



NEMO EVALUATIONS REPORT

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SOPREMA, Inc.
FL13806-R22

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NEMO EVALUATION REPORT (NER)



SOPREMA

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

SUBJECT: SOPREMA® ALSAN RS Liquid Applied 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](#).

CODES: 2024, 2021, 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:** Liquid Applied Roof System

SUB-CATEGORY: **FBC:** Liquid Applied Roof Systems (LARS)

CSI DIVISION: 07 00 00 Thermal and Moisture Protection
07 56 00 Fluid-Applied Roofing

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

COMPLIANCE STATEMENT: SOPREMA ALSAN RS Liquid Applied 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 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 has not, nor does it intend to acquire or will they 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](#)



ISO/IEC 17065



ACCREDITED
Product Certification
Agency

PCA-145



ISO/IEC 17020



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Inspection Agency

AA-779



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1. CODES, PROPERTIES AND STANDARDS:

CODE	SECTION	PROPERTY	STANDARD
2018 International Building Code	1504.4.1	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, 1507.11.2.1	Material standard	ASTM D2178, D4601
	1507.11.2	Material standard	ASTM D6163, D6164
2021 International Building Code	1504.4.1	Wind resistance	FM 4474 or UL1897
	1504.7	Physical properties	ASTM G155
	1504.8	Impact resistance	FM 4470
	1505.1	Fire Classification	UL 790
	1507.10.2	Material standard	ASTM D2178
	1507.10.2, 1507.11.2.1	Material standard	ASTM D4601
	1507.11.2	Material standard	ASTM D6163, D6164
2024 International Building Code	104.2.3.6.1	Evaluation Reports	ISO/IEC 17065
	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
	1507.10.2, 1507.11.2.1	Material standard	ASTM D4601
	1507.11.2	Material standard	ASTM D6163, D6164
2023 Florida Building Code, 8 th Edition	1504.3.1	Wind resistance	FM 4474 or UL1897
	1504.6	Physical properties	ASTM G155
	1504.7	Impact resistance	FM 4470
	1505.1, 1516.1	Fire Classification	UL 790
	1507.10.2, TAS 110	Material Standard	ASTM D2178, D4601
	1507.11.2, TAS 110	Material standard	ASTM D6163, D6164
	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	
2023 California Building Code and 2023 City of Los Angeles Building Code	1504.4.1	Wind resistance	FM 4474 or UL1897
	1504.7	Physical properties	ASTM G155
	1504.8	Impact resistance	FM 4470
	1505.1	Fire Classification	UL 790
	1507.10.2	Material standard	ASTM D2178
	1507.10.2, 1507.11.2.1	Material standard	ASTM D4601
1507.11.2	Material standard	ASTM D6163, D6164	

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
LIQUID APPLIED ROOF COMPONENTS:	ALSAN RS 230 Field or Flash	M-D 13-1362	'flexible'	N/A
	ALSAN Trafik RS 730 Field or Flash			
	ALSAN RS 260 LO Field or Flash			
	ALSAN RS LO Catalyst Powder			
	ALSAN RS Fleece			
BASE SHEETS:	MODIFIED SOPRA G	ASTM D4601	II	N/A
	SOPRABASE TG	ASTM D4601	II	N/A



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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
PLY SHEETS:	SOPRA IV	ASTM D2178	IV	N/A
	SOPRA VI	ASTM D2178	VI	N/A
MECHANICALLY ATTACHED, SMOOTH SBS MEMBRANES:	SOPRAFIX Base 611	ASTM D6164	I	S
	SOPRAFIX Base 612	ASTM D6164	I	S
	SOPRAFIX Base 613	ASTM D6164	I	S
	SOPRAFIX Base 622	ASTM D6164	I	S
	SOPRAFIX Base 614	ASTM D6164	II	S
BASE PLY AND PLY MEMBRANES:	ELASTOPHENE Flam 2.2	ASTM D6163	I	S
	ELASTOPHENE Flam 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
	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 4.0	ASTM D6164	II	S	
SOPRALENE Flam 250	ASTM D6164	II	S	
VAPOR BARRIER CAP PLY MEMBRANES:	ELASTOPHENE Flam FR GR	ASTM D6163	I	G
	ELASTOPHENE Flam LS FR GR	ASTM D6163	I	G
	ELASTOPHENE FR GR	ASTM D6163	I	G
	ELASTOPHENE LS FR GR	ASTM D6163	I	G
	SOPRALENE 180 FR GR	ASTM D6163	I	G
	SOPRALENE Flam 180 FR GR	ASTM D6164	I	G
	SOPRALENE Flam 180 GR	ASTM D6164	I	G
VAPOR BARRIER MEMBRANES:	SOPRAVAP'R	VPA 24-0003	N/A	N/A
SURFACING:	ALSAN Trafik RS 789 LT, un-pigmented base resin mixed with: ALSAN RS Color Additive	VPA 23-0004	N/A	N/A
	ALSAN Trafik RS 790 HT, un-pigmented base resin mixed with: ALSAN RS Color Additive	N/A	N/A	N/A
	ALSAN Trafik RS 733 Self-Leveling Mortar, mixture of: ALSAN Trafik RS 733, Part A	VPA 25-0005	N/A	N/A
	ALSAN Trafik RS 733, Part B	N/A	N/A	N/A
	ALSAN Trafik RS 781 CL	N/A	N/A	N/A
	ALSAN Trafik RS 787 CF, un-pigmented base resin mixed with: ALSAN RS Color Additive	N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A



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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	
	DUOTACK SPF	N/A	
INSULATION:	SOPRABOARD	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	
PRIMERS:	ALSAN RS 276 Primer	N/A	
	ALSAN RS 222 Primer	N/A	
SURFACING:	ALSAN RS 263 LO Self-Leveling Mortar, mixture of: ALSAN RS 240 LO ALSAN RS 223 Mixing Powder	N/A	
	ALSAN RS 285 CF, un-pigmented base resin mixed with: ALSAN RS Color Additive ALSAN RS Color Additive	N/A	
	ADDITIVE:	ALSAN RS Color Additive	N/A

TABLE 2: COMPONENTS BY OTHERS (4.1.4)				
TYPE	SOPREMA	ACCEPTABLE ALTERNATE	FBC	NOA ¹
ADHESIVES:	DUOTACK SPF HFO	Polysat Commercial Roofing Adhesive	FL1365	22-0614.10
INSULATIONS:	SOPRA-ISO s	Derbiboard or ACfoam II	FL17989	23-0207.02
	SOPRA-ISO+ s	Derbiboard CA or ACfoam III		
	SOPRA-ISO r	Derbiboard h or H-Shield	FL5968	19-0521.04
	SOPRA-ISO+ r	H-Shield CG		
	N/A	ENRGY 3	FL4205	23-0509.05
	N/A	Multi-Max FA3	FL11207	22-0815.03
	N/A	Ultra-Max		
	N/A	DensDeck		
	N/A	DensDeck Prime or DensDeck StormX Prime Roof Board	FL1250	22-1223.04
	N/A	DEXcell FA Glass Mat Roof Board	FL17840	20-0212.01
	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	23-0718.06
N/A	Concrecel Lightweight Insulating Concrete	FL5584	21-1229.06	
N/A	Elastizell Lightweight Insulating Concrete	None	23-0817.05	
MECHANICAL FASTENERS:	SOPREMA #12 Fastener	#12 Perlok Fastener or Dekfast DF-#12-PH3		
	SOPREMA #14 Fastener	#14 Perlok Fastener or Dekfast DF-#14-PH3	FL20311	22-0913.02
	SOPREMA #15-EL Fastener	Dekfast DF-#15-PH3		

¹ Refer to [NOA](#) if listed version was superseded to ensure use of latest version.



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TABLE 2: COMPONENTS BY OTHERS (4.1.4)				
TYPE	SOPREMA	ACCEPTABLE ALTERNATE	FBC	NOA ¹
	SOPRAPHIX 2 in. SB Stress Plate	Dekfast PTL-R-2-4B		
	SOPREMA 3 in. Insulation Plate	Dekfast PLT-R-3		
	SOPREMA #12 DP Fastener	Perlok #12 DP or Trufast #12 DP	FL4500	22-1214.02
	SOPREMA #14 MP Fastener	Perlok #14 HD or Trufast #14 HD		
	SOPREMA #15 HD Fastener	Perlok #15 EHD or Trufast #15 EHD		
	SOPREMA Versa-Fast Fastener	Perlok Versa-Fast Fastener or Trufast Versa-Fast Fastener		
	N/A	Trufast ¼" Concrete Spike		
	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	FL4500	22-1214.02
	SOPREMA Versa-Fast Plate	Perlok Versa-Fast Plate or Trufast Versa-Fast Plate		
	SOPRAPHIX MBB	Trufast Flat Batten Bar		
	SOPRAPHIX MBB-R	Trufast Recessed Batten Bar		
	N/A	Trufast 2.4" Barbed Metal Seam Plate		
	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	OMG #12 Standard Roofgrip	FL699	24-0627.03
	N/A	OMG #14 Heavy Duty Fastener		
	N/A	OMG Large Head #15 Roofgrip		
	N/A	OMG CD-10		
	N/A	OMG 3" Galvalume Steel Plate		
	N/A	OMG AccuTrac Plate		
	N/A	OMG AccuTrac Flat Bottom		
	N/A	OMG Polymer Batten Strip		
	N/A	ACE #12 Fastener	FL41667	N/A
	N/A	ACE #15 Fastener		
	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 **SOPREMA ALSAN RS Liquid Applied 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
WOOD, ENGINEERED SHEATHING OR PLANK	SOPREMA #14 Fastener with SOPREMA 3 in. Insulation Plate, SOPREMA #14 MP Fastener with SOPREMA 3" Metal Insulation Plate	Min. 0.75-inch penetration (engineered sheathing) or min. 1-inch embedment (plank)
	ACE #12 or ACE #15 with ACE 3" BE Insulation Plate or ACE 3" WW Insulation Plate (<i>with polyisocyanurate insulation, SOPRABOARD, 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 Roofgrip with Flat Bottom Plate (Accutrac) or OMG #14 Heavy Duty with OMG 3 in. Galvalume Steel Plate	
STEEL	SOPREMA #12 or #14 Fastener with SOPREMA 3 in. Insulation Plate, SOPREMA #12 DP or #14 MP Fastener with SOPREMA 3" Metal Insulation Plate	Min. 0.75-inch penetration
	ACE #12 or ACE #15 with ACE 3" BE Insulation Plate or ACE 3" WW Insulation Plate (<i>with polyisocyanurate insulation, SOPRABOARD, 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 or #14 Roofgrip with Recessed or Flat Bottom Plate (Accutrac) or OMG #12 Standard or OMG #14 Heavy Duty with OMG 3 in. Galvalume Steel Plate	
STRUCTURAL CONCRETE	SOPREMA #14 Fastener with SOPREMA 3 in. Insulation Plate or SOPREMA #14 MP Fastener with SOPREMA 3" Metal Insulation Plate	Min. 1-inch embedment FBC HVHZ: Min. 1.25-inch embedment
	ACE #15 with ACE 3" BE Insulation Plate or ACE 3" WW Insulation Plate (<i>with polyisocyanurate insulation, SOPRABOARD, DEXcell Cement Roof Board, SECUROCK Cement Roof Board, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board</i>)	
	Trufast 1/4" Concrete Spike with Trufast 3" Metal Insulation Plate	
	OMG #14 Roofgrip with Recessed or Flat Bottom Plate (Accutrac) or OMG #14 Heavy Duty or CD-10 with 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, CBC, FBC 1505 or FBC HVHZ 1516 and, for foam plastic, IBC, CBC, 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, CBC, FBC 1505 or FBC HVHZ 1516 and, for foam plastic, IBC, CBC, FBC Chapter 26, when installed with the roof cover in Recover applications.
- (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.



