
	1507.10.2	Material standard	ASTM D2178, D4897
	1507.10.2, 1507.11.2.1	Material standard	ASTM D4601
	1507.11.2	Material standard	ASTM D6162, D6163, D6164
	1507.12.2	Material standard	ASTM D4434
2023 Florida Building Code, 8 th Edition	1504.3.1	Wind resistance	FM 4474 or UL1897
	1504.6	Physical properties	ASTM G154
	1504.7	Impact resistance	FM 4470 or ASTM D3746
	1505.1, 1516.1	Fire Classification	UL 790
	1507.10.2, TAS 110	Material Standard	ASTM D2178, D4601, D4897
	1507.11.2, TAS 110	Material standard	ASTM D6162, D6163, D6164
	1507.12.2, TAS 110	Material standard	ASTM D4434
	1523.6.2, TAS 110	Wind resistance	TAS 114, Appendix C, D or J
	TAS 110	Resistance to Foot Traffic	TAS 114, Section 8.9
	TAS 110	Susceptibility to Hail Damage	TAS 114, Appendix F
TAS 110	Susceptibility to Leakage	TAS 114, Appendix G	
2022 California Building Code and 2023 City of Los Angeles Building Code	Div. 5, Section 98.0501	Evaluation Reports	
	1504.4.1	Wind resistance	FM 4474 or UL1897
	1504.7	Impact resistance	FM 4470
	1505.1	Fire Classification	UL 790
	1507.10.2	Material standard	ASTM D2178, D4897
	1507.10.2, 1507.11.2.1	Material standard	ASTM D4601
	1507.11.2	Material standard	ASTM D6162, D6163, D6164
	1507.12.2	Material standard	ASTM D4434



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2. PRODUCTS:

TABLE 1A: EVALUATED SOPREMA COMPONENTS (NEMO Certified. Consult Directory of Certified Products for production location(s))				
TYPE	PRODUCT	MATERIAL STANDARD		
	NAME	REFERENCE	TYPE	GRADE
ROOF COVER OR CAP PLY	SENTINEL P150	ASTM D4434	III	N/A
	SENTINEL P200	ASTM D4434	III	N/A
	SENTINEL P150 HFB	ASTM D4434	III	N/A
	SENTINEL P200 HFB	ASTM D4434	III	N/A
	SENTINEL KEE P150	ASTM D4434	III	N/A
	SENTINEL KEE P200	ASTM D4434	III	N/A
	SENTINEL KEE P150 HFB	ASTM D4434	III	N/A
	SENTINEL KEE P200 HFB	ASTM D4434	III	N/A
BASE SHEETS	MODIFIED SOPRA G	ASTM D4601	II	N/A
	SOPRABASE TG	ASTM D4601	II	N/A
	SOPRA 4897	ASTM D4897	N/A	N/A
PLY SHEETS	SOPRA IV	ASTM D2178	IV	N/A
	SOPRA VI	ASTM D2178	VI	N/A
MECHANICALLY ATTACHED, SMOOTH SBS MEMBRANES	SOPRAPHIX Base 611	ASTM D6164	I	S
	SOPRAPHIX Base 612	ASTM D6164	I	S
	SOPRAPHIX Base 613	ASTM D6164	I	S
	SOPRAPHIX Base 622	ASTM D6164	I	S
	SOPRAPHIX Base 614	ASTM D6164	II	S
BASE PLY AND PLY MEMBRANES	ELASTOPHENE Flam HS	ASTM D6162	III	S
	ELASTOPHENE HS Sanded	ASTM D6162	III	S
	ELASTOPHENE Flam 2.2	ASTM D6163	I	S
	ELASTOPHENE Flam 3.0	ASTM D6163	I	S
	ELASTOPHENE PS 2.2	ASTM D6163	I	S
	ELASTOPHENE PS 3.0	ASTM D6163	I	S
	ELASTOPHENE Sanded 2.2	ASTM D6163	I	S
	ELASTOPHENE Sanded 3.0	ASTM D6163	I	S
	ELASTOPHENE SP 2.2	ASTM D6163	I	S
	ELASTOPHENE SP 3.0	ASTM D6163	I	S
	ELASTOPHENE Stick	ASTM D6163	I	S
	COLVENT 180 TG	ASTM D6164	I	S
	COLVENT Flam 180 TG	ASTM D6164	I	S
	SOPRALENE 180 PS 2.2	ASTM D6164	I	S
	SOPRALENE 180 PS 3.0	ASTM D6164	I	S
	SOPRALENE 180 Sanded	ASTM D6164	I	S
	SOPRALENE 180 Sanded 2.2	ASTM D6164	I	S
	SOPRALENE 180 SP 3.0	ASTM D6164	I	S
	SOPRALENE 180 SP 3.5	ASTM D6164	I	S
	SOPRALENE Flam 180	ASTM D6164	I	S
	SOPRALENE Flam Stick	ASTM D6164	I	S
	SOPRALENE Stick	ASTM D6164	I	S
SOPRALENE 250 Sanded	ASTM D6164	II	S	
SOPRALENE 250 SP	ASTM D6164	II	S	
SOPRALENE Flam 250	ASTM D6164	II	S	
VAPOR BARRIER CAP PLY MEMBRANES	ELASTOPHENE Flam HS FR GR	ASTM D6162	III	G
	ELASTOPHENE HS FR GR	ASTM D6162	III	G
	ELASTOPHENE Flam FR GR	ASTM D6163	I	G



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TABLE 1A: EVALUATED SOPREMA COMPONENTS
(NEMO Certified. Consult [Directory of Certified Products](#) for production location(s))

TYPE	PRODUCT	MATERIAL STANDARD		
	NAME	REFERENCE	TYPE	GRADE
	ELASTOPHENE Flam LS FR GR	ASTM D6163	I	G
	ELASTOPHENE FR GR	ASTM D6163	I	G
	ELASTOPHENE LS FR GR	ASTM D6163	I	G
	ELASTOPHENE Stick HR FR GR	ASTM D6163	II	G
	SOPRALENE 180 FR GR	ASTM D6164	I	G
	SOPRALENE Flam 180 FR GR	ASTM D6164	I	G
	SOPRALENE Flam 180 GR	ASTM D6164	I	G
VAPOR BARRIER MEMBRANES	SOPRAVAP'R	N/A	N/A	N/A

TABLE 1B: EVALUATED SOPREMA ACCESSORIES
(Contact contact@nemocert.com for production location(s) of non-Certified products)

TYPE	PRODUCT	MATERIAL STANDARD
ADHESIVES:	COLPLY Adhesive	ASTM D3019, Type III
	COLPLY EF Adhesive	N/A
	DUOTACK	N/A
	DUOTACK 365	N/A
	SENTINEL S Bonding Adhesive	N/A
	SENTINEL H2O Bonding Adhesive	N/A
	SENTINEL Spray Adhesive	N/A
INSULATION:	SOPRABOARD	N/A
	SOPRABOARD HS	N/A
	SOPRASMART Board 180	N/A
	SOPRASMART Board 180 Sanded	N/A
	SOPRASMART ISO HD 180	N/A
	SOPRASMART ISO HD 180 Sanded	N/A
	SOPRASMART XP HD 180	N/A
	SOPRASMART XP HD 180 Sanded	N/A
	SOPRASMART XP ISO 180	N/A
	SOPRASMART XP ISO 180 Sanded	N/A
	SOPRA XPS	ASTM C578
PRIMERS:	ELASTOCOL 500	ASTM D41
	ELASTOCOL Stick	N/A
	ELASTOCOL Stick LVOC	N/A
	ELASTOCOL Stick Zero	N/A



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TABLE 2: COMPONENTS BY OTHERS (4.1.4)

TYPE	SOPREMA	ACCEPTABLE ALTERNATE	FBC	NOA
ADHESIVES:	DUOTACK SPF HFO	Polysat Commercial Roofing Adhesive	FL1365	23-0614.01
	N/A	Trufast Roofing Adhesive	FL41878	24-0521.02
	N/A	Trufast Roofing Adhesive Tanks		
INSULATIONS:	SOPRA-ISO s	Derbiboard or ACFoam II	FL17989	24-1120.02
	SOPRA-ISO+ s	Derbiboard CA or ACFoam III	FL5968	24-1021.04
	SOPRA-ISO r	Derbiboard H or H-Shield		
	SOPRA-ISO+ r	H-Shield CG	FL4205	24-0610.04
	N/A	ENRGY 3		
	N/A	Multi-Max FA3	FL11207	22-0815.03
	N/A	Ultra-Max		
	N/A	Insulfoam II, VIII and IX	FL29563	24-1015.10
	N/A	DensDeck	FL1250	22-1223.04
	N/A	DensDeck Prime, DensDeck StormX Prime Roof Board or DensDeck ProFast Prime Roof Board		
	N/A	DEXcell FA Glass Mat Roof Board	FL17840	25-0722.11
	N/A	DEXcell Cement Roof Board		
	N/A	SECUROCK Gypsum-Fiber Roof Board	FL4264	21-0923.05
	N/A	SECUROCK Cement Roof Board		
	N/A	Celcore Cellular Concrete	FL2037	24-0906.02
	N/A	Concrecel Lightweight Insulating Concrete	FL5584	21-1229.06
	N/A	Elastizell Lightweight Insulating Concrete	None	23-0817.05
N/A	Mearlcrete	FL13492	24-0514.06	
N/A	NVS	N/A	23-1219.03	
MECHANICAL FASTENERS:	SOPREMA #12 Fastener	#12 Perlok Fastener or Dekfast DF-#12-PH3	FL20311	22-0913.02
	SOPREMA #14 Fastener	#14 Perlok Fastener or Dekfast DF-#14-PH3		
	SOPREMA #15-EL Fastener	Dekfast DF-#15-PH3		
	SOPRAFX 2 in. SB Stress Plate	Dekfast PTL-R-2-4B		
	SOPRAFX 2-3/8 in. SB Stress Plate	Dekfast PLT-R-2-3/8-6B		
	SOPREMA 3 in. Insulation Plate	Dekfast PLT-R-3		
	N/A	Dekfast PLT-H-2-7/8		
	Tri-Fixx Fastener and Stress Plate	N/A	FL4500	25-0129.08
	N/A	isoweld® F1-P-6.8-PVC Plate		
	SOPREMA #12 DP Fastener	Perlok #12 DP or Trufast #12 DP		
	SOPREMA #14 MP Fastener	Perlok #14 HD or Trufast #14 HD		
	SOPREMA #15 HD Fastener	Perlok #15 EHD or Trufast #15 EHD		
	N/A	Trufast 3/4" Concrete Spike		
	SOPREMA Versa-Fast Fastener	Perlok Versa-Fast Fastener or Trufast Versa-Fast Fastener		
	SOPREMA 2" Seam Plate	Perlok 2" Barbed Metal Seam Plate or Trufast 2" Barbed Metal Seam Plate		
	SOPREMA 2.4" Seam Plate	Trufast 2.4" Scoop Seam Plate		
	SOPREMA 3" Metal Insulation Plate	Perlok 3" Metal Insulation Plate or Trufast 3" Metal Insulation Plate		
SOPREMA Versa-Fast Plate	Perlok Versa-Fast Plate or Trufast Versa-Fast Plate			
SOPRAFX MBB	Trufast Flat Batten Bar			
SOPRAFX MBB-R	Trufast Recessed Batten Bar			
SOPREMA 1.2 in. Base Sheet Fastener	Perlok FM-75 Base Sheet Fastener or Trufast FM-75 Base Sheet Fastener			



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TABLE 2: COMPONENTS BY OTHERS (4.1.4)

TYPE	SOPREMA	ACCEPTABLE ALTERNATE	FBC	NOA
	SOPREMA 1.7 in. Base Sheet Fastener	Perlok FM-90 Base Sheet Fastener or Trufast FM-90 Base Sheet Fastener		
	SOPREMA Twin-Loc Nail	Perlok Twin Loc-Nail Assembled Fastener or Trufast Twin Loc-Nail Assembled Fastener		
	N/A	Trufast PVC IW Plate		
	N/A	OMG #12 Standard Roofgrip		
	N/A	OMG #14 Heavy Duty		
	N/A	OMG #15 Roofgrip Large Head		
	N/A	OMG CD-10		
	N/A	OMG Polymer GypTec Fastener		
	N/A	OMG 3" Galvalume Steel Plate	FL699	24-0627.03
	N/A	OMG AccuTrac Plate		
	N/A	OMG AccuTrac Flat Bottom		
	N/A	OMG Polymer GypTec Plate		
	N/A	OMG Polymer Batten Strip		
	N/A	OMG CR Assembled Base Sheet Fastener		
	N/A	RhinoBond Insulation Plate (PVC)		
	N/A	ACE #12 Fastener		
		ACE #14 Fastener		
	N/A	ACE #15 Fastener	FL41667	25-0402.11
	N/A	ACE 3" BE Insulation Plate		
	N/A	ACE 3" WW Insulation Plate		
PRIMERS:	N/A	Detec TruGround Conductive Primer	N/A	N/A



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3. INSTALLATION:

3.1 **SENTINEL® Roof Systems** shall be installed in accordance with **SOPREMA, Inc.** published installation instructions, subject to the [Limitations of Use](#) noted herein.

3.1.1 **Fasteners:** Unless otherwise noted, fasteners and stress plates shall be as follows. Recessed plates are not for use with hardboard (e.g., gypsum-based or cement) insulations. Fasteners shall be of sufficient length for the following engagements.

TABLE 3: FASTENER REFERENCES			
ROOF DECK	PARTS		FASTENER ENGAGEMENT
	FASTENERS	PLATES	
WOOD, ENGINEERED SHEATHING OR PLANK	SOPREMA #14 Fastener, SOPREMA #14 MP Fastener, Dekfast DF-#14-PH3 or Trufast #14 HD	SOPREMA 3 in. Insulation Plate, SOPREMA 3" Metal Insulation Plate, Dekfast PLT-H-2-7/8, Dekfast PLT-R-3 or Trufast 3" Metal Insulation Plate	Min. 0.75-inch penetration (engineered sheathing) or min. 1-inch embedment (plank)
	ACE #14 Fastener or ACE #15 Fastener	ACE 3" BE Insulation Plate or ACE 3" WW Insulation Plate	
	<i>Note: ACE parts are limited to use with polyisocyanurate insulation, SOPRABOARD, SOPRABOARD HS, DEXcell Cement Roof Board, SECUROCK Cement Roof Board, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board</i>		
	OMG #14 Heavy Duty	OMG 3 in. Galvalume Steel Plate or AccuTrac Flat Bottom	
STEEL	SOPREMA #12 Fastener, SOPREMA #14 Fastener, SOPREMA #12 DP Fastener, SOPREMA #14 MP Fastener, Dekfast DF-#12-PH3, Dekfast DF-#14-PH3, Trufast #12 DP, Trufast #14 HD or Trufast #15 EHD	SOPREMA 3 in. Insulation Plate, SOPREMA 3" Metal Insulation Plate, Dekfast PLT-R-3 or Trufast 3" Metal Insulation Plate	Min. 0.75-inch penetration
	ACE #12 Fastener, ACE #14 Fastener or ACE #15 Fastener	ACE 3" BE Insulation Plate or ACE 3" WW Insulation Plate	
	<i>Note: ACE parts are limited to use with polyisocyanurate insulation, SOPRABOARD, SOPRABOARD HS, DEXcell Cement Roof Board, SECUROCK Cement Roof Board, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board</i>		
	OMG #12 Standard Roofgrip or OMG #14 Heavy Duty	OMG 3 in. Galvalume Steel Plate, AccuTrac Plate or AccuTrac Flat Bottom	
STRUCTURAL CONCRETE	SOPREMA #14 Fastener, SOPREMA #14 MP Fastener, Dekfast DF-#14-PH3, Trufast #14 HD or Trufast 1/4" Concrete Spike	SOPREMA 3 in. Insulation Plate, SOPREMA 3" Metal Insulation Plate, Dekfast PLT-R-3 or Trufast 3" Metal Insulation Plate	Non-HVHZ: Min. 1-inch embedment HVHZ: Min. 1.25-inch embedment
	ACE #15 Fastener	ACE 3" BE Insulation Plate or ACE 3" WW Insulation Plate	
	<i>Note: ACE parts are limited to use with polyisocyanurate insulation, SOPRABOARD, SOPRABOARD HS, DEXcell Cement Roof Board, SECUROCK Cement Roof Board, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board</i>		
	OMG #14 Heavy Duty	OMG 3 in. Galvalume Steel Plate, AccuTrac Plate or AccuTrac Flat Bottom	
	OMG CD-10	OMG 3 in. Galvalume Steel Plate	

3.1.2 Insulation:

- (a) Unless otherwise noted, insulation may be any one layer or combination of Approved board(s) that meet IBC 1505, FBC 1505, or FBC HVHZ 1516 and, for foam plastic, IBC/FBC Chapter 26, when installed with the roof cover.
- (b) For Structural Concrete Deck or Recover Applications using System Type C-1 the base insulation layer is optional, and using System Type C-2, D-1 or D-2, the insulation is optional. Alternatively, an Approved insulation board or coverboard may be used as a separation layer. Board products shall be preliminarily attached prior to roof cover installation. The separator component shall be documented as meeting IBC 1505, FBC 1505 or FBC HVHZ 1516 and, for foam plastic, FBC Chapter 26, when installed with the roof cover in Recover applications.



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- (c) Minimum 200 psi, minimum 2-inch thick 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 applicable Code 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.
- (d) Lightweight insulating concrete (LWIC) shall be cast in accordance with FBC 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWIC is referenced, refer to current LWIC [Florida Product Approval](#) or [NOA](#) 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 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.
- (e) Unless otherwise noted, rigid board insulation or coverboard attachment patterns for Type B-1, B-2 and C-1 systems are as outlined below.

INSULATION ATTACHMENT PATTERNS – 4x4 FT BOARDS		
<p>1 per 4.0 ft² (4 per board)</p>	<p>1 per 3.2 ft² (5 per board)</p>	<p>1 per 2.7 ft² (6 per board)</p>
<p>1 per 2.0 ft² (8 per board)</p>	<p>1 per 1.8 ft² (9 per board)</p>	<p>1 per 1.6 ft² (10 per board)</p>
<p>1 per 1.3 ft² (12 per board)</p>		<p>1 per 1.0 ft² (16 per board)</p>



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INSULATION ATTACHMENT PATTERNS – 4x8 FT BOARDS			
<p>1 per 5.33 ft² (6 per board)</p>	<p>1 per 4.0 ft² (8 per board) - A</p>	<p>1 per 4.0 ft² (8 per board) - B</p>	<p>1 per 3.2 ft² (10 per board)</p>
<p>1 per 2.7 ft² (12 per board) - A</p>	<p>1 per 2.7 ft² (12 per board) - B</p>	<p>1 per 2.1 ft² (15 per board)</p>	<p>1 per 2.3 ft² (14 per board)</p>
<p>1 per 2.0 ft² (16 per board)</p>	<p>1 per 1.8 ft² (18 per board)</p>	<p>1 per 1.6 ft² (20 per board)</p>	<p>1 per 1.3 ft² (24 per board)</p>



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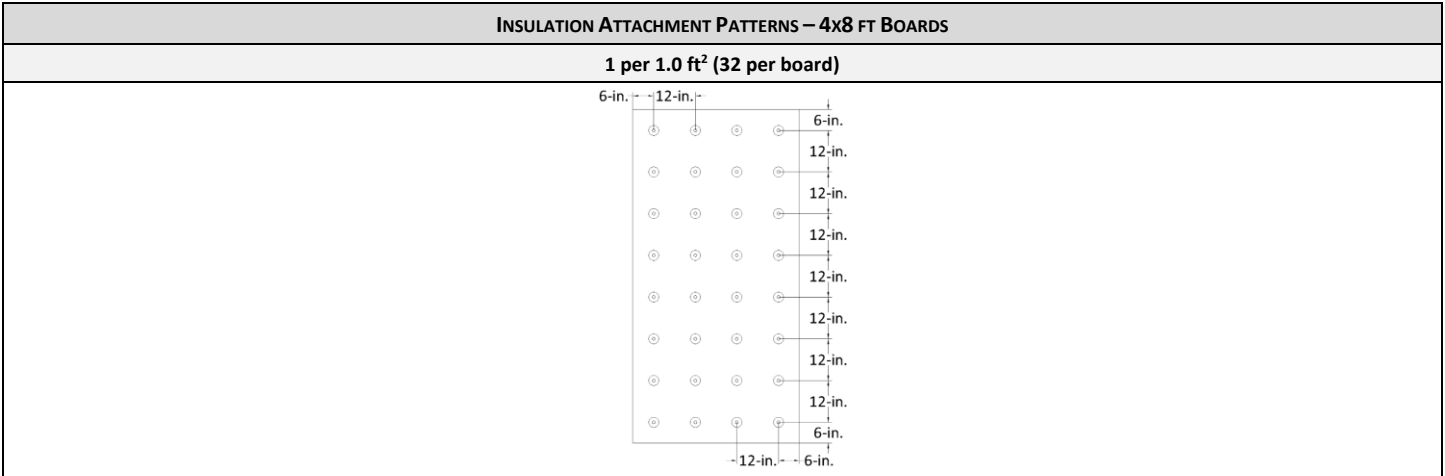
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(f) Preliminary insulation attachment for Type D-1 or D-2 systems:

- IBC or FBC Non-HVHZ: Unless otherwise noted, use Approved roofing fasteners and plates and refer to Section 2.2.10.1.3 of [FM Loss Prevention Data Sheet 1-29](#).
- FBC HVHZ: Unless otherwise noted, use FBC HVHZ Approved roofing fasteners and plates; minimum four fasteners per 4 x 8 ft board or minimum two fasteners per 4 x 4 ft board.

3.1.3 Insulation Adhesives:

(a) Unless otherwise noted, insulation adhesive application rate is continuous ribbons, maximum 12-inch o.c. Ribbons shall be applied and insulation boards shall be set in accordance with the manufacturer’s published instructions. When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, boards shall be staggered from layer-to-layer. 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. Concrete deck shall be primed with ASTM D41 primer prior to asphalt-application.

INSULATION ADHESIVE REFERENCES		
ADHESIVE	MINIMUM RATE	NOTE
DUOTACK	Continuous 0.5 to 0.75-inch wide ribbons, 12-inch o.c.	DUOTACK 365 may be used anywhere DUOTACK is referenced. When adhered using DUOTACK 365, min. 0.5-inch thick polyisocyanurate insulation may be substituted as the minimum thickness.
DUOTACK 365	Continuous 0.5 to 0.75-inch wide ribbons, 12-inch o.c.	
DUOTACK SPF HFO	Continuous 2.5-3.5 wide ribbons, 12-inch o.c.	
Trufast Roofing Adhesive	Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c.	
Trufast Roofing Adhesive Tanks	Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c.	
ASTM D312, Type IV asphalt	hot asphalt	Full-coverage at 25-30 lbs/square

(b) Unless otherwise noted, all adhered 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 for the selected systems; the lesser MDP applies.

MDP LIMITATIONS FOR TAPERED POLYISOCYANURATE INSULATIONS			
ADHESIVE	INSULATION	MIN. TAPERED THICKNESS (IN)	MDP (psf)
DUOTACK or DUOTACK 365	Any polyisocyanurate listed with adhesive herein	0.5	-157.5
DUOTACK 365, 12-inch o.c.	Any polyisocyanurate listed with adhesive herein	0.5	-459.5
DUOTACK 365, 4-inch o.c.	Any polyisocyanurate listed with adhesive herein	0.5	-485.0
DUOTACK SPF HFO, 12-inch o.c.	Any polyisocyanurate listed with adhesive herein	0.5	-485.0
DUOTACK SPF HFO, 4-inch o.c.	Any polyisocyanurate listed with adhesive herein	0.5	-745.0

(c) Adhered Insulation, Board Size:

- IBC and FBC Non-HVHZ: Unless otherwise noted, refer to Section 2.2.10.6.2 of [FM Loss Prevention Data Sheet 1-29](#).
- FBC HVHZ: Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.



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3.1.4 Roof Covers:

(a) For bonded membrane applications, unless otherwise noted, refer to the following.

MEMBRANE / ADHESIVE COMBINATIONS			
REFERENCE	LAYER	MATERIALS	APPLICATION
BB-PVC-SBA	Roof Cover:	SENTINEL P150 or P200	SENTINEL S Bonding Adhesive, contact application, 0.8 gal/square per side
BB-KEE-SBA	Roof Cover:	SENTINEL KEE P150 or KEE P200	
BB-PVC-H2O	Roof Cover:	SENTINEL P150 or P200	SENTINEL H2O Bonding Adhesive at 0.6 to 0.7 gal/square
BB-PVC-SPRAY	Roof Cover:	SENTINEL P150 or P200	SENTINEL Spray Adhesive, contact application, 2.5 to 3.0 lbs/square (finish)
BB-KEE-SPRAY	Roof Cover:	SENTINEL KEE P150 or KEE P200	
FB-H2O	Roof Cover or Cap Ply:	SENTINEL P150 HFB, P200 HFB, KEE P150 HFB or KEE P200 HFB	SENTINEL H2O Bonding Adhesive at 1.0 gal/square
FB-SPF-HFO	Roof Cover or Cap Ply:		DUOTACK SPF HFO 'spatter-applied' at 3.75 gal/sq.
FB-TRAT	Roof Cover or Cap Ply:	SENTINEL P150 HFB, P200 HFB, or KEE P150 HFB	Trufast Roofing Adhesive Tanks 'spatter-applied' at 3.0-4.0 lbs/sq.
Notes:	<i>For SENTINEL (bareback) applications in SENTINEL S Bonding Adhesive or SENTINEL (fleeceback) applications in DUOTACK SPF HFO over DEXcell FA Glass Mat Roof Board, the board may be optionally primed with Detec Systems "TruGround Conductive Primer", roller-applied at 0.4 gal/square prior to membrane installation.</i>		
SBS-CA2	Base Ply:	ELASTOPHENE HS Sanded, ELASTOPHENE Sanded 2.2, ELASTOPHENE Sanded 3.0, ELASTOPHENE PS 2.2 ⇄, ELASTOPHENE PS 3.0 ⇄, SOPRALENE 180 Sanded 2.2, SOPRALENE 180 Sanded, SOPRALENE 180 PS 2.2 ⇄, SOPRALENE 180 PS 3.0 ⇄, SOPRALENE 250 Sanded	0.5 to 1-inch wide ribbons COLPLY EF spaced as noted
SBS-CA3	VB Base Ply:	ELASTOPHENE HS Sanded, ELASTOPHENE Sanded 2.2, ELASTOPHENE Sanded 3.0, ELASTOPHENE PS 2.2 ⇄, ELASTOPHENE PS 3.0 ⇄, SOPRALENE 180 Sanded 2.2, SOPRALENE 180 Sanded, SOPRALENE 180 PS 2.2 ⇄, SOPRALENE 180 PS 3.0 ⇄, SOPRALENE 250 Sanded	COLPLY EF Adhesive at 1.5 – 2.5 gal/square
	VB Cap Ply:	ELASTOPHENE HS FR GR, ELASTOPHENE LS FR GR, ELASTOPHENE FR GR, SOPRALENE 180 FR GR	
SBS-CA4	VB Base Ply:	ELASTOPHENE HS Sanded, ELASTOPHENE Sanded 2.2, ELASTOPHENE Sanded 3.0, ELASTOPHENE PS 2.2 ⇄, ELASTOPHENE PS 3.0 ⇄, SOPRALENE 180 Sanded 2.2, SOPRALENE 180 Sanded, SOPRALENE 180 PS 2.2 ⇄, SOPRALENE 180 PS 3.0 ⇄, SOPRALENE 250 Sanded	COLPLY Adhesive at 1.5 - 2 gal/square
	VB Cap Ply:	ELASTOPHENE HS FR GR, ELASTOPHENE GR, ELASTOPHENE LS FR GR, ELASTOPHENE FR GR, SOPRALENE 180 FR GR	
BP-AA	VB Base Ply:	One or more MODIFIED SOPRA-G, SOPRA IV, SOPRA VI	Hot asphalt at 20-40 lbs/square
SBS-AA	VB Base Ply:	ELASTOPHENE HS Sanded, ELASTOPHENE Sanded 2.2, ELASTOPHENE Sanded 3.0, ELASTOPHENE PS 2.2 ⇄, ELASTOPHENE PS 3.0 ⇄, SOPRALENE 180 Sanded 2.2, SOPRALENE 180 Sanded, SOPRALENE 180 PS 2.2 ⇄, SOPRALENE 180 PS 3.0 ⇄, SOPRALENE 250 Sanded	
	VB Cap Ply:	ELASTOPHENE HS FR GR, ELASTOPHENE LS FR GR, ELASTOPHENE FR GR, SOPRALENE 180 FR GR	
SBS-TAP	VB Base Ply:	COLVENT 180 TG, COLVENT Flam 180 TG ⇄	Torch-applied, Partial Bond
SBS-TAF	Base Ply:	ELASTOPHENE Flam HS ⇄, ELASTOPHENE Flam 2.2 ⇄, ELASTOPHENE Flam 3.0 ⇄, ELASTOPHENE SP 2.2, ELASTOPHENE SP 3.0, SOPRALENE Flam 180 ⇄, SOPRALENE 180 SP 3.0, SOPRALENE 180 SP 3.5, SOPRALENE Flam 250 ⇄, SOPRALENE 250 SP 4.0	Torch-Applied, Full Bond
	VB Cap Ply:	ELASTOPHENE Flam HS FR GR, ELASTOPHENE Flam LS FR GR, ELASTOPHENE Flam FR GR, SOPRALENE Flam 180 GR, SOPRALENE Flam 180 FR GR	
SBS-SA1	Base Ply:	ELASTOPHENE Stick, SOPRALENE Stick, SOPRALENE Flam Stick ⇄	Self-Adhering, Full Bond
	VB Cap Ply:	ELASTOPHENE Stick HR FR GR	
Notes:	<p><i>Base / Ply membranes marked with an asterisk (⇄) have a poly-film top surface, and require installation of a torch-applied membrane overtop. DUOTACK SPF HFO shall not be applied to these poly-film top surfaces.</i></p> <p><i>Top surfaces of SOPREMA membranes having a sand finish shall be primed with ELASTOCOL 500, ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero at 1 gal/sq. (0.6 l/m²) prior to application of subsequent SBS-SA1 membranes.</i></p> <p><i>In SBS-CA3 or SBS-TAF applications over SOPRABOARD or SOPRABOARD HS, the SOPRABOARD or SOPRABOARD HS may be optionally primed with Detec Systems "TruGround Conductive Primer", roller-applied at 0.4 gal/square prior to membrane installation.</i></p> <p><i>The following products are interchangeable within the scope of this NER:</i></p>		
ACCEPTABLE ALTERNATES			
LISTED PRODUCT		ALTERNATE PRODUCT	
ELASTOPHENE Stick		Derbibase SA	
SOPRAPHIX BASE 611		SOPRAPHIX BASE 612, SOPRAPHIX BASE 613, SOPRAPHIX BASE 614, SOPRALENE FLAM 180, SOPRALENE FLAM 250	
SOPRAPHIX BASE 612		SOPRAPHIX BASE 614, SOPRALENE FLAM 180, SOPRALENE FLAM 250	
SOPRAPHIX BASE 613		SOPRAPHIX BASE 612, SOPRAPHIX BASE 614, SOPRALENE FLAM 180, SOPRALENE FLAM 250	
SOPRAPHIX BASE 614		SOPRALENE FLAM 250	
SOPRAPHIX BASE 622		SOPRALENE 180 Sanded, SOPRALENE 180 SP 3.0, SOPRALENE 180 SP 3.5, SOPRALENE 250 Sanded, SOPRALENE 250 SP 4.0	
SOPRALENE Stick		Derbibase SA Ultra	
SOPRAVAP'R		Derbistick SA	



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(b) SOPRAPHIX Installations:

For steel deck applications, SOPRAPHIX base sheet shall be run with its length perpendicular to the steel deck flutes.