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(d) **Florida Specific:** 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.

TABLE 4A: INSULATION ATTACHMENT PATTERNS – 4x4 FT BOARDS			
1 per 4.0 ft ² (4 per board)	1 per 2.7 ft ² (6 per board)	1 per 2.0 ft ² (8 per board)	1 per 1.8 ft ² (9 per board)
1 per 1.6 ft ² (10 per board)	1 per 1.3 ft ² (12 per board)	1 per 1.0 ft ² (16 per board)	

TABLE 4B: INSULATION ATTACHMENT PATTERNS – 4x8 FT BOARDS			
1 per 4.0 ft ² (8 per board)	1 per 2.7 ft ² (12 per board)	1 per 2.3 ft ² (14 per board)	1 per 2.0 ft ² (16 per board)



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TABLE 4B: INSULATION ATTACHMENT PATTERNS – 4x8 FT BOARDS			
1 per 1.8 ft ² (18 per board)	1 per 1.6 ft ² (20 per board)	1 per 1.3 ft ² (24 per board)	1 per 1.0 ft ² (32 per board)

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

- IBC, CBC 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 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. When applied to profiled steel roof deck, ribbons shall be applied to the top-flange so as to establish positive-contact with the overlying insulation board.

TABLE 5A: 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 where DUOTACK is referenced.
DUOTACK 365	Continuous 0.5 to 0.75-inch wide ribbons, 12-inch o.c.	
DUOTACK SPF	Continuous 2.5 wide ribbons, 12-inch o.c.	DUOTACK SPF may be used where DUOTACK is referenced, except directly to existing gypsum decks, in recover applications over existing smooth-surfaced asphaltic built-up roof (BUR) or when used to adhere expanded polystyrene
DUOTACK SPF HFO	Continuous 2.5-3.5 wide ribbons, 12-inch o.c.	

(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.

TABLE 5B: MDP LIMITATIONS FOR TAPERED POLYISOCYANURATE INSULATIONS			
ADHESIVE	INSULATION	MIN. TAPERED THICKNESS (IN)	MDP (PSF)
DUOTACK, DUOTACK 365 or DUOTACK SPF	Any polyisocyanurate listed with adhesive herein	0.5	-157.5
DUOTACK SPF HFO	Any polyisocyanurate listed with adhesive herein	1.0	-117.5



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(c) Adhered Insulation, Board Size:

- IBC, CBC 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.

3.1.4 Roof Covers:

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

TABLE 6A: ALSAN RS COMPONENTS & APPLICATION RATES:	
PRODUCT	RATE
ALSAN RS 222 Primer ("RS 222")	1 gal/square
ALSAN RS 276 Primer ("RS 276")	1 gal/square
AQUAFIN VAPORTIGHT COAT-SG3 ("AVC-SG3")	Refer to AQUAFIN, Inc. published requirements
ALSAN Trafik RS 733 Self-Leveling Mortar	1.8 gal/square (85-95 wet mils)
ALSAN RS 230 system	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.
ALSAN Trafik RS 730 system	Base coat of ALSAN Trafik RS 730 applied at 3.9 gal/sq. followed by ALSAN RS Fleece into the wet base coat, and top coat of ALSAN Trafik RS 730 at 1.9 gal/sq.
ALSAN RS 260 LO system	Base coat of ALSAN RS 260 LO applied at 3.9 gal/sq. followed by ALSAN RS Fleece into the wet base coat, and top coat of ALSAN RS 260 LO at 1.9 gal/sq.
ALSAN RS 263 LO Self-Leveling Mortar	1.8 gal/square (85-95 wet mils)
ALSAN RS 281 Finish	0.74 gal/square (smooth-surface); 1.23 gal/square (aggregate-surface)
ALSAN RS 285 CF	1.2 gal/square

Note: Optional finish surfacing materials, including additional application(s) of ALSAN RS 230, ALSAN RS 260 LO, ALSAN Trafik RS 733 Self-Leveling Mortar, ALSAN RS 263 LO Self-Leveling Mortar, ALSAN Trafik RS 781 CL, ALSAN RS 285 CF, ALSAN Trafik RS 787 CF, ALSAN Trafik RS 789 LT, ALSAN RS Textured Coating, ALSAN Trafik RS 790 HT and/or quartz aggregates and vinyl chips, may be applied to the final ALSAN RS or ALSAN Trafik RS surface with no adverse effect on system wind uplift performance.

TABLE 6B: MODIFIED BITUMEN VAPOR BARRIER & BASE PLY REFERENCES				
REFERENCE	LAYER	MATERIAL	APPLICATION	
SBS-CA2	Base Ply:	ELASTOPHENE Sanded, SOPRALENE 180 Sanded 2.2, SOPRALENE 180 Sanded, SOPRALENE 250 Sanded	COLPLY EF Adhesive, 0.5 to 1-inch wide ribbons spaced as noted	
SBS-CA3	Base Ply:	One or two plies ELASTOPHENE Sanded, SOPRALENE 180 Sanded 2.2, SOPRALENE 180 Sanded, 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, ELASTOPHENE FR+ GR, SOPRALENE 180 FR GR, SOPRALENE 250 FR GR		
SBS-CA4	Base Ply:	ELASTOPHENE Sanded, SOPRALENE 180 Sanded 2.2, SOPRALENE 180 Sanded, SOPRALENE 250 Sanded	COLPLY Adhesive at 1.5 - 2 gal/square	
	VB Cap Ply:	ELASTOPHENE LS FR GR, ELASTOPHENE FR GR, SOPRALENE 180 FR GR, SOPRALENE 250 FR GR		
SBS-TAP	Base Ply:	COLVENT 180 TG	Torch-Applied, Partial Bond	
SBS-TAF	Base Ply:	ELASTOPHENE Flam 2.2 ⚡, ELASTOPHENE Flam 3.0 ⚡, ELASTOPHENE SP 2.2, COLPHENE SP 3.0, SOPRALENE Flam 180 ⚡, SOPRALENE 180 SP 3.0, SOPRALENE 180 SP 3.5, COLPHENE 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, SOPRALENE Flam 250 FR GR		
SBS-SA1	Base Ply:	ELASTOPHENE Stick, SOPRALENE Stick, SOPRALENE Flam Stick ⚡	Self-Adhering, Full Bond	
Notes:	Base Ply membranes marked with an asterisk (⚡) have a poly-film top surface, and require installation of a torch-applied membrane overtop. ALSAN products shall not be applied to a poly-film top surface.			
	Sand-surfaced membranes shall be primed with ELASTOCOL 500, ELASTOCOL Stick, ELASTOCOL Stick LVOC or ELASTOCOL Stick Zero prior to application of subsequent SBS-SA1 membranes.			
	SOPRABOARD may be optionally primed with Detec Systems "TruGround Conductive Primer" prior to application of SBS-CA3 or SBS-TAF membranes.			
	The following products are interchangeable within the scope of this NER:			
	ACCEPTABLE ALTERNATES			
	LISTED PRODUCT	ALTERNATE PRODUCT(S)		
	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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ISO/IEC 17065



ACCREDITED
Product Certification
Agency
PCA-145

(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. Top layer of insulation shall be [preliminarily attached](#).

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 SOPRAPHIX 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.

TABLE 7: 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)
15/32-inch APA rated CDX plywood	24	8d ring shank nails	6	-52.5
	24	#10 wood screws	6	-90.0
	24	#10 wood screws	4	-105.0
19/32-inch APA rated CDX plywood	24	8d ring shank nails	6	-67.5
	24	#8 wood screws	6	-97.5
22 ga., Type B, Grade 33 steel	72	#12 HWH Tek's 5	6	-82.5
	72	#12 HWH Tek's 5 with 3/8" steel washers	6	-112.5
	72	Two (2) #12 HWH Tek's 5 with 3/8" steel washers	6	-172.5
22 ga., Type B, Grade 40 steel	72	#12 HWH Tek's 5	6	-82.5
	72	#12 HWH Tek's 5 with 3/8" washers	6	-127.5
22 ga., Type B, Grade 80 steel	72	#12 HWH Tek's 5	6	-135.0
	72	#12 HWH Tek's 5 with 3/8" steel washers	6	-142.5
	72	Two (2) #12 HWH Tek's 5	6	-127.5
	72	Two (2) #12 HWH Tek's 5 with 3/8" steel washers	6	-172.5
	66	Two (2) #12 HWH Tek's 5 with 3/8" steel washers	6	-180.0
	60	Two (2) #12 HWH Tek's 5 with 3/8" steel washers	6	-202.5
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, CBC, 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 **IBC or 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. For Florida Product Approval, this shall be 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, CBC, FBC Non-HVHZ	FBC HVHZ
<p>4.2.1 This NER does not include evaluation of roof edge termination. Refer to IBC 1504.6 or FBC 1504.5 for requirements and limitations regarding edge securement for low-slope roofs.</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>4.2.2 Refer to IBC 1512 or FBC 1511 for requirements and limitations regarding recover installations.</p>	<p>Refer to FBC HVHZ 1521 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 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 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>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>(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>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</p>	<p>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>"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>(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>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>(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>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) Steel Decks:

TABLE VB-1: 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 (4.2.2A) 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 MP with 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 MP with 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 MP with 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 MP with 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 MP with 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 MP with 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 MP with 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 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	None	SBS-TAF (sanded top)	None	DUOTACK	-45.0*
S-TB/VB-9.	Min. 22 ga., type B, Grade 33 steel	0.25-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 MP with 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 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	ELASTOCOL Stick, Stick LVOC or 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 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	ELASTOCOL Stick, Stick LVOC or 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 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	ELASTOCOL Stick, Stick LVOC or 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 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	ELASTOCOL Stick, Stick LVOC or Stick Zero	(Optional) SBS- SA1	SBS-TAF	DUOTACK 365	-45.0*



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TABLE VB-1: 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 (4.2.2A) OR ADHESIVE (3.1.3)	ATTACH (3.1.2e)		BASE PLY	CAP PLY (GRANULE)		
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, Stick LVOC or 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, Stick LVOC or Stick Zero	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-45.0*
S-TB/VB-18.	Min. 22 ga., type B, Grade 33 steel	0.5-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	None	SBS-CA3 (sanded top)	None	DUOTACK	-75.0
S-TB/VB-19.	Min. 22 ga., type B, Grade 33 steel	0.5-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	None	SBS-TAF (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 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	None	(Optional) SBS-TAF	SBS-TAF	DUOTACK 365	-75.0
S-TB/VB-21.	Min. 22 ga., type B, Grade 40 steel	Min. 0.5-inch DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	SOPREMA #14 MP with 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-22.	Min. 22 ga., type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	None	SBS-AA (sanded top)	None	DUOTACK	-82.5
S-TB/VB-23.	Min. 22 ga., type B, Grade 40 steel	Min. 0.5-inch DensDeck, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	ELASTOCOL 500	SBS-TAF (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 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	ELASTOCOL 500	(Optional) SBS-TAF	SBS-TAF	DUOTACK 365	-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 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	ELASTOCOL Stick, Stick LVOC or Stick Zero	SOPRAVAP'R or SBS-SA1 (sanded top)	None	DUOTACK	-82.5
S-TB/VB-26.	Min. 22 ga., type B, Grade 40 steel	Min. 0.5-inch DensDeck, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	ELASTOCOL Stick, Stick LVOC or Stick Zero	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-82.5
S-TB/VB-27.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365	6-inch o.c.	None	SBS-AA or SBS-TAF (sanded top)	None	DUOTACK	-127.5



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TABLE VB-1: 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 (4.2.2A) OR ADHESIVE (3.1.3)	ATTACH (3.1.2e)		BASE PLY	CAP PLY (GRANULE)		
S-TB/VB-28.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365	6-inch o.c.	None	(Optional) SBS-TAF	SBS-TAF	DUOTACK 365	-127.5
S-TB/VB-29.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365	6-inch o.c.	ELASTOCOL Stick, Stick LVOC or Stick Zero	SOPRAVAP'R or SBS-SA1 (sanded top)	None	DUOTACK	-127.5
S-TB/VB-30.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK 365	6-inch o.c.	ELASTOCOL Stick, Stick LVOC or Stick Zero	(Optional) SBS-SA1	SBS-TAF	DUOTACK 365	-127.5
S-TB/VB-31.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DensDeck Prime	DUOTACK SPF HFO	12-inch o.c.	ELASTOCOL Stick, Stick LVOC or Stick Zero	SOPRAVAP'R or SBS-SA1 (sanded top surface)	None	DUOTACK SPF HFO	-75.0
S-TB/VB-32.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DensDeck Prime	DUOTACK SPF HFO	12-inch o.c.	ELASTOCOL Stick, Stick LVOC or Stick Zero	(Optional) SBS-SA1	SBS-TAF	DUOTACK SPF HFO	-75.0
S-TB/VB-33.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	12-inch o.c.	None	SBS-AA (sanded top surface)	None	DUOTACK SPF HFO	-75.0
S-TB/VB-34.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	12-inch o.c.	ELASTOCOL Stick LVOC or Stick Zero	SOPRAVAP'R	None	DUOTACK SPF HFO	-75.0
S-TB/VB-35.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	12-inch o.c.	ELASTOCOL 500	SBS-TAF (sanded top surface)	None	DUOTACK SPF HFO	-75.0
S-TB/VB-36.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	12-inch o.c.	ELASTOCOL 500	(Optional) SBS-TAF	SBS-TAF	DUOTACK SPF HFO	-75.0
S-TB/VB-37.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	12-inch o.c.	ELASTOCOL Stick LVOC or Stick Zero	SOPRAVAP'R	None	DUOTACK SPF HFO	-75.0
S-TB/VB-38.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	12-inch o.c.	ELASTOCOL Stick, Stick LVOC or Stick Zero	SBS-SA1 (sanded top surface)	None	DUOTACK SPF HFO	-75.0
S-TB/VB-39.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	12-inch o.c.	ELASTOCOL Stick, Stick LVOC or Stick Zero	(Optional) SBS-SA1	SBS-TAF	DUOTACK SPF HFO	-75.0
S-TB/VB-40.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DensDeck Prime	DUOTACK SPF HFO	6-inch o.c.	ELASTOCOL Stick, Stick LVOC or Stick Zero	SOPRAVAP'R or SBS-SA1 (sanded top surface)	None	DUOTACK SPF HFO, 6-inch o.c.	-127.5



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TABLE VB-1: 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 (4.2.2A) OR ADHESIVE (3.1.3)	ATTACH (3.1.2E)		BASE PLY	CAP PLY (GRANULE)		
S-TB/VB-41.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DensDeck Prime	DUOTACK SPF HFO	6-inch o.c.	ELASTOCOL Stick, Stick LVOC or Stick Zero	(Optional) SBS-SA1	SBS-TAF	DUOTACK SPF HFO, 6-inch o.c.	-127.5
S-TB/VB-42.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	6-inch o.c.	None	SBS-AA (sanded top surface)	None	DUOTACK SPF HFO, 6-inch o.c.	-127.5
S-TB/VB-43.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	6-inch o.c.	ELASTOCOL Stick LVOC or Stick Zero	SOPRAVAP'R	None	DUOTACK SPF HFO, 6-inch o.c.	-127.5
S-TB/VB-44.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	6-inch o.c.	ELASTOCOL 500	SBS-TAF (sanded top surface)	None	DUOTACK SPF HFO, 6-inch o.c.	-127.5
S-TB/VB-45.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	6-inch o.c.	ELASTOCOL 500	(Optional) SBS-TAF	SBS-TAF	DUOTACK SPF HFO, 6-inch o.c.	-127.5
S-TB/VB-46.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	6-inch o.c.	ELASTOCOL Stick LVOC or Stick Zero	SOPRAVAP'R	None	DUOTACK SPF HFO, 6-inch o.c.	-127.5
S-TB/VB-47.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	6-inch o.c.	ELASTOCOL Stick, Stick LVOC or Stick Zero	SBS-SA1 (sanded top surface)	None	DUOTACK SPF HFO, 6-inch o.c.	-127.5
S-TB/VB-48.	22 ga., Type B, Grade 40 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	6-inch o.c.	ELASTOCOL Stick, Stick LVOC or Stick Zero	(Optional) SBS-SA1	SBS-TAF	DUOTACK SPF HFO, 6-inch o.c.	-127.5



(b) Structural Concrete Decks:

TABLE VB-2A: 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.	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-9.	ASTM D41	SBS-TAP (sanded top surface)	DUOTACK	-232.5
C-VB-10.	ELASTOCOL Stick LVOC or Stick Zero	SOPRAVAP'R, self-adhering	DUOTACK	-240.0
C-VB-11.	none	SBS-CA3 (sanded top surface)	DUOTACK	-255.0
C-VB-12.	ASTM D41, ELASTOCOL 500	SBS-CA3 (sanded top surface)	DUOTACK	-270.0
C-VB-13.	ASTM D41	SBS-AA (sanded top surface)	DUOTACK	-270.0
C-VB-14.	ELASTOCOL Stick, Stick LVOC or Stick Zero	SBS-SA1 (sanded top surface)	DUOTACK	-315.0
C-VB-15.	ASTM D41	SBS-TAF (sanded top surface)	DUOTACK	-382.5
C-VB-16.	none	SBS-CA2 (sanded- or granule-top-surface), ribbons 6-inch o.c.	DUOTACK, 6-inch o.c.	-445.0
C-VB-17.	ASTM D41	SBS-CA4 (granule top surface)	DUOTACK SPF HFO	-97.5
C-VB-18.	ASTM D41	SBS-CA4 (sanded top surface)	DUOTACK SPF HFO	-120.0
C-VB-19.	(Optional) ASTM D41, ELASTOCOL 500	SBS-CA3 (granule top surface)	DUOTACK SPF HFO	-195.0
C-VB-20.	ASTM D41	SBS-AA (granule top surface)	DUOTACK SPF HFO	-195.0
C-VB-21.	ASTM D41	SBS-TAF (granule top surface)	DUOTACK SPF HFO	-195.0
C-VB-22.	(Optional) ASTM D41, ELASTOCOL 500	SBS-CA3 (sanded top surface)	DUOTACK SPF HFO	-222.5
C-VB-23.	ASTM D41	SBS-AA (sanded top surface)	DUOTACK SPF HFO	-222.5
C-VB-24.	ASTM D41	SBS-TAP or SBS-TAF (sanded top surface)	DUOTACK SPF HFO	-222.5
C-VB-25.	ELASTOCOL Stick, Stick LVOC or Stick Zero	SBS-SA1 (sanded top surface)	DUOTACK SPF HFO	-222.5
C-VB-26.	ELASTOCOL Stick LVOC or Stick Zero	SOPRAVAP'R, self-adhering	DUOTACK SPF HFO	-392.5