SOPRAPHIX Base 611, SOPRAPHIX Base 612, SOPRAPHIX Base 613, SOPRAPHIX Base 614 and SOPRAPHIX Base 622 laps are heat or hot air welded. Welding is limited to hot air when using Polymer Batten Bars.

Insulation is required in New Construction or Re-Roof (Tear-Off), Steel Deck applications. Insulation is optional in New Construction or Re-Roof (Tear-Off), Wood, Structural Concrete or CWF applications or Recover applications. Insulation shall not be installed atop New Construction, Lightweight Insulating Concrete Decks.

Top layer of insulation shall be preliminarily attached.

(c) For single-ply membranes in System Type D-1 or E-1 steel deck applications, the roof membrane shall be run with its length perpendicular to the steel deck flutes

(d) For System Type C-2 (induction weld), care shall be taken to ensure that the plates do not line-up with membrane seams. This condition may preclude proper induction welding of the membrane to the plates.

3.1.5 Vapor Barriers:

(a) For System Types B-1, B-2, C-1, C-2, D-1 or D-2, an optional thermal barrier and/or SOPRAVAP'R vapor barrier membrane 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.

(b) Refer to [Section 4.3](#) herein for options where the vapor barrier forms part of the load path.



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4. LIMITATIONS OF USE:

4.1 General:

4.1.1 This is a building code evaluation. NEMO CERT, LLC is not, in any way, the Designer of Record for any project on which this NER, or previous versions thereof, is/was used for permitting or design guidance. NERs are not to be construed as representing any attributes not specifically listed, nor are NERs to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by NEMO CERT, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.

4.1.2 Roof Decks:

- (a) This NER pertains to above-deck roof components. Roof decks and structural members shall be in accordance with applicable Code requirements to the satisfaction of the Authority Having Jurisdiction.
- (b) OSB sheathing is not permitted in FBC HVHZ jurisdictions.
- (c) Unless otherwise noted, reference to 'structural concrete' pertains to min. 2,500 psi structural concrete, and excludes 'structural lightweight concrete'.
- (d) **FBC HVHZ Specific:** The table below lists various 'as-tested' deck conditions in accordance with [Testing Application Standard TAS 114\(J\)](#). In no case shall these values be used to 'increase' the MDP listings for the selected systems; the lesser MDP applies.

AS-TESTED DECK ATTACHMENT DETAILS (TAS 114, APPENDIX J)				
TYPE	AS TESTED SUB-ASSEMBLY			
	SPAN (INCH O.C.)	FASTENER	SPACING (INCH O.C.)	MDP (psf)
Min. 15/32-inch plywood	Span: 24 Blocking: 48	#10 x 3" screws	4	-67.5
Min. 19/32-inch plywood	24	8d ring shank nails	6	-52.5
Min. 19/32-inch plywood	24	#10 x 2.5" screws	6	-90.0
Min. 19/32-inch plywood	24	0.113" x 2-3/8" ring shank nails	6	-90.0
Min. 22 ga., Type B, Grade 33 steel	72	#12 HWH Teks 5	6	-82.5
Min. 22 ga., Type B, Grade 40 steel	72	5/8" puddle welds	6	-82.5
Min. 22 ga., Type B, Grade 40 steel	60	#12 HWH Teks 5	6	-90.0
Min. 22 ga., Type B, Grade 80 steel	72	#12 HWH Teks 5	6	-90.0
Min. 22 ga., Type B, Grade 40 steel	72	#12 HWH Teks 5 with 3/4" steel washers	6	-135.0
Min. 22 ga., Type B, Grade 80 steel	72	Two (2) #12 HWH Teks 5	6	-157.5
Min. 22 ga., Type B, Grade 33 steel	72	Two (2) #12 HWH Teks 5 with 3/4" steel washers	6	-217.5
Note:	Steel deck stress analysis is the responsibility of others to the satisfaction of the Authority Having Jurisdiction			

4.1.3 Fire Classification:

- (a) Refer to **IBC / FBC 1505, FBC HVHZ 1516, UL TGFU.R11436** and the fire classification certificate for the roof cover manufacturer for requirements and limitations regarding roof assembly fire classification.
- (b) Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.

4.1.4 Quality Assurance:

All components in the roof assembly shall have quality assurance surveillance in accordance with **F.A.C. Rule 61G20-3**. For components listed herein that are produced by a manufacturer other than the report holder on [Page 1](#) of this NER, refer to the supporting evidence held by the component manufacturer.



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4.2 Jurisdiction Specific:

IBC and FBC Non-HVHZ	FBC HVHZ
<p>4.2.1 This NER does not include evaluation of roof edge termination. Refer to 2018 IBC 1504.5, 2024 IBC 1504.6 or FBC 1504.5 for requirements and limitations regarding edge securement for low-slope roofs.</p> <p>4.2.2 Refer to 2018 IBC 1511, 2024 IBC 1512 or FBC 1511 for requirements and limitations regarding recover installations.</p> <p>(a) For mechanical attachment to existing roof decks, fasteners shall be tested 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 TAS 105.</p> <p>For systems using 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.</p> <p>(b) For adhered re-roof (tear off) installation, the existing substrate shall be examined for compatibility with the adhesive. If any surface conditions exist that bring system performance into question, field uplift testing in accordance with ANSI/SPRI IA-1, FM Loss Prevention Data Sheet 1-52 or TAS 124 shall be conducted on mock-ups of the proposed interface.</p> <p>(c) For adhered recover installation, the existing roof system shall meet project design pressure requirements on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with FM Loss Prevention Data Sheet 1-52 or TAS 124.</p>	<p>This NER does not include evaluation of roof edge termination. Refer to RAS 111 for requirements and limitations regarding edge securement for low-slope roofs.</p> <p>Refer to FBC HVHZ 1521 for requirements and limitations regarding recover installations.</p> <p>For mechanical attachment to existing roof decks, fasteners shall be tested 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 TAS 105.</p> <p>For adhered re-roof (tear off) installation, the existing substrate 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 TAS 124 shall be conducted on mock-ups of the proposed interface.</p> <p>For adhered recover installation, the existing roof system shall meet project design pressure requirements on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with TAS 124.</p>
<p>4.2.3 <u>Wind Load Resistance:</u></p> <p>(a) Refer to Section 4.3 for a tabulated summary of assembly listings and maximum allowable design pressures.</p> <p>(b) “MDP” = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per FBC 1504.9 has already been applied). Refer to IBC / FBC 1609 for determination of design wind loads.</p> <p>(c) The MDP for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with IBC / FBC Chapter 16. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD1, FM Loss Prevention Data Sheet 1-29, RAS 117 and 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.</p> <p>(d) For fully-adhered installations, the maximum design pressure for the selected assembly shall meet or exceed the critical design pressure. Rational analysis is not permitted.</p>	<p>“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 TAS 114 has already been applied). Refer to FBC HVHZ 1620 or RAS 128 for determination of design wind loads.</p> <p>Assemblies having a MDP < 45.0 psf are not permitted in FBC HVHZ jurisdictions. The MDP for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with FBC HVHZ 1620 or RAS 128. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Analysis shall be in accordance with RAS 117 or RAS 137.</p> <p>For assemblies marked with an asterisk*, the maximum design pressure (MDP) limitation shall be applicable to all roof pressure zones. Rational analysis is not permitted.</p>



4.3 System Listings and Allowable Design Pressures: See [Section 4.2.3](#)

4.3.1 **Thermal Barriers / Vapor Barriers:** The lesser of the MDP listings below vs. that for the selected roof assembly from [Section 4.3.2](#) applies.

(a) **Wood Decks:**

TABLE VB-1: WOOD DECK THERMAL BARRIER / VAPOR BARRIER FOLLOWED BY ADHERED INSULATION									
OPTION #	DECK (4.1.2)	THERMAL BARRIER			PRIMER	VAPOR BARRIER (3.1.4)		ADHESIVE PER TABLE 1A, 1B OR 2A (3.1.3)	MDP (psf)
		TYPE	FASTENER (4.2.2) OR ADHESIVE (3.1.3)	ATTACH (3.1.2e)		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	Versa-Fast Plate with minimum one (1) 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	Versa-Fast Plate with minimum one (1) 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	Versa-Fast Plate with minimum one (1) Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	(Optional) ELASTOCOL 500	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	Versa-Fast Plate with minimum one (1) Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	(Optional) ELASTOCOL 500	(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	Versa-Fast Plate with minimum one (1) Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R 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	Versa-Fast Plate with minimum one (1) Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	(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	Versa-Fast Plate with minimum one (1) 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*
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	Versa-Fast Plate with minimum one (1) 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*



TABLE VB-1: WOOD DECK									
THERMAL BARRIER / VAPOR BARRIER FOLLOWED BY ADHERED INSULATION									
OPTION #	DECK (4.1.2)	THERMAL BARRIER			PRIMER	VAPOR BARRIER (3.1.4)		ADHESIVE PER TABLE 1A, 1B OR 2A (3.1.3)	MDP (PSF)
		TYPE	FASTENER (4.2.2) OR ADHESIVE (3.1.3)	ATTACH (3.1.2e)		BASE PLY	CAP PLY (GRANULE)		
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	Versa-Fast Plate with minimum one (1) Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	(Optional) ELASTOCOL 500	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	Versa-Fast Plate with minimum one (1) Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	(Optional) ELASTOCOL 500	(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	Versa-Fast Plate with minimum one (1) Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R 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	Versa-Fast Plate with minimum one (1) Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 4.0 ft ²	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	(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.	Versa-Fast Plate with minimum one (1) 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.	Versa-Fast Plate with minimum one (1) 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.	Versa-Fast Plate with minimum one (1) Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 2.7 ft ²	(Optional) ELASTOCOL 500	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.	Versa-Fast Plate with minimum one (1) Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 2.7 ft ²	(Optional) ELASTOCOL 500	(Optional) SBS-AA or SBS-TAF	SBS-AA or SBS-TAF	DUOTACK 365	-45.0*



**TABLE VB-1: WOOD DECK
THERMAL BARRIER / VAPOR BARRIER FOLLOWED BY ADHERED INSULATION**

OPTION #	DECK (4.1.2)	THERMAL BARRIER			PRIMER	VAPOR BARRIER (3.1.4)		ADHESIVE PER TABLE 1A, 1B OR 2A (3.1.3)	MDP (psf)
		TYPE	FASTENER (4.2.2) OR ADHESIVE (3.1.3)	ATTACH (3.1.2e)		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.	Versa-Fast Plate with minimum one (1) Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 2.7 ft ²	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R 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.	Versa-Fast Plate with minimum one (1) Versa-Fast Fastener installed into the center-hole of the Versa-Fast Plate.	1 per 2.7 ft ²	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	(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.	SOPREMA #12 DP with SOPREMA 3" Metal Insulation 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.	SOPREMA #12 DP with SOPREMA 3" Metal Insulation 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.	SOPREMA #12 DP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	(Optional) ELASTOCOL 500	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.	SOPREMA #12 DP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	(Optional) ELASTOCOL 500	(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.	SOPREMA #12 DP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R 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.	SOPREMA #12 DP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-67.5



**TABLE VB-1: WOOD DECK
THERMAL BARRIER / VAPOR BARRIER FOLLOWED BY ADHERED INSULATION**

OPTION #	DECK (4.1.2)	THERMAL BARRIER			PRIMER	VAPOR BARRIER (3.1.4)		ADHESIVE PER TABLE 1A, 1B OR 2A (3.1.3)	MDP (PSE)
		TYPE	FASTENER (4.2.2) OR ADHESIVE (3.1.3)	ATTACH (3.1.2e)		BASE PLY	CAP PLY (GRANULE)		
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.	Versa-Fast Plate with minimum two (2) Versa-Fast Fasteners or SOPREMA #14 MP Fasteners 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.	Versa-Fast Plate with minimum two (2) Versa-Fast Fasteners or SOPREMA #14 MP Fasteners 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
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.	Versa-Fast Plate with minimum two (2) Versa-Fast Fasteners or SOPREMA #14 MP Fasteners installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	(Optional) ELASTOCOL 500	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.	Versa-Fast Plate with minimum two (2) Versa-Fast Fasteners or SOPREMA #14 MP Fasteners installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	(Optional) ELASTOCOL 500	(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.	Versa-Fast Plate with minimum two (2) Versa-Fast Fasteners or SOPREMA #14 MP Fasteners installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R 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.	Versa-Fast Plate with minimum two (2) Versa-Fast Fasteners or SOPREMA #14 MP Fasteners installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	(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.	Versa-Fast Plate with minimum one (1) SOPREMA #14 MP 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.	Versa-Fast Plate with minimum one (1) SOPREMA #14 MP 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.	Versa-Fast Plate with minimum one (1) SOPREMA #14 MP Fastener installed into the center hole of the Versa-Fast Plate	1 per 1.8 ft ²	(Optional) ELASTOCOL 500	SBS-AA or SBS-TAF (sanded top surface)	None	DUOTACK	-67.5



TABLE VB-1: WOOD DECK									
THERMAL BARRIER / VAPOR BARRIER FOLLOWED BY ADHERED INSULATION									
OPTION #	DECK (4.1.2)	THERMAL BARRIER			PRIMER	VAPOR BARRIER (3.1.4)		ADHESIVE PER TABLE 1A, 1B OR 2A (3.1.3)	MDP (PSE)
		TYPE	FASTENER (4.2.2) OR ADHESIVE (3.1.3)	ATTACH (3.1.2e)		BASE PLY	CAP PLY (GRANULE)		
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.	Versa-Fast Plate with minimum one (1) SOPREMA #14 MP Fastener installed into the center hole of the Versa-Fast Plate	1 per 1.8 ft ²	(Optional) ELASTOCOL 500	(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.	Versa-Fast Plate with minimum one (1) SOPREMA #14 MP Fastener installed into the center hole of the Versa-Fast Plate	1 per 1.8 ft ²	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R 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.	Versa-Fast Plate with minimum one (1) SOPREMA #14 MP Fastener installed into the center hole of the Versa-Fast Plate	1 per 1.8 ft ²	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-67.5
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.	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R 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.	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-105.0



(b) Steel Decks:

TABLE VB-2: STEEL DECK									
THERMAL BARRIER / VAPOR BARRIER FOLLOWED BY ADHERED INSULATION									
OPTION #	DECK (4.1.2)	THERMAL BARRIER			PRIMER	VAPOR BARRIER (3.1.4)		ADHESIVE PER TABLE 2A OR 2B (3.1.3)	MDP (psf)
		TYPE	FASTENER (4.2.2) OR ADHESIVE (3.1.3)	ATTACH (3.1.2E)		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	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	None	SBS-CA3, SBS-CA4 or SBS-AA (sanded top)	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	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation 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	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation 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	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	None	SBS-CA3 (sanded top)	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	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation 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	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	ELASTOCOL 500	SBS-TAF (sanded top)	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	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	ELASTOCOL 500	(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	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	None	SBS-TAF (sanded top)	None	DUOTACK	-45.0*



TABLE VB-2: STEEL DECK									
THERMAL BARRIER / VAPOR BARRIER FOLLOWED BY ADHERED INSULATION									
OPTION #	DECK (4.1.2)	THERMAL BARRIER			PRIMER	VAPOR BARRIER (3.1.4)		ADHESIVE PER TABLE 2A OR 2B (3.1.3)	MDP (psf)
		TYPE	FASTENER (4.2.2) OR ADHESIVE (3.1.3)	ATTACH (3.1.2e)		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	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation 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	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R or SBS-SA1 (sanded top)	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	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	(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	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R or SBS-SA1 (sanded top)	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	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	(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, ELASTOCOL Stick LVOC 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, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-45.0*



TABLE VB-2: STEEL DECK									
THERMAL BARRIER / VAPOR BARRIER FOLLOWED BY ADHERED INSULATION									
OPTION #	DECK (4.1.2)	THERMAL BARRIER			PRIMER	VAPOR BARRIER (3.1.4)		ADHESIVE PER TABLE 2A OR 2B (3.1.3)	MDP (psf)
		TYPE	FASTENER (4.2.2) OR ADHESIVE (3.1.3)	ATTACH (3.1.2e)		BASE PLY	CAP PLY (GRANULE)		
S-TB/VB-18.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch DEXCell Cement Roof Board	DUOTACK 365 or DUOTACK SPF HFO	12-inch o.c.	None	(Optional) SBS-CA3	SBS-CA3	DUOTACK 365 or DUOTACK SPF HFO	-45.0*
S-TB/VB-19.	Min. 22 ga., type B, Grade 33 steel	0.5-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	None	SBS-CA3 (sanded top)	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	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	None	SBS-TAF (sanded top)	None	DUOTACK	-75.0
S-TB/VB-21.	Min. 22 ga., type B, Grade 33 steel	0.5-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	None	(Optional) SBS-TAF	SBS-TAF	DUOTACK 365	-75.0
S-TB/VB-22.	Min. 22 ga., type B, Grade 40 steel	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	None	SBS-CA3, SBS-CA4 or SBS-AA (sanded top)	None	DUOTACK	-82.5
S-TB/VB-23.	Min. 22 ga., type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	None	SBS-AA (sanded top)	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	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	ELASTOCOL 500	SBS-TAF (sanded top)	None	DUOTACK	-82.5
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	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	ELASTOCOL 500	(Optional) SBS-TAF	SBS-TAF	DUOTACK 365	-82.5



TABLE VB-2: STEEL DECK									
THERMAL BARRIER / VAPOR BARRIER FOLLOWED BY ADHERED INSULATION									
OPTION #	DECK (4.1.2)	THERMAL BARRIER			PRIMER	VAPOR BARRIER (3.1.4)		ADHESIVE PER TABLE 2A OR 2B (3.1.3)	MDP (Psf)
		TYPE	FASTENER (4.2.2) OR ADHESIVE (3.1.3)	ATTACH (3.1.2e)		BASE PLY	CAP PLY (GRANULE)		
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	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R or SBS-SA1 (sanded top)	None	DUOTACK	-82.5
S-TB/VB-27.	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	SOPREMA #14 Fastener or SOPREMA #14 MP Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-82.5
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	SBS-AA or SBS-TAF (sanded top)	None	DUOTACK	-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.	None	(Optional) SBS-TAF	SBS-TAF	DUOTACK 365	-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.	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R or SBS-SA1 (sanded top)	None	DUOTACK	-127.5
S-TB/VB-31.	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.	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-127.5
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, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R or SBS-SA1 (sanded top surface)	None	DUOTACK SPF HFO	-75.0
S-TB/VB-33.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DensDeck Prime	DUOTACK SPF HFO	12-inch o.c.	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	(Optional) SBS-SA1	SBS-TAF	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.	None	SBS-AA or SBS-TAF (sanded top surface)	None	DUOTACK SPF HFO	-75.0
S-TB/VB-35.	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 LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R	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	SBS-TAF (sanded top surface)	None	DUOTACK SPF HFO	-75.0



TABLE VB-2: STEEL DECK									
THERMAL BARRIER / VAPOR BARRIER FOLLOWED BY ADHERED INSULATION									
OPTION #	DECK (4.1.2)	THERMAL BARRIER			PRIMER	VAPOR BARRIER (3.1.4)		ADHESIVE PER TABLE 2A OR 2B (3.1.3)	MDP (psf)
		TYPE	FASTENER (4.2.2) OR ADHESIVE (3.1.3)	ATTACH (3.1.2e)		BASE PLY	CAP PLY (GRANULE)		
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 500	(Optional) SBS-TAF	SBS-TAF	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 LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R	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, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SBS-SA1 (sanded top surface)	None	DUOTACK SPF HFO	-75.0
S-TB/VB-40.	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, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	(Optional) SBS-SA1	SBS-TAF	DUOTACK SPF HFO	-75.0
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, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R or SBS-SA1 (sanded top surface)	None	DUOTACK SPF HFO, 6-inch o.c.	-127.5
S-TB/VB-42.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DensDeck Prime	DUOTACK SPF HFO	6-inch o.c.	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	(Optional) SBS-SA1	SBS-TAF	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.	None	SBS-AA or SBS-TAF (sanded top surface)	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 DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	6-inch o.c.	ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R	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	SBS-TAF (sanded top surface)	None	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 500	(Optional) SBS-TAF	SBS-TAF	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 LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R	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, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SBS-SA1 (sanded top surface)	None	DUOTACK SPF HFO, 6-inch o.c.	-127.5



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TABLE VB-2: STEEL DECK									
THERMAL BARRIER / VAPOR BARRIER FOLLOWED BY ADHERED INSULATION									
OPTION #	DECK (4.1.2)	THERMAL BARRIER			PRIMER	VAPOR BARRIER (3.1.4)		ADHESIVE PER TABLE 2A OR 2B (3.1.3)	MDP (psf)
		TYPE	FASTENER (4.2.2) OR ADHESIVE (3.1.3)	ATTACH (3.1.2E)		BASE PLY	CAP PLY (GRANULE)		
S-TB/VB-49.	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, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	(Optional) SBS- SA1	SBS-TAF	DUOTACK SPF HFO, 6-inch o.c.	-127.5



(c) Structural Concrete Decks:

TABLE VB-3A: STRUCTURAL CONCRETE DECK VAPOR BARRIER FOLLOWED BY ADHERED INSULATION				
OPTION #	PRIMER	VAPOR BARRIER (3.1.4)	INSULATION ADHESIVE PER TABLE 3A (3.1.3)	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, ELASTOCOL 500	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.	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	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.	ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R, self-adhering	DUOTACK	-240.0
C-VB-12.	none	SBS-CA3 (sanded top surface)	DUOTACK	-255.0
C-VB-13.	ASTM D41, ELASTOCOL 500	SBS-CA3 (sanded top surface)	DUOTACK	-270.0
C-VB-14.	ASTM D41	SBS-AA (sanded top surface)	DUOTACK	-270.0
C-VB-15.	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SBS-SA1 (sanded top surface)	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.	ALSAN RS 222, ALSAN RS 276 or AQUAFIN VAPORTIGHT COAT-SG3	Base coat of ALSAN RS 230 applied at 3.9 gal/sq. followed by ALSAN RS Fleece into the wet base coat, and top coat of ALSAN RS 230 at 1.9 gal/sq., surfaced with ALSAN RS Quartz Aggregate to refusal. Remove loose aggregate prior to insulation adhesive placement.	DUOTACK 365	-382.5
C-VB-19.	ALSAN RS 222, ALSAN RS 276 or AQUAFIN VAPORTIGHT COAT-SG3	Base coat of ALSAN RS 230 applied at 3.9 gal/sq. followed by ALSAN RS Fleece into the wet base coat, and top coat of ALSAN RS 230 at 1.9 gal/sq., surfaced with ALSAN RS Quartz Aggregate to refusal. Remove loose aggregate prior to insulation adhesive placement.	DUOTACK 365, 6-inch o.c.	-445.0
C-VB-20.	ASTM D41	SBS-CA4 (granule top surface)	DUOTACK SPF HFO	-97.5
C-VB-21.	ASTM D41	SBS-CA4 (sanded top surface)	DUOTACK SPF HFO	-120.0
C-VB-22.	(Optional) ASTM D41, ELASTOCOL 500	SBS-CA3 (granule top surface)	DUOTACK SPF HFO	-195.0
C-VB-23.	ASTM D41	SBS-AA (granule top surface)	DUOTACK SPF HFO	-195.0
C-VB-24.	ASTM D41	SBS-TAF (granule top surface)	DUOTACK SPF HFO	-195.0
C-VB-25.	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SBS-SA1 (granule top surface)	DUOTACK SPF HFO	-195.0
C-VB-26.	(Optional) ASTM D41, ELASTOCOL 500	SBS-CA3 (sanded top surface)	DUOTACK SPF HFO	-222.5
C-VB-27.	ASTM D41	SBS-AA (sanded top surface)	DUOTACK SPF HFO	-222.5
C-VB-28.	ASTM D41	SBS-TAP or SBS-TAF (sanded top surface)	DUOTACK SPF HFO	-222.5



TABLE VB-3A: STRUCTURAL CONCRETE DECK VAPOR BARRIER FOLLOWED BY ADHERED INSULATION				
OPTION #	PRIMER	VAPOR BARRIER (3.1.4)	INSULATION ADHESIVE PER TABLE 3A (3.1.3)	MDP (PSF)
C-VB-29.	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SBS-SA1 (sanded top surface)	DUOTACK SPF HFO	-222.5
C-VB-30.	ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R, self-adhering	DUOTACK SPF HFO	-392.5
C-VB-31.	ASTM D41	SBS-AA (sanded top surface)	hot asphalt	-210.0
C-VB-32.	ASTM D41	SOPRA IV, SOPRA VI, MODIFIED SOPRA G applied in hot asphalt	hot asphalt	-270.0
C-VB-33.	none	SBS-CA2 (sanded-top-surface), ribbons 6-inch o.c.	hot asphalt	-367.5
C-VB-34.	ASTM D41	SBS-TAF (sanded top surface)	hot asphalt	-367.5

TABLE VB-3B: STRUCTURAL CONCRETE DECK 2-PLY VAPOR BARRIER FOLLOWED BY ADHERED INSULATION					
OPTION #	PRIMER	VAPOR BARRIER (3.1.4)		INSULATION ADHESIVE PER TABLE 3A (3.1.3)	MDP (PSF)
		BASE PLY	CAP PLY		
C-VB-35.	ASTM D41	SBS-CA4	SBS-CA4, SBS-AA or SBS-TAF (granule top surface)	DUOTACK	-97.5
C-VB-36.	ASTM D41	SBS-CA4	SBS-CA4 (sanded top surface)	DUOTACK	-120.0
C-VB-37.	none	SBS-CA2, ribbons 6-inch o.c.	SBS-CA3 or SBS-TAF (sanded- or granule-top-surface)	DUOTACK	-120.0
C-VB-38.	(Optional) ASTM D41, ELASTOCOL 500	SBS-CA3	SBS-CA3, SBS-CA4, SBS-AA, SBS-TAF or SBS-SA1 (granule top surface)	DUOTACK	-195.0
C-VB-39.	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-40.	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SBS-SA1	SBS-CA3, SBS-CA4, SBS-AA, SBS-TAF or SBS-SA1 (granule top surface)	DUOTACK	-195.0
C-VB-41.	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-42.	ASTM D41	SBS-TAF	SBS-TAF (sanded top surface)	DUOTACK	-232.5
C-VB-43.	None	SBS-CA3	SBS-CA3 (sanded top surface)	DUOTACK	-255.0
C-VB-44.	ASTM D41, ELASTOCOL 500	SBS-CA3	SBS-CA3 (sanded top surface)	DUOTACK	-270.0
C-VB-45.	ASTM D41	BP-AA	BP-AA	DUOTACK	-270.0
C-VB-46.	ASTM D41	SBS-AA	SBS-AA (sanded top surface)	DUOTACK	-270.0
C-VB-47.	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SBS-SA1	SBS-SA1 (sanded top surface)	DUOTACK	-315.0
C-VB-48.	ASTM D41	SBS-TAF	SBS-TAF (sanded top surface)	DUOTACK	-382.5
C-VB-49.	None	SBS-CA2, ribbons 6-inch o.c.	SBS-CA3 (sanded- or granule-top-surface)	DUOTACK, 6-inch o.c.	-382.5
C-VB-50.	None	SBS-CA2, ribbons 6-inch o.c.	SBS-TAF (sanded- or granule-top-surface)	DUOTACK, 6-inch o.c.	-445.0
C-VB-51.	ASTM D41	SBS-CA4	SBS-CA4, SBS-AA or SBS-TAF (granule top surface)	DUOTACK SPF HFO	-97.5
C-VB-52.	ASTM D41	SBS-CA4	SBS-CA4 (sanded top surface)	DUOTACK SPF HFO	-120.0
C-VB-53.	(Optional) ASTM D41, ELASTOCOL 500	SBS-CA3	SBS-CA3, SBS-CA4, SBS-AA, SBS-TAF or SBS-SA1 (granule top surface)	DUOTACK SPF HFO	-195.0
C-VB-54.	ASTM D41	SBS-AA	SBS-CA3, SBS-CA4, SBS-AA, SBS-TAF or SBS-SA1 (granule top surface)	DUOTACK SPF HFO	-195.0
C-VB-55.	ASTM D41	SBS-TAF	SBS-CA3, SBS-CA4, SBS-AA, SBS-TAF or SBS-SA1 (granule top surface)	DUOTACK SPF HFO	-195.0



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TABLE VB-3B: STRUCTURAL CONCRETE DECK 2-PLY VAPOR BARRIER FOLLOWED BY ADHERED INSULATION					
OPTION #	PRIMER	VAPOR BARRIER (3.1.4)		INSULATION ADHESIVE PER TABLE 3A (3.1.3)	MDP (PSF)
		BASE PLY	CAP PLY		
C-VB-56.	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SBS-SA1	SBS-CA3, SBS-CA4, SBS-AA, SBS-TAF or SBS-SA1 (granule top surface)	DUOTACK SPF HFO	-195.0
C-VB-57.	(Optional) ASTM D41, ELASTOCOL 500	SBS-CA3	SBS-CA3 (sanded top surface)	DUOTACK SPF HFO	-222.5
C-VB-58.	ASTM D41	SBS-AA	SBS-AA (sanded top surface)	DUOTACK SPF HFO	-222.5
C-VB-59.	ASTM D41	SBS-TAP or SBS-TAF	SBS-TAF (sanded top surface)	DUOTACK SPF HFO	-222.5
C-VB-60.	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SBS-SA1	SBS-SA1 (sanded top surface)	DUOTACK SPF HFO	-222.5
C-VB-61.	ASTM D41	BP-AA	BP-AA	DUOTACK SPF HFO	-262.5
C-VB-62.	ASTM D41	SBS-AA	SBS-AA (sanded top surface)	hot asphalt	-210.0
C-VB-63.	ASTM D41	BP-AA	BP-AA	hot asphalt	-270.0
C-VB-64.	none	SBS-CA2, ribbons 6-inch o.c.	SBS-CA3 or SBS-TAF (sanded-top-surface)	hot asphalt	-367.5
C-VB-65.	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 ELASTOCOL 500, ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero prior to application of self-adhering membranes.