**TABLE VB-2B: 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-27.	ASTM D41	SBS-CA4	SBS-CA4, SBS-AA or SBS-TAF (granule top surface)	DUOTACK	-97.5
C-VB-28.	ASTM D41	SBS-CA4	SBS-CA4 (sanded top surface)	DUOTACK	-120.0
C-VB-29.	none	SBS-CA2, ribbons 6-inch o.c.	SBS-CA3 or SBS-TAF (sanded- or granule-top-surface)	DUOTACK	-120.0
C-VB-30.	(Optional) ASTM D41, ELASTOCOL 500	SBS-CA3	SBS-CA3, SBS-CA4, SBS-AA or, SBS-TAF (granule top surface)	DUOTACK	-195.0
C-VB-31.	ASTM D41	SBS-AA or SBS-TAF	SBS-CA3, SBS-CA4, SBS-AA or, SBS-TAF (granule top surface)	DUOTACK	-195.0
C-VB-32.	ELASTOCOL Stick, Stick LVOC or Stick Zero	SBS-SA1	SBS-CA3, SBS-CA4, SBS-AA or, SBS-TAF (granule top surface)	DUOTACK	-195.0
C-VB-33.	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-34.	ASTM D41	SBS-TAP	SBS-TAF (sanded top surface)	DUOTACK	-232.5
C-VB-35.	None	SBS-CA3	SBS-CA3 (sanded top surface)	DUOTACK	-255.0
C-VB-36.	ASTM D41, ELASTOCOL 500	SBS-CA3	SBS-CA3 (sanded top surface)	DUOTACK	-270.0
C-VB-37.	ASTM D41	BP-AA	BP-AA	DUOTACK	-270.0
C-VB-38.	ASTM D41	SBS-AA	SBS-AA (sanded top surface)	DUOTACK	-270.0
C-VB-39.	ELASTOCOL Stick, Stick LVOC or Stick Zero	SBS-SA1	SBS-SA1 (sanded top surface)	DUOTACK	-315.0
C-VB-40.	ASTM D41	SBS-TAF	SBS-TAF (sanded top surface)	DUOTACK	-382.5
C-VB-41.	None	SBS-CA2, ribbons 6-inch o.c.	SBS-CA3 (sanded- or granule-top-surface)	DUOTACK, 6-inch o.c.	-382.5
C-VB-42.	None	SBS-CA2, ribbons 6-inch o.c.	SBS-TAF (sanded- or granule-top-surface)	DUOTACK, 6-inch o.c.	-445.0
C-VB-43.	ASTM D41	SBS-CA4	SBS-CA4, SBS-AA or SBS-TAF (granule top surface)	DUOTACK SPF HFO	-97.5
C-VB-44.	ASTM D41	SBS-CA4	SBS-CA4 (sanded top surface)	DUOTACK SPF HFO	-120.0
C-VB-45.	(Optional) ASTM D41, ELASTOCOL 500	SBS-CA3	SBS-CA3, SBS-CA4, SBS-AA or, SBS-TAF (granule top surface)	DUOTACK SPF HFO	-195.0
C-VB-46.	ASTM D41	SBS-AA	SBS-CA3, SBS-CA4, SBS-AA or, SBS-TAF (granule top surface)	DUOTACK SPF HFO	-195.0
C-VB-47.	ASTM D41	SBS-TAF	SBS-CA3, SBS-CA4, SBS-AA or, SBS-TAF (granule top surface)	DUOTACK SPF HFO	-195.0
C-VB-48.	ELASTOCOL Stick, Stick LVOC or Stick Zero	SBS-SA1	SBS-CA3, SBS-CA4, SBS-AA or, SBS-TAF (granule top surface)	DUOTACK SPF HFO	-195.0
C-VB-49.	(Optional) ASTM D41, ELASTOCOL 500	SBS-CA3	SBS-CA3 (sanded top surface)	DUOTACK SPF HFO	-222.5
C-VB-50.	ASTM D41	SBS-AA	SBS-AA (sanded top surface)	DUOTACK SPF HFO	-222.5
C-VB-51.	ASTM D41	SBS-TAP or SBS-TAF	SBS-TAF (sanded top surface)	DUOTACK SPF HFO	-222.5
C-VB-52.	ELASTOCOL Stick, Stick LVOC or Stick Zero	SBS-SA1	SBS-SA1 (sanded top surface)	DUOTACK SPF HFO	-222.5
C-VB-53.	ASTM D41	BP-AA	BP-AA	DUOTACK SPF HFO	-262.5

Note: Top surfaces of membranes having a sand finish shall be primed with ELASTOCOL 500, ELASTOCOL Stick, Stick LVOC or Stick Zero prior to application of self-adhering membranes.



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

TABLE VB-3: 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 (4.2.2a) 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	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	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	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



(d) Cementitious Wood Fiber Decks:

TABLE VB-4: 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 (4.2.2A) OR ADHESIVE (3.1.3)	ATTACH	BASE PLY	CAP PLY		
CWF-VB-1.	Min. 0.125-inch SOPRABOARD	Trufast Twin Loc-Nail (1.8-inch)	1 per 1.8 ft ²	SBS-CA3, SBS-AA or SBS-TAF	(Optional) SBS-CA3, SBS-AA or SBS-TAF	DUOTACK 365 or DUOTACK SPF HFO per Table 2A	-45.0*
CWF-VB-2.	Min. 0.125-inch SOPRABOARD	Trufast Twin Loc-Nail (1.8-inch)	1 per 1.0 ft ²	SBS-CA3, SBS-AA or SBS-TAF	(Optional) SBS-CA3, SBS-AA or SBS-TAF	DUOTACK 365 or DUOTACK SPF HFO per Table 2A	-67.5
CWF-VB-3.	Min. 0.125-inch SOPRABOARD	DUOTACK 365 or DUOTACK SPF HFO	ribbons 6-inch o.c.	SBS-CA3, SBS-AA or SBS-TAF	(Optional) SBS-CA3, SBS-AA or SBS-TAF	DUOTACK 365 or DUOTACK SPF HFO per Table 3A or 5A	-272.0
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

(e) Existing Gypsum Decks:

TABLE VB-5: 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



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4.3.2 Roof Assemblies:

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
8A	Wood	New or Reroof (Tear-Off)	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	22
8B	Wood	New, Reroof (Tear-Off), or Recover	B-3	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	25
8C	Wood	New, Reroof (Tear-Off), or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	25
8D	Wood	New, Reroof (Tear-Off), or Recover	D-2	Insulated, Mechanically Attached SOPRAPHIX, Bonded Roof Cover	26
9A	Steel	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	27
9B	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	30
9C	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	36
9D	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	39
9E	Steel	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached SOPRAPHIX, Bonded Roof Cover	40
10A	Structural concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	41
10B	Structural concrete	New or Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached SOPRAPHIX, Bonded Roof Cover	45
10C	Structural concrete	New or Reroof (Tear-Off)	F-1	Non-Insulated, Bonded Roof Cover	46
11A	Deck with Lightweight Concrete	New, Reroof (Tear-Off)	A-1	LWC to Deck, Bonded Insulation, Bonded Roof Cover	47
11B	Deck with Lightweight Concrete	New, Reroof (Tear-Off)	A-1	LWC to Deck, Bonded Vapor Barrier, Bonded Insulation, Bonded Roof Cover	48
11C	Deck with Lightweight Concrete	New, Reroof (Tear-Off)	E-2	LWC to Deck, Mechanically Attached Base Sheet, Bonded Roof Cover	49
11D	Deck with Lightweight Concrete	New, Reroof (Tear-Off)	E-2	Thermal Barrier to Deck, Temp Roof to Thermal Barrier, LWC to Temp Roof, Mechanically Attached Base Sheet, Bonded Roof Cover	49
11E	Deck with Lightweight Concrete	New, Reroof (Tear-Off)	E-2	LWC to Deck, Mechanically Attached SOPRAPHIX, Bonded Roof Cover	50
11F	Deck with Lightweight Concrete	New	F	LWC to Deck, Bonded Roof Cover	51
11G	Deck with Lightweight Concrete	New	F	LWC to Deck, Bonded Roof Cover	51
12A	Cementitious Wood Fiber	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	53
12B	Cementitious Wood Fiber	New, Reroof (Tear-Off)	A-3	Bonded Thermal Barrier, Bonded Vapor Barrier, Bonded Insulation, Bonded Roof Cover	55
13A	Existing Gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	57
14A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	58
14B	Existing LWIC or Gypsum	Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mechanically Attached SOPRAPHIX, Bonded Roof Cover	60
14C	Various	Recover	F	Non-Insulated, Bonded Roof Cover	60



TABLE 8A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
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		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	PRIMER	LARS	
NO BASE PLY:										
W-1.	Min. 19/32-inch APA rated OSB or CDX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	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	Min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board	DUOTACK	None	RS 276	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
W-2.	Min. 15/32-inch APA rated BCX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or SOPREMA #14 MP Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	Min. 0.5-inch SECUROCK Cement Roof Board	DUOTACK	None	RS 276	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5
W-3.	Min. 19/32-inch APA rated OSB or CDX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISO+r or Ultra-Max	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	Min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board	DUOTACK SPF HFO	None	RS 276	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
W-4.	Min. 15/32-inch APA rated BCX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISO+r or Ultra-Max	Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or SOPREMA #14 MP Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	Min. 0.5-inch SECUROCK Cement Roof Board	DUOTACK SPF HFO	None	RS 276	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5
COLD APPLIED BASE PLY:										
W-5.	Min. 19/32-inch APA rated OSB or CDX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	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	Min. 0.125-inch SOPRABOARD, Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	SBS-CA3	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
W-6.	Min. 19/32-inch APA rated OSB or CDX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	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	SOPRASMART Board 180 Sanded	DUOTACK	(Optional) SBS-CA3	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
W-7.	Min. 15/32-inch APA rated BCX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or SOPREMA #14 MP Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	SOPRASMART Board 180 Sanded	DUOTACK	(Optional) SBS-CA3	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5
W-8.	Min. 15/32-inch APA rated BCX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or SOPREMA #14 MP Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	SBS-CA3	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5



TABLE 8A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
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		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	PRIMER	LARS	
W-9.	Min. 19/32-inch APA rated OSB or CDX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISO+r or Ultra-Max	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	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-CA3	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
W-10.	Min. 15/32-inch APA rated BCX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISO+r or Ultra-Max	Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or SOPREMA #14 MP Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-CA3	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5
TORCH APPLIED BASE PLY:										
W-11.	Min. 19/32-inch APA rated OSB or CDX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	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	Min. 0.125-inch SOPRABOARD, Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
W-12.	Min. 19/32-inch APA rated OSB or CDX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	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	SOPRASMART Board 180 Sanded (for no Base Ply) or SOPRASMART Board 180 (for TA Base Ply)	DUOTACK	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
W-13.	Min. 15/32-inch APA rated BCX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or SOPREMA #14 MP Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	Min. 0.25-inch SOPRABOARD, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5
W-14.	Min. 15/32-inch APA rated BCX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or SOPREMA #14 MP Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	SOPRASMART Board 180 Sanded (for no Base Ply) or SOPRASMART Board 180 (for TA Base Ply)	DUOTACK	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5
W-15.	Min. 19/32-inch APA rated OSB or CDX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISO+r or Ultra-Max	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	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
W-16.	Min. 15/32-inch APA rated BCX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISO+r or Ultra-Max	Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or SOPREMA #14 MP Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5



TABLE 8A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
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		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	PRIMER	LARS	
SELF-ADHERING BASE PLY:										
W-17.	Min. 19/32-inch APA rated OSB or CDX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	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	Min. 0.125-inch SOPRABOARD. Top surface primed with Elastocol Stick LVOC or ELASTOCOL Stick Zero. or Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero.	DUOTACK	SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
W-18.	Min. 19/32-inch APA rated OSB or CDX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	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	SOPRASMART Board 180 Sanded. Top surface primed with Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	(Optional) SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
W-19.	Min. 15/32-inch APA rated BCX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or SOPREMA #14 MP Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	Min. 0.25-inch SOPRABOARD. Top surface primed with Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5
W-20.	Min. 15/32-inch APA rated BCX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or SOPREMA #14 MP Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	SOPRASMART Board 180 Sanded. Top surface primed with Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	(Optional) SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5
W-21.	Min. 15/32-inch APA rated BCX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or SOPREMA #14 MP Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero.	DUOTACK	SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5
W-22.	Min. 19/32-inch APA rated OSB or CDX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISO+r or Ultra-Max	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	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with ELASTOCOL Stick, Stick LVOC or Stick Zero	DUOTACK SPF HFO	SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
W-23.	Min. 15/32-inch APA rated BCX plywood	Min 2-inch SOPRA-ISOs, SOPRA-ISO+r or Ultra-Max	Versa-Fast Plate with minimum two (2) Versa-Fast Fastener or SOPREMA #14 MP Fastener installed 180° into the holes of the Versa-Fast Plate	1 per 1.8 ft ²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with ELASTOCOL Stick, Stick LVOC or Stick Zero	DUOTACK SPF HFO	SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5



TABLE 8b: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	ANCHOR SHEET		BASE INSULATION LAYER(S)		TOP INSULATION LAYER		ROOF COVER (3.1.4)			MDP (PSF)
		TYPE	FASTENER (3.1.1, 4.2.2)	TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE	PRIMER	LARS	
COLD APPLIED BASE PLY:											
W-24.	Min. 19/32-inch plywood	One or two layers MODIFIED SOPRA G	12 ga. annular ring shank nails with min. 3/8" dia head through min. 32 ga., 1-5/8" dia "tin caps" spaced 6-inch o.c. at 4-inch wide side laps and 6-inch o.c. at three equally spaced rows in the center of the sheet	(Optional) Min. 1.5-inch SOPRA-ISOs, ENRGY 3, SOPRA-ISOr or Multi-Max FA3	DUOTACK in ribbons run atop anchor sheet fastener rows	Min. 7/16-inch DEXcell Cement Roof Board or min. 0.5-inch SECUROCK Cement Roof Board	DUOTACK ribbons spaced 6" o.c. or, if no base insulation, run atop anchor sheet fastener rows	None	RS 276	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0

TABLE 8c: 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)	BASE INSULATION AND/OR THERMAL BARRIER LAYER(S) (3.1.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)			MDP (PSF)
			TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2E)	BASE	PRIMER	LARS	
NO BASE PLY:									
W-25.	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 7/16-inch DEXcell Cement Roof Board or 0.5-inch SECUROCK Cement Roof Board	SOPREMA #14 MP Fastener with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	None	RS 276	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
TORCH APPLIED BASE PLY:									
W-26.	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	SOPREMA #14 Fastener with SOPREMA 3" Round Insulation Plate	1 per 2.3 ft ²	SBS-TAP or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-30.0* (NO-HVHZ)
W-27.	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	SOPREMA #14 MP Fastener with SOPREMA 3" Metal Insulation Plate or OMG #14 Roofgrip with Flat Bottom Plate (Accutrac)	1 per 2.3 ft ²	SBS-TAP or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-37.5* (NO-HVHZ)
W-28.	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	SOPREMA #14 MP Fastener with SOPREMA 3" Metal Insulation Plate or OMG #14 Roofgrip with Flat Bottom Plate (Accutrac)	1 per 2.0 ft ²	SBS-TAP or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
W-29.	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Section 3.1.1	1 per 1.6 ft ²	SBS-TAP or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-52.5
W-30.	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD	SOPREMA #15 Fastener with SOPREMA 3" Round Insulation Plate	1 per 1.3 ft ²	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0
SELF-ADHERING BASE PLY:									
W-31.	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD primed with Elastocol 500, Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	SOPREMA #14 Fastener with SOPREMA 3" Round Insulation Plate	1 per 2.3 ft ²	SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-30.0* (NO-HVHZ)



TABLE 8C: 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)	BASE INSULATION AND/OR THERMAL BARRIER LAYER(S) (3.1.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)			MDP (PSF)
			TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2E)	BASE	PRIMER	LARS	
W-32.	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD primed with Elastocol 500, Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero or 0.25-inch DensDeck Prime	SOPREMA #14 MP Fastener with SOPREMA 3” Metal Insulation Plate or OMG #14 Roofgrip with Flat Bottom Plate (Accutrac)	1 per 2.3 ft ²	SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-37.5* (NO-HVHZ)
W-33.	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD primed with Elastocol 500, Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero or 0.25-inch DensDeck Prime	SOPREMA #14 MP Fastener with SOPREMA 3” Metal Insulation Plate or OMG #14 Roofgrip with Flat Bottom Plate (Accutrac)	1 per 2.0 ft ²	SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*

TABLE 8D: 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	INSULATION AND/OR THERMAL BARRIER (3.1.2)	BASE MEMBRANE			ROOF COVER (3.1.4)			MDP (PSF)
				TYPE (3.1.4.B)	FASTENER (3.1.1, 4.2.2)	SPACING	BASE	PRIMER	LARS	
W-34.	Min. 19/32-inch plywood	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	Any combination, prelim attach	SOPRAPHIX Base 622	SOPREMA #14 MP Fastener with SOPRAPHIX 2-inch Seam Plate	18-inch o.c. within the 4-inch wide, hot-air-welded side laps	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-37.5* (NO-HVHZ)
W-35.	Min. 15/32-inch plywood or OSB	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	Any combination, prelim attach	SOPRAPHIX Base 622	SOPREMA #14 MP Fastener with SOPRAPHIX 2-inch Seam Plate	12-inch o.c. within the 4-inch wide, hot-air-welded side laps	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
W-36.	Min. 19/32-inch plywood	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	Any combination, prelim attach	SOPRAPHIX Base 622	SOPREMA #14 MP Fastener with SOPRAPHIX 2-inch Seam Plate	12-inch o.c. within the 4-inch wide, hot-air-welded side laps	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-52.5
W-37.	Min. 19/32-inch plywood	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	Any combination, prelim attach	SOPRAPHIX Base 622, SOPRAPHIX Base 641	OMG Large Head #15 Roofgrip with Polymer Batten Strip or SOPREMA #15 Fastener with SOPRAPHIX MBB or MBB-R	6-inch o.c. within 5-inch wide, heat-welded or self-adhering laps.	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0
W-38.	Min. 19/32-inch plywood	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	Any combination, prelim attach	SOPRAPHIX Base 614	OMG Large Head #15 Roofgrip with Polymer Batten Strip or SOPREMA #15 Fastener with SOPRAPHIX MBB or MBB-R	6-inch o.c. within 5-inch wide, heat-welded or self-adhering laps.	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0
W-39.	Min. 19/32-inch plywood	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	Any combination, prelim attach	SOPRAPHIX Base 622	SOPREMA #14 MP Fastener with SOPRAPHIX 2-inch Seam Plate	6-inch o.c. within the 4-inch wide, hot-air-welded side laps	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-82.5
W-40.	Min. 19/32-inch plywood	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	Any combination, prelim attach	SOPRAPHIX Base 622, SOPRAPHIX Base 641	OMG Large Head #15 Roofgrip with Polymer Batten Strip or SOPREMA #15 Fastener with SOPRAPHIX MBB or MBB-R	6-inch o.c. within 5-inch wide, heat-welded or self-adhering laps.	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-90.0



TABLE 8D: 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	INSULATION AND/OR THERMAL BARRIER (3.1.2)	BASE MEMBRANE			ROOF COVER (3.1.4)			MDP (PSF)
				TYPE (3.1.4.B)	FASTENER (3.1.1, 4.2.2)	SPACING	BASE	PRIMER	LARS	
W-41.	Min. 19/32-inch plywood	(Optional) One or more layers MODIFIED SOPRA-G, loose laid	Any combination, prelim attach	SOPRAPHIX Base 614	OMG Large Head #15 Roofgrip with Polymer Batten Strip or SOPREMA #15 Fastener with SOPRAPHIX MBB or MBB-R	6-inch o.c. within 5-inch wide, heat-welded or self-adhering laps.	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-90.0

TABLE 9A: STEEL 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 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)	BASE	PLY	PRIMER	LARS	
NO BASE PLY:												
S-1	22 ga., Type B, Grade 40 steel	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c.	Min. 2-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	TO DECK: DUOTACK 365, ribbons 6" o.c. TO THERMAL BARRIER: DUOTACK	Additional optional layer(s), min. 1.5-inch base insulation followed by min. 0.5-inch SECUROCK Cement Roof Board	DUOTACK	None	None	RS 276	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-97.5
COLD APPLIED BASE PLY:												
S-2	22 ga., Type B, Grade 40 steel	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c.	Min. 2-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr, SOPRA-ISO+r or Multi-Max FA3	TO DECK: DUOTACK 365, ribbons 6" o.c. TO THERMAL BARRIER: DUOTACK	Additional optional layer(s), min. 1.5-inch base insulation followed by SOPRASMART Board 180 Sanded	DUOTACK	(Optional) SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0
S-3	22 ga., Type B, Grade 40 steel	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c.	Min. 2-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	TO DECK: DUOTACK 365, ribbons 6" o.c. TO THERMAL BARRIER: DUOTACK	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	DUOTACK	SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-82.5
S-4	22 ga., Type B, Grade 40 steel	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c.	Min. 2-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	TO DECK: DUOTACK 365, ribbons 6" o.c. TO THERMAL BARRIER: DUOTACK	Additional optional layer(s), min. 1.5-inch base insulation followed by min. 0.5-inch SECUROCK Gypsum Fiber Roof Board	DUOTACK	SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-90.0