TABLE VB-3C: STRUCTURAL CONCRETE DECK VAPOR BARRIER FOLLOWED BY ADHERED INSULATION								
OPTION #	PRIMER	SUBSTRATE BOARD			VAPOR BARRIER (3.1.4)		INSULATION ADHESIVE PER TABLE 3A (3.1.3)	MDP (PSF)
		TYPE	FASTENER (4.2.2) OR ADHESIVE (3.1.3)	ATTACH	BASE PLY	CAP PLY		
C-VB-66.	None	Min. 0.125-inch SOPRABOARD or SOPRABOARD HS	DUOTACK 365 or DUOTACK SPF HFO	ribbons 12-inch o.c.	SBS-CA3, SBS-AA, SBS-TAF	(Optional) SBS-CA3, SBS-AA, SBS-TAF	DUOTACK 365 or DUOTACK SPF HFO	-272.5



(d) Deck followed by Vapor Barrier followed by Lightweight Concrete (LWC):

TABLE VB-4: DECK FOLLOWED BY VAPOR BARRIER FOLLOWED BY LIGHTWEIGHT CONCRETE (LWC)								
OPTION #	DECK (4.1.2)	SUBSTRATE BOARD			PRIMER	VAPOR BARRIER (3.1.4)		MDP (psf)
		TYPE	FASTENER (4.2.2) OR ADHESIVE (3.1.3)	ATTACH		BASE PLY	CAP PLY	
LWC-VB-1.	Structural concrete	None	N/A	N/A	None	SBS-CA3 (sanded-top-surface)	None	-255.0
LWC-VB-2.	Structural concrete	None	N/A	N/A	None	(Optional) SBS-CA3	SBS-CA3 (sanded- or granule-top-surface)	-255.0
LWC-VB-3.	Structural concrete	None	N/A	N/A	ASTM D41, ELASTOCOL 500	SBS-CA3 (sanded-top-surface)	None	-270.0
LWC-VB-4.	Structural concrete	None	N/A	N/A	ASTM D41, ELASTOCOL 500	(Optional) SBS-CA3	SBS-CA3 (sanded- or granule-top-surface)	-270.0
LWC-VB-5.	Structural concrete	None	N/A	N/A	ASTM D41, ELASTOCOL 500	SBS-TAF (sanded-top-surface)	None	-367.5
LWC-VB-6.	Structural concrete	None	N/A	N/A	ASTM D41, ELASTOCOL 500	(Optional) SBS-TAF	SBS-TAF (sanded- or granule-top-surface)	-367.5
LWC-VB-7.	Structural concrete	None	N/A	N/A	None	SBS-CA2, ribbons 6-inch o.c.	SBS-CA3 (sanded- or granule-top-surface)	-382.5
LWC-VB-8.	Structural concrete	None	N/A	N/A	None	SBS-CA2 (sanded- or granule-top-surface), ribbons 6-inch o.c.	None	-445.0
LWC-VB-9.	Structural concrete	None	N/A	N/A	None	SBS-CA2, ribbons 6-inch o.c.	SBS-TAF (sanded- or granule-top-surface)	-445.0
CWF-VB-LWC-1.	Cementitious Wood Fiber	Min. 0.125-inch SOPRABOARD or SOPRABOARD HS	Twin Loc-Nail (1.8-inch)	1 per 1.8 ft ²	None	SBS-CA3, SBS-AA or SBS-TAF	(Optional) SBS-CA3, SBS-AA or SBS-TAF	-45.0*
CWF-VB-LWC-2.	Cementitious Wood Fiber	Min. 0.125-inch SOPRABOARD or SOPRABOARD HS	Twin Loc-Nail (1.8-inch)	1 per 1.0 ft ²	None	SBS-CA3, SBS-AA or SBS-TAF	(Optional) SBS-CA3, SBS-AA or SBS-TAF	-67.5
CWF-VB-LWC-3.	Cementitious Wood Fiber	Min. 0.125-inch SOPRABOARD or SOPRABOARD HS	DUOTACK 365 or DUOTACK SPF HFO	ribbons 6-inch o.c.	None	SBS-CA3, SBS-AA or SBS-TAF	(Optional) SBS-CA3, SBS-AA or SBS-TAF	-272.0
GYP-VB-LWC-1.	Existing gypsum	None	N/A	N/A	None	SBS-CA2, ribbons 6-inch o.c.	SBS-CA3 (sanded- or granule-top-surface)	-382.5
GYP-VB-LWC-2.	Existing gypsum	None	N/A	N/A	None	SBS-CA2 (sanded- or granule-top-surface), ribbons 6-inch o.c.	None	-445.0
GYP-VB-LWC-3.	Existing gypsum	None	N/A	N/A	None	SBS-CA2, ribbons 6-inch o.c.	SBS-TAF (sanded- or granule-top-surface)	-445.0



(e) Cementitious Wood Fiber Decks:

TABLE VB-5: CEMENTITIOUS WOOD FIBER DECK VAPOR BARRIER FOLLOWED BY ADHERED INSULATION							
OPTION #	SUBSTRATE BOARD			VAPOR BARRIER (3.1.4)		INSULATION ADHESIVE (3.1.3)	MDP (psf)
	TYPE	FASTENER (4.2.2) OR ADHESIVE (3.1.3)	ATTACH	BASE PLY	CAP PLY		
CWF-VB-1.	Min. 0.125-inch SOPRABOARD or SOPRABOARD HS	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 or SOPRABOARD HS	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 or SOPRABOARD HS	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
CWF-VB-4.	SOPRASMART Board 180 Sanded	DUOTACK 365 or DUOTACK SPF HFO	ribbons 6-inch o.c.	(Optional) 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	-272.5
CWF-VB-5.	SOPRASMART Board 180	DUOTACK 365 or DUOTACK SPF HFO	ribbons 6-inch o.c.	(Optional) SBS-TAF (with sanded-top-surface)	(Optional) SBS-CA3, SBS-AA or SBS-TAF	DUOTACK 365 or DUOTACK SPF HFO per Table 3A or 5A	-272.5
CWF-VB-6.	SOPRASMART Board 180	DUOTACK 365 or DUOTACK SPF HFO	ribbons 6-inch o.c.	SBS-TAF (film-top-surface)	SBS-TAF	DUOTACK 365 or DUOTACK SPF HFO per Table 3A or 5A	-272.5

(f) Existing Gypsum Decks:

TABLE VB-6: EXISTING GYPSUM DECK VAPOR BARRIER FOLLOWED BY ADHERED INSULATION				
OPTION #	VAPOR BARRIER (3.1.4)		INSULATION ADHESIVE PER TABLE 3A OR 6A (3.1.3)	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 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 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



4.3.2 Roof Assemblies:

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
1A	Wood	New or Reroof (Tear-Off)	A-1	Bonded Insulation(s), Bonded Roof Cover	32
1B	Wood	New, Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation(s), Bonded Roof Cover	34
1C	Wood	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	45
1D	Wood	New, Reroof (Tear-Off) or Recover	C-2	Mechanically Attached Insulation, Induction Welded Roof Cover	46
1E	Wood	New, Reroof (Tear-Off) or Recover	D-1	Prelim. Attached Insulation, Mechanically Attached Roof Cover	47
1F	Wood	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached SOPRAPHIX, Bonded Roof Cover	48
1G	Wood	New, Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mechanically Attached SOPRAPHIX, Bonded Roof Cover	49
2A	Steel	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	50
2B	Steel or structural concrete	New, Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	55
2C	Steel	Reroof (Tear-Off)	B-2	Mechanically Attached Barrier Board, Bonded Vapor Barrier, Bonded Insulation, Bonded Roof Cover	68
2D	Steel or structural concrete	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	69
2E	Steel	New, Reroof (Tear-Off) or Recover	C-2	Mechanically Attached Insulation, Induction Welded Roof Cover	75
2F	Steel	New, Reroof (Tear-Off) or Recover	D-1	Prelim. Attached Insulation, Mechanically Attached Roof Cover	78
2G	Steel	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached SOPRAPHIX, Bonded Roof Cover	79
3A	Structural concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	80
3B	Structural concrete	New, Reroof (Tear-Off) or Recover	C-2	Mechanically Attached Insulation, Induction Welded Roof Cover	86
3C	Structural concrete	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached SOPRAPHIX, Bonded Roof Cover	88
3D	Structural concrete	New, Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	88
4A	Deck with Lightweight concrete	New or Reroof (Tear-Off)	A-1	LWC to Structural Concrete Deck, Bonded Insulation, Bonded Roof Cover	89
4B	Deck with Lightweight Concrete	New, Reroof (Tear-Off)	A-1	LWC to Deck, Bonded Vapor Barrier, Bonded Insulation, Bonded Roof Cover	91
4C	Deck with Lightweight concrete	New, Reroof (Tear-Off) or Recover	D-1	Prelim. Attached Insulation, Mechanically Attached Roof Cover	92
4D	Deck with Lightweight concrete	New, Reroof (Tear-Off) or Recover	E-1	Non-Insulated, Mechanically Attached Roof Cover	93
4E	Deck with Lightweight Concrete	New, Reroof (Tear-Off)	E-2	LWC to Deck, Mechanically Attached SOPRAPHIX, Bonded Roof Cover	94
4F	Deck with Lightweight concrete	New or Reroof (Tear-Off)	E-2	LWC to Steel Deck, Mechanically Attached Base Sheet, Bonded Roof Cover	98
4G	Deck with Lightweight concrete	New or Reroof (Tear-Off)	F	LWC to Steel Deck, Non-Insulated, Bonded Roof Cover	100
4H	Deck with Lightweight concrete	New or Reroof (Tear-Off)	F	Thermal Barrier to Deck, Temp Roof to Thermal Barrier, LWC to Temp Roof, Bonded Roof Cover	101
4I	Deck with Lightweight concrete	New or Reroof (Tear-Off)	F	LWC to Structural Concrete Deck, Non-Insulated, Bonded Roof Cover	102
5A	Cementitious wood fiber	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	103
5B	Cementitious wood fiber	Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	106
5C	Cementitious wood fiber	Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	106
6A	Existing gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	106
6B	Existing gypsum	Reroof (Tear-Off)	D-2	Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	109
6C	Existing gypsum	Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached SOPRAPHIX, Bonded Roof Cover	110
6D	Existing gypsum	Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	110
6E	Existing gypsum	Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	110
7A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	111
7B	Existing LWIC or Gypsum	Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	116
7C	Existing LWIC or Gypsum	Reroof (Tear-Off) or Recover	C-1	Mech. Attached Insulation, Bonded Roof Cover	118
7D	Steel	Recover	C-2	Mechanically Attached Insulation, Induction Welded Roof Cover	118
7E	Existing LWIC or Gypsum	Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mechanically Attached SOPRAPHIX, Bonded Roof Cover	120
7F	Various	Recover	F	Non-Insulated, Bonded Roof Cover	120



TABLE 1A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
 REFER TO [TABLE VB-1](#) FOR THERMAL BARRIER / VAPOR BARRIER OPTIONS

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER		TOP INSULATION LAYER(S)		PRIMER	ROOF COVER (3.1.4)			MDP (psf)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)		BASE	PLY	CAP	
PVC BAREBACK MEMBRANE APPLICATIONS:										
W-1.	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 SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK 365, 12" o.c.	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK 365, 12" o.c.	None	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-52.5
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 SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK 365, 12" o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365, 12" o.c.	None	None	None	BB-PVC-SBA or BB-PVC-H2O	-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 SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK 365, 6" o.c.	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK 365, 6" o.c.	None	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-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. 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK 365, 6" o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365, 6" o.c.	None	None	None	BB-PVC-SBA or BB-PVC-H2O	-105.0
W-5.	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, ribbons 6" o.c.	None	N/A	None	None	None	BB-PVC-SBA or BB-PVC-H2O	-105.0
W-6.	APA rated, 19/32 CAT, 0.578 in., Exposure 1 OSB or min. 15/32" APA rated plywood	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK SPF HFO	Min. 0.25-in. DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-52.5
KEE BAREBACK MEMBRANE APPLICATIONS:										
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 SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK 365, 12" o.c.	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK 365, 12" o.c.	None	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-52.5
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. 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK 365, 6" o.c.	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK 365, 6" o.c.	None	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-105.0



TABLE 1A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
 REFER TO [TABLE VB-1](#) FOR THERMAL BARRIER / VAPOR BARRIER OPTIONS

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER		TOP INSULATION LAYER(S)		PRIMER	ROOF COVER (3.1.4)			MDP (PSE)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)		BASE	PLY	CAP	
W-9.	APA rated, 19/32 CAT, 0.578 in., Exposure 1 OSB or min. 15/32" APA rated plywood	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK SPF HFO	Min. 0.25-in. DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-52.5
FLEECEBACK MEMBRANE APPLICATIONS:										
W-10.	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 SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK 365, 12" o.c.	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK 365, 12" o.c.	None	None	None	FB-H2O or FB-SPF-HFO	-52.5
W-11.	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 SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK 365, 12" o.c.	Min. 0.125-inch SOPRABOARD, SOPRABOARD HS or min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365, 12" o.c.	None	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-52.5
W-12.	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 SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK 365, 6" o.c.	Min. 0.25-in. DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK 365, 6" o.c.	None	None	None	FB-H2O or FB-SPF-HFO	-105.0
W-13.	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 SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK 365, 6" o.c.	Min. 0.25-in. SOPRABOARD, SOPRABOARD HS, DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365, 6" o.c.	None	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-105.0
W-14.	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, ribbons 6" o.c.	None	N/A	None	None	None	FB-H2O or FB-SPF-HFO	-105.0
W-15.	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, ribbons 6" o.c.	None	N/A	None	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-105.0



TABLE 1A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
 REFER TO [TABLE VB-1](#) FOR THERMAL BARRIER / VAPOR BARRIER OPTIONS

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER		TOP INSULATION LAYER(S)		PRIMER	ROOF COVER (3.1.4)			MDP (psf)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)		BASE	PLY	CAP	
W-16.	APA rated, 19/32 CAT, 0.578 in., Exposure 1 OSB or min. 15/32" APA rated plywood	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK SPF HFO	Min. 0.25-in. DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	None	FB-H2O or FB-SPF-HFO	-52.5
W-17.	APA rated, 19/32 CAT, 0.578 in., Exposure 1 OSB or min. 15/32" APA rated plywood	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK SPF HFO	Min. 0.25-in. DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-52.5

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

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2e)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
PVC BAREBACK MEMBRANE APPLICATIONS:										
W-18.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s, ENRGY 3 or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-37.5*
W-19.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s, ENRGY 3 or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	None	None	BB-PVC-SBA	-37.5*
W-20.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-45.0*
W-21.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	None	None	BB-PVC-SBA or BB-PVC-H2O	-45.0*
W-22.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-52.5

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SOPREMA, Inc.

FL31780-R7



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PCA-145

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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2f)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
W-23.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-82.5
W-24.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP Fasteners with SOPREMA 3-in. Metal Insulation Plate	1 per 1.0 ft ²	Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK 365	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-105.0
W-25.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-37.5*
W-26.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	None	BB-PVC-SBA	-37.5*
W-27.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-45.0*
W-28.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	None	None	BB-PVC-SBA or BB-PVC-H2O	-45.0*
W-29.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-75.0
W-30.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	None	None	BB-PVC-SBA or BB-PVC-H2O	-75.0
W-31.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-82.5



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2f)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
W-32.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	None	None	BB-PVC-SBA or BB-PVC-H2O	-82.5
W-33.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-105.0
W-34.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	Additional layer(s), min. 2-inch base insulation followed by Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO, ribbons 6" o.c.	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-105.0
W-35.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	Additional optional layer(s), min. 2-inch base insulation followed by Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO, ribbons 6" o.c.	None	None	BB-PVC-SBA or BB-PVC-H2O	-105.0
W-36.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Trufast Roofing Adhesive	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-37.5*
W-37.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive	None	None	BB-PVC-SBA	-37.5*
W-38.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-45.0*
W-39.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	Trufast Roofing Adhesive	None	None	BB-PVC-SBA or BB-PVC-H2O	-45.0*
KEE BAREBACK MEMBRANE APPLICATIONS:										
W-40.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s, ENRGY 3 or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-37.5*



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

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (PSE)
		TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2f)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
W-41.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s, ENRGY 3 or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	None	None	BB-KEE-SBA	-37.5*
W-42.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-45.0*
W-43.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-52.5
W-44.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-82.5
W-45.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-37.5*
W-46.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	None	BB-KEE-SBA	-37.5*
W-47.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-45.0*
W-48.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-75.0
W-49.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Min. 0.25-inch DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-82.5



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

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2f)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
W-50.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	Min. 0.25-inch DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-105.0
W-51.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	Additional layer(s), min. 2-inch base insulation followed by Min. 0.25-inch DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO, ribbons 6" o.c.	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-105.0
W-52.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Trufast Roofing Adhesive	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-37.5*
W-53.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive	None	None	BB-KEE-SBA	-37.5*
W-54.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-45.0*
W-55.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP Fasteners with SOPREMA 3-in. Metal Insulation Plate	1 per 1.0 ft ²	Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK 365	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-105.0
W-56.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP Fasteners with SOPREMA 3-in. Metal Insulation Plate	1 per 1.0 ft ²	Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-105.0
FLEECEBACK MEMBRANE APPLICATIONS:										
W-57.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s, ENRGY 3 or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-SPF-HFO	-37.5*
W-58.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s, ENRGY 3 or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	None	None	FB-TRAT	-37.5*



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

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (PSE)
		TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2f)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
W-59.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-H2O or FB-SPF-HFO	-45.0*
W-60.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-SPF-HFO	-45.0*
W-61.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	None	None	FB-TRAT	-45.0*
W-62.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.125-inch SOPRABOARD, SOPRABOARD HS, Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0*
W-63.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by SOPRASMART Board 180 Sanded or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-SPF-HFO	-45.0*
W-64.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by SOPRASMART Board 180	DUOTACK	SBS-TA	None	FB-SPF-HFO	-45.0*
W-65.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Min. 1-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max; followed by min. 0.125-inch SOPRABOARD, SOPRABOARD HS, Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0*



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

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (PSF)
		TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2f)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
W-66.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Min. 1-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max; followed by SOPRASMART Board 180 Sanded or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-SPF-HFO	-45.0*
W-67.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Min. 1-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max; followed by SOPRASMART Board 180	DUOTACK	SBS-TAF	None	FB-SPF-HFO	-45.0*
W-68.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min 2-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.125-inch SOPRABOARD, Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0*
W-69.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min 2-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by SOPRASMART Board 180 Sanded or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-SPF-HFO	-45.0*
W-70.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min 2-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by SOPRASMART Board 180	DUOTACK	SBS-TA	None	FB-SPF-HFO	-45.0*
W-71.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-H2O or FB-SPF-HFO	-52.5
W-72.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-SPF-HFO	-52.5
W-73.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	None	None	FB-TRAT	-52.5



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (PSE)
		TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2f)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
W-74.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or SOPRA-ISO+ r	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	Additional layer(s) base insulation followed by min. 0.125-inch SOPRABOARD	DUOTACK	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-52.5
W-75.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or SOPRA-ISO+ r	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	Additional layer(s) base insulation followed by SOPRASMART Board 180 Sanded or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-SPF-HFO	-52.5
W-76.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or SOPRA-ISO+ r	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	Additional layer(s) base insulation followed by SOPRASMART Board 180	DUOTACK	SBS-TA	None	FB-SPF-HFO	-52.5
W-77.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or ENRGY 3	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-60.0
W-78.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	None	None	FB-TRAT	-60.0
W-79.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board, min. 0.4375-inch DEXcell Cement Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-H2O or FB-SPF-HFO	-82.5
W-80.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-SPF-HFO	-82.5
W-81.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min 2-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	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, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-82.5
W-82.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP Fasteners with SOPREMA 3-in. Metal Insulation Plate	1 per 1.0 ft ²	Min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK 365	None	None	FB-H2O or FB-SPF-HFO	-105.0



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

Table with 11 columns: SYSTEM NO., DECK (4.1.2), BASE INSULATION LAYER (TYPE, FASTENER (3.1.1, 4.2.2), ATTACH (3.1.2f)), TOP INSULATION LAYER(S) (TYPE, ATTACH (3.1.3)), ROOF COVER (3.1.4) (BASE, PLY, CAP), and MDP (psf). Rows W-83 through W-92 detail various deck configurations and their corresponding materials and requirements.



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (PSE)
		TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2f)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
W-93.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	FB-H2O or FB-SPF-HFO	-75.0
W-94.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-75.0
W-95.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	FB-H2O or FB-SPF-HFO	-82.5
W-96.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-82.5
W-97.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	FB-H2O or FB-SPF-HFO	-105.0
W-98.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-105.0
W-99.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	Additional layer(s), min. 2-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO, ribbons 6" o.c.	None	None	FB-H2O or FB-SPF-HFO	-105.0
W-100.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	Additional layer(s), min. 2-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO, ribbons 6" o.c.	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-105.0



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2f)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
W-101.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive	None	None	FB-SPF-HFO	-37.5*
W-102.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive	None	None	FB-TRAT	-37.5*
W-103.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	Trufast Roofing Adhesive	None	None	FB-H2O or FB-SPF-HFO	-45.0*
W-104.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive	None	None	FB-SPF-HFO	-45.0*
W-105.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive	None	None	FB-TRAT	-45.0*
W-106.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	Trufast Roofing Adhesive	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0*
W-107.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Min. 1-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max; followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	Trufast Roofing Adhesive	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0*
W-108.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min 2-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	Trufast Roofing Adhesive	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0*



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

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2e)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
W-109.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.33 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive Tanks	None	None	FB-TRAT	-60.0

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

SYSTEM NO.	DECK (4.1.2)	SLIP SHEET	BASE INSULATION AND/OR THERMAL BARRIER LAYER(S) (3.1.2, 4.2.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)			MDP (psf)
				TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2e)	BASE	PLY	CAP	
PVC BAREBACK MEMBRANE APPLICATIONS:										
W-110.	APA rated, 19/32 CAT, 0.578 in., Exposure 1, OSB sheathing; 2 ft span	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	(Optional) One or more layers, any combination, loose laid	0.5-inch DEXcell FA Glass Mat Roof Board	Versa-Fast Metal Plate with one (1) Versa-Fast Fastener installed into the center hole of the Versa-Fast Metal Plate	1 per 4.0 ft ²	None	None	BB-PVC-SBA or BB-PVC-H2O	-30.0*
W-111.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	(Optional) One or more layers, any combination, loose laid	0.5-inch DEXcell FA Glass Mat Roof Board	Versa-Fast Metal Plate with one (1) Versa-Fast Fastener installed into the center hole of the Versa-Fast Metal Plate	1 per 4.0 ft ²	None	None	BB-PVC-SBA or BB-PVC-H2O	-37.5*
W-112.	Min. 19/32-inch APA rated plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	(Optional) One or more layers, any combination, loose laid	0.25-inch DEXcell FA Glass Mat Roof Board	SOPREMA #15 HD Fastener with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ² (16 per 4x8 ft board)	None	None	BB-PVC-SBA or BB-PVC-H2O	-52.5
W-113.	Min. 15/32-inch APA rated BCX plywood; 2ft span & blocked 4 ft o.c.	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	(Optional) One or more layers, any combination, loose laid	2-inch Min 2-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	Versa-Fast Metal Plate with minimum two (2) Versa-Fast Fasteners or SOPREMA #14 MP Fasteners installed 180° into the holes of the Versa-Fast Metal Plate	1 per 1.8 ft ² (18 per 4x8 ft board)	None	None	BB-PVC-SBA or BB-PVC-H2O	-67.5
W-114.	Min. 19/32-inch APA rated plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	(Optional) One or more layers, any combination, loose laid	0.25-inch DEXcell FA Glass Mat Roof Board	SOPREMA #15 HD Fastener with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ² (18 per 4x8 ft board)	None	None	BB-PVC-SBA or BB-PVC-H2O	-67.5
KEE BAREBACK MEMBRANE APPLICATIONS:										
W-115.	Min. 15/32-inch APA rated BCX plywood; 2ft span & blocked 4 ft o.c.	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	(Optional) One or more layers, any combination, loose laid	2-inch Min 2-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	Versa-Fast Metal Plate with minimum two (2) Versa-Fast Fasteners or SOPREMA #14 MP Fasteners installed 180° into the holes of the Versa-Fast Metal Plate	1 per 1.8 ft ² (18 per 4x8 ft board)	None	None	BB-KEE-SBA	-67.5

FLEECEBACK MEMBRANE APPLICATIONS:



TABLE 1c: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER										
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER										
SYSTEM NO.	DECK (4.1.2)	SLIP SHEET	BASE INSULATION AND/OR THERMAL BARRIER LAYER(S) (3.1.2, 4.2.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)			MDP (PSF)
				TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2e)	BASE	PLY	CAP	
W-116.	APA rated, 19/32 CAT, 0.578 in., Exposure 1, OSB sheathing; 2 ft span	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	(Optional) One or more layers, any combination, loose laid	0.5-inch DEXcell FA Glass Mat Roof Board	Versa-Fast Metal Plate with one (1) Versa-Fast Fastener installed into the center hole of the Versa-Fast Metal Plate	1 per 4.0 ft ²	None	None	FB-H2O or FB-SPF-HFO	-30.0*
W-117.	Min. 19/32-inch APA rated CDX plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	(Optional) One or more layers, any combination, loose laid	0.5-inch DEXcell FA Glass Mat Roof Board	Versa-Fast Metal Plate with one (1) Versa-Fast Fastener installed into the center hole of the Versa-Fast Metal Plate	1 per 4.0 ft ²	None	None	FB-H2O or FB-SPF-HFO	-37.5*
W-118.	Min. 19/32-inch APA rated plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	(Optional) One or more layers, any combination, loose laid	0.25-inch DEXcell FA Glass Mat Roof Board	SOPREMA #15 HD Fastener with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ² (16 per 4x8 ft board)	None	None	FB-H2O or FB-SPF-HFO	-52.5
W-119.	Min. 19/32-inch APA rated plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	(Optional) One or more layers, any combination, loose laid	0.25-inch DEXcell FA Glass Mat Roof Board	SOPREMA #15 HD Fastener with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ² (16 per 4x8 ft board)	None	None	FB-SPF-HFO	-60.0
W-120.	Min. 15/32-inch APA rated BCX plywood; 2ft span & blocked 4 ft o.c.	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	(Optional) One or more layers, any combination, loose laid	2-inch Min 2-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	Versa-Fast Metal Plate with minimum two (2) Versa-Fast Fasteners or SOPREMA #14 MP Fasteners installed 180° into the holes of the Versa-Fast Metal Plate	1 per 1.8 ft ² (18 per 4x8 ft board)	None	None	FB-H2O or FB-SPF-HFO	-67.5
W-121.	Min. 19/32-inch APA rated plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	(Optional) One or more layers, any combination, loose laid	0.25-inch DEXcell FA Glass Mat Roof Board	SOPREMA #15 HD Fastener with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ² (18 per 4x8 ft board)	None	None	FB-H2O or FB-SPF-HFO	-67.5
W-122.	Min. 19/32-inch APA rated plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	(Optional) One or more layers, any combination, loose laid	0.25-inch DEXcell FA Glass Mat Roof Board	SOPREMA #15 HD Fastener with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ² (18 per 4x8 ft board)	None	None	FB-SPF-HFO	-75.0

TABLE 1d: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)						
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, INDUCTION WELDED ROOF COVER						
SYSTEM NO.	DECK (4.1.2)	INSULATION LAYER(S) (3.1.2, 4.2.2)	ATTACH		ROOF COVER (3.1.4d)	MDP (PSF)
			FASTENER (4.2.2)	DENSITY		
RHINO BOND INDUCTION WELD:						
W-123.	Min. 19/32-inch plywood; 2 ft span	(Optional) One or more layers, any combination; preliminarily attached	SOPREMA #14 MP with RhinoBond Insulation Plate (PVC)	Fastener 12-inch o.c. in rows spaced 72-inch o.c. positioned atop wood trusses; minimum 0.9-inch fastener embedment into trusses	SENTINEL P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-37.5



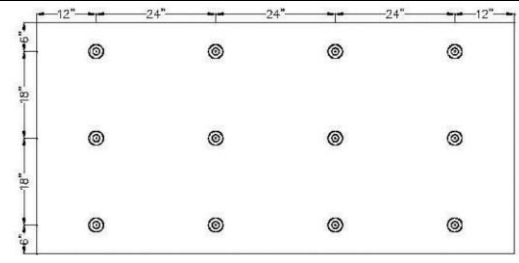
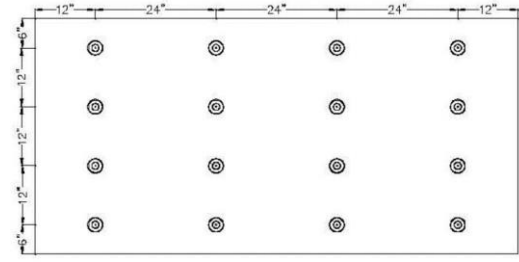
TABLE 1D: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)							
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, INDUCTION WELDED ROOF COVER							
SYSTEM NO.	DECK (4.1.2)	INSULATION LAYER(S) (3.1.2, 4.2.2)	ATTACH		ROOF COVER (3.1.4b)	MDP (PSF)	
			FASTENER (4.2.2)	DENSITY			
W-124.	Min. 19/32-inch plywood; 2 ft span	(Optional) One or more layers, any combination; preliminarily attached	SOPREMA #14 MP with RhinoBond Insulation Plate (PVC)	Fastener 18-inch o.c. in rows spaced 48-inch o.c. positioned atop wood trusses; minimum 0.9-inch fastener embedment into trusses	SENTINEL P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-37.5	
W-125.	Min. 19/32-inch plywood; 2 ft span	(Optional) One or more layers, any combination; preliminarily attached	SOPREMA #14 MP with RhinoBond Insulation Plate (PVC)	Fastener 12-inch o.c. in rows spaced 48-inch o.c. positioned atop wood trusses; minimum 0.9-inch fastener embedment into trusses	SENTINEL P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-52.5	
W-126.	Min. 19/32-inch plywood; 2 ft span	(Optional) One or more layers, any combination; preliminarily attached	SOPREMA #14 MP with RhinoBond Insulation Plate (PVC)	Fastener 6-inch o.c. in rows spaced 96-inch o.c. positioned atop wood trusses; minimum 0.9-inch fastener embedment into trusses	SENTINEL P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-60.0	
W-127.	Min. 19/32-inch plywood; 2 ft span	One or more layers, any combination; min. 1.5-inch, min. 16 psi	SOPREMA #14 MP with RhinoBond Insulation Plate (PVC)	1 per 2.7 ft ² (12 parts per 4 x 8 ft board; Fastener engage wood trusses, minimum 0.9-inch embedment)		SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-60.0
W-128.	Min. 19/32-inch plywood; 2 ft span	One or more layers, any combination; min. 1.5-inch, min. 16 psi	SOPREMA #14 MP with RhinoBond Insulation Plate (PVC)	1 per 2.0 ft ² (16 parts per 4 x 8 ft board; Fastener engage wood trusses, minimum 0.9-inch embedment)		SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-90.0

TABLE 1E: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)							
SYSTEM TYPE D-1: PRELIMINARILY ATTACHED INSULATION, MECHANICALLY ATTACHED ROOF COVER							
SYSTEM NO.	DECK (4.1.2)	INSULATION LAYER(S) (3.1.2, 4.2.2)		ROOF COVER (3.1.4c)			MDP (PSF)
		TYPE	ATTACH (3.1.2)	MEMBRANE	FASTENER (4.2.2)	ATTACH	
W-129.	Min. 19/32-inch APA rated CDX plywood; 32-inch span	0.5-inch Duro-Guard EPS Fan Fold and/or min. 1-inch SOPRA-ISO s, ENRGY 3 or SOPRA-ISO r	Prelim. attached	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate	12-inch o.c. within 6-inch wide laps spaced 54-inch o.c. Lap sealed with 1.5-inch heat weld	-30.0



TABLE 1E: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)							
SYSTEM TYPE D-1: PRELIMINARILY ATTACHED INSULATION, MECHANICALLY ATTACHED ROOF COVER							
SYSTEM NO.	DECK (4.1.2)	INSULATION LAYER(S) (3.1.2, 4.2.2)		ROOF COVER (3.1.4c)			MDP (psf)
		TYPE	ATTACH (3.1.2)	MEMBRANE	FASTENER (4.2.2)	ATTACH	
W-130.	Min. 19/32-inch APA rated CDX plywood; 32-inch span	0.5-inch Duro-Guard EPS Fan Fold and/or min. 1-inch SOPRA-ISO s, ENRGY 3 or SOPRA-ISO r	Prelim. attached	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Lap sealed with 1.5-inch heat weld	-37.5
W-131.	Min. 19/32-inch APA rated plywood; 2 ft span	Min. 1-inch SOPRA-ISO s and/or min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board and/or min. 0.5-inch Insulfoam R-Tech Fan Fold, ACfoam HD Coverboard, SOPRA-ISO r HD or SOPRA-ISO HD.	Prelim. attached	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Lap sealed with 1.5-inch heat weld	-45.0
W-132.	Min. 19/32-inch APA rated CDX plywood; 32-inch span	0.5-inch Duro-Guard EPS Fan Fold and/or min. 1-inch SOPRA-ISO s, ENRGY 3 or SOPRA-ISO r	Prelim. attached	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate	6-inch o.c. within 6-inch wide laps spaced 54-inch o.c. Lap sealed with 1.5-inch heat weld	-52.5
W-133.	Min. 19/32-inch APA rated plywood; 2 ft span	Min. 1-inch SOPRA-ISO s and/or min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board and/or min. 0.5-inch Insulfoam R-Tech Fan Fold, ACfoam HD Coverboard, SOPRA-ISO r HD or SOPRA-ISO HD.	Prelim. attached	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate	6-inch o.c. within 6-inch wide laps spaced 54-inch o.c. Lap sealed with 1.5-inch heat weld	-67.5

TABLE 1F: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER									
SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED SOPRAPHIX, BONDED ROOF COVER									
SYSTEM NO.	DECK (4.1.2)	SLIP SHEET	BASE INSULATION AND/OR THERMAL BARRIER LAYER(S) (3.1.2, 4.2.2)	BASE MEMBRANE			ROOF COVER (3.1.4)		MDP (psf)
				BASE	FASTENER (4.2.2)	ATTACH	PLY	CAP	
WITH FASTENER AND STRESS PLATE:									
W-134.	Min. 19/32-inch plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA G, loose laid	Any combination, prelim attach	SOPRAPHIX Base 622	SOPREMA #14 MP Fastener with Sopraflix 2-inch Seam Plate	18-inch o.c. within the 4-inch wide, heat-welded side laps	None	FB-SPF-HFO	-37.5*
W-135.	Min. 19/32-inch plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA G, loose laid	Any combination, prelim attach	SOPRAPHIX Base 611 or 612	SOPREMA #14 MP Fastener with Sopraflix 2-inch Seam Plate	18-inch o.c. within 4-inch wide, heat-welded laps	SBS-TAF	FB-SPF-HFO	-37.5*
W-136.	Min. 15/32-inch plywood or OSB; 2 ft span	(Optional) One or more layers MODIFIED SOPRA G, loose laid	Any combination, prelim attach	SOPRAPHIX Base 622	SOPREMA #14 MP Fastener with Sopraflix 2-inch Seam Plate	12-inch o.c. within the 4-inch wide, heat-welded side laps	None	FB-SPF-HFO	-45.0*
W-137.	Min. 15/32-inch plywood or OSB; 2 ft span	(Optional) One or more layers MODIFIED SOPRA G, loose laid	Any combination, prelim attach	SOPRAPHIX Base 611 or 612	SOPREMA #14 MP Fastener with Sopraflix 2-inch Seam Plate	12-inch o.c. within the 4-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-45.0*
W-138.	Min. 19/32-inch plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA G, loose laid	(Optional) Any combination, prelim attach	SOPRASMART Board 180 Sanded, SOPRASMART ISO HD 180 Sanded, SOPRASMART XP HD 180 Sanded or SOPRASMART XP ISO 180 Sanded	SOPREMA #14 MP Fastener with Sopraflix 2-inch Seam Plate	12-inch o.c. at the marked fastening line, sealed with the heat-welded, overlapping membrane from subsequent course	None	FB-SPF-HFO	-45.0



TABLE 1F: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER									
SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED SOPRAFX, BONDED ROOF COVER									
SYSTEM No.	DECK (4.1.2)	SLIP SHEET	BASE INSULATION AND/OR THERMAL BARRIER LAYER(S) (3.1.2, 4.2.2)	BASE MEMBRANE			ROOF COVER (3.1.4)		MDP (PSF)
				BASE	FASTENER (4.2.2)	ATTACH	PLY	CAP	
W-139.	Min. 19/32-inch plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA G, loose laid	(Optional) Any combination, prelim attach	SOPRASMART Board 180, SOPRASMART ISO HD 180, SOPRASMART XP HD 180, SOPRASMART XP ISO 180	SOPREMA #14 MP Fastener with Soprafix 2-inch Seam Plate	12-inch o.c. at the marked fastening line, sealed with the heat-welded, overlapping membrane from subsequent course	SBS-TAF	FB-SPF-HFO	-45.0
W-140.	Min. 19/32-inch plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA G, loose laid	Any combination, prelim attach	SOPRAFX Base 611 or 612	SOPREMA #14 MP Fastener with Soprafix 2-inch Seam Plate	12-inch o.c. within the 4-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-52.5
W-141.	Min. 19/32-inch plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA G, loose laid	(Optional) Any combination, prelim attach	SOPRASMART Board 180, SOPRASMART ISO HD 180, SOPRASMART XP HD 180, SOPRASMART XP ISO 180	SOPREMA #14 MP Fastener with Soprafix 2-inch Seam Plate	6-inch o.c. at the marked fastening line, sealed with the heat-welded, overlapping membrane from subsequent course	SBS-TAF	FB-SPF-HFO	-52.5
W-142.	Min. 19/32-inch plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA G, loose laid	Any combination, prelim attach	SOPRAFX Base 611 or 612	SOPREMA #14 MP Fastener with Soprafix 2-inch Seam Plate	6-inch o.c. within the 4-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-82.5
WITH FASTENER AND BATTEN BARS OR BATTEN STRIPS:									
W-143.	Min. 19/32-inch plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA G, loose laid	Any combination, prelim attach	SOPRAFX Base 614	SOPREMA #15 EL with SOPRAFX MBB-R	6-inch o.c. within 5-inch wide, heat-welded or self-adhering laps.	SBS-TAF	FB-SPF-HFO	-90.0

TABLE 1G: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER									
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED SOPRAFX, BONDED ROOF COVER									
SYSTEM No.	DECK (4.1.2)	SLIP SHEET	BASE MEMBRANE			ROOF COVER (3.1.4)		MDP (PSF)	
			BASE	FASTENER (4.2.2)	ATTACH	PLY	CAP		
WITH FASTENER AND STRESS PLATE:									
W-144.	Min. 19/32-inch plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA G, loose laid	SOPRAFX Base 622	SOPREMA #14 MP Fastener with Soprafix 2-inch Seam Plate	18-inch o.c. within the 4-inch wide, heat-welded side laps	None	FB-SPF-HFO	-37.5*	
W-145.	Min. 19/32-inch plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA G, loose laid	SOPRAFX Base 611 or 612	SOPREMA #14 MP Fastener with Soprafix 2-inch Seam Plate	18-inch o.c. within 4-inch wide, heat-welded laps	SBS-TAF	FB-SPF-HFO	-37.5*	
W-146.	Min. 15/32-inch plywood or OSB; 2 ft span	(Optional) One or more layers MODIFIED SOPRA G, loose laid	SOPRAFX Base 622	SOPREMA #14 MP Fastener with Soprafix 2-inch Seam Plate	12-inch o.c. within the 4-inch wide, heat-welded side laps	None	FB-SPF-HFO	-45.0*	
W-147.	Min. 15/32-inch plywood or OSB; 2 ft span	(Optional) One or more layers MODIFIED SOPRA G, loose laid	SOPRAFX Base 611 or 612	SOPREMA #14 MP Fastener with Soprafix 2-inch Seam Plate	12-inch o.c. within the 4-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-45.0*	
W-148.	Min. 19/32-inch plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA G, loose laid	SOPRAFX Base 611 or 612	SOPREMA #14 MP Fastener with Soprafix 2-inch Seam Plate	12-inch o.c. within the 4-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-52.5	



TABLE 1G: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER								
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED SOPRAFX, BONDED ROOF COVER								
SYSTEM No.	DECK (4.1.2)	SLIP SHEET	BASE MEMBRANE			ROOF COVER (3.1.4)		MDP (PSF)
			BASE	FASTENER (4.2.2)	ATTACH	PLY	CAP	
W-149.	Min. 19/32-inch plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA G, loose laid	SOPRAFX Base 611 or 612	SOPREMA #14 MP Fastener with Soprafix 2-inch Seam Plate	6-inch o.c. within the 4-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-82.5
WITH FASTENER AND BATTEN BARS OR BATTEN STRIPS:								
W-150.	Min. 19/32-inch plywood; 2 ft span	(Optional) One or more layers MODIFIED SOPRA G, loose laid	SOPRAFX Base 614	SOPREMA #15 EL with SOPRAFX MBB or MBB-R	6-inch o.c. within 5-inch wide, heat-welded laps.	SBS-TAF	FB-SPF-HFO	-90.0

TABLE 2A: STEEL DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)									
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER*									
REFER TO TABLE VB-2 FOR THERMAL BARRIER / VAPOR BARRIER COMBINATION OPTIONS									
SYSTEM No.	DECK (4.1.2)	THERMAL BARRIER		BASE INSULATION LAYER		TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)	MDP (PSF)*
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)		
PVC BAREBACK MEMBRANE APPLICATIONS:									
SC-1.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	TO DECK: DUOTACK 365, ribbons 6" o.c. (on each deck flange) TO THERMAL BARRIER: DUOTACK	(Optional) One or more layers, min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	BB-PVC-SBA or BB-PVC-H2O	-52.5
SC-2.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	TO DECK: DUOTACK 365, ribbons 6" o.c. (on each deck flange) TO THERMAL BARRIER: DUOTACK	(Optional) Min. 0.5-inch ACFoam Coverboard or H-Shield HD	DUOTACK	BB-PVC-SBA, BB-PVC-H2O, or BB-PVC-SPRAY	-52.5
SC-3.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	TO DECK: DUOTACK 365, ribbons 6" o.c. (on each deck flange) TO THERMAL BARRIER: DUOTACK	One or more layers, min. 1.5-inch SOPRA-ISO s or SOPRA-ISO r	DUOTACK	BB-PVC-SBA or BB-PVC-H2O	-82.5
SC-4.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	TO DECK: DUOTACK 365, ribbons 6" o.c. (on each deck flange) TO THERMAL BARRIER: DUOTACK	Additional optional layer(s), min. 1.5-inch SOPRA-ISO s, SOPRA-ISO r or Multi-Max FA3 followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ACFoam Coverboard or H-Shield HD	DUOTACK	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-82.5
SC-5.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	TO DECK: DUOTACK 365, ribbons 6" o.c. (on each deck flange) TO THERMAL BARRIER: DUOTACK	Additional optional layer(s), min. 1.5-inch SOPRA-ISO s, SOPRA-ISO r or Multi-Max FA3 followed by min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	BB-PVC-SBA or BB-PVC-H2O	-82.5



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

REFER TO [TABLE VB-2](#) FOR THERMAL BARRIER / VAPOR BARRIER COMBINATION OPTIONS

SYSTEM No.	DECK (4.1.2)	THERMAL BARRIER		BASE INSULATION LAYER		TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)	MDP (PSF)*
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)		
SC-6.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	TO DECK: DUOTACK 365, ribbons 6" o.c. (on each deck flange) TO THERMAL BARRIER: DUOTACK	Min. 0.5-inch ACfoam Coverboard or H-Shield HD	DUOTACK	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-82.5
SC-7.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO+ s or Ultra-Max	DUOTACK 365, ribbons 6" o.c.	(Optional) Additional layer(s) of base insulation	DUOTACK 365, ribbons 6" o.c.	BB-PVC-SBA	-120.0
SC-8.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO+ s or Ultra-Max	DUOTACK 365, ribbons 6" o.c.	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK 365, ribbons 6" o.c.	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-120.0
SC-9.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO+ s or Ultra-Max	DUOTACK 365, ribbons 6" o.c.	Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK 365, ribbons 6" o.c.	BB-PVC-SBA or BB-PVC-H2O	-120.0
SC-10.	22 ga., Type B, Grade 40 steel	(Optional) Min. 0.5-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Cement Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO, ribbons 12" o.c. (on every-other deck flange)	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ r, Ultra-Max, Insulfoam IX Roofing EPS or SOPRA-XPS	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-75.0
SC-11.	22 ga., Type B, Grade 40 steel	(Optional) Min. 0.5-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Cement Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO, ribbons 12" o.c. (on every-other deck flange)	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ r, Ultra-Max, Insulfoam IX Roofing EPS or SOPRA-XPS	DUOTACK SPF HFO	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	BB-PVC-SBA or BB-PVC-H2O	-75.0
SC-12.	22 ga., Type B, Grade 80 steel	(Optional) Min. 0.5-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Cement Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO, ribbons 6" o.c. (on each deck flange)	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ r, Ultra-Max, Insulfoam IX Roofing EPS or SOPRA-XPS	DUOTACK SPF HFO, ribbons 6" o.c.	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO, ribbons 6" o.c.	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-127.5



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

REFER TO [TABLE VB-2](#) FOR THERMAL BARRIER / VAPOR BARRIER COMBINATION OPTIONS

SYSTEM No.	DECK (4.1.2)	THERMAL BARRIER		BASE INSULATION LAYER		TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)	MDP (PSF)*
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)		
SC-13.	22 ga., Type B, Grade 80 steel	(Optional) Min. 0.5-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Cement Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO, ribbons 6" o.c. (on each deck flange)	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ r, Ultra-Max, Insulfoam IX Roofing EPS or SOPRA-XPS	DUOTACK SPF HFO, ribbons 6" o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO, ribbons 6" o.c.	BB-PVC-SBA or BB-PVC-H2O	-127.5
KEE BAREBACK MEMBRANE APPLICATIONS:									
SC-14.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	TO DECK: DUOTACK 365, ribbons 6" o.c. (on each deck flange) TO THERMAL BARRIER: DUOTACK	(Optional) One or more layers, min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	BB-KEE-SBA	-52.5
SC-15.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	TO DECK: DUOTACK 365, ribbons 6" o.c. (on each deck flange) TO THERMAL BARRIER: DUOTACK	(Optional) Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	BB-KEE-SBA or BB-KEE-SPRAY	-52.5
SC-16.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	TO DECK: DUOTACK 365, ribbons 6" o.c. (on each deck flange) TO THERMAL BARRIER: DUOTACK	One or more layers, min. 1.5-inch SOPRA-ISO s or SOPRA-ISO r	DUOTACK	BB-KEE-SBA	-82.5
SC-17.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	TO DECK: DUOTACK 365, ribbons 6" o.c. (on each deck flange) TO THERMAL BARRIER: DUOTACK	Additional optional layer(s), min. 1.5-inch SOPRA-ISO s, SOPRA-ISO r or Multi-Max FA3 followed by min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	BB-KEE-SBA or BB-KEE-SPRAY	-82.5
SC-18.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	TO DECK: DUOTACK 365, ribbons 6" o.c. (on each deck flange) TO THERMAL BARRIER: DUOTACK	Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	BB-KEE-SBA or BB-KEE-SPRAY	-82.5



TABLE 2A: STEEL DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER*

REFER TO TABLE VB-2 FOR THERMAL BARRIER / VAPOR BARRIER COMBINATION OPTIONS

SYSTEM No.	DECK (4.1.2)	THERMAL BARRIER		BASE INSULATION LAYER		TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)	MDP (PSF)*
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)		
SC-19.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO+ s or Ultra-Max	DUOTACK 365, ribbons 6" o.c.	(Optional) Additional layer(s) of base insulation	DUOTACK 365, ribbons 6" o.c.	BB-KEE-SBA	-120.0
SC-20.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO+ s or Ultra-Max	DUOTACK 365, ribbons 6" o.c.	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK 365, ribbons 6" o.c.	BB-KEE-SBA or BB-KEE-SPRAY	-120.0
SC-21.	22 ga., Type B, Grade 40 steel	(Optional) Min. 0.5-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Cement Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO, ribbons 12" o.c. (on every-other deck flange)	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ r, Ultra-Max, Insulfoam IX Roofing EPS or SOPRA-XPS	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	BB-KEE-SBA or BB-KEE-SPRAY	-75.0
SC-22.	22 ga., Type B, Grade 80 steel	(Optional) Min. 0.5-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Cement Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO, ribbons 6" o.c. (on each deck flange)	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ r, Ultra-Max, Insulfoam IX Roofing EPS or SOPRA-XPS	DUOTACK SPF HFO, ribbons 6" o.c.	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO, ribbons 6" o.c.	BB-KEE-SBA or BB-KEE-SPRAY	-127.5
FLEECEBACK MEMBRANE APPLICATIONS:									
SC-23.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	TO DECK: DUOTACK 365, ribbons 6" o.c. (on each deck flange) TO THERMAL BARRIER: DUOTACK	(Optional) One or more layers, min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	FB-H2O	-52.5
SC-24.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	TO DECK: DUOTACK 365, ribbons 6" o.c. (on each deck flange) TO THERMAL BARRIER: DUOTACK	(Optional) Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	FB-H2O or FB-SPF-HFO	-52.5
SC-25.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	TO DECK: DUOTACK 365, ribbons 6" o.c. (on each deck flange) TO THERMAL BARRIER: DUOTACK	One or more layers, min. 1.5-inch SOPRA-ISO s or SOPRA-ISO r	DUOTACK	FB-H2O	-82.5



TABLE 2A: STEEL DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER*

REFER TO [TABLE VB-2](#) FOR THERMAL BARRIER / VAPOR BARRIER COMBINATION OPTIONS

SYSTEM No.	DECK (4.1.2)	THERMAL BARRIER		BASE INSULATION LAYER		TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)	MDP (PSF)*
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)		
SC-26.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	TO DECK: DUOTACK 365, ribbons 6" o.c. (on each deck flange) TO THERMAL BARRIER: DUOTACK	Additional optional layer(s), min. 1.5-inch SOPRA-ISO s, SOPRA-ISO r or Multi-Max FA3 followed by min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	FB-H2O or FB-SPF-HFO	-82.5
SC-27.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	TO DECK: DUOTACK 365, ribbons 6" o.c. (on each deck flange) TO THERMAL BARRIER: DUOTACK	Min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	FB-H2O or FB-SPF-HFO	-82.5
SC-28.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	TO DECK: DUOTACK 365, ribbons 6" o.c. (on each deck flange) TO THERMAL BARRIER: DUOTACK	Min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK 365	FB-H2O or FB-SPF-HFO	-97.5
SC-29.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO+ s or Ultra-Max	DUOTACK 365, ribbons 6" o.c.	(Optional) Additional layer(s) of base insulation	DUOTACK 365, ribbons 6" o.c.	FB-H2O	-120.0
SC-30.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO+ s or Ultra-Max	DUOTACK 365, ribbons 6" o.c.	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK 365, ribbons 6" o.c.	FB-H2O or FB-SPF-HFO	-120.0
SC-31.	22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c. (on each deck flange)	Min. 2-inch SOPRA-ISO+ s or Ultra-Max	DUOTACK 365, ribbons 6" o.c.	Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK 365, ribbons 6" o.c.	FB-H2O or FB-SPF-HFO	-120.0



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

REFER TO [TABLE VB-2](#) FOR THERMAL BARRIER / VAPOR BARRIER COMBINATION OPTIONS

SYSTEM No.	DECK (4.1.2)	THERMAL BARRIER		BASE INSULATION LAYER		TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)	MDP (psf)*
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)		
SC-32.	22 ga., Type B, Grade 40 steel	(Optional) Min. 0.5-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Cement Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO, ribbons 12" o.c. (on every-other deck flange)	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ r, Ultra-Max, Insulfoam IX Roofing EPS or SOPRA-XPS	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	FB-H2O or FB-SPF-HFO	-75.0
SC-33.	22 ga., Type B, Grade 80 steel	(Optional) Min. 0.5-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Cement Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO, ribbons 6" o.c. (on each deck flange)	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ r, Ultra-Max, Insulfoam IX Roofing EPS or SOPRA-XPS	DUOTACK SPF HFO, ribbons 6" o.c.	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO, ribbons 6" o.c.	FB-H2O or FB-SPF-HFO	-127.5

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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	FASTENER (4.2.2)	ATTACH (3.1.2E)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
PVC BAREBACK MEMBRANE APPLICATIONS:										
SC-34.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s, ENRGY 3 or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-37.5*
SC-35.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s, ENRGY 3 or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	None	None	BB-PVC-SBA	-37.5*
SC-36.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-45.0*



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	FASTENER (4.2.2)	ATTACH (3.1.2e)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
SC-37.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	None	None	BB-PVC-SBA or BB-PVC-H2O	-45.0*
SC-38.	22 ga., Type B, Grade 40 steel; 6 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-52.5
SC-39.	22 ga., Type B, Grade 40 steel; 6 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-82.5
SC-40.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-37.5*
SC-41.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	None	BB-PVC-SBA	-37.5*
SC-42.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-45.0*
SC-43.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	None	None	BB-PVC-SBA or BB-PVC-H2O	-45.0*
SC-44.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-75.0



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	FASTENER (4.2.2)	ATTACH (3.1.2e)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
SC-45.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	None	None	BB-PVC-SBA or BB-PVC-H2O	-75.0
SC-46.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-82.5
SC-47.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	None	None	BB-PVC-SBA or BB-PVC-H2O	-82.5
SC-48.	Min. 22 ga., Type B, Grade 40 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-105.0
SC-49.	Min. 22 ga., Type B, Grade 40 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	Additional layer(s), min. 2-inch base insulation followed by Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO, ribbons 6" o.c.	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-105.0
SC-50.	Min. 22 ga., Type B, Grade 40 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	Additional optional layer(s), min. 2-inch base insulation followed by Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO, ribbons 6" o.c.	None	None	BB-PVC-SBA or BB-PVC-H2O	-105.0
SC-51.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Trufast Roofing Adhesive	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-37.5*
SC-52.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive	None	None	BB-PVC-SBA	-37.5*



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	FASTENER (4.2.2)	ATTACH (3.1.2e)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
SC-53.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-45.0*
SC-54.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	Trufast Roofing Adhesive	None	None	BB-PVC-SBA or BB-PVC-H2O	-45.0*
KEE BAREBACK MEMBRANE APPLICATIONS:										
SC-55.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s, ENRGY 3 or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-37.5*
SC-56.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s, ENRGY 3 or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	None	None	BB-KEE-SBA	-37.5*
SC-57.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-45.0*
SC-58.	22 ga., Type B, Grade 40 steel; 6 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-52.5
SC-59.	22 ga., Type B, Grade 40 steel; 6 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-82.5
SC-60.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-37.5*



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

Table with 11 columns: SYSTEM NO., DECK (4.1.2), BASE INSULATION LAYER (TYPE, FASTENER (4.2.2), ATTACH (3.1.2)), TOP INSULATION LAYER(S) (TYPE, ATTACH (3.1.3)), ROOF COVER (3.1.4) (BASE, PLY, CAP), and MDP (psf). Rows SC-61 through SC-69 detail various construction systems with their respective materials and load capacities.