**TABLE 9A: STEEL 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 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)	BASE	PLY	PRIMER	LARS	
S-5	22 ga., Type B, Grade 40 steel	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c.	Min. 2-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	TO DECK: DUOTACK 365, ribbons 6" o.c. TO THERMAL BARRIER: DUOTACK	Additional optional layer(s), min. 1.5-inch base insulation followed by min. 0.5-inch DensDeck Prime	DUOTACK	SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-97.5
S-6	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.	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+R, Ultra-Max or SOPRA-XPS	DUOTACK SPF HFO	Min. 0.25-inch SOPRABOARD, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0
S-7	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 6" o.c.	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+R, Ultra-Max or SOPRA-XPS	DUOTACK SPF HFO, ribbons 6" o.c.	Min. 0.25-inch SOPRABOARD, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO, ribbons 6" o.c.	SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-97.5
TORCH APPLIED BASE PLY:												
S-8	22 ga., Type B, Grade 40 steel	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c.	Min. 2-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	TO DECK: DUOTACK 365, ribbons 6" o.c. TO THERMAL BARRIER: DUOTACK	Additional optional layer(s), min. 1.5-inch base insulation followed by min. 0.25-inch SOPRABOARD, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-82.5
S-9	22 ga., Type B, Grade 40 steel	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c.	Min. 2-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	TO DECK: DUOTACK 365, ribbons 6" o.c. TO THERMAL BARRIER: DUOTACK	Additional optional layer(s), min. 1.5-inch base insulation followed by min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-97.5
S-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.	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+R, Ultra-Max or SOPRA-XPS	DUOTACK SPF HFO	Min. 0.25-inch SOPRABOARD, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0



**TABLE 9A: STEEL 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 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)	BASE	PLY	PRIMER	LARS	
S-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 6" o.c.	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+R, Ultra-Max or SOPRA-XPS	DUOTACK SPF HFO, ribbons 6" o.c.	Min. 0.25-inch SOPRABOARD, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO, ribbons 6" o.c.	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-127.5
SELF-ADHERING BASE PLY:												
S-12	22 ga., Type B, Grade 40 steel	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c.	Min. 2-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOR, SOPRA-ISO+r or Multi-Max FA3	TO DECK: DUOTACK 365, ribbons 6" o.c. TO THERMAL BARRIER: DUOTACK	Additional optional layer(s), min. 1.5-inch base insulation followed by min. 0.125-inch SOPRABOARD primed with Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-52.5
S-13	22 ga., Type B, Grade 40 steel	(Optional) Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK 365, ribbons 6" o.c.	Min. 2-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOR or SOPRA-ISO+r	TO DECK: DUOTACK 365, ribbons 6" o.c. TO THERMAL BARRIER: DUOTACK	Additional optional layer(s), min. 1.5-inch base insulation followed by min. 0.25-inch SOPRABOARD, DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board primed with Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-82.5
S-14	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.	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+R, Ultra-Max or SOPRA-XPS	DUOTACK SPF HFO	Min. 0.25-inch SOPRABOARD or DensDeck Prime. Top surface primed with ELASTOCOL Stick LVOC or Stick Zero.	DUOTACK SPF HFO	SBS-SA1	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0
S-15	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.	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+R, Ultra-Max or SOPRA-XPS	DUOTACK SPF HFO	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with ELASTOCOL Stick, Stick LVOC or Stick Zero	DUOTACK SPF HFO	SBS-SA1	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0



TABLE 9A: STEEL 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 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)	BASE	PLY	PRIMER	LARS	
S-16	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 6" o.c.	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+R, Ultra-Max or SOPRA-XPS	DUOTACK SPF HFO, ribbons 6" o.c.	Min. 0.25-inch SOPRABOARD or DensDeck Prime. Top surface primed with ELASTOCOL Stick LVOC or Stick Zero.	DUOTACK SPF HFO, ribbons 6" o.c.	SBS-SA1	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-127.5
S-17	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 6" o.c.	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+R, Ultra-Max or SOPRA-XPS	DUOTACK SPF HFO, ribbons 6" o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board or min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with ELASTOCOL Stick, Stick LVOC or Stick Zero	DUOTACK SPF HFO, ribbons 6" o.c.	SBS-SA1	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-127.5

TABLE 9B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER											
SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER		ROOF COVER (3.1.4)				MDP (psf)
		TYPE	FASTENER (4.2.2A)	ATTACH (3.1.2E)	TYPE	ATTACH (3.1.3)	BASE	PLY	PRIMER	LARS	
NO BASE PLY:											
S-18	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISOs or SOPRA-ISO or min. 0.5-inch SECUROCK Cement Roof Board	Section 3.3.1	1 per 1.6 ft ²	Min. 0.5-inch SECUROCK Cement Roof Board	DUOTACK	None	None	RS 276	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-82.5
S-19	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISOs or SOPRA-ISO or min. 0.5-inch SECUROCK Cement Roof Board	Section 3.3.1	1 per 1.0 ft ²	Min. 0.5-inch SECUROCK Cement Roof Board	DUOTACK, 6-inch o.c.	None	None	RS 276	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-127.5
COLD-APPLIED BASE PLY:											
S-20	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISO 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	DUOTACK	(Optional) SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-52.5
S-21	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs, SOPRA-ISO or, SOPRA-ISO+r, Multi-Max FA3 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 or SECUROCK Gypsum Fiber Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-82.5



**TABLE 9B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
 SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

SYSTEM No.	Deck (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER		ROOF COVER (3.1.4)				MDP (psf)
		TYPE	FASTENER (4.2.2A)	ATTACH (3.1.2E)	TYPE	ATTACH (3.1.3)	BASE	PLY	PRIMER	LARS	
S-22	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.5-inch SOPRA-ISOs, SOPRA-ISO+r or Ultra-Max	Soprema #14 MP with Soprema 3" Metal Insulation Plate	1 per 2.0 ft ²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-23	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs, SOPRA-ISO+r or Ultra-Max	Soprema #14 MP with Soprema 3" Metal Insulation Plate	1 per 4.0 ft ²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-24	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs, 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 SOPRABOARD or DEXcell FA Glass Mat Roof Board	DUOTACK SPF HFO	SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0
S-25	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs, 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 Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-82.5
TORCH APPLIED BASE PLY:											
S-26	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.5-inch SOPRA-ISOs or SOPRA-ISOr	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Min. 0.125-inch SOPRABOARD	DUOTACK	SBS-TAP, SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-27	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.5-inch SOPRA-ISOs or SOPRA-ISOr	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	SOPRASMART Board 180 (for TA Base Ply) or SOPRASMART Board 180 Sanded (for no Base Ply)	DUOTACK	(Optional) SBS-TAP, SBS-TAF	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-28	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.5-inch SOPRA-ISOs or SOPRA-ISOr	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	SBS-TAP, SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-29	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs or SOPRA-ISOr	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Min. 0.125-inch SOPRABOARD	DUOTACK	SBS-TAP, SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-30	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs or SOPRA-ISOr	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	SOPRASMART Board 180 (for TA Base Ply) or SOPRASMART Board 180 Sanded (for no Base Ply)	DUOTACK	(Optional) SBS-TAP, SBS-TAF	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-31	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs or SOPRA-ISOr	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	SBS-TAP, SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*



**TABLE 9B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
 SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

SYSTEM No.	Deck (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER		ROOF COVER (3.1.4)				MDP (psf)
		TYPE	FASTENER (4.2.2A)	ATTACH (3.1.2E)	TYPE	ATTACH (3.1.3)	BASE	PLY	PRIMER	LARS	
S-32	Min. 22 ga., type B, Grade 33 steel	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-ISOs or SOPRA-ISOR; followed by min. 0.125-inch SOPRABOARD	DUOTACK	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-33	Min. 22 ga., type B, Grade 33 steel	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-ISOs or SOPRA-ISOR; followed by SOPRASMART Board 180 (for TA Base Ply) or SOPRASMART Board 180 Sanded (for no Base Ply)	DUOTACK	(Optional) SBS-TAP, SBS-TAF	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-34	Min. 22 ga., type B, Grade 33 steel	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-ISOs or SOPRA-ISOR; followed by min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-35	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISOr or SOPRA-ISOr	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	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-52.5
S-36	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISOr or SOPRA-ISOr	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 (for TA Base Ply) or SOPRASMART Board 180 Sanded (for no Base Ply)	DUOTACK	(Optional) SBS-TAF	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-52.5
S-37	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISOs or ENRGY 3	Section 3.3.1	1 per 2.0 ft ²	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK	SBS-TAP, SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0
S-38	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISOr, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3” Metal Insulation Plate	1 per 1.6 ft ²	Min. 0.25-inch SOPRABOARD	DUOTACK	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-82.5
S-39	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISOr, Multi-Max FA3 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 or SECUROCK Gypsum Fiber Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-82.5
S-40	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOr	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	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-135.0
S-41	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.5-inch SOPRA-ISOs, SOPRA-ISOr or Ultra-Max	Soprema #14 MP with Soprema 3” Metal Insulation Plate	1 per 2.0 ft ²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-TAP, SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*



**TABLE 9B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
 SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

SYSTEM No.	Deck (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER		ROOF COVER (3.1.4)				MDP (psf)
		TYPE	FASTENER (4.2.2A)	ATTACH (3.1.2E)	TYPE	ATTACH (3.1.3)	BASE	PLY	PRIMER	LARS	
S-42	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs, SOPRA-ISO+r or Ultra-Max	Soprema #14 MP with Soprema 3" Metal Insulation Plate	1 per 4.0 ft ²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-TAP, SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-43	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISOs	Section 3.3.1	1 per 2.0 ft ²	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	SBS-TAP, SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0
S-44	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs, 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 SOPRABOARD or DEXcell FA Glass Mat Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0
S-45	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs, 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 Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-82.5
S-46	Min. 22 ga., Type B, Grade 40 steel or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISOs	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	DUOTACK SPF HFO	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-105.0
S-47	Min. 22 ga., Type B, Grade 40 steel or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISOs	Soprema #14 MP or #15 HD with Soprema 3" Metal Insulation Plate	1 per 1.0 ft ²	Min. 0.25-inch SOPRABOARD, DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO, 6" o.c.	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-105.0
SELF-ADHERING BASE PLY:											
S-48	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.5-inch SOPRA-ISOs or SOPRA-ISOR	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Min. 0.125-inch SOPRABOARD primed with Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-49	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.5-inch SOPRA-ISOs or SOPRA-ISOR	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero.	DUOTACK	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-50	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs or SOPRA-ISOR	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Min. 0.125-inch SOPRABOARD primed with Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*