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	FASTENER (4.2.2)	ATTACH (3.1.2e)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
FLEECEBACK MEMBRANE APPLICATIONS:										
SC-70.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s, ENRGY 3 or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-SPF-HFO	-37.5*
SC-71.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s, ENRGY 3 or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	None	None	FB-TRAT	-37.5*
SC-72.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-H2O or FB-SPF-HFO	-45.0*
SC-73.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-SPF-HFO	-45.0*
SC-74.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	None	None	FB-TRAT	-45.0*
SC-75.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.125-inch SOPRABOARD, SOPRABOARD HS, Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0*
SC-76.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by SOPRASMART Board 180 Sanded or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-SPF-HFO	-45.0*



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	FASTENER (4.2.2)	ATTACH (3.1.2f)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
SC-77.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by SOPRASMART Board 180	DUOTACK	SBS-TA	None	FB-SPF-HFO	-45.0*
SC-78.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Min. 1-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max; followed by min. 0.125-inch SOPRABOARD, SOPRABOARD HS, Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0*
SC-79.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Min. 1-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max; followed by SOPRASMART Board 180 Sanded or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-SPF-HFO	-45.0*
SC-80.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Min. 1-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max; followed by SOPRASMART Board 180	DUOTACK	SBS-TAF	None	FB-SPF-HFO	-45.0*
SC-81.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.125-inch SOPRABOARD, Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0*
SC-82.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by SOPRASMART Board 180 Sanded or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-SPF-HFO	-45.0*
SC-83.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by SOPRASMART Board 180	DUOTACK	SBS-TA	None	FB-SPF-HFO	-45.0*



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	FASTENER (4.2.2)	ATTACH (3.1.2e)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
SC-84.	22 ga., Type B, Grade 40 steel; 6 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-H2O or FB-SPF-HFO	-52.5
SC-85.	22 ga., Type B, Grade 40 steel; 6 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-SPF-HFO	-52.5
SC-86.	22 ga., Type B, Grade 40 steel; 6 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	None	None	FB-TRAT	-52.5
SC-87.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or SOPRA-ISO+ r	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	Additional layer(s) base insulation followed by min. 0.125-inch SOPRABOARD	DUOTACK	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-52.5
SC-88.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or SOPRA-ISO+ r	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	Additional layer(s) base insulation followed by SOPRASMART Board 180 Sanded or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-SPF-HFO	-52.5
SC-89.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or SOPRA-ISO+ r	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	Additional layer(s) base insulation followed by SOPRASMART Board 180	DUOTACK	SBS-TA	None	FB-SPF-HFO	-52.5
SC-90.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s or ENRGY 3	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-60.0
SC-91.	22 ga., Type B, Grade 40 steel; 6 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	None	None	FB-TRAT	-60.0



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	FASTENER (4.2.2)	ATTACH (3.1.2e)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
SC-92.	22 ga., Type B, Grade 40 steel; 6 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board, min. 0.4375-inch DEXcell Cement Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-H2O or FB-SPF-HFO	-82.5
SC-93.	22 ga., Type B, Grade 40 steel; 6 ft span	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional optional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-SPF-HFO	-82.5
SC-94.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	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, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-82.5
SC-95.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISO r	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	Additional layer(s), min. 2-inch base insulation followed by Min. 0.25-inch SOPRABOARD	DUOTACK 365, 6-inch o.c.	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-127.5
SC-96.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISO r	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	Min. 0.25-inch SOPRABOARD	DUOTACK 365, 6-inch o.c.	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-135.0
SC-97.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	FB-SPF-HFO	-37.5*
SC-98.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	None	FB-TRAT	-37.5*



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	FASTENER (4.2.2)	ATTACH (3.1.2e)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
SC-99.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	FB-H2O or FB-SPF-HFO	-45.0*
SC-100.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	None	FB-TRAT	-45.0*
SC-101.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min 1.5-inch SOPRA-ISO s	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0*
SC-102.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISO s	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0*
SC-103.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	None	FB-TRAT	-60.0
SC-104.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	None	FB-TRAT	-60.0
SC-105.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	FB-H2O or FB-SPF-HFO	-75.0



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	FASTENER (4.2.2)	ATTACH (3.1.2E)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
SC-106.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Additional layer(s), min. 1.5-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-75.0
SC-107.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	FB-H2O or FB-SPF-HFO	-82.5
SC-108.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISO s, SOPRA-ISO+ r or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-82.5
SC-109.	Min. 22 ga., Type B, Grade 40 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	FB-H2O or FB-SPF-HFO	-105.0
SC-110.	Min. 22 ga., Type B, Grade 40 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-105.0
SC-111.	Min. 22 ga., Type B, Grade 40 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	Additional layer(s), min. 2-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO, ribbons 6" o.c.	None	None	FB-H2O or FB-SPF-HFO	-105.0



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	FASTENER (4.2.2)	ATTACH (3.1.2e)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
SC-112.	Min. 22 ga., Type B, Grade 40 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	Additional layer(s), min. 2-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO, ribbons 6" o.c.	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-105.0
SC-113.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive	None	None	FB-SPF-HFO	-37.5*
SC-114.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive	None	None	FB-TRAT	-37.5*
SC-115.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	Trufast Roofing Adhesive	None	None	FB-H2O or FB-SPF-HFO	-45.0*
SC-116.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive	None	None	FB-SPF-HFO	-45.0*
SC-117.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive	None	None	FB-TRAT	-45.0*
SC-118.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	Trufast Roofing Adhesive	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0*



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	FASTENER (4.2.2)	ATTACH (3.1.2e)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
SC-119.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Min. 1-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max; followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	Trufast Roofing Adhesive	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0*
SC-120.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Additional optional layer(s), min. 1-inch base insulation followed by Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or Min. 0.4375-inch DEXcell Cement Roof Board	Trufast Roofing Adhesive	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0*
SC-121.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	Min. 2-inch SOPRA-ISO s	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.33 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive Tanks	None	None	FB-TRAT	-60.0



TABLE 2C: STEEL - REROOF (TEAR-OFF)

SYSTEM TYPE B-2: MECHANICALLY ATTACHED BARRIER BOARD, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER

SYSTEM No.	EXISTING DECK (4.1.2)	EXISTING INSULATION	BARRIER BOARD			VAPOR BARRIER (3.1.4)	Insulation		ROOF COVER (3.1.4)			MDP (psf)
			TYPE	FASTENER (4.2.2)	ATTACH (3.1.2e)		Type	ATTACH (3.1.3)	BASE	PLY	CAP	
PVC BAREBACK MEMBRANE APPLICATIONS:												
SC-122.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	Existing lightweight concrete or insulation acceptable to the AHJ	0.125-inch SOPRABOARD	SOPREMA #12 or #14 Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA #12 DP or #14 MP Fastener with SOPREMA 3" Metal Insulation Plate (through to engage steel deck)	1 per 1.8 ft ²	SBS-CA3, SBS-AA or SBS-TA (sand-surfaced)	Min. 1-inch SOPRA-ISO s or SOPRA-ISO r followed by min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam-HD CoverBoard or H-Shield HD	DUOTACK	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-45.0*
SC-123.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	Existing lightweight concrete or insulation acceptable to the AHJ	0.125-inch SOPRABOARD	SOPREMA #12 or #14 Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA #12 DP or #14 MP Fastener with SOPREMA 3" Metal Insulation Plate (through to engage steel deck)	1 per 1.0 ft ²	SBS-CA3, SBS-AA or SBS-TA (sand-surfaced)	Min. 1.5-inch SOPRA-ISO s or SOPRA-ISO r followed by min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam-HD CoverBoard or H-Shield HD	DUOTACK	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-67.5
SC-124.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	None	Min. 0.5-inch DensDeck Prime primed with Elastocol Stick Zero	SOPREMA #14 HD Fastener with SOPREMA 3" Metal Insulation Plate (through to engage steel deck)	1 per 4.0 ft ²	SOPRAVAP' R	Min. 1.5-inch SOPRA-ISO s	Trufast Roofing Adhesive Tanks	None	None	BB-PVC-SBA or BB-PVC-H2O	-45.0*
FLEECEBACK MEMBRANE APPLICATIONS:												
SC-125.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	Existing lightweight concrete or insulation acceptable to the AHJ	0.125-inch SOPRABOARD	SOPREMA #12 or #14 Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA #12 DP or #14 MP Fastener with SOPREMA 3" Metal Insulation Plate (through to engage steel deck)	1 per 1.0 ft ²	SBS-CA3, SBS-AA or SBS-TA (sand-surfaced)	Min. 1.5-inch SOPRA-ISO s or SOPRA-ISO r followed by min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam-HD CoverBoard or H-Shield HD	DUOTACK	None	None	FB-SPF-HFO	-67.5



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER (3.1.2, 4.2.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)			MDP (Psf)
			TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2E)	BASE	PLY	CAP	
PVC BAREBACK MEMBRANE APPLICATIONS:									
SC-126.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	None	None	BB-PVC-SBA or BB-PVC-H2O	-45.0*
SC-127.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.7 ft ²	None	None	BB-PVC-SBA or BB-PVC-H2O	-45.0*
SC-128.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.375-inch DensDeck ProFast Prime Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-45.0*
SC-129.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	None	None	BB-PVC-SBA or BB-PVC-H2O	-45.0*
SC-130.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.375-inch DensDeck ProFast Prime Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 5.33 ft ²	None	None	BB-PVC-SBA	-45.0*
SC-131.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	None	None	BB-PVC-SBA or BB-PVC-H2O	-45.0
SC-132.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1-inch thick	Min. 7/16-inch DEXcell Cement Roof Board	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.7 ft ²	None	None	BB-PVC-SBA or BB-PVC-H2O	-52.5
SC-133.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.375-inch DensDeck ProFast Prime Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ² (Pattern B)	None	None	BB-PVC-SBA	-60.0
SC-134.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.3 ft ²	None	None	BB-PVC-SBA or BB-PVC-H2O	-60.0
SC-135.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.375-inch DensDeck ProFast Prime Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.7 ft ² (Pattern B)	None	None	BB-PVC-SBA	-75.0
SC-136.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.375-inch DensDeck ProFast Prime Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.7 ft ²	None	None	BB-PVC-SBA	-82.5



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER (3.1.2, 4.2.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)			MDP (Psf)
			TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2E)	BASE	PLY	CAP	
SC-137.	22 ga., Type B, Grade 40 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	None	None	BB-PVC-SBA or BB-PVC-H2O	-82.5
SC-138.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.375-inch DensDeck ProFast Prime Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.13 ft ²	None	None	BB-PVC-SBA	-90.0
SC-139.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board	SOPREMA #12 DP with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-97.5
SC-140.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1-inch thick	Min. 7/16-inch DEXcell Cement Roof Board	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.3 ft ²	None	None	BB-PVC-SBA or BB-PVC-H2O	-105.0
KEE BAREBACK MEMBRANE APPLICATIONS:									
SC-141.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	None	None	BB-KEE-SBA	-45.0*
SC-142.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.375-inch DensDeck ProFast Prime Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-45.0*
SC-143.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	None	None	BB-KEE-SBA	-45.0
SC-144.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1-inch thick	Min. 7/16-inch DEXcell Cement Roof Board	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.7 ft ²	None	None	BB-KEE-SBA	-52.5
SC-145.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.3 ft ²	None	None	BB-KEE-SBA	-60.0
SC-146.	22 ga., Type B, Grade 40 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	None	None	BB-KEE-SBA	-82.5
SC-147.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board	SOPREMA #12 DP with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-97.5
SC-148.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1-inch thick	Min. 7/16-inch DEXcell Cement Roof Board	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.3 ft ²	None	None	BB-KEE-SBA	-105.0



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER (3.1.2, 4.2.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)			MDP (PSF)
			TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2E)	BASE	PLY	CAP	
FLEECEBACK MEMBRANE APPLICATIONS:									
SC-149.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.7 ft ²	None	None	FB-SPF-HFO	-45.0*
SC-150.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.375-inch DensDeck ProFast Prime Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	None	None	FB-SPF-HFO	-45.0*
SC-151.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	None	None	FB-SPF-HFO	-45.0*
SC-152.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	None	None	FB-SPF-HFO	-45.0
SC-153.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1-inch thick	Min. 7/16-inch DEXcell Cement Roof Board	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.7 ft ²	None	None	FB-SPF-HFO	-52.5
SC-154.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.3 ft ²	None	None	FB-SPF-HFO	-60.0
SC-155.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board	SOPREMA #12 DP with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	None	None	FB-SPF-HFO	-97.5
SC-156.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1-inch thick	Min. 7/16-inch DEXcell Cement Roof Board	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.3 ft ²	None	None	FB-SPF-HFO	-105.0
SC-157.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	None	None	FB-SPF-HFO	-45.0*
SC-158.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	7/16-inch DEXcell Cement Roof Board	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	None	None	FB-SPF-HFO	-45.0
SC-159.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.3 ft ²	None	None	FB-SPF-HFO	-60.0
SC-160.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board	SOPREMA #12 DP with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	None	None	FB-SPF-HFO	-97.5
SC-161.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1-inch thick	Min. 7/16-inch DEXcell Cement Roof Board	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.3 ft ²	None	None	FB-SPF-HFO	-105.0



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER (3.1.2, 4.2.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)			MDP (PSF)
			TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2E)	BASE	PLY	CAP	
SC-162.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.25-inch DensDeck Prime or min. 0.375-inch DensDeck ProFast Prime Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.7 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-30.0*
SC-163.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-37.5*
SC-164.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.125-inch SOPRABOARD	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.3 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-37.5*
SC-165.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	None	None	FB-H2O	-45.0*
SC-166.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.7 ft ²	None	None	FB-H2O or FB-SPF-HFO	-45.0*
SC-167.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 0.375-inch DensDeck ProFast Prime Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	None	None	FB-H2O or FB-SPF-HFO	-45.0*
SC-168.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DensDeck Prime or min. 0.375-inch DensDeck ProFast Prime Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0*
SC-169.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0*
SC-170.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0*
SC-171.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER (3.1.2, 4.2.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)			MDP (Psf)
			TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2E)	BASE	PLY	CAP	
SC-172.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	None	None	FB-H2O or FB-SPF-HFO	-45.0
SC-173.	22 ga., Type B, Grade 33 steel; 6 ft span; #12 HWH Tek's 5 screws; 6" o.c.	One or more layers, any combination, min. 1.5-inch thick	Min. 0.25-inch DensDeck Prime	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	None	None	FB-H2O or FB-SPF-HFO	-52.5
SC-174.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.25-inch DensDeck Prime	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-52.5
SC-175.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-52.5
SC-176.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1-inch thick	Min. 7/16-inch DEXcell Cement Roof Board	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.7 ft ²	None	None	FB-H2O or FB-SPF-HFO	-52.5
SC-177.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1-inch thick	Min. 7/16-inch DEXcell Cement Roof Board	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 2.7 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-52.5
SC-178.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.125-inch SOPRABOARD	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-60.0
SC-179.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or 7/16-inch DEXcell Cement Roof Board	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.3 ft ²	None	None	FB-H2O or FB-SPF-HFO	-60.0
SC-180.	22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DensDeck Prime	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	None	None	FB-H2O or FB-SPF-HFO	-67.5
SC-181.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DensDeck Prime	SOPREMA #14 MP Fastener with or SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-67.5
SC-182.	22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DensDeck Prime	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	None	None	FB-H2O or FB-SPF-HFO	-75.0
SC-183.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DensDeck Prime	SOPREMA #14 MP Fastener with or SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-75.0
SC-184.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 1.3 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-75.0
SC-185.	22 ga., Type B, Grade 40 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 2-inch SOPRA-ISO s or SOPRA-ISO r	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	None	None	FB-H2O	-82.5



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

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER (3.1.2, 4.2.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)			MDP (P5)
			TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2E)	BASE	PLY	CAP	
SC-186.	22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DensDeck Prime	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	None	None	FB-H2O or FB-SPF-HFO	-82.5
SC-187.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DensDeck Prime	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-82.5
SC-188.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DensDeck Prime	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 1.3 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-90.0
SC-189.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 1.3 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-90.0
SC-190.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board	SOPREMA #12 DP with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	None	None	FB-H2O or FB-SPF-HFO	-97.5
SC-191.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1-inch thick	Min. 7/16-inch DEXcell Cement Roof Board	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.3 ft ²	None	None	FB-H2O or FB-SPF-HFO	-105.0
SC-192.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1-inch thick	Min. 7/16-inch DEXcell Cement Roof Board	SOPREMA #14 MP or #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.3 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-105.0
SC-193.	Min. 22 ga., Type B, Grade 40 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 2-inch thick	Min. 0.25-inch SOPRABOARD	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-120.0
SC-194.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch DensDeck Prime	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-127.5
SC-195.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch thick	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	SOPREMA #14 MP or #15 HD (steel only) with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-157.5



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

SYSTEM No.	DECK (4.1.2)	INSULATION LAYER (3.1.2, 4.2.2)	ATTACH		ROOF COVER (3.1.4b)	MDP (PSE)
			FASTENER (4.2.2)	DENSITY		
RHINO BOND INDUCTION WELD:						
SC-196.	Min. 22 ga., Type B, Grade 50 steel; 6 ft span	One or more layers, any combination, min. 1-inch	OMG XHD with RhinoBond Insulation Plate (PVC)	1 per 6 ft ² <i>Parts spaced 24" o.c. in rows spaced 36" o.c., while maintaining fastener engagement with the top flange of the Type B deck profile. Every-other set of two (2) rows is staggered 12-inches from the previous set.</i>	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-37.5
SC-197.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination	SOPREMA #15 HD Fastener with RhinoBond Insulation Plate (PVC)	1 per 4.0 ft ² (2 x 2-ft grid)	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-37.5
SC-198.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination	SOPREMA #15 HD Fastener with RhinoBond Insulation Plate (PVC)	1 per 6 ft ² (24 x 36 inch grid pattern)	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-45.0*
SC-199.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination	SOPREMA #15 HD Fastener with RhinoBond Insulation Plate (PVC)	1 per 2.25 ft ² (18 x 18 inch grid pattern)	SENTINEL P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-45.0
SC-200.	Min. 22 ga., Type B, Grade 50 steel; 6 ft span	One or more layers, any combination, min. 1-inch	OMG XHD with RhinoBond Insulation Plate (PVC)	1 per 4.0 ft ² <i>Parts spaced 24" o.c. in rows spaced 24" o.c., while maintaining fastener engagement with the top flange of the Type B deck profile. Every-other set of two (2) rows is staggered 12-inches from the previous set.</i>	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-52.5
SC-201.	Min. 20 ga., Type N, Grade 40 steel; 10 ft span	One or more layers SOPRA-ISO s, SOPRA-ISO+ s or SOPRA-ISO r; top layer min. 1-inch	OMG XHD with RhinoBond Insulation Plate (PVC)	1 per 4.0 ft ² (8 parts per 4 x 8 ft board) <i>Parts spaced 24" o.c. in rows spaced 24" o.c., while maintaining fastener engagement with the top flange of the Type N deck profile. Every-other set of two (2) rows is staggered 8-inches from the previous set.</i>	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-52.5
SC-202.	Min. 22 ga., Type B, Grade 50 steel; 6 ft span	One or more layers, any combination, min. 1-inch	OMG XHD with RhinoBond Insulation Plate (PVC)	1 per 3 ft ² <i>Parts spaced 24" o.c. in rows spaced 18" o.c., while maintaining fastener engagement with the top flange of the Type B deck profile. Every-other set of two (2) rows is staggered 12-inches from the previous set.</i>	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-75.0
SC-203.	Min. 18 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, preliminarily attached (3.1.2)	SOPREMA #15 HD Fastener with RhinoBond Insulation Plate (PVC)	12-inch o.c. in rows spaced 60-inch o.c.	SENTINEL P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-30.0
SC-204.	Min. 18 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, preliminarily attached (3.1.2)	SOPREMA #15 HD Fastener with RhinoBond Insulation Plate (PVC)	6-inch o.c. in rows spaced 120-inch o.c.	SENTINEL P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-45.0
SC-205.	Min. 18 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, preliminarily attached (3.1.2)	SOPREMA #15 HD Fastener with RhinoBond Insulation Plate (PVC)	12-inch o.c. in rows spaced 48-inch o.c.	SENTINEL P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-45.0



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

SYSTEM No.	DECK (4.1.2)	INSULATION LAYER (3.1.2, 4.2.2)	ATTACH		ROOF COVER (3.1.4b)	MDP (PSE)
			FASTENER (4.2.2)	DENSITY		
SC-206.	Min. 18 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, preliminarily attached (3.1.2)	SOPREMA #15 HD Fastener with RhinoBond Insulation Plate (PVC)	6-inch o.c. in rows spaced 72-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-52.5
SC-207.	Min. 18 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, preliminarily attached (3.1.2)	SOPREMA #15 HD Fastener with RhinoBond Insulation Plate (PVC)	6-inch o.c. in rows spaced 96-inch o.c.	SENTINEL P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-52.5
SC-208.	Min. 18 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, preliminarily attached (3.1.2)	SOPREMA #15 HD Fastener with RhinoBond Insulation Plate (PVC)	6-inch o.c. in rows spaced 48-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-82.5
SC-209.	Min. 18 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, preliminarily attached (3.1.2)	SOPREMA #15 HD Fastener with RhinoBond Insulation Plate (PVC)	6-inch o.c. in rows spaced 60-inch o.c.	SENTINEL P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-82.5
SC-210.	Min. 18 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, preliminarily attached (3.1.2)	SOPREMA #15 HD Fastener with RhinoBond Insulation Plate (PVC)	6-inch o.c. in rows spaced 48-inch o.c.	SENTINEL P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-90.0
ISOWELD INDUCTION WELD:						
SC-211.	Min. 22 ga., Type B, Grade 40 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch	SOPREMA #15 Fastener with <i>isoweld</i> ® F1-P-6.8-PVC Plate	6 ft² per fastener 2 x 3-ft grid, staggered	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using SFS <i>isoweld</i> ® 3000 stand-up tool	-37.5
SC-212.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch	SOPREMA #12 Fastener or #15 Fastener with <i>isoweld</i> ® F1-P-6.8-PVC Plate	6 ft² per fastener 2 x 3-ft grid, staggered	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using SFS <i>isoweld</i> ® 3000 stand-up tool	-37.5
SC-213.	Min. 22 ga., Type B, Grade 40 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch	SOPREMA #15 Fastener with <i>isoweld</i> ® F1-P-6.8-PVC Plate	4 ft² per fastener 2 x 2-ft grid, staggered	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using SFS <i>isoweld</i> ® 3000 stand-up tool	-52.5
SC-214.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch	SOPREMA #12 Fastener or #15 Fastener with <i>isoweld</i> ® F1-P-6.8-PVC Plate	4 ft² per fastener 2 x 2-ft grid, staggered	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using SFS <i>isoweld</i> ® 3000 stand-up tool	-52.5
SC-215.	Min. 22 ga., Type B, Grade 40 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch	SOPREMA #15 Fastener with <i>isoweld</i> ® F1-P-6.8-PVC Plate	3 ft² per fastener 1.5 x 2-ft grid, staggered	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using SFS <i>isoweld</i> ® 3000 stand-up tool	-82.5
SC-216.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch	SOPREMA #12 Fastener or #15 Fastener with <i>isoweld</i> ® F1-P-6.8-PVC Plate	3 ft² per fastener 1.5 x 2-ft grid, staggered	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using SFS <i>isoweld</i> ® 3000 stand-up tool	-82.5
SC-217.	Min. 22 ga., Type B, Grade 40 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch, preliminarily attached (3.1.2)	SOPREMA #15 Fastener with <i>isoweld</i> ® F1-P-6.8-PVC Plate	12-inch o.c. in rows spaced 60-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using SFS <i>isoweld</i> ® 3000 stand-up tool	-45.0
SC-218.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch, preliminarily attached (3.1.2)	SOPREMA #12 Fastener or #15 Fastener with <i>isoweld</i> ® F1-P-6.8-PVC Plate	12-inch o.c. in rows spaced 60-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using SFS <i>isoweld</i> ® 3000 stand-up tool	-45.0



TABLE 2E: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, INDUCTION WELDED ROOF COVER

SYSTEM No.	DECK (4.1.2)	INSULATION LAYER (3.1.2, 4.2.2)	ATTACH		ROOF COVER (3.1.4b)	MDP (PSE)
			FASTENER (4.2.2)	DENSITY		
SC-219.	Min. 22 ga., Type B, Grade 40 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch, preliminarily attached (3.1.2)	SOPREMA #15 Fastener with <i>isoweld</i> ® F1-P-6.8-PVC Plate	6-inch o.c. in rows spaced 60-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using SFS <i>isoweld</i> ® 3000 stand-up tool	-90.0
SC-220.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch, preliminarily attached (3.1.2)	SOPREMA #12 Fastener or #15 Fastener with <i>isoweld</i> ® F1-P-6.8-PVC Plate	6-inch o.c. in rows spaced 60-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using SFS <i>isoweld</i> ® 3000 stand-up tool	-90.0
TRUFAST INDUCTION WELD:						
SC-221.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 2-inch	SOPREMA #15 HD Fastener with Trufast PVC IW Plate	1 per 5.3 ft ² (6 parts per 4x8 ft board on a 24x36-inch pattern)	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-45.0*
SC-222.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 2-inch	SOPREMA #15 HD Fastener with Trufast PVC IW Plate	1 per 4.0 ft ² (8 parts per 4x8 ft board on a 24x24-inch pattern)	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-60.0
SC-223.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 2-inch	SOPREMA #15 HD Fastener with Trufast PVC IW Plate	1 per 3.2 ft ² (10 parts per 4x8 ft board on a 24x20-inch pattern)	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-67.5
SC-224.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 2-inch	SOPREMA #15 HD Fastener with Trufast PVC IW Plate	1 per 2.7 ft ² (12 parts per 4x8 ft board per FM LPDS 1-29)	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-82.5
SC-225.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 2-inch	SOPREMA #15 HD Fastener with Trufast PVC IW Plate	1 per 2.0 ft ² (16 parts per 4x8 ft board on a 12x24-inch pattern)	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-112.5
SC-226.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 2-inch	SOPREMA #15 HD Fastener with Trufast PVC IW Plate	1 per 1.8 ft ² (18 parts per 4x8 ft board on an 18x16-inch pattern)	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-120.0
SC-227.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 2-inch	SOPREMA #15 HD Fastener with Trufast PVC IW Plate	1 per 1.3 ft ² (24 parts per 4x8 ft board on a 12x16-inch pattern)	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-172.5
SC-228.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 2-inch	SOPREMA #15 HD Fastener with Trufast PVC IW Plate	1 per 1.0 ft ² (32 parts per 4x8 ft board per FM LPDS 1-29)	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-217.5
SC-229.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 2-inch, preliminarily attached	SOPREMA #15 HD Fastener with Trufast PVC IW Plate	12-inch o.c. in rows spaced 60-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-45.0
SC-230.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 2-inch, preliminarily attached	SOPREMA #15 HD Fastener with Trufast PVC IW Plate	12-inch o.c. in rows spaced 48-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-60.0



TABLE 2E: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER						
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, INDUCTION WELDED ROOF COVER						
SYSTEM No.	DECK (4.1.2)	INSULATION LAYER (3.1.2, 4.2.2)	ATTACH		ROOF COVER (3.1.4b)	MDP (PSE)
			FASTENER (4.2.2)	DENSITY		
SC-231.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 2-inch	SOPREMA #15 HD Fastener with Trufast PVC IW Plate	12-inch o.c. in rows spaced 36-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-82.5
SC-232.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 2-inch, preliminarily attached	SOPREMA #15 HD Fastener with Trufast PVC IW Plate	6-inch o.c. in rows spaced 72-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-75.0
SC-233.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 2-inch, preliminarily attached	SOPREMA #15 HD Fastener with Trufast PVC IW Plate	6-inch o.c. in rows spaced 60-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-90.0
SC-234.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 2-inch, preliminarily attached	SOPREMA #15 HD Fastener with Trufast PVC IW Plate	6-inch o.c. in rows spaced 48-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-112.5
SC-235.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 2-inch	SOPREMA #15 HD Fastener with Trufast PVC IW Plate	6-inch o.c. in rows spaced 36-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-150.0

TABLE 2F: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER							
SYSTEM TYPE D-1: PRELIMINARILY ATTACHED INSULATION, MECHANICALLY ATTACHED ROOF COVER							
SYSTEM No.	Deck (4.1.2)	INSULATION LAYER(S) (3.1.2, 4.2.2)		ROOF COVER (3.1.4c)			MDP (PSE)
		TYPE	ATTACH (3.1.2)	MEMBRANE	FASTENER (4.2.2)	ATTACH	
SC-236.	Min. 22 ga., Type B, Grade 50 steel; 6 ft span	Min. 1-inch SOPRA-ISO s and/or min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board and/or min. 0.5-inch Insulfoam R-Tech Fan Fold, ACfoam HD Coverboard, SOPRA-ISO r HD or SOPRA-ISO HD.	Prelim. attach	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Lap sealed with 1.5-inch heat weld	-45.0
SC-237.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 2-inch total thickness, min. 16-psi top layer	Prelim. attach	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate	12-inch o.c. within 6-inch wide laps spaced 54-inch o.c. Laps sealed with 1.5-inch heat weld.	-52.5
SC-238.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 2-inch total thickness, min. 16-psi top layer	Prelim. attach	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate	12-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Laps sealed with 1.5-inch heat weld.	-52.5
SC-239.	Min. 22 ga., Type B, Grade 50 steel; 6 ft span	Min. 1-inch SOPRA-ISO s and/or min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board and/or min. 0.5-inch Insulfoam R-Tech Fan Fold, ACfoam HD Coverboard, SOPRA-ISO r HD or SOPRA-ISO HD.	Prelim. attach	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate	6-inch o.c. within 6-inch wide laps spaced 54-inch o.c. Lap sealed with 1.5-inch heat weld	-67.5
SC-240.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 2-inch total thickness, min. 16-psi top layer	Prelim. attach	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Laps sealed with 1.5-inch heat weld.	-67.5



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**TABLE 2g: STEEL DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
 SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED SOPRAPHIX, BONDED ROOF COVER**

SYSTEM NO.	DECK (4.1.2)	INSULATION AND/OR THERMAL BARRIER (3.1.2, 4.2.2)	BASE MEMBRANE			ROOF COVER (3.1.4)		MDP (PSF)
			BASE	FASTENER (4.2.2)	ATTACH	PLY	CAP	
WITH FASTENER AND STRESS PLATE:								
SC-241.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 622	SOPREMA #14 MP with SOPREMA 2" Seam Plate	18-inch o.c. within min. 4-inch wide, heat-welded side laps	None	FB-SPF-HFO	-45.0*
SC-242.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611 or 612	SOPREMA #14 MP with SOPREMA 2" Seam Plate	18-inch o.c. within min. 4-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-45.0*
SC-243.	Min. 22 ga., Type B, Grade 40 steel; 6 ft span	(Optional) Any type, thickness or combination, loose-laid	SOPRASMART Board 180, SOPRASMART ISO HD 180, SOPRASMART XP HD 180 or SOPRASMART XP ISO 180	SOPREMA #14 MP with SOPREMA 2" Seam Plate	6-inch o.c. at the marked fastening line, sealed with the heat-welded, overlapping membrane from subsequent course	SBS-TAF	FB-SPF-HFO	-52.5*
SC-244.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611 or 612	SOPREMA #15 HD with SOPREMA 2" Seam Plate	12-inch o.c. within min. 4-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-67.5
SC-245.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611 or 612	SOPREMA #15 HD with SOPREMA 2.4" Seam Plate	12-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-75.0
WITH FASTENER AND BATTEN BARS OR BATTEN STRIPS:								
SC-246.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span.	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 622	SOPREMA #14 MP with SOPRAPHIX MBB-R	18-inch o.c. within min. 5-inch wide, heat-welded side laps	None	FB-SPF-HFO	-45.0*
SC-247.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611 or 612	SOPREMA #14 MP with SOPRAPHIX MBB-R	18-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-45.0*
SC-248.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611 or 612	SOPREMA #14 MP with SOPRAPHIX MBB-R	12-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-75.0



TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

REFER TO TABLE VB-3 FOR VAPOR BARRIER OPTIONS

Table with 11 columns: SYSTEM NO., DECK (4.1.2), BASE INSULATION LAYER (TYPE, ATTACH (3.1.3)), TOP INSULATION LAYER (TYPE, ATTACH (3.1.3)), PRIMER, ROOF COVER (3.1.4) (BASE, PLY, CAP), and MDP (psf). Rows C-1 through C-8 describe various structural concrete deck systems with their respective materials and load capacities.



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

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER		TOP INSULATION LAYER		PRIMER	ROOF COVER (3.1.4)			MDP (PSE)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)		BASE	PLY	CAP	
C-9.	Min. 2,500 psi structural concrete	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	N/A	None	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-560.0
C-10.	Min. 2,500 psi structural concrete	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	None	N/A	None	None	None	BB-PVC-H2O	-592.5
C-11.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	Trufast Roofing Adhesive	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive	None	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-195.0
C-12.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	Trufast Roofing Adhesive	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	Trufast Roofing Adhesive	None	None	None	BB-PVC-SBA or BB-PVC-H2O	-195.0
C-13.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or UltraMax	Trufast Roofing Adhesive Tanks	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive Tanks	None	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-195.0
C-14.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or UltraMax	Trufast Roofing Adhesive Tanks	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	Trufast Roofing Adhesive Tanks	None	None	None	BB-PVC-SBA or BB-PVC-H2O	-195.0
C-15.	Min. 2,500 psi structural concrete	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive Tanks	None	N/A	None	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-315.0
C-16.	Min. 2,500 psi structural concrete	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	Trufast Roofing Adhesive Tanks	None	N/A	None	None	None	BB-PVC-SBA or BB-PVC-H2O	-315.0
KEE BAREBACK MEMBRANE APPLICATIONS:										
C-17.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or UltraMax	DUOTACK	Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-187.5



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

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER		TOP INSULATION LAYER		PRIMER	ROOF COVER (3.1.4)			MDP (PSE)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)		BASE	PLY	CAP	
C-18.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or UltraMax	DUOTACK	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	None	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-315.0
C-19.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-187.5
C-20.	Min. 2,500 psi structural concrete	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	N/A	None	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-245.0
C-21.	Min. 2,500 psi structural concrete	Min. 1.5-inch SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-270.0
C-22.	Min. 2,500 psi structural concrete	Min. 1-inch SOPRA-ISO s	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-315.0
C-23.	Min. 2,500 psi structural concrete	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	N/A	None	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-560.0
C-24.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	Trufast Roofing Adhesive	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive	None	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-195.0
C-25.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or UltraMax	Trufast Roofing Adhesive Tanks	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive Tanks	None	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-195.0
C-26.	Min. 2,500 psi structural concrete	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive Tanks	None	N/A	None	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-315.0



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

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER		TOP INSULATION LAYER		PRIMER	ROOF COVER (3.1.4)			MDP (psf)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)		BASE	PLY	CAP	
FLEECEBACK MEMBRANE APPLICATIONS:										
C-27.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or UltraMax	DUOTACK	Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	None	FB-H2O or FB-SPF-HFO	-187.5
C-28.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or UltraMax	DUOTACK	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	FB-SPF-HFO	-217.5
C-29.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or UltraMax	DUOTACK	Min. 0.125-inch SOPRABOARD	DUOTACK	None	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-217.5
C-30.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or UltraMax	DUOTACK	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	ELASTOCOL 500	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-217.5
C-31.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or UltraMax	DUOTACK	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	None	None	None	FB-H2O or FB-SPF-HFO	-315.0
C-32.	Min. 2,500 psi structural concrete	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.125-inch SOPRABOARD	DUOTACK SPF HFO	None	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-157.5
C-33.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	None	FB-H2O or FB-SPF-HFO	-187.5
C-34.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	FB-SPF-HFO	-217.5



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

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER		TOP INSULATION LAYER		PRIMER	ROOF COVER (3.1.4)			MDP (psf)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)		BASE	PLY	CAP	
C-35.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	ELASTOCOL 500	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-217.5
C-36.	Min. 2,500 psi structural concrete	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	None	None	FB-H2O or FB-SPF-HFO	-270.0
C-37.	Min. 2,500 psi structural concrete	Min. 1-inch SOPRA-ISO s	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	None	None	None	FB-H2O or FB-SPF-HFO	-315.0
C-38.	Min. 2,500 psi structural concrete	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	N/A	None	None	None	FB-H2O or FB-SPF-HFO	-560.0
C-39.	Min. 2,500 psi structural concrete	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	None	N/A	None	None	None	FB-H2O or FB-SPF-HFO	-592.5
C-40.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	Trufast Roofing Adhesive	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	FB-SPF-HFO	-195.0
C-41.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	Trufast Roofing Adhesive	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive	ELASTOCOL 500	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-195.0
C-42.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	Trufast Roofing Adhesive	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	Trufast Roofing Adhesive	None	None	None	FB-H2O or FB-SPF-HFO	-195.0



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

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER		TOP INSULATION LAYER		PRIMER	ROOF COVER (3.1.4)			MDP (PSE)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)		BASE	PLY	CAP	
C-43.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	Trufast Roofing Adhesive	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive	None	None	None	FB-SPF	-195.0
C-44.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	Trufast Roofing Adhesive Tanks	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive Tanks	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	FB-SPF-HFO	-195.0
C-45.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	Trufast Roofing Adhesive Tanks	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	Trufast Roofing Adhesive Tanks	ELASTOCOL 500	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-195.0
C-46.	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or UltraMax	Trufast Roofing Adhesive Tanks	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	Trufast Roofing Adhesive Tanks	None	None	None	FB-H2O or FB-SPF-HFO	-195.0
C-47.	Min. 2,500 psi structural concrete	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	Trufast Roofing Adhesive Tanks	None	N/A	None	None	None	FB-H2O or FB-SPF-HFO	-315.0



TABLE 3B: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, INDUCTION WELDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	INSULATION LAYER(S) (3.1.2, 4.2.2)	ATTACH		ROOF COVER (3.1.4b)	MDP (P5)
			FASTENER (4.2.2)	DENSITY		
RHINOBOND INDUCTION WELD:						
C-48.	Min. 2,500 psi structural concrete	One or more layers, any combination	SOPREMA #14 MP Fastener with RhinoBond Insulation Plate (PVC)	1 per 2.7 ft ² (12 parts per 4 x 8 ft board)	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-52.5
C-49.	Min. 2,500 psi structural concrete	One or more layers, any combination, preliminarily attached (3.1.2)	SOPREMA #14 MP Fastener with RhinoBond Insulation Plate (PVC)	12-inch o.c. in rows spaced 60-inch o.c.	SENTINEL P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-37.5
C-50.	Min. 2,500 psi structural concrete	One or more layers, any combination, preliminarily attached (3.1.2)	SOPREMA #14 MP Fastener with RhinoBond Insulation Plate (PVC)	6-inch o.c. in rows spaced 60-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-45.0
C-51.	Min. 2,500 psi structural concrete	One or more layers, any combination, preliminarily attached (3.1.2)	SOPREMA #14 MP Fastener with RhinoBond Insulation Plate (PVC)	6-inch o.c. in rows spaced 48-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-52.5
ISOWELD INDUCTION WELD:						
C-52.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch	SOPREMA #14 Fastener or #15 Fastener with <i>isoweld</i> ® F1-P-6.8-PVC Plate	6 ft ² per fastener 2 x 3-ft grid, staggered	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using SFS <i>isoweld</i> ® 3000 stand-up tool	-37.5
C-53.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch	SOPREMA #14 Fastener or #15 Fastener with <i>isoweld</i> ® F1-P-6.8-PVC Plate	4 ft ² per fastener 2 x 2-ft grid, staggered	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using SFS <i>isoweld</i> ® 3000 stand-up tool	-52.5
C-54.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch	SOPREMA #14 Fastener or #15 Fastener with <i>isoweld</i> ® F1-P-6.8-PVC Plate	3 ft ² per fastener 1.5 x 2-ft grid, staggered	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using SFS <i>isoweld</i> ® 3000 stand-up tool	-82.5
C-55.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch, preliminarily attached (3.1.2)	SOPREMA #14 Fastener or #15 Fastener with <i>isoweld</i> ® F1-P-6.8-PVC Plate	12-inch o.c. in rows spaced 60-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using SFS <i>isoweld</i> ® 3000 stand-up tool	-45.0
TRUFAST INDUCTION WELD:						
C-56.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 2-inch	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike with Trufast PVC IW Plate	1 per 5.3 ft ² (6 parts per 4x8 ft board on a 24x36-inch pattern)	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-45.0*
C-57.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 2-inch	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike with Trufast PVC IW Plate	1 per 4.0 ft ² (8 parts per 4x8 ft board on a 24x24-inch pattern)	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-60.0
C-58.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 2-inch	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike with Trufast PVC IW Plate	1 per 3.2 ft ² (10 parts per 4x8 ft board on a 24x20-inch pattern)	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-67.5
C-59.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 2-inch	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike with Trufast PVC IW Plate	1 per 2.7 ft ² (12 parts per 4x8 ft board per FM LPDS 1-29)	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-82.5



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**TABLE 3B: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
 SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, INDUCTION WELDED ROOF COVER**

SYSTEM NO.	DECK (4.1.2)	INSULATION LAYER(S) (3.1.2, 4.2.2)	ATTACH		ROOF COVER (3.1.4b)	MDP (PSF)
			FASTENER (4.2.2)	DENSITY		
C-60.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 2-inch	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike with Trufast PVC IW Plate	1 per 2.0 ft ² (16 parts per 4x8 ft board on a 12x24-inch pattern)	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-112.5
C-61.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 2-inch	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike with Trufast PVC IW Plate	1 per 1.8 ft ² (18 parts per 4x8 ft board on an 18x16-inch pattern)	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-120.0
C-62.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 2-inch	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike with Trufast PVC IW Plate	1 per 1.3 ft ² (24 parts per 4x8 ft board on a 12x16-inch pattern)	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-172.5
C-63.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 2-inch	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike with Trufast PVC IW Plate	1 per 1.0 ft ² (32 parts per 4x8 ft board per FM LPDS 1-29)	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-217.5
C-64.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 2-inch, preliminarily attached	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike with Trufast PVC IW Plate	12-inch o.c. in rows spaced 60-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-45.0
C-65.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 2-inch, preliminarily attached	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike with Trufast PVC IW Plate	12-inch o.c. in rows spaced 48-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-60.0
C-66.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 2-inch	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike with Trufast PVC IW Plate	12-inch o.c. in rows spaced 36-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-82.5
C-67.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 2-inch, preliminarily attached	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike with Trufast PVC IW Plate	6-inch o.c. in rows spaced 72-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-75.0
C-68.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 2-inch, preliminarily attached	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike with Trufast PVC IW Plate	6-inch o.c. in rows spaced 60-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-90.0
C-69.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 2-inch, preliminarily attached	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike with Trufast PVC IW Plate	6-inch o.c. in rows spaced 48-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-112.5
C-70.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 2-inch	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike with Trufast PVC IW Plate	6-inch o.c. in rows spaced 36-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-150.0



**TABLE 3c: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
 SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED SOPRAPHIX, BONDED ROOF COVER**

SYSTEM No.	DECK (4.1.2)	INSULATION AND/OR THERMAL BARRIER (3.1.2, 4.2.2)	BASE MEMBRANE			ROOF COVER (3.1.4)		MDP (PSF)
			BASE	FASTENER (4.2.2)	ATTACH	PLY	CAP	
WITH FASTENER AND STRESS PLATE:								
C-71.	Min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 622	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike with SOPREMA 2" Seam Plate	18-inch o.c. within min. 4-inch wide, heat-welded side laps	None	FB-SPF-HFO	-45.0*
C-72.	Min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611 or 612	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike with SOPREMA 2" Seam Plate	18-inch o.c. within min. 4-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-45.0*
C-73.	Min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611 or 612	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike with SOPREMA 2" Seam Plate	12-inch o.c. within min. 4-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-67.5
C-74.	Min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611 or 612	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike with SOPREMA 2.4" Seam Plate	12-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-75.0
WITH FASTENER AND BATTEN BARS OR BATTEN STRIPS:								
C-75.	Min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 622	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike or with SOPRAPHIX MBB-R	18-inch o.c. within min. 5-inch wide, heat-welded side laps	None	FB-SPF-HFO	-45.0*
C-76.	Min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611 or 612	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike or with SOPRAPHIX MBB-R	18-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-45.0*
C-77.	Min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611 or 612	SOPREMA #14 MP Fastener or Trufast 1/4" Concrete Spike or with SOPRAPHIX MBB-R	12-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-75.0

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

SYSTEM No.	DECK (4.1.2)	PRIMER	ROOF COVER (3.1.4)			MDP (PSF)
			BASE	PLY	CAP	
C-78.	Structural Concrete	None	SBS-CA2, 6-inch o.c.	SBS-TAF	FB-SPF-HFO	-180.0
C-79.	Structural concrete	None	None	None	BB-PVC-SBA or BB-PVC-H2O (min. 80-mil)	-315.0
C-80.	Structural concrete	None	None	None	BB-KEE-SBA (min. 80-mil)	-315.0
C-81.	Structural concrete	ASTM D41	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-435.0
C-82.	Structural concrete	None	None	None	FB-H2O (min. 80-mil)	-673.0



TABLE 4A: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
 REFER TO [TABLE VB-4](#) FOR VAPOR BARRIER OPTIONS BETWEEN THE DECK AND THE LWC

SYSTEM No.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2d)	BASE INSULATION LAYER		COVERBOARD		PRIMER	ROOF COVER (3.1.4)			MDP (PSF)
			TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)		BASE	PLY	CAP	
CELCORE (FL2037):											
PVC BAREBACK MEMBRANE APPLICATIONS:											
LWC-1.	Structural Concrete	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound is applied	Min. 2-inch SOPRA-ISO+ s or SOPRA-ISO+ r	DUOTACK	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-170.0
LWC-2.	Structural Concrete	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound is applied	Min. 2-inch SOPRA-ISO+ s 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	None	None	None	BB-PVC-SBA or BB-PVC-H2O	-170.0
LWC-3.	Structural Concrete	Min. 370 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound is applied	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	None	N/A	None	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-315.0
LWC-4.	Structural Concrete	Min. 370 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound is applied	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK SPF HFO	None	N/A	None	None	None	BB-PVC-SBA or BB-PVC-H2O	-315.0
KEE BAREBACK MEMBRANE APPLICATIONS:											
LWC-5.	Structural Concrete	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound is applied	Min. 2-inch SOPRA-ISO+ s or SOPRA-ISO+ r	DUOTACK	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-170.0
LWC-6.	Structural Concrete	Min. 370 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound is applied	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	None	N/A	None	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-315.0



TABLE 4A: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

REFER TO [TABLE VB-4](#) FOR VAPOR BARRIER OPTIONS BETWEEN THE DECK AND THE LWC

SYSTEM No.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2d)	BASE INSULATION LAYER		COVERBOARD		PRIMER	ROOF COVER (3.1.4)			MDP (PSF)
			TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)		BASE	PLY	CAP	
FLEECEBACK MEMBRANE APPLICATIONS:											
LWC-7.	Structural Concrete	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound is applied	Min. 2-inch SOPRA-ISO+ s or SOPRA-ISO+ r	DUOTACK	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board or min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	None	FB-H2O or FB-SPF-HFO	-170.0
LWC-8.	Structural Concrete	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound is applied	Min. 2-inch SOPRA-ISO+ s or SOPRA-ISO+ r	DUOTACK	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	SBS-SA1	(Optional) SBS-SA1	FB-SPF-HFO	-170.0
LWC-9.	Structural Concrete	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound is applied	Min. 2-inch SOPRA-ISO+ s or SOPRA-ISO+ r	DUOTACK	Min. 0.125-inch SOPRABOARD	DUOTACK	None	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-170.0
LWC-10.	Structural Concrete	Min. 300 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound is applied	Min. 2-inch SOPRA-ISO+ s or SOPRA-ISO+ r	DUOTACK	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK	ELASTOCOL 500	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-170.0
LWC-11.	Structural Concrete	Min. 370 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound is applied	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	None	N/A	None	None	None	FB-H2O or FB-SPF-HFO	-315.0



TABLE 4B: LIGHTWEIGHT INSULATING CONCRETE OVER STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: LWC TO DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER

REFER TO TABLE VB-4 FOR VAPOR BARRIER OPTIONS BETWEEN THE DECK AND THE LWC

Table with columns: SYSTEM NO., DECK, LIGHTWEIGHT CONCRETE, VAPOR BARRIER, BASE INSULATION LAYER (TYPE, ATTACH), COVERBOARD (TYPE, ATTACH), ROOF COVER (BASE, PLY, CAP), and MDP (PSF). Rows include LWC-12, LWC-13, LWC-14, LWC-15, and LWC-16, each with a note regarding testing requirements.



TABLE 4b: LIGHTWEIGHT INSULATING CONCRETE OVER STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: LWC TO DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER
 REFER TO [TABLE VB-4](#) FOR VAPOR BARRIER OPTIONS BETWEEN THE DECK AND THE LWC

SYSTEM No.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2b)	VAPOR BARRIER (3.1.4)	BASE INSULATION LAYER		COVERBOARD		ROOF COVER (3.1.4)			MDP (P5F)
				TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
LWC-17.	Structural Concrete	Cellular lightweight concrete, Min. 330 psi, Min. 2-inch top coat	SBS-CA2, 12-inch o.c. (sanded-top)	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK	Min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-H2O or FB-SPF-HFO	-60.0
NOTE: To qualify the LWIC under this assembly, a SOPREMA 1.7 in. Base Sheet Fastener or OMG CR Assembled Base Sheet Fastener (1.7") shall achieve an average withdrawal of 101 lbf when tested per 4.2.2											

TABLE 4c: LIGHTWEIGHT INSULATING CONCRETE OVER STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D-1: PRELIMINARILY ATTACHED INSULATION, MECHANICALLY ATTACHED ROOF COVER

SYSTEM No.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2b)	INSULATION (3.1.2, 4.2.2)		ROOF COVER (3.1.4c)			MDP (P5F)
			TYPE	ATTACH (3.1.3)	MEMBRANE	FASTENER (4.2.2)	ATTACH	
LWC-18.	Min. 22 ga., Type BV, Grade 50 steel; 6 ft span; 5/8" puddle welds; 6" o.c.	Min. 200 psi, min. 2-inch thick new FBC Approved LWC or pre-existent LWC	Min. 1-inch SOPRA-ISO s and/or min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board and/or min. 0.5-inch Insulfoam R-Tech Fan Fold, ACfoam HD Coverboard, SOPRA-ISO r HD or SOPRA-ISO HD.	Prelim. attach to steel deck	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate through LWC to engage steel deck	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Lap sealed with 1.5-inch heat weld	-45.0
LWC-19.	Min. 22 ga., Type BV, Grade 33 steel; 6 ft span; #12 HWH Tekes 5 screws with 3/4" washers; 6" o.c.	Min. 200 psi, min. 2-inch thick new FBC Approved LWC or pre-existent LWC	One or more layers, any combination, min. 2-inch total thickness, min. 16-psi top layer	Prelim. attach to steel deck	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate through LWC to engage steel deck	12-inch o.c. within 6-inch wide laps spaced 54-inch o.c. Laps sealed with 1.5-inch heat weld.	-52.5
LWC-20.	Min. 22 ga., Type BV Grade 80 steel; 6 ft span; #12 HWH Tekes 5 screws with 3/4" washers; 6" o.c.	Min. 200 psi, min. 2-inch thick new FBC Approved LWC or pre-existent LWC	One or more layers, any combination, min. 2-inch total thickness, min. 16-psi top layer	Prelim. attach to steel deck	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate through LWC to engage steel deck	12-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Laps sealed with 1.5-inch heat weld.	-52.5
LWC-21.	Min. 22 ga., Type BV, Grade 50 steel; 6 ft span; #12-24 HWH screws; 6" o.c.	Min. 200 psi, min. 2-inch thick new FBC Approved LWC or pre-existent LWC	Min. 1-inch SOPRA-ISO s and/or min. 0.25-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board and/or min. 0.5-inch Insulfoam R-Tech Fan Fold, ACfoam HD Coverboard, SOPRA-ISO r HD or SOPRA-ISO HD.	Prelim. attach to steel deck	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate through LWC to engage steel deck	6-inch o.c. within 6-inch wide laps spaced 54-inch o.c. Lap sealed with 1.5-inch heat weld	-67.5



**TABLE 4c: LIGHTWEIGHT INSULATING CONCRETE OVER STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
 SYSTEM TYPE D-1: PRELIMINARILY ATTACHED INSULATION, MECHANICALLY ATTACHED ROOF COVER**

SYSTEM NO.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2d)	INSULATION (3.1.2, 4.2.2)		ROOF COVER (3.1.4c)			MDP (PSF)
			TYPE	ATTACH (3.1.3)	MEMBRANE	FASTENER (4.2.2)	ATTACH	
LWC-22.	Min. 22 ga., Type BV, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws with 3/4" washers; 6" o.c.	Min. 200 psi, min. 2-inch thick new FBC Approved LWC or pre-existent LWC	One or more layers, any combination, min. 2-inch total thickness, min. 16-psi top layer	Prelim. attach to steel deck	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate through LWC to engage steel deck	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Laps sealed with 1.5-inch heat weld.	-67.5

**TABLE 4d: LIGHTWEIGHT INSULATING CONCRETE OVER STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
 SYSTEM TYPE E-1: NON-INSULATED, MECHANICALLY ATTACHED ROOF COVER**

SYSTEM NO.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2d)	ROOF COVER (3.1.4c)			MDP (PSF)
			MEMBRANE	FASTENER (4.2.2)	ATTACH	
LWC-23.	Min. 22 ga., Type BV, Grade 50 steel; 6 ft span; 5/8" puddle welds; 6" o.c.	Min. 200 psi, min. 2-inch thick new FBC Approved LWC or pre-existent LWC	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate through LWC to engage steel deck	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Lap sealed with 1.5-inch heat weld	-45.0
LWC-24.	Min. 22 ga., Type BV, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws with 3/4" washers; 6" o.c.	Min. 200 psi, min. 2-inch thick new FBC Approved LWC or pre-existent LWC	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate through LWC to engage steel deck	12-inch o.c. within 6-inch wide laps spaced 54-inch o.c. Laps sealed with 1.5-inch heat weld.	-52.5
LWC-25.	Min. 22 ga., Type BV Grade 80 steel; 6 ft span; #12 HWH Tek 5 screws with 3/4" washers; 6" o.c.	Min. 200 psi, min. 2-inch thick new FBC Approved LWC or pre-existent LWC	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate through LWC to engage steel deck	12-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Laps sealed with 1.5-inch heat weld.	-52.5
LWC-26.	Min. 22 ga., Type BV, Grade 50 steel; 6 ft span; #12-24 HWH screws; 6" o.c.	Min. 200 psi, min. 2-inch thick new FBC Approved LWC or pre-existent LWC	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate through LWC to engage steel deck	6-inch o.c. within 6-inch wide laps spaced 54-inch o.c. Lap sealed with 1.5-inch heat weld	-67.5
LWC-27.	Min. 22 ga., Type BV, Grade 33 steel; 6 ft span; #12 HWH Tek 5 screws with 3/4" washers; 6" o.c.	Min. 200 psi, min. 2-inch thick new FBC Approved LWC or pre-existent LWC	SENTINEL P150, P200, KEE P150 or KEE P200	SOPREMA #15 HD Fastener with SOPREMA 2.4" Seam Plate through LWC to engage steel deck	6-inch o.c. within 6-inch wide laps spaced 114-inch o.c. Laps sealed with 1.5-inch heat weld.	-67.5



TABLE 4E: LIGHTWEIGHT INSULATING CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: LWC TO DECK, MECHANICALLY ATTACHED SOPRAPHIX, BONDED ROOF COVER
REFER TO [TABLE VB-4](#) FOR VAPOR BARRIER OPTIONS BETWEEN THE DECK AND THE LWC

SYSTEM No.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2b)	BASE MEMBRANE			ROOF COVER (3.1.4)		MDP (PSF)
			BASE	FASTENER (4.2.2)	ATTACH	PLY	CAP	
CELCORE (FL2037):								
LWC-28.	Min. 22 ga., type BV, Grade 33 steel or min. 2,500 psi structural concrete	Celcore Cellular Concrete, Min. 200 psi, Min. 2-inch top coat. After setting to support foot traffic, Celcore PVA Curing Compound.	SOPRAPHIX Base 622	Tri-Fixx	10-inch o.c. within min. 5-inch wide, heat-welded side laps	None	FB-SPF-HFO	-37.5
LWC-29.	Min. 20 ga. Type N or DR steel; 8 ft span	Celcore MF with Celcore HS Rheology Modifying Admixture, Min. 260 psi, Min. 2-inch top coat. After setting to support foot traffic, Celcore PVA Curing Compound.	SOPRAPHIX Base 622	Tri-Fixx	10-inch o.c. within min. 5-inch wide, heat-welded side laps	None	FB-SPF-HFO	-37.5
LWC-30.	Min. 22 ga., type BV, Grade 33 steel or min. 2,500 psi structural concrete	Celcore Cellular Concrete, Min. 200 psi, Min. 2-inch top coat. After setting to support foot traffic, Celcore PVA Curing Compound.	SOPRAPHIX Base 613	Tri-Fixx	10-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-37.5
LWC-31.	Min. 20 ga. Type N or DR steel; 8 ft span	Celcore MF with Celcore HS Rheology Modifying Admixture, Min. 260 psi, Min. 2-inch top coat. After setting to support foot traffic, Celcore PVA Curing Compound.	SOPRAPHIX Base 613	Tri-Fixx	10-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-37.5
LWC-32.	Min. 22 ga., type BV, Grade 40 steel, min. 20 ga., Type N or DR steel; 8 ft span or min. 2,500 psi structural concrete	Deck treated with Celcore S-1. Celcore MF with Celcore HS Rheology Modifying Admixture, Min. 300 psi, Min. 2-inch top coat. After setting to support foot traffic, Celcore PVA Curing Compound. Optional Celcore SBS (Sanded Bonding Surface) may be applied.	SOPRAPHIX Base 622	Versa-Fast Fasteners & Plate	Versa-Fast Plate 9-inch o.c. within min. 5-inch wide, heat-welded side laps. Two (2) min. 2¼" long Versa-Fast Fasteners installed 180° into the holes of the Versa-Fast Plate, parallel to the width-direction of the sheet.	None	FB-SPF-HFO	-45.0
LWC-33.	Min. 22 ga., type BV, Grade 40 steel, min. 20 ga., Type N or DR steel; 8 ft span or min. 2,500 psi structural concrete	Deck treated with Celcore S-1. Celcore MF with Celcore HS Rheology Modifying Admixture, Min. 300 psi, Min. 2-inch top coat. After setting to support foot traffic, Celcore PVA Curing Compound. Optional Celcore SBS (Sanded Bonding Surface) may be applied.	SOPRAPHIX Base 613	Versa-Fast Fasteners & Plate	Versa-Fast Plate 9-inch o.c. within min. 5-inch wide, heat-welded side laps. Two (2) min. 2¼" long Versa-Fast Fasteners installed 180° into the holes of the Versa-Fast Plate, parallel to the width-direction of the sheet.	SBS-TAF	FB-SPF-HFO	-45.0
LWC-34.	Min. 22 ga., type BV, Grade 33 steel or min. 2,500 psi structural concrete	Celcore Cellular Concrete, Min. 200 psi, Min. 2-inch top coat. After setting to support foot traffic, Celcore PVA Curing Compound.	SOPRAPHIX Base 622	Tri-Fixx	9-inch o.c. within min. 5-inch wide, heat-welded side laps	None	FB-SPF-HFO	-45.0
LWC-35.	Min. 20 ga. Type N or DR steel; 8 ft span	Celcore MF with Celcore HS Rheology Modifying Admixture, Min. 260 psi, Min. 2-inch top coat. After setting to support foot traffic, Celcore PVA Curing Compound.	SOPRAPHIX Base 622	Tri-Fixx	9-inch o.c. within min. 5-inch wide, heat-welded side laps	None	FB-SPF-HFO	-45.0
LWC-36.	Min. 22 ga., type BV, Grade 33 steel or min. 2,500 psi structural concrete	Celcore Cellular Concrete, Min. 200 psi, Min. 2-inch top coat. After setting to support foot traffic, Celcore PVA Curing Compound.	SOPRAPHIX Base 613	Tri-Fixx	9-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-45.0