**TABLE 9B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
 SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

SYSTEM No.	Deck (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER		ROOF COVER (3.1.4)				MDP (PSF)
		TYPE	FASTENER (4.2.2A)	ATTACH (3.1.2E)	TYPE	ATTACH (3.1.3)	BASE	PLY	PRIMER	LARS	
S-51	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs or SOPRA-ISOr	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-52	Min. 22 ga., type B, Grade 33 steel	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-ISOs or SOPRA-ISOr; followed by Min. 0.125-inch SOPRABOARD primed with Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-53	Min. 22 ga., type B, Grade 33 steel	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-ISOs or SOPRA-ISOr; followed by min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum Fiber Roof Board or min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-54	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	SOPREMA #15 HD with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	Min. 0.125-inch SOPRABOARD; primed with Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-52.5
S-55	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISOs or ENRGY 3	Section 3.3.1	1 per 2.0 ft ²	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero.	DUOTACK	SBS-SA1	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0
S-56	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	Min. 0.25-inch SOPRABOARD primed with Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-82.5
S-57	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 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 or SECUROCK Gypsum Fiber Roof Board or min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero.	DUOTACK	SBS-SA1	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-82.5
S-58	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.5-inch SOPRA-ISOs, SOPRA-ISO+r or Ultra-Max	Soprema #14 MP with Soprema 3" Metal Insulation Plate	1 per 2.0 ft ²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with ELASTOCOL Stick, Stick LVOC or Stick Zero	DUOTACK SPF HFO	SBS-SA1	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*



**TABLE 9B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
 SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

SYSTEM No.	Deck (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER		ROOF COVER (3.1.4)				MDP (PSF)
		TYPE	FASTENER (4.2.2A)	ATTACH (3.1.2E)	TYPE	ATTACH (3.1.3)	BASE	PLY	PRIMER	LARS	
S-59	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs, SOPRA-ISO+r or Ultra-Max	Soprema #14 MP with Soprema 3" Metal Insulation Plate	1 per 4.0 ft ²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with ELASTOCOL Stick, Stick LVOC or Stick Zero	DUOTACK SPF HFO	SBS-SA1	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-60	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISOs	Section 3.3.1	1 per 2.0 ft ²	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board primed with ELASTOCOL Stick, Stick LVOC or Stick Zero	DUOTACK SPF HFO	SBS-SA1	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0
S-61	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs, 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 SOPRABOARD. Top surface primed with ELASTOCOL Stick LVOC or Stick Zero.	DUOTACK SPF HFO	SBS-SA1	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0
S-62	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs, 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. Top surface primed with ELASTOCOL Stick, Stick LVOC or Stick Zero	DUOTACK SPF HFO	SBS-SA1	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0
S-63	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 2-inch SOPRA-ISOs, 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 Min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with ELASTOCOL Stick, Stick LVOC or Stick Zero	DUOTACK SPF HFO	SBS-SA1	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-82.5
S-64	Min. 22 ga., Type B, Grade 40 steel or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISOs	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. Top surface primed with ELASTOCOL Stick, Stick LVOC or Stick Zero	DUOTACK SPF HFO	SBS-SA1	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-105.0
S-65	Min. 22 ga., Type B, Grade 40 steel or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISOs	Soprema #14 MP or #15 HD with Soprema 3" Metal Insulation Plate	1 per 1.0 ft ²	Min. 0.25-inch SOPRABOARD. Top surface primed with ELASTOCOL Stick LVOC or Stick Zero.	DUOTACK SPF HFO, 6" o.c.	SBS-SA1	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-105.0
S-66	Min. 22 ga., Type B, Grade 40 steel or min. 2,500 psi structural concrete	Min. 2-inch SOPRA-ISOs	Soprema #14 MP or #15 HD with Soprema 3" Metal Insulation Plate	1 per 1.0 ft ²	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with ELASTOCOL Stick, Stick LVOC or Stick Zero	DUOTACK SPF HFO, 6" o.c.	SBS-SA1	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-105.0



**TABLE 9c: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
 SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

SYSTEM No.	Deck (4.1.2)	BASE INSULATION LAYER(S) (3.1.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)				MDP (PSF)
			TYPE	FASTENER (4.2.2A)	ATTACH (3.1.2E)	BASE	PLY	PRIMER	LARS	
NO BASE PLY:										
S-67	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 7/16-inch DEXcell Cement Roof Board	Section 3.3.1	1 per 2.0 ft ²	None	None	RS 276	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-68	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Cement Roof Board	Section 3.3.1	1 per 1.0 ft ²	None	None	RS 276	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-82.5
S-69	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Cement Roof Board	Section 3.3.1	1 per 1.0 ft ²	None	None	RS 276	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-150.0
COLD APPLIED BASE PLY:										
S-70	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-71	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.25-inch DensDeck Prime	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-52.5
S-72	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5
S-73	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0
S-74	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Section 3.3.1	1 per 1.0 ft ²	SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-82.5
S-75	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.3 ft ²	SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-90.0
S-76	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Section 3.3.1	1 per 1.0 ft ²	SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-127.5
TORCH APPLIED BASE PLY:										
S-77	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-78	Min. 22 ga., type B, Grade 33 steel	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Section 3.3.1	1 per 4.0 ft ²	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*



**TABLE 9c: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
 SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

SYSTEM No.	Deck (4.1.2)	BASE INSULATION LAYER(S) (3.1.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)				MDP (PSF)
			TYPE	FASTENER (4.2.2A)	ATTACH (3.1.2E)	BASE	PLY	PRIMER	LARS	
S-79	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime	OMG HD with 3 in. Galvalume Steel Plate	1 per 4.0 ft ²	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-80	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck primed with Elastocol Stick	Section 3.3.1	1 per 2.0 ft ²	SBS-TAP, SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-81	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Section 3.3.1	1 per 4.0 ft ²	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-82	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Section 3.3.1	1 per 2.7 ft ²	SBS-TAP, SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-83	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD	Section 3.3.1	1 per 4.0 ft ²	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-84	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD	Section 3.3.1	1 per 2.0 ft ²	SBS-TAP, SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-85	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 2.0 ft ²	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-86	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0
S-87	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Section 3.3.1	1 per 1.8 ft ²	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-52.5
S-88	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.4-inch, any combination, loose laid	Min. 0.25-inch DensDeck or DensDeck Prime	OMG #14 Roofgrip with Flat Bottom Plate (Accutrac)	1 per 1.8 ft ²	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0
S-89	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD	Section 3.3.1	1 per 2.0 ft ²	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0
S-90	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5
S-91	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.3 ft ²	SBS-TAF (D6164 only)	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5



**TABLE 9c: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
 SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

SYSTEM No.	Deck (4.1.2)	BASE INSULATION LAYER(S) (3.1.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)				MDP (psf)
			TYPE	FASTENER (4.2.2A)	ATTACH (3.1.2E)	BASE	PLY	PRIMER	LARS	
S-92	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD	Section 3.3.1	1 per 2.0 ft ²	SBS-TAF (D6164 only)	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5
S-93	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.6 ft ²	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0
S-94	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.3 ft ²	SBS-TAF (D6164 only)	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0
S-95	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Section 3.3.1	1 per 1.0 ft ²	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-82.5
S-96	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Cement Roof Board primed with Elastocol 500	Section 3.3.1	1 per 1.0 ft ²	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-82.5
S-97	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.3 ft ²	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-90.0
S-98	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Section 3.3.1	1 per 1.0 ft ²	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-127.5
S-99	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Cement Roof Board primed with Elastocol 500	Section 3.3.1	1 per 1.0 ft ²	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-150.0
S-100	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.3 ft ²	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-157.5
S-101	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.0 ft ²	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-172.5
SELF-ADHERING BASE PLY:										
S-102	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or min. 7/16-inch DEXcell Cement Roof Board primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-103	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 4.0 ft ²	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*



TABLE 9c: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

SYSTEM No.	Deck (4.1.2)	BASE INSULATION LAYER(S) (3.1.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)				MDP (psf)
			TYPE	FASTENER (4.2.2A)	ATTACH (3.1.2E)	BASE	PLY	PRIMER	LARS	
S-104	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min 0.375-inch SECUROCK Gypsum-Fiber Roof Board primed with D41, Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	Section 3.3.1	1 per 2.7 ft ²	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-105	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch SOPRA-ISO+s, SOPRA-ISO+r or Ultra-Max	Section 3.3.1	1 per 2.0 ft ²	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-106	Min. 22 ga. type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch SOPRA-ISOs or SOPRA-ISOr <i>mist-primed with Elastocol 500, Elastocol Stick, Elastocol Stick LVOC or ELASTOCOL Stick Zero</i>	Section 3.3.1	1 per 2.0 ft ²	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-107	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck primed with D41 primer, Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero or DensDeck Prime	Section 3.3.1	1 per 2.0 ft ²	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-108	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.125-inch SOPRABOARD primed with Elastocol 500, Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	Section 3.3.1	1 per 2.0 ft ²	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-109	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for recover) One or more layers, any combination, loose laid	Min. 0.25-inch DEXcell FA Glass Mat Roof Board primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	SBS-SA1	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0
S-110	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.25-inch DensDeck Prime	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	1 per 1.8 ft ²	SBS-SA1	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-52.5
S-111	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, min. 1.4-inch, any combination, loose laid	Min. 0.25-inch DensDeck primed with D41 primer, Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero or DensDeck Prime	OMG #14 Roofgrip with Flat Bottom Plate (Accutrac)	1 per 1.8 ft ²	SBS-SA1	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0

TABLE 9d: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

SYSTEM No.	Deck (4.1.2)	INSULATION LAYER(S) (3.1.2)	BASE SHEET			ROOF COVER (3.1.4)			MDP (psf)
			TYPE	FASTENER (4.2.2A)	SPACING	BASE	PRIMER	LARS	
S-112	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	SOPRABASE TG	SOPREMA #14 MP with SOPREMA 3" Metal Insulation Plate	12-inch o.c. at the 4-inch side laps and 12-inch o.c. at two, equally spaced, staggered center rows	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-52.5