TABLE 4E: LIGHTWEIGHT INSULATING CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: LWC TO DECK, MECHANICALLY ATTACHED SOPRAPHIX, BONDED ROOF COVER
 REFER TO [TABLE VB-4](#) FOR VAPOR BARRIER OPTIONS BETWEEN THE DECK AND THE LWC

SYSTEM No.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2b)	BASE MEMBRANE			ROOF COVER (3.1.4)		MDP (PSF)
			BASE	FASTENER (4.2.2)	ATTACH	PLY	CAP	
LWC-37.	Min. 20 ga. Type N or DR steel; 8 ft span	Celcore MF with Celcore HS Rheology Modifying Admixture, Min. 260 psi, Min. 2-inch top coat. After setting to support foot traffic, Celcore PVA Curing Compound.	SOPRAPHIX Base 613	Tri-Fixx	9-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-45.0
LWC-38.	Structural concrete	Treatment: Optional, Celcore S-1. LWC: Celcore MF with Celcore HS Rheology Modifying Admixture, Min. 390 psi, Min. 2-inch top coat. After setting to support foot traffic, Celcore PVA Curing Compound. Surfacing: Optional, Celcore SBS (Sanded Bonding Surface).	SOPRAPHIX Base 622	Versa-Fast Fasteners & Plate	Versa-Fast Plate 10-inch o.c. within min. 5-inch wide, heat-welded side laps. Two (2) min. 2¼" long Versa-Fast Fasteners installed 180° into the holes of the Versa-Fast Plate, parallel to the width-direction of the sheet.	None	FB-SPF-HFO	-45.0
LWC-39.	Structural concrete	Treatment: Optional, Celcore S-1. LWC: Celcore MF with Celcore HS Rheology Modifying Admixture, Min. 390 psi, Min. 2-inch top coat. After setting to support foot traffic, Celcore PVA Curing Compound. Surfacing: Optional, Celcore SBS (Sanded Bonding Surface).	SOPRAPHIX Base 613	Versa-Fast Fasteners & Plate	Versa-Fast Plate 10-inch o.c. within min. 5-inch wide, heat-welded side laps. Two (2) min. 2¼" long Versa-Fast Fasteners installed 180° into the holes of the Versa-Fast Plate, parallel to the width-direction of the sheet.	SBS-TAF	FB-SPF-HFO	-45.0
LWC-40.	Structural concrete	Treatment: Optional when Vapor Barrier installed, Celcore S-1. LWC: Celcore MF with Celcore HS Rheology Modifying Admixture, Min. 390 psi, Min. 2-inch top coat. After setting to support foot traffic, Celcore PVA Curing Compound. Surfacing: Optional, Celcore SBS (Sanded Bonding Surface).	SOPRAPHIX Base 613	Versa-Fast Fasteners & Plate	Versa-Fast Plate 10-inch o.c. within min. 5-inch wide, heat-welded side laps. Four (4) min. 2¼" long Versa-Fast Fasteners installed into every-other hole of the Versa-Fast Plate, forming a square pattern with the square edges oriented in the principle directions of the roll.	SBS-TAF	FB-SPF-HFO	-75.0
LWC-41.	Min. 20 ga., Type N or DR steel; 8 ft span	Celcore MF with Celcore HS Rheology Modifying Admixture, Min. 390 psi, Min. 2-inch top coat. . After setting to support foot traffic, Celcore PVA Curing Compound.	SOPRAPHIX Base 613	Versa-Fast Fasteners & Plate	Versa-Fast Plate 10-inch o.c. within min. 5-inch wide, heat-welded side laps. Four (4) min. 2¼" long Versa-Fast Fasteners installed into every-other hole of the Versa-Fast Plate, forming a square pattern with the square edges oriented in the principle directions of the roll.	SBS-TAF	FB-SPF-HFO	-75.0
CONCRECEL (FL5584 & FL10500):								
LWC-42.	Min. 22 ga. type BV, Grade 33 steel or min. 2,500 psi structural concrete	Min. 200 psi, min. 2.5-inch thick Concrecel Concrete	SOPRAPHIX Base 622	Tri-Fixx	10-inch o.c. within min. 5-inch wide, heat-welded side laps	None	FB-SPF-HFO	-37.5
LWC-43.	Min. 22 ga. type BV, Grade 33 steel or min. 2,500 psi structural concrete	Min. 200 psi, min. 2.5-inch thick Concrecel Concrete	SOPRAPHIX Base 613	Tri-Fixx	10-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-37.5
LWC-44.	Min. 22 ga. type BV, Grade 33 steel or min. 2,500 psi structural concrete	Min. 200 psi, min. 2.5-inch thick Concrecel Concrete	SOPRAPHIX Base 622	Tri-Fixx	9-inch o.c. within min. 5-inch wide, heat-welded side laps	None	FB-SPF-HFO	-45.0



TABLE 4E: LIGHTWEIGHT INSULATING CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: LWC TO DECK, MECHANICALLY ATTACHED SOPRAPHIX, BONDED ROOF COVER
 REFER TO [TABLE VB-4](#) FOR VAPOR BARRIER OPTIONS BETWEEN THE DECK AND THE LWC

SYSTEM No.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2b)	BASE MEMBRANE			ROOF COVER (3.1.4)		MDP (PSF)
			BASE	FASTENER (4.2.2)	ATTACH	PLY	CAP	
LWC-45.	Min. 22 ga. type BV, Grade 33 steel or min. 2,500 psi structural concrete	Min. 200 psi, min. 2.5-inch thick Concrecel Concrete	SOPRAPHIX Base 613	Tri-Fixx	9-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-45.0
LWC-46.	Min. 22 ga. type BV, Grade 33 steel or min. 2,500 psi structural concrete	Min. 300 psi, min. 2.25-inch thick Concrecel Concrete	SOPRAPHIX Base 613	Tri-Fixx	7-inch o.c. within min. 5-inch wide heat-welded side laps	SBS-TAF	FB-SPF-HFO	-52.5
ELASTIZELL (FL4994):								
LWC-47.	Min. 22 ga. type BV, Grade 33 steel or min. 2,500 psi structural concrete	Min. 200 psi, min 2.5-inch thick Range II Elastizell Lightweight Insulating Concrete.	SOPRAPHIX Base 622	Tri-Fixx	10-inch o.c. within min. 5-inch wide, heat-welded side laps	None	FB-SPF-HFO	-37.5
LWC-48.	Min. 22 ga. type BV, Grade 33 steel or min. 2,500 psi structural concrete	Min. 200 psi, min 2.5-inch thick Range II Elastizell Lightweight Insulating Concrete.	SOPRAPHIX Base 613	Tri-Fixx	10-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-37.5
LWC-49.	Min. 22 ga. type BV, Grade 33 steel or min. 2,500 psi structural concrete	Min. 200 psi, min 2.5-inch thick Range II Elastizell Lightweight Insulating Concrete.	SOPRAPHIX Base 622	Tri-Fixx	9-inch o.c. within min. 5-inch wide, heat-welded side laps	None	FB-SPF-HFO	-45.0
LWC-50.	Min. 22 ga. type BV, Grade 33 steel or min. 2,500 psi structural concrete	Min. 200 psi, min 2.5-inch thick Range II Elastizell Lightweight Insulating Concrete.	SOPRAPHIX Base 613	Tri-Fixx	9-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-45.0
LWC-51.	Min. 22 ga. type BV, Grade 33 steel or min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch thick Elastizell Lightweight Insulating Concrete.	SOPRAPHIX Base 613	Tri-Fixx	8-inch o.c. within min. 5-inch wide, heat-welded side laps and 8-inch o.c. in one center row	SBS-TAF	FB-SPF-HFO	-67.5
MEARLCRETE (FL13492):								
LWC-52.	Min. 22 ga. type BV, Grade 33 steel or min. 2,500 psi structural concrete	Min. 200 psi, min. 2.5-inch thick Mearlcrete	SOPRAPHIX Base 622	Tri-Fixx	10-inch o.c. within min. 5-inch wide, heat-welded side laps	None	FB-SPF-HFO	-37.5
LWC-53.	Min. 22 ga. type BV, Grade 33 steel or min. 2,500 psi structural concrete	Min. 200 psi, min. 2.5-inch thick Mearlcrete	SOPRAPHIX Base 613	Tri-Fixx	10-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-37.5
LWC-54.	Min. 22 ga. type BV, Grade 33 steel or min. 2,500 psi structural concrete	Min. 200 psi, min. 2.5-inch thick Mearlcrete	SOPRAPHIX Base 622	Tri-Fixx	9-inch o.c. within min. 5-inch wide, heat-welded side laps	None	FB-SPF-HFO	-45.0
LWC-55.	Min. 22 ga. type BV, Grade 33 steel or min. 2,500 psi structural concrete	Min. 200 psi, min. 2.5-inch thick Mearlcrete	SOPRAPHIX Base 613	Tri-Fixx	9-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-45.0
LWC-56.	Min. 22 ga. type BV, Grade 33 steel or min. 2,500 psi structural concrete	Min. 250 psi, min. 2-inch thick Mearlcrete	SOPRAPHIX Base 613	Tri-Fixx	8-inch o.c. within min. 5-inch wide, heat-welded side laps and 8-inch o.c. in one center row	SBS-TAF	FB-SPF-HFO	-75.0
PRE-EXISTENT CELLULAR LWC:								
LWC-57.	Min. 22 ga., type BV, Grade 40 steel; 6 ft span or min. 2,500 psi structural concrete	Cellular lightweight concrete, Min. 300 psi, Min. 2-inch top coat	SOPRAPHIX Base 622	Tri-Fixx	10-inch o.c. within min. 5-inch wide, heat-welded side laps	None	FB-SPF-HFO	-45.0
NOTE: To qualify the LWIC under this assembly, a Tri-Fixx fastener shall achieve an average withdrawal of 215 lbf when tested per 4.2.2 .								
LWC-58.	Min. 22 ga., type BV, Grade 40 steel; 6 ft span or min. 2,500 psi structural concrete	Cellular lightweight concrete, Min. 300 psi, Min. 2-inch top coat	SOPRAPHIX Base 613	Tri-Fixx	10-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-45.0
NOTE: To qualify the LWIC under this assembly, a Tri-Fixx fastener shall achieve an average withdrawal of 215 lbf when tested per 4.2.2 .								



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TABLE 4E: LIGHTWEIGHT INSULATING CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE E-2: LWC TO DECK, MECHANICALLY ATTACHED SOPRAPHIX, BONDED ROOF COVER

REFER TO [TABLE VB-4](#) FOR VAPOR BARRIER OPTIONS BETWEEN THE DECK AND THE LWC

SYSTEM No.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2b)	BASE MEMBRANE			ROOF COVER (3.1.4)		MDP (PSF)
			BASE	FASTENER (4.2.2)	ATTACH	PLY	CAP	
LWC-59.	Min. 22 ga., type BV, Grade 40 steel; 6 ft span or min. 2,500 psi structural concrete	Cellular lightweight concrete, Min. 370 psi, Min. 2-inch top coat	SOPRAPHIX Base 613	Tri-Fixx	6-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-67.5
<i>NOTE: To qualify the LWIC under this assembly, a Tri-Fixx fastener shall achieve an average withdrawal of 193 lbf when tested per 4.2.2.</i>								
LWC-60.	Min. 22 ga., type BV, Grade 40 steel; 6 ft span or min. 2,500 psi structural concrete	Cellular lightweight concrete, Min. 500 psi, Min. 2-inch top coat.	SOPRAPHIX Base 613	Tri-Fixx	8-inch o.c. within min. 5-inch laps wide, heat-welded side laps and 8-inch o.c. at one center row	SBS-TAF	FB-SPF-HFO	-82.5
<i>NOTE: To qualify the LWIC under this assembly, a Tri-Fixx fastener shall achieve an average withdrawal of 158 lbf when tested per 4.2.2.</i>								



TABLE 4F: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

REFER TO TABLE VB-4 FOR VAPOR BARRIER OPTIONS BETWEEN THE DECK AND THE LWC

Table with 10 columns: SYSTEM NO., DECK, LIGHTWEIGHT CONCRETE, TYPE, FASTENER, ATTACH, BASE, PLY, CAP, MDP. Rows are categorized by concrete type: CELCORE (FL2037), CONCRECEL (FL5584 & FL10500), and ELASTIZELL (FL4994).



TABLE 4F: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER
 REFER TO [TABLE VB-4](#) FOR VAPOR BARRIER OPTIONS BETWEEN THE DECK AND THE LWC

SYSTEM NO.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2d)	BASE SHEET			ROOF COVER (3.1.4)			MDP (Psf)
			TYPE	FASTENER (4.2.2)	ATTACH	BASE	PLY	CAP	
LWC-68.	Min. 22 ga., Type BV, Grade 33 steel; 7 ft span	Min. 380 psi, min. 2-inch thick Elastizell cellular lightweight concrete cast with Zell Fibers in the mix.	CertainTeed Flexiglas Base Sheet, GAFGLAS #75, JM PermaPly 28	SOPREMA Twin Loc-Nail (min. 1.8 in.)	7.5-inch o.c. at the 3-inch laps and 7.5-inch o.c. in one staggered row in the center of the sheet	None	None	FB-SPF-HFO	-37.5
LWC-69.	Min. 22 ga., Type BV, Grade 33 steel; 5 ft span or min. 2,500 psi structural concrete	Min. 200 psi, min 2-inch thick Range II Elastizell Lightweight Insulating Concrete.	MODIFIED SOPRA G, SOPRA 4897, SOPRABASE TG	SOPREMA 1.7 in. Base Sheet Fastener or SOPREMA Twin Loc-Nail (min. 1.8 in.)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0
LWC-70.	Min. 22 ga., Type BV, Grade 40 steel; 7 ft span	Min. 350 psi, min. 2-inch thick Elastizell cellular lightweight concrete cast with Zell Fibers in the mix.	CertainTeed Flexiglas Base Sheet, GAFGLAS #75, JM PermaPly 28	SOPREMA Twin Loc-Nail (min. 1.8 in.)	7.5-inch o.c. at the 3-inch laps and 7.5-inch o.c. in two, equally spaced, staggered row in the center of the sheet	None	None	FB-SPF-HFO	-67.5
MEARLCRETE (FL13492):									
LWC-71.	Min. 22 ga. Type BV, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 200 psi, min 2.5-inch thick Mearlcrete	MODIFIED SOPRA G, SOPRA 4897, SOPRABASE TG	SOPREMA 1.7 in. Base Sheet Fastener	7-inch o.c. at the 4-inch laps and 7-inch o.c. in two equally spaced, staggered center rows	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0
LWC-72.	Min. 22 ga. Type BV, Grade 33 steel; 5 ft span or min. 2,500 psi structural concrete	Min. 250 psi, min 2-inch thick Mearlcrete.	MODIFIED SOPRA G, SOPRA 4897, SOPRABASE TG	OMG CR Base Ply Fastener (1.7)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-52.5
SIPLAST NVS INSULATING CONCRETE:									
LWC-73.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 310 psi NVS® lightweight concrete composed of NVS Concrete Aggregate, Portland cement and water; min. ¾" slurry coat with min. 1" EPS holey board and min. 1" thick top coat applied after overnight cure of slurry coat	MODIFIED SOPRA G, SOPRA 4897, SOPRABASE TG	SOPREMA 1.2 in. Base Sheet Fastener	9-inch o.c. at the 3.5-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-45.0
PRE-EXISTENT CELLULAR LWC:									
LWC-74.	Min. 22 ga. type B steel; 5 ft span or min. 2,500 psi structural concrete	Cellular lightweight concrete, Min. 300 psi, Min. 2-inch top coat.	MODIFIED SOPRA G, SOPRA 4897	SOPREMA Twin Loc-Nail (min. 1.8 in.)	9-inch o.c. at 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-60.0
NOTE: To qualify the LWIC under this assembly, a 1.8-inch Twin Loc-Nail shall achieve an average withdrawal of 88 lbf when tested per 4.2.2 .									



TABLE 4F: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER
REFER TO [TABLE VB-4](#) FOR VAPOR BARRIER OPTIONS BETWEEN THE DECK AND THE LWC

SYSTEM NO.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2d)	BASE SHEET			ROOF COVER (3.1.4)			MDP (psf)
			TYPE	FASTENER (4.2.2)	ATTACH	BASE	PLY	CAP	
LWC-75.	Min. 22 ga. type B steel; 5 ft span or min. 2,500 psi structural concrete	Cellular lightweight concrete, Min. 300 psi, Min. 2-inch top coat.	SOPRABASE TG	SOPREMA Twin Loc-Nail (min. 1.8 in.)	9-inch o.c. at 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-75.0
<i>NOTE: To qualify the LWIC under this assembly, a 1.8-inch Twin Loc-Nail shall achieve an average withdrawal of 110 lbf when tested per 4.2.2.</i>									

TABLE 4G: LIGHTWEIGHT CONCRETE OVER STEEL DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2d)			PRIMER	ROOF COVER (3.1.4)			MDP (psf)
		BONDING AGENT	TYPE	SURFACE TREATMENT		BASE	PLY	CAP	
CELCORE (FL2037):									
LWC-76.	Min. 22 ga., Type BV, Grade 33 steel deck; 5 ft span or min. 20 ga., Type N or DR steel; 8 ft span	None	Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture, Min. 350 psi, min. 2-inch thick	Celcore PVA Curing Compound	None	None	None	FB-SPF-HFO	-45.0
LWC-77.	Min. 22 ga., Type BV, Grade 33 steel deck; 4 ft span or min. 20 ga., Type N or DR steel; 8 ft span	None	Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture, Min. 350 psi, min. 2-inch thick	Celcore PVA Curing Compound	None	None	None	FB-H2O, FB-SPF-HFO	-60.0
LWC-78.	Min. 22 ga., type BV, Grade 40 steel; 6 ft span	None	Celcore Cellular Concrete, Min. 380 psi, min. 2-inch thick	None	(Optional) ASTM D41, ELASTOCOL 500, ELASTOCOL Stick	SBS-CA2, 6-inch o.c.	(Optional) SBS-TAF	FB-SPF-HFO	-60.0
LWC-79.	Min. 22 ga., type BV, Grade 40 steel; 6 ft span or min. 20 ga., Type N or DR steel; 8 ft span	Celcore S-1 Deck Preparation Slurry	Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture, Min. 340 psi, min. 2-inch thick	Celcore PVA Curing Compound	None	SBS-CA2, 6-inch o.c.	(Optional) SBS-TAF	FB-SPF-HFO	-60.0
LWC-80.	Min. 20 ga., Type N or DR steel; 8 ft span	Celcore S-1 Deck Preparation Slurry	Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture, Min. 340 psi, min. 2-inch thick	Celcore PVA Curing Compound	None	None	None	FB-SPF-HFO	-75.0
LWC-81.	Min. 20 ga., Type N or DR steel; 8 ft span	Celcore S-1 Deck Preparation Slurry	Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture, Min. 340 psi, min. 2-inch thick	Celcore PVA Curing Compound	None	SBS-CA2, 6-inch o.c.	(Optional) SBS-TAF	FB-SPF-HFO	-75.0
LWC-82.	Min. 22 ga., Type BV, Grade 60 steel deck; 6 ft span	Celcore S-1 Deck Preparation Slurry	Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture, Min. 340 psi, min. 2-inch thick	Celcore PVA Curing Compound	None	None	None	FB-SPF-HFO	-82.5
LWC-83.	Min. 22 ga., Type BV, Grade 60 steel deck; 5 ft span	Celcore S-1 Deck Preparation Slurry	Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture, Min. 390 psi, min. 2-inch thick	Celcore PVA Curing Compound	None	None	None	FB-SPF-HFO	-90.0
LWC-84.	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	Celcore S-1 Deck Preparation Slurry	Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture, Min. 340 psi, min. 2-inch thick	Celcore PVA Curing Compound	None	SBS-CA2, 6-inch o.c.	(Optional) SBS-TAF	FB-SPF-HFO	-90.0



**TABLE 4G: LIGHTWEIGHT CONCRETE OVER STEEL DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
 SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

SYSTEM NO.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2b)			PRIMER	ROOF COVER (3.1.4)			MDP (PSE)
		BONDING AGENT	TYPE	SURFACE TREATMENT		BASE	PLY	CAP	
CONCRECEL (FL5584 & FL10500):									
LWC-85.	Min. 22 ga., type BV, Grade 33 steel; 5 ft span	Concrecel Bonding Agent at 1200 ft ² /gal.	Concrecel Concrete, Min. 300 psi, min. 2.25-inch thick	Concrecel Curing Compound	(Optional) ASTM D41, ELASTOCOL 500, ELASTOCOL Stick	SBS-CA2, 6-inch o.c.	(Optional) SBS-TAF	FB-SPF-HFO	-60.0
ELASTIZELL (FL4994):									
LWC-86.	Min. 22 ga., Type BV, Grade 33 steel; 7 ft span	None	Elastizell with Zell-Crete Fibers, Min. 350 psi, min. 2-inch thick	None	None	None	None	FB-SPF-HFO	-52.5
LWC-87.	Min. 22 ga., type BV, Grade 33 steel; 6 ft span	None	Elastizell with Zell-Crete Fibers, Min. 710 psi, min. 2-inch thick	None	(Optional) ASTM D41, ELASTOCOL 500, ELASTOCOL Stick	SBS-CA2, 6-inch o.c.	(Optional) SBS-TAF	FB-SPF-HFO	-60.0
PRE-EXISTENT CELLULAR LWC:									
LWC-88.	Min. 22 ga., type BV, Grade 40 steel; 6 ft span	None	Cellular lightweight concrete, Min. 370 psi, Min. 2-inch top coat	None	None	None	None	FB-SPF-HFO	-67.5
<i>NOTE: To qualify the LWIC under this assembly, a SOPREMA 1.7 in. Base Sheet Fastener shall achieve an average withdrawal of 156 lbf when tested per 4.2.2.</i>									

**TABLE 4H: LIGHTWEIGHT INSULATING CONCRETE OVER STEEL OR CWF DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
 SYSTEM TYPE F: THERMAL BARRIER TO DECK, TEMP ROOF TO THERMAL BARRIER, LWC TO TEMP ROOF, BONDED ROOF COVER**

SYSTEM NO.	DECK (4.1.2)	THERMAL BARRIER			TEMP ROOF (3.1.4)	LIGHTWEIGHT CONCRETE (3.1.2b)	ROOF COVER (3.1.4)			MDP (PSE)
		TYPE	FASTENER (4.2.2)	ATTACH (3.1.2c)			BASE	PLY	CAP	
CELCORE (FL2037):										
LWC-89.	Min. 22 ga. type B steel at max. 6 ft span	Min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	3.1.1	1 per 1.6 ft ²	SBS-AA (sanded top)	Min. 340 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound.	None	None	FB-SPF-HFO	-60.0
LWC-90.	Min. 22 ga. type B steel at max. 6 ft span	Min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	3.1.1	1 per 1.6 ft ²	SBS-TAF (sanded top)	Min. 340 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound.	None	None	FB-SPF-HFO	-75.0
LWC-91.	Min. 22 ga. type B, Grade 33 steel at max. 6 ft span	Min. 0.625-inch DensDeck Prime	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	SBS-TAF (sanded top)	Min. 340 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound.	None	None	FB-SPF-HFO	-82.5
LWC-92.	22 ga., Type B, Grade 40 steel at max. 6 ft span	Min. 0.5-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365	6-inch o.c.	SBS-AA or SBS-TAF (sanded top)	Min. 340 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound.	None	None	FB-SPF-HFO	-82.5
LWC-93.	Min. 2-inch Tectum	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	4-inch o.c.	SBS-AA or SBS-TAF (sanded top)	Min. 340 psi, min 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture. After setting to support foot traffic, Celcore PVA Curing Compound.	None	None	FB-SPF-HFO	-82.5



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TABLE 4: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER

REFER TO [TABLE VB-4](#) FOR VAPOR BARRIER OPTIONS BETWEEN THE DECK AND THE LWC

SYSTEM NO.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2b)			PRIMER	ROOF COVER (3.1.4)			MDP (PSF)
		BONDING AGENT / PRIMER	TYPE	SURFACE TREATMENT		BASE	PLY	CAP	
CELCORE (FL2037):									
LWC-94.	Min. 2,500 psi structural concrete	None	Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture, Min. 350 psi, min. 2-inch thick	Celcore PVA Curing Compound	None	None	None	FB-H2O	-82.5
LWC-95.	Min. 2,500 psi structural concrete	None	Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture, Min. 330 psi, min. 2-inch thick	Celcore PVA Curing Compound	None	SBS-CA2, 6-inch o.c.	(Optional) SBS-TAF	FB-SPF-HFO	-180.0
LWC-96.	Min. 2,500 psi structural concrete	None	Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture, Min. 350 psi, min. 2-inch thick	Celcore PVA Curing Compound	None	None	None	FB-SPF-HFO	-367.5
ELASTIZELL (FL4994):									
LWC-97.	Min. 2,500 psi structural concrete	None	Elastizell with Zell-Crete Fibers, Min. 270 psi, min. 2-inch thick	None	None	None	None	BB-PVC-H2O	-75.0
LWC-98.	Min. 2,500 psi structural concrete	None	Elastizell with Zell-Crete Fibers, Min. 270 psi, min. 2-inch thick	None	None	None	None	BB-PVC-SBA or BB-KEE-SBA	-90.0
PRE-EXISTENT CELLULAR LWC:									
LWC-99.	Min. 2,500 psi structural concrete	None	Pre-existent cellular lightweight concrete, Min. 160 psi, Min. 2-inch top coat	None	None	None	None	FB-SPF-HFO at 8 lbs/square.	-502.5
NOTE: To qualify the LWIC under this assembly, a SOPREMA 1.7 in. Base Sheet Fastener shall achieve an average withdrawal of 49 lbf when tested per 4.2.2 .									



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

REFER TO [TABLE VB-5](#) FOR VAPOR BARRIER OPTIONS

SYSTEM No.	DECK (4.1.2, 4.2.2)	BASE INSULATION LAYER		TOP INSULATION LAYER		ROOF COVER (3.1.4)			MDP (PSF)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
PVC BAREBACK MEMBRANE APPLICATIONS:									
CWF-1.	Existing min. 2.5-inch Tectum Plank or Tectum LS Plank	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK, 6-inch o.c.	None	N/A	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-150.0
CWF-2.	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-75.0
CWF-3.	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	None	None	BB-PVC-SBA or BB-PVC-H2O	-75.0
CWF-4.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-75.0
KEE BAREBACK MEMBRANE APPLICATIONS:									
CWF-5.	Existing min. 2.5-inch Tectum Plank or Tectum LS Plank	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK, 6-inch o.c.	None	N/A	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-150.0
CWF-6.	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-75.0
CWF-7.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-75.0
FLEECEBACK MEMBRANE APPLICATIONS:									
CWF-8.	Existing min. 2.5-inch Tectum Plank or Tectum LS Plank	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK, 6-inch o.c.	None	N/A	None	None	FB-H2O	-150.0
CWF-9.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or SOPRA-ISO+ r	DUOTACK, 4-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board primed with ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	FB-SPF-HFO	-163.0
CWF-10.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or SOPRA-ISO+ r	DUOTACK, 4-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-163.0



TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

REFER TO [TABLE VB-5](#) FOR VAPOR BARRIER OPTIONS

SYSTEM No.	DECK (4.1.2, 4.2.2)	BASE INSULATION LAYER		TOP INSULATION LAYER		ROOF COVER (3.1.4)			MDP (Psf)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
CWF-11.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or SOPRA-ISO+ r	DUOTACK, 4-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board primed with ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	DUOTACK, 6-inch o.c.	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	FB-SPF-HFO	-185.0
CWF-12.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or SOPRA-ISO+ r	DUOTACK, 4-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 6-inch o.c.	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-185.0
CWF-13.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board primed with ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	DUOTACK, 4-inch o.c.	None	N/A	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	FB-SPF-HFO	-185.0
CWF-14.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	None	N/A	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-185.0
CWF-15.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or SOPRA-ISO+ r	DUOTACK, 4-inch o.c.	Min. 7/16-inch DEXcell Cement Roof Board primed with ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	FB-SPF-HFO	-190.0
CWF-16.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or SOPRA-ISO+ r	DUOTACK, 4-inch o.c.	Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-190.0
CWF-17.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or SOPRA-ISO+ r	DUOTACK, 4-inch o.c.	Min. 7/16-inch DEXcell Cement Roof Board primed with ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	DUOTACK, 6-inch o.c.	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	FB-SPF-HFO	-285.0
CWF-18.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or SOPRA-ISO+ r	DUOTACK, 4-inch o.c.	Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK, 6-inch o.c.	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-285.0
CWF-19.	Min. 2-inch Tectum Plank	Min. 7/16-inch DEXcell Cement Roof Board primed with ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	DUOTACK, 4-inch o.c.	None	N/A	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	FB-SPF-HFO	-285.0
CWF-20.	Min. 2-inch Tectum Plank	Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK, 4-inch o.c.	None	N/A	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-285.0
CWF-21.	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	None	None	FB-H2O or FB-SPF-HFO	-75.0
CWF-22.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	FB-H2O or FB-SPF-HFO	-75.0



TABLE 5a: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

REFER TO TABLE VB-5 FOR VAPOR BARRIER OPTIONS

SYSTEM No.	DECK (4.1.2, 4.2.2)	BASE INSULATION LAYER		TOP INSULATION LAYER		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
CWF-23.	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-75.0
CWF-24.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK 365 or DUOTACK SPF HFO, 6-inch o.c.	Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK 365 or DUOTACK SPF HFO	None	None	FB-H2O or FB-SPF-HFO	-187.5
CWF-25.	Min. 2-inch Tectum Plank	Min. 0.125-inch SOPRABOARD. Top surface shall be primed with ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	DUOTACK 365 or DUOTACK SPF HFO, 6-inch o.c.	None	N/A	SBS-SA1	(Optional) SBS-SA or SBS-TAF	FB-SPF-HFO	-270.0
CWF-26.	Min. 2-inch Tectum Plank	Min. 0.125-inch SOPRABOARD	DUOTACK 365 or DUOTACK SPF HFO, 6-inch o.c.	None	N/A	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-272.5
CWF-27.	Min. 2-inch Tectum Plank	SOPRASMART Board 180 Sanded. Top surface shall be primed with ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	DUOTACK 365 or DUOTACK SPF HFO, 6-inch o.c.	None	N/A	SBS-SA1	None	FB-SPF-HFO	-272.5
CWF-28.	Min. 2-inch Tectum Plank	SOPRASMART Board 180 Sanded	DUOTACK 365 or DUOTACK SPF HFO, 6-inch o.c.	None	N/A	(Optional) SBS-TAF	None	FB-SPF-HFO	-272.5
CWF-29.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK 365 or DUOTACK SPF HFO, 6-inch o.c.	Min. 0.125-inch SOPRABOARD. Top surface shall be primed with ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	DUOTACK 365 or DUOTACK SPF HFO	SBS-SA1	(Optional) SBS-SA or SBS-TAF	FB-SPF-HFO	-270.0
CWF-30.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK 365 or DUOTACK SPF HFO, 6-inch o.c.	Min. 0.125-inch SOPRABOARD	DUOTACK 365 or DUOTACK SPF HFO	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-272.5
CWF-31.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK 365 or DUOTACK SPF HFO, 6-inch o.c.	SOPRASMART Board 180 Sanded. Top surface shall be primed with ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	DUOTACK 365 or DUOTACK SPF HFO	(Optional) SBS-SA1	None	FB-SPF-HFO	-272.5
CWF-32.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, SOPRA-ISO r, SOPRA-ISO+ r, Multi-Max FA3 or Ultra-Max	DUOTACK 365 or DUOTACK SPF HFO, 6-inch o.c.	SOPRASMART Board 180 Sanded	DUOTACK 365 or DUOTACK SPF HFO	(Optional) SBS-TAF	None	FB-SPF-HFO	-272.5



TABLE 5B: CEMENTITIOUS WOOD FIBER DECKS – REROOF (TEAR-OFF) OR RECOVER								
SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER								
SYSTEM NO.	DECK (4.1.2)	INSULATION (3.1.2, 4.2.2)	BASE SHEET			ROOF COVER (3.1.4)		MDP (psf)
			BASE	FASTENER (4.2.2)	SPACING	BASE PLY	CAP	
CWF-33.	Min. 2-inch Tectum Plank	One or more layers, any combination	SOPRABASE TG	Twin Loc-Nails, min. 1.3-inch embedment (Field W/D ≥ 59 lbf)	6-inch o.c. at 4-inch laps and 6-inch o.c. in two, equally spaced, staggered center rows	SBS-TAF	FB-SPF-HFO	-60.0

TABLE 5c: CEMENTITIOUS WOOD FIBER DECKS – REROOF (TEAR-OFF) OR RECOVER								
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER								
SYSTEM NO.	DECK (4.1.2)	BASE SHEET			ROOF COVER (3.1.4)		MDP (psf)	
		BASE	FASTENER (4.2.2)	SPACING	BASE PLY	CAP		
CWF-34.	Min. 2-inch Tectum Plank	SOPRABASE TG	Twin Loc-Nail, min. 1.3-inch embedment (Field W/D ≥ 59 lbf)	6-inch o.c. at 4-inch laps and 6-inch o.c. in two, equally spaced, staggered center rows	SBS-TAF	FB-SPF-HFO	-60.0	

TABLE 6A: GYPSUM DECKS - REROOF (TEAR-OFF)									
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER									
REFER TO TABLE VB-6 FOR VAPOR BARRIER OPTIONS.									
SYSTEM NO.	DECK (4.1.2, 4.2.2)	BASE INSULATION LAYER		TOP INSULATION LAYER		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	

PVC BAREBACK MEMBRANE APPLICATIONS:									
G-1.	Existing gypsum deck	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-162.5
G-2.	Existing gypsum deck	(Optional) Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	None	None	BB-PVC-SBA or BB-PVC-H2O	-162.5
G-3.	Existing gypsum deck	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-187.5
G-4.	Existing gypsum deck	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	N/A	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-245.0
G-5.	Existing gypsum deck	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-257.5



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

REFER TO [TABLE VB-6](#) FOR VAPOR BARRIER OPTIONS.

SYSTEM NO.	DECK (4.1.2, 4.2.2)	BASE INSULATION LAYER		TOP INSULATION LAYER		ROOF COVER (3.1.4)			MDP (Psf)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
KEE BAREBACK MEMBRANE APPLICATIONS:									
G-6.	Existing gypsum deck	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-162.5
G-7.	Existing gypsum deck	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-187.5
G-8.	Existing gypsum deck	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	N/A	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-245.0
G-9.	Existing gypsum deck	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-257.5
FLEECEBACK MEMBRANE APPLICATIONS:									
G-10.	Existing gypsum deck	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	SOPRASMART XP HD 180 Sanded	DUOTACK	None	None	FB-SPF-HFO	-52.5
G-11.	Existing gypsum deck	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	SOPRASMART XP HD 180	DUOTACK	SBS-TAF	None	FB-SPF-HFO	-52.5
G-12.	Existing gypsum deck	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-H2O or FB-SPF-HFO	-52.5
G-13.	Existing gypsum deck	(Optional) Min. 1.5-inch, min. 1.25 pcf, Insulfoam or Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board. Top surface shall be primed with ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	FB-SPF-HFO	-120.0
G-14.	Existing gypsum deck	(Optional) Min. 1.5-inch, min. 1.25 pcf, Insulfoam or Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 1.5-inch SOPRA-ISO s, ENRGY 3, SOPRA-ISO r or Multi-Max FA3	DUOTACK	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	FB-SPF-HFO	-150.0
G-15.	Existing gypsum deck	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.125-inch SOPRABOARD	DUOTACK	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-155.0



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

REFER TO TABLE VB-6 FOR VAPOR BARRIER OPTIONS.

Table with 10 columns: SYSTEM NO., DECK (4.1.2, 4.2.2), BASE INSULATION LAYER (TYPE, ATTACH (3.1.3)), TOP INSULATION LAYER (TYPE, ATTACH (3.1.3)), ROOF COVER (3.1.4) (BASE, PLY, CAP), and MDP (PSF). Rows G-16 through G-25 describe various gypsum deck configurations and their associated materials and attachment methods.



TABLE 6A: GYPSUM DECKS - REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
REFER TO [TABLE VB-6](#) FOR VAPOR BARRIER OPTIONS.

SYSTEM NO.	DECK (4.1.2, 4.2.2)	BASE INSULATION LAYER		TOP INSULATION LAYER		ROOF COVER (3.1.4)			MDP (psf)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
G-26.	Existing gypsum deck	(Optional) Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.125-inch SOPRABOARD	DUOTACK SPF HFO	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	FB-SPF-HFO	-157.5
G-27.	Existing gypsum deck	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	SOPRASMART Board 180 Sanded	DUOTACK SPF HFO	None	None	FB-SPF-HFO	-157.5
G-28.	Existing gypsum deck	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	SOPRASMART Board 180	DUOTACK SPF HFO	SBS-TAF	None	FB-SPF-HFO	-157.5
G-29.	Existing gypsum deck	(Optional) Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	SOPRASMART Board 180 Sanded. Top surface shall be primed with ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	DUOTACK SPF HFO	SBS-SA1	None	FB-SPF-HFO	-157.5
G-30.	Existing gypsum deck	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.5-inch AC Foam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	FB-H2O or FB-SPF-HFO	-187.5
G-31.	Existing gypsum deck	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board. Top surface shall be primed with ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero	DUOTACK SPF HFO	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	FB-SPF-HFO	-217.5
G-32.	Existing gypsum deck	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	SBA-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-217.5
G-33.	Existing gypsum deck	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	N/A	None	None	FB-H2O or FB-SPF-HFO	-245.0
G-34.	Existing gypsum deck	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	None	FB-H2O or FB-SPF-HFO	-257.5

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

SYSTEM NO.	DECK (4.1.2)	INSULATION (3.1.2, 4.2.2)	BASE SHEET			ROOF COVER (3.1.4)		MDP (psf)
			BASE	FASTENER (4.2.2)	SPACING	BASE PLY	CAP	
G-35.	Existing gypsum deck	One or more layers, any combination	SOPRABASE TG	Twin Loc-Nails, min. 1.3-inch embedment (Field W/D ≥ 59 lbf)	6-inch o.c. at 4-inch laps and 6-inch o.c. in two, equally spaced, staggered center rows	SBS-TAF	FB-SPF-HFO	-60.0



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

SYSTEM No.	DECK (4.1.2)	BASE MEMBRANE			ROOF COVER (3.1.4)		MDP (psf)
		BASE	FASTENER (4.2.2)	SPACING	PLY	CAP	
G-36.	Existing gypsum deck	SOPRAFIX Base 622	Tri-Fixx (Field W/D \geq 179 lbf)	10-inch o.c. within min. 5-inch wide, heat-welded side laps	None	FB-SPF-HFO	-37.5
G-37.	Existing gypsum deck	SOPRAFIX Base 613	Tri-Fixx (Field W/D \geq 179 lbf)	10-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-37.5
G-38.	Existing gypsum deck	SOPRAFIX Base 622	Tri-Fixx (Field W/D \geq 193 lbf)	9-inch o.c. within min. 5-inch wide, heat-welded side laps	None	FB-SPF-HFO	-45.0
G-39.	Existing gypsum deck	SOPRAFIX Base 613	Tri-Fixx (Field W/D \geq 193 lbf)	9-inch o.c. within min. 5-inch wide, heat-welded side laps	SBS-TAF	FB-SPF-HFO	-45.0
G-40.	Existing gypsum deck	SOPRAFIX Base 613	Tri-Fixx (Field W/D \geq 175 lbf)	7-inch o.c. within min. 5-inch wide heat-welded side laps	SBS-TAF	FB-SPF-HFO	-52.5
G-41.	Existing gypsum deck	SOPRAFIX Base 613	Tri-Fixx (Field W/D \geq 129 lbf)	8-inch o.c. within min. 5-inch wide, heat-welded side laps and 8-inch o.c. at one center row	SBS-TAF	FB-SPF-HFO	-67.5
G-42.	Existing gypsum deck	SOPRAFIX Base 613	Tri-Fixx (Field W/D \geq 143 lbf)	8-inch o.c. at 5-inch laps and 8-inch o.c. at one center row	SBS-TAF	FB-SPF-HFO	-75.0

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

SYSTEM No.	DECK (4.1.2)	BASE SHEET			ROOF COVER (3.1.4)		MDP (psf)
		BASE	FASTENER (4.2.2)	SPACING	BASE PLY	CAP	
G-43.	Existing gypsum deck	SOPRABASE TG	Twin Loc-Nails, min. 1.3-inch embedment (Field W/D \geq 59 lbf)	6-inch o.c. at 4-inch laps and 6-inch o.c. in two, equally spaced, staggered center rows	SBS-TAF	FB-SPF-HFO	-60.0

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

SYSTEM No.	DECK (4.1.2, 4.2.2)	ROOF COVER (3.1.4)			MDP (psf)
		BASE	PLY	CAP	
G-44.	Existing gypsum deck	SBS-CA2, 12-inch o.c.	SBS-TAF	FB-SPF-HFO	-60.0



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 4.1.2) or performance of the substrate (See 4.2.2). 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 (4.1.2, 4.2.2)	BASE INSULATION LAYER		TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (PSF) ^A
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
PVC BAREBACK MEMBRANE APPLICATIONS:									
R-1.	Existing sand- or granule-surface modified bitumen or asphaltic built-up roof	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-187.5
R-2.	Existing sand- or granule-surface modified bitumen or asphaltic built-up roof	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-195.0
R-3.	Existing sand- or granule-surface modified bitumen or asphaltic built-up roof	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	None	None	BB-PVC-SBA or BB-PVC-H2O	-195.0
R-4.	Existing sand-surface SBS modified bitumen	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-260.0
R-5.	Existing sand-surface SBS modified bitumen	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	None	None	BB-PVC-SBA or BB-PVC-H2O	-260.0
R-6.	Existing sand- or granule-surface modified bitumen or smooth-surface asphaltic built-up roof	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.5-inch ACfoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-187.5
R-7.	Existing sand- or granule-surface modified bitumen or asphaltic built-up roof	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	N/A	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-222.5
R-8.	Existing sand-surface SBS modified bitumen	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-222.5



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 4.1.2) or performance of the substrate (See 4.2.2). 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 (4.1.2, 4.2.2)	BASE INSULATION LAYER		TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (PSF) ^A
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
R-9.	Existing smooth-surface asphaltic built-up roof	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-262.5
R-10.	Existing granule-surface modified bitumen	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	None	BB-PVC-SBA, BB-PVC-H2O or BB-PVC-SPRAY	-270.0
KEE BAREBACK MEMBRANE APPLICATIONS:									
R-11.	Existing sand- or granule-surface modified bitumen or asphaltic built-up roof	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-187.5
R-12.	Existing sand- or granule-surface modified bitumen or asphaltic built-up roof	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-195.0
R-13.	Existing sand-surface SBS modified bitumen	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-260.0
R-14.	Existing sand- or granule-surface modified bitumen or asphaltic built-up roof	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	N/A	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-222.5
R-15.	Existing sand- or granule-surface modified bitumen or smooth-surface asphaltic built-up roof	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK SPF HFO	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-187.5
R-16.	Existing sand-surface SBS modified bitumen	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK SPF HFO	None	None	BB-KEE-SBA or BB-KEE-SPRAY	-222.5



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 4.1.2) or performance of the substrate (See 4.2.2). 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.

Table with columns: SYSTEM NO., SUBSTRATE (4.1.2, 4.2.2), BASE INSULATION LAYER (TYPE, ATTACH (3.1.3)), TOP INSULATION LAYER(S) (TYPE, ATTACH (3.1.3)), ROOF COVER (3.1.4) (BASE, PLY, CAP), and MDP (PSF)A. Rows include R-17 through R-25, with a section for FLEECEBACK MEMBRANE APPLICATIONS.



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 4.1.2) or performance of the substrate (See 4.2.2). 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 (4.1.2, 4.2.2)	BASE INSULATION LAYER		TOP INSULATION LAYER(S)		ROOF COVER (3.1.4)			MDP (PSF) ^A
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE	PLY	CAP	
R-26.	Existing sand- or granule-surface modified bitumen or asphaltic built-up roof	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.5-inch ACFoam HD Coverboard or H-Shield HD	DUOTACK	None	None	FB-H2O or FB-SPF-HFO	-187.5
R-27.	Existing sand- or granule-surface modified bitumen or asphaltic built-up roof	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.25-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-195.0
R-28.	Existing sand- or granule-surface modified bitumen or asphaltic built-up roof	(Optional) Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	None	None	FB-H2O or FB-SPF-HFO	-195.0
R-29.	Existing sand-surface SBS modified bitumen	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, or SECUROCK Ultralight Coated Glass-Mat Roof Board or min. 0.4375-inch DEXcell Cement Roof Board	DUOTACK	None	None	FB-H2O or FB-SPF-HFO	-260.0
R-30.	Existing sand-surface SBS modified bitumen	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	Min. 0.125-inch SOPRABOARD or min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-260.0
R-31.	Existing sand-surface SBS modified bitumen	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	SOPRASMART Board 180 Sanded or SOPRASMART ISO HD 180 Sanded	DUOTACK	None	None	FB-SPF-HFO	-260.0
R-32.	Existing sand-surface SBS modified bitumen	Min. 2-inch SOPRA-ISO s, SOPRA-ISO+ s, EnergyGuard Polyiso Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK	SOPRASMART Board 180 or SOPRASMART ISO HD 180	DUOTACK	SBS-TAF	None	FB-SPF-HFO	-260.0
R-33.	Existing sand- or granule-surface modified bitumen or asphaltic built-up roof	Min. 1.5-inch SOPRA-ISO s, SOPRA-ISO+ s, ENRGY 3, SOPRA-ISO r, SOPRA-ISO+ r or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.125-inch SOPRABOARD	DUOTACK SPF HFO	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-157.5



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 4.1.2) or performance of the substrate (See 4.2.2). 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.

Table with 10 columns: SYSTEM NO., SUBSTRATE (4.1.2, 4.2.2), BASE INSULATION LAYER (TYPE, ATTACH (3.1.3)), TOP INSULATION LAYER(S) (TYPE, ATTACH (3.1.3)), ROOF COVER (3.1.4) (BASE, PLY, CAP), and MDP (PSF)A. Rows R-34 through R-40 detail various roof configurations and their corresponding design pressures.



TABLE 7B: REROOF (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 4.1.2) or performance of the substrate (See 4.2.2). 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.

Table with 11 columns: SYSTEM NO., SUBSTRATE, VAPOR BARRIER, BASE INSULATION LAYER (TYPE, FASTENER, MIN. WITHDRAWAL, ATTACH), TOP INSULATION LAYER(S) (TYPE, ATTACH), ROOF COVER, and MDP (psf). Rows include PVC BAREBACK MEMBRANE APPLICATIONS (R-41 to R-45) and FLEECEBACK MEMBRANE APPLICATIONS (R-46).



TABLE 7B: REROOF (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 4.1.2) or performance of the substrate (See 4.2.2). 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.

Table with 11 columns: SYSTEM NO., SUBSTRATE, VAPOR BARRIER, BASE INSULATION LAYER (TYPE, FASTENER, MIN. WITHDRAWAL, ATTACH), TOP INSULATION LAYER(S) (TYPE, ATTACH), ROOF COVER, and MDP (PSF). Rows R-47, R-48, and R-49 detail specific material and fastener requirements.



TABLE 7C: RE-ROOF (TEAR-OFF) OR RECOVER APPLICATIONS
SYSTEM TYPE C-1: MECHANICALLY ATTACHED 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 4.1.2) or performance of the substrate (See 4.2.2). 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 (4.1.2, 4.2.2)	VAPOR BARRIER	BASE INSULATION LAYER	TOP INSULATION LAYER				ROOF COVER (3.1.4)			MDP (PSF) ^A
				TYPE	FASTENER (4.2.2)	MIN. WITHDRAWAL	ATTACH (3.1.2e)	BASE	PLY	CAP	
FLEECEBACK MEMBRANE APPLICATIONS:											
R-50.	Pre-existent min. 360 psi aggregate or min. 320 psi cellular lightweight insulating concrete or existing gypsum roof deck	(Optional) Min. 6-mil polyethylene or one or more layers Approved SOPREMA base sheet or modified bitumen sheet, loose-laid	(Optional) One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD, min. 0.25-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	Versa-Fast Plate with minimum two (2) Versa-Fast Fasteners installed 180° into the holes of the Versa-Fast Plate	≥ 187 lbf	1 per 1.8 ft ² (18 per 4x8 ft board)	SBS-TAF	(Optional) SBS-TAF	FB-SPF-HFO	-52.5

TABLE 7D: RECOVER OVER STEEL SUBSTRATE
SYSTEM TYPE C-2: INDUCTION WELDED ROOF COVER
 (All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin.)

SYSTEM No.	SUBSTRATE (4.1.2)	INSULATION LAYER	ATTACHMENT		ROOF COVER (3.1.4d)	MDP (PSF)
			FASTENER (4.2.2)	SPACING		
RHINO BOND INDUCTION WELD:						
R-51.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced max. 60-inch o.c.	One or more layers, any combination, preliminarily fastened	Trufast #12 Purlin Fastener with RhinoBond Insulation Plate (PVC)	12-inch o.c. along purlins 60-inch o.c.	SENTINEL P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-30.0
R-52.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced max. 120-inch o.c.	One or more layers, any combination, preliminarily fastened	Trufast #12 Purlin Fastener with RhinoBond Insulation Plate (PVC)	6-inch o.c. along purlins 120-inch o.c.	SENTINEL P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-45.0
R-53.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced max. 48-inch o.c.	One or more layers, any combination, preliminarily fastened	Trufast #12 Purlin Fastener with RhinoBond Insulation Plate (PVC)	12-inch o.c. along purlins 48-inch o.c.	SENTINEL P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-45.0
R-54.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced max. 72-inch o.c.	One or more layers, any combination, preliminarily fastened	Trufast #12 Purlin Fastener with RhinoBond Insulation Plate (PVC)	6-inch o.c. along purlins 72-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-52.5
R-55.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced max. 96-inch o.c.	One or more layers, any combination, preliminarily fastened	Trufast #12 Purlin Fastener with RhinoBond Insulation Plate (PVC)	6-inch o.c. along purlins 96-inch o.c.	SENTINEL P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-52.5
R-56.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced max. 48-inch o.c.	One or more layers, any combination, preliminarily fastened	Trufast #12 Purlin Fastener with RhinoBond Insulation Plate (PVC)	6-inch o.c. along purlins 48-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-82.5
R-57.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced max. 60-inch o.c.	One or more layers, any combination, preliminarily fastened	Trufast #12 Purlin Fastener with RhinoBond Insulation Plate (PVC)	6-inch o.c. along purlins 60-inch o.c.	SENTINEL P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-82.5
R-58.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced max. 48-inch o.c.	One or more layers, any combination, preliminarily fastened	Trufast #12 Purlin Fastener with RhinoBond Insulation Plate (PVC)	6-inch o.c. along purlins 48-inch o.c.	SENTINEL P200, KEE P150 or KEE P200 induction welded using RhinoBond Installation Tool	-90.0



**TABLE 7D: RECOVER OVER STEEL SUBSTRATE
SYSTEM TYPE C-2: INDUCTION WELDED ROOF COVER**

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

SYSTEM No.	SUBSTRATE (4.1.2)	INSULATION LAYER	ATTACHMENT		ROOF COVER (3.1.4d)	MDP (PSF)
			FASTENER (4.2.2)	SPACING		
ISOWELD INDUCTION WELD:						
R-59.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi steel purlins spaced max. 60-inch o.c.	One or more layers, any combination, preliminarily fastened	Dekfast DF-#12-PC-SQ with <i>isoweld</i> ® F1-P-6.8-PVC Plate	12-inch o.c. along purlins 60-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using SFS <i>isoweld</i> ® 3000 stand-up tool	-45.0
R-60.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi steel purlins spaced max. 60-inch o.c.	One or more layers, any combination, preliminarily fastened	Dekfast DF-#12-PC-SQ with <i>isoweld</i> ® F1-P-6.8-PVC Plate	6-inch o.c. along purlins 60-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using SFS <i>isoweld</i> ® 3000 stand-up tool	-90.0
TRUFAST INDUCTION WELD:						
R-61.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced max. 60-inch o.c.	One or more layers, any combination, preliminarily fastened	Trufast #12 Purlin Fastener with Trufast PVC IW Plate	12-inch o.c. along purlins 60-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-45.0
R-62.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced max. 48-inch o.c.	One or more layers, any combination, preliminarily fastened	Trufast #12 Purlin Fastener with Trufast PVC IW Plate	12-inch o.c. along purlins 48-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-60.0
R-63.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced max. 36-inch o.c.	One or more layers, any combination, preliminarily fastened	Trufast #12 Purlin Fastener with Trufast PVC IW Plate	12-inch o.c. along purlins 36-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-82.5
R-64.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced max. 72-inch o.c.	One or more layers, any combination, preliminarily fastened	Trufast #12 Purlin Fastener with Trufast PVC IW Plate	6-inch o.c. along purlins 72-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-75.0
R-65.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced max. 60-inch o.c.	One or more layers, any combination, preliminarily fastened	Trufast #12 Purlin Fastener with Trufast PVC IW Plate	6-inch o.c. along purlins 60-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-90.0
R-66.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced max. 48-inch o.c.	One or more layers, any combination, preliminarily fastened	Trufast #12 Purlin Fastener with Trufast PVC IW Plate	6-inch o.c. along purlins 48-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-112.5
R-67.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi or min. 12 gauge (0.105 in.), 36 ksi steel purlins spaced max. 36-inch o.c.	One or more layers, any combination, preliminarily fastened	Trufast #12 Purlin Fastener with Trufast PVC IW Plate	6-inch o.c. along purlins 36-inch o.c.	SENTINEL P150, P200, KEE P150 or KEE P200 induction welded using Trufast Induction Welding Tool and Magnets	-150.0



TABLE 7E: RE-ROOF (TEAR-OFF) OR RECOVER APPLICATIONS
SYSTEM TYPE E-2: MECHANICALLY ATTACHED SOPRAPHIX, BONDED ROOF COVER

^A The reported MDP documents the allowable maximum design pressure of the new base membrane and roof cover when installed atop the substrate, irrespective of the deck type (See 4.1.2) or performance of the substrate (See 4.2.2). 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 (4.1.2, 4.2.2)	BASE MEMBRANE			ROOF COVER (3.1.4)		MDP (PSF) ^A	
		TYPE	FASTENER (4.2.2)	MIN. WITHDRAWAL	SPACING	PLY		CAP
R-68.	Pre-existent min. 300 psi cellular lightweight insulating concrete or existing gypsum roof deck	SOPRAPHIX Base 622	Versa-Fast Metal Plate with minimum two (2) Versa-Fast Fasteners installed 180° into the holes of the Versa-Fast Metal Plate parallel to the width-direction of the sheet	≥ 193 lbf	9-inch o.c. within the 5-inch wide, heat-welded side laps.	None	FB-SPF-HFO	-45.0
R-69.	Pre-existent min. 300 psi cellular lightweight insulating concrete or existing gypsum roof deck	SOPRAPHIX Base 613	Versa-Fast Metal Plate with minimum two (2) Versa-Fast Fasteners installed 180° into the holes of the Versa-Fast Metal Plate parallel to the width-direction of the sheet	≥ 193 lbf	9-inch o.c. within the 5-inch wide, heat-welded side laps.	SBS-TAF	FB-SPF-HFO	-45.0
R-70.	Pre-existent min. 360 psi aggregate or min. 320 psi cellular lightweight insulating concrete or existing gypsum roof deck	SOPRAPHIX Base 613	Versa-Fast Metal Plate with minimum three (3) Versa-Fast Fasteners installed in a linear configuration, parallel to the width-direction of the sheet	≥ 226 lbf	9-inch o.c. within the 5-inch wide, heat-welded side laps.	SBS-TAF	FB-SPF-HFO	-52.5

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

^A The reported MDP documents the allowable maximum design pressure of the new roof cover when installed atop the substrate, irrespective of the deck type (See 4.1.2) or performance of the substrate (See 4.2.2). 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 (4.1.2, 4.2.2)	ROOF COVER (3.1.4)			MDP (PSF) ^A
		BASE	PLY	CAP	
R-71.	Existing, fully-adhered, smooth- or granule-surface, SBS modified bitumen roof system	SBS-CA2, 6-inch o.c. or SBS-CA3	SBS-CA3 or SBS-TAF	FB-SPF-HFO	-247.5
R-72.	Existing, fully-adhered, smooth- or granule-surface, SBS modified bitumen roof system	None	None	FB-SPF-HFO	-420.0