**TABLE 9E: 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 LAYER(S) (3.1.2)	BASE MEMBRANE			ROOF COVER (3.1.4)			MDP (psf)
			TYPE (3.1.4.B)	FASTENER (4.2.2A)	SPACING	BASE	PRIMER	LARS	
S-113	Min. 22 ga., type B, Grade 33 steel	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	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
S-114	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 622	SOPREMA #14 MP with SOPREMA 2" Seam Plate	12-inch o.c. within min. 4-inch wide, heat-welded side laps	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-52.5
S-115	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 622	SOPREMA #15 HD with SOPREMA 2" Seam Plate	12-inch o.c. within min. 4-inch wide, heat-welded side laps	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5
S-116	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611, 612 or 614	SOPREMA #15 HD with SOPREMA 2" Seam Plate	12-inch o.c. within min. 4-inch wide, heat-welded side laps	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5
S-117	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 622	SOPREMA #14 MP with SOPREMA 2" Seam Plate	12-inch o.c. within min. 4-inch wide, heat-welded side laps	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5
S-118	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611, 612 or 614	SOPREMA #14 MD with SOPREMA 2" Seam Plate	12-inch o.c. within min. 4-inch wide, heat-welded side laps	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5
S-119	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 622	SOPREMA #15 HD with SOPREMA 2.4" Seam Plate	12-inch o.c. within min. 4-inch wide, heat-welded side laps	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0
S-120	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 641	Trufast #15 EHD with Trufast 2.4" Barbed Metal Seam Plate	12-inch o.c. within min. 5-inch wide, self-adhered side laps	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0
S-121	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611, 612 or 614	SOPREMA #15 HD with SOPREMA 2.4" Seam Plate	12-inch o.c. within min. 4-inch wide, heat-welded side laps	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0
S-122	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 622	SOPREMA #14 MP with SOPREMA 2.4" Seam Plate	12-inch o.c. within min. 4-inch wide, heat-welded side laps	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0
S-123	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 614	SOPREMA #15 HD with SOPREMA 2.4" Seam Plate	12-inch o.c. within min. 4-inch wide, heat-welded side laps	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-97.5
S-124	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 622	SOPREMA #15 HD with SOPREMA 2" Seam Plate or SOPREMA 2.4" Seam Plate	6-inch o.c. within min. 4-inch wide, heat-welded side laps	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-112.5
S-125	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 641	Trufast #15 EHD with Trufast 2.4" Barbed Metal Seam Plate	6-inch o.c. within min. 5-inch wide, self-adhered side laps	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-120.0
S-126	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611, 612 or 614	SOPREMA #15 HD with SOPREMA 2" Seam Plate or SOPREMA 2.4" Seam Plate	6-inch o.c. within min. 4-inch wide, heat-welded side laps	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-120.0
S-127	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 622	SOPREMA #14 or #15 HD with SOPREMA 2" Seam Plate	6-inch o.c. within min. 4-inch wide, heat-welded side laps	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-120.0
S-128	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 622	SOPREMA #15 HD with SOPREMA 2.4" Seam Plate	6-inch o.c. within min. 4-inch wide, heat-welded side laps	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-135.0



TABLE 10a: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

REFER TO TABLE VB-2 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)), ROOF COVER (3.1.4) (BASE PLY, PLY, PRIMER, LARS), and MDP (PSF). Rows include C-1 to C-10 under categories 'NO BASE PLY' and 'COLD-APPLIED BASE PLY'.



**TABLE 10a: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
 SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

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

SYSTEM No.	DECK (4.1.2)	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	PLY	PRIMER	LARS	
C-11	Min. 2,500 psi structural concrete	(Optional) Min. 1-inch SOPRA-ISOs	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	(Optional) SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-315.0
C-12	Min. 2,500 psi structural concrete	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK SPF HFO	None	N/A	(Optional) SBS-CA3	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-382.5
TORCH BASE PLY:										
C-13	Min. 2,500 psi structural concrete	(Optional) One or more layer(s), min. 1-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3, Ultra-Max or SOPRA-XPS	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-187.5
C-14	Min. 2,500 psi structural concrete	(Optional) One or more layer(s), min. 1-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3, Ultra-Max or SOPRA-XPS	DUOTACK, 6-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 6-inch o.c.	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-227.5
C-15	Min. 2,500 psi structural concrete	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK	SOPRASMART ISO HD 180 (for TA Base Ply) or SOPRASMART ISO HD 180 Sanded (for no Base Ply)	DUOTACK	(Optional) SBS-TAF	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-307.5
C-16	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-315.0
C-17	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK 365	Min. 0.5-inch SECUROCK Cement Roof Board. Top surface primed with ELASTOCOL 500.	DUOTACK 365	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-315.0
C-18	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK	Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-367.5
C-19	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK	Min. 0.125-inch SOPRABOARD	DUOTACK	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-382.5
C-20	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK	SOPRASMART Board 180 (for TA Base Ply) or SOPRASMART Board 180 Sanded (for no Base Ply)	DUOTACK	(Optional) SBS-TAF	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-382.5



TABLE 10A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
REFER TO [TABLE VB-2](#) FOR VAPOR BARRIER OPTIONS

SYSTEM No.	DECK (4.1.2)	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	PLY	PRIMER	LARS	
C-21	Min. 2,500 psi structural concrete	Min. 1.5-inch SOPRA-ISO+s, SOPRA-ISOR, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-270.0
C-22	Min. 2,500 psi structural concrete	(Optional) Min. 1-inch SOPRA-ISOs	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-315.0
C-23	Min. 2,500 psi structural concrete	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK SPF HFO	None	N/A	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-592.5
SELF-ADHERING BASE PLY:										
C-24	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOR, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-120.0
C-25	Min. 2,500 psi structural concrete	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOR, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK	Min. 7/16-inch DEXcell Cement Roof Board primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-190.0
C-26	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOR, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK	Min. 0.125-inch SOPRABOARD primed with Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-270.0
C-27	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOR, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-315.0
C-28	Min. 2,500 psi structural concrete	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOR, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK	Min. 0.125-inch SOPRABOARD	DUOTACK	SBS-SA1	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-382.5
C-29	Min. 2,500 psi structural concrete	(Optional) Min. 1-inch SOPRA-ISOs or min. 1.5-inch SOPRA-ISO+s, SOPRA-ISOR, SOPRA-ISO+r or Ultra-Max	DUOTACK SPF HFO	Min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with ELASTOCOL Stick, Stick LVOC or Stick Zero	DUOTACK SPF HFO	SBS-SA1	(Optional) SBS-SA1 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-190.0



TABLE 10A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
REFER TO TABLE VB-2 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)), ROOF COVER (3.1.4) (BASE PLY, PLY, PRIMER, LARS), and MDP (PSF). Rows C-30 to C-34 describe various structural concrete deck systems with their respective insulation and roof cover details.



**TABLE 10b: 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 LAYER(S) (3.1.2)	BASE SHEET			ROOF COVER (3.1.4)			MDP (psf)
			TYPE (3.1.4.B)	FASTENER (4.2.2A)	SPACING	BASE PLY	PRIMER	LARS	
C-35	Min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 622	SOPREMA #14 MP or Trufast 1/4" Concrete Spike with SOPREMA 2" Seam Plate	18-inch o.c. within 4-inch wide, heat-welded side laps	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
C-36	Min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611, 612 or 614	SOPREMA #14 MP or Trufast 1/4" Concrete Spike with SOPREMA 2" Seam Plate	18-inch o.c. within 4-inch wide, heat-welded or self-adhering laps	SBS-TA	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0*
C-37	Min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611, 612 or 614	SOPREMA #14 MP or Trufast 1/4" Concrete Spike with SOPREMA 2" Seam Plate or SOPREMA 2.4" Seam Plate	12-inch o.c. within 5-inch wide, heat-welded side laps	SBS-TA	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0
C-38	Min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 622	SOPREMA #14 MP or Trufast 1/4" Concrete Spike with SOPREMA 2" Seam Plate	12-inch o.c. within 4-inch wide, heat-welded laps	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5
C-39	Min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611, 612 or 614	SOPREMA #14 MP or Trufast 1/4" Concrete Spike with SOPREMA 2" Seam Plate	12-inch o.c. within 4-inch wide, heat-welded laps	SBS-TA	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5
C-40	Min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611 or 612	SOPREMA #14 MP or Trufast 1/4" Concrete Spike with SOPREMA 2.4" Seam Plate	12-inch o.c. within 4-inch wide, heat-welded laps	SBS-TA	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0
C-41	Min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 622	SOPREMA #14 MP or Trufast 1/4" Concrete Spike with SOPREMA 2.4" Seam Plate	12-inch o.c. within 4-inch wide, heat-welded laps	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-97.5
C-42	Min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 614	SOPREMA #14 MP or Trufast 1/4" Concrete Spike with SOPREMA 2.4" Seam Plate	12-inch o.c. within 4-inch wide, heat-welded laps	SBS-TA	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-97.5
C-43	Min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611, 612 or 614	SOPREMA #14 MP or Trufast 1/4" Concrete Spike with SOPREMA 2" Seam Plate or SOPREMA 2.4" Seam Plate	6-inch o.c. within 4-inch wide, heat-welded laps	SBS-TA	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-120.0
C-44	Min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 611, 612 or 614	SOPREMA #14 MP or Trufast 1/4" Concrete Spike with SOPREMA 2" Seam Plate or SOPREMA 2.4" Seam Plate	6-inch o.c. within 4-inch wide, heat-welded laps	SBS-TA	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-120.0
C-45	Min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	SOPRAPHIX Base 622	SOPREMA #14 MP or Trufast 1/4" Concrete Spike with SOPREMA 2.4" Seam Plate	6-inch o.c. within min. 4-inch wide, heat-welded side laps	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-135.0



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**TABLE 10c: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE F-1: NON-INSULATED, BONDED ROOF COVER**

SYSTEM NO.	Deck (4.1.2)	PRIMER	ROOF COVER (3.1.4)					MDP (PSF)
			BASE PLY(S)	PLY	CAP PLY	PRIMER	LARS	
C-46	Min. 2,500 psi structural concrete	None	SBS-CA2, ribbons 12-inch o.c.	None	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0
C-47	Min. 2,500 psi structural concrete	None	SBS-CA2, ribbons 6-inch o.c.	None	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-180.0
C-48	Min. 2,500 psi structural concrete	(Optional) ASTM D41	SBS-CA3	None	None	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-270.0
C-49	Min. 2,500 psi structural concrete	ASTM D41	SBS-TAP or SBS-TAF	(Optional) One or more SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-392.5
C-50	Min. 2,500 psi structural concrete	ASTM D41	None	None	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-392.5
C-51	Min. 2,500 psi structural concrete	RS 222	None	None	None	N/A	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-495.0
C-52	Min. 2,500 psi structural concrete	AVC-SG3	None	None	None	N/A	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-845.0
C-53	Min. 2,500 psi structural concrete	RS 276	None	None	None	N/A	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-940.0



TABLE 11A: DECK WITH LIGHTWEIGHT CONCRETE - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: LWC TO DECK, BONDED INSULATION, BONDED ROOF COVER
 REFER TO [TABLE VB-3](#) FOR DRY-IN / TEMPORARY ROOF OPTIONS (BETWEEN STRUCTURAL CONCRETE AND LIGHTWEIGHT CONCRETE)

SYSTEM No.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2d)	BASE INSULATION LAYER		COVERBOARD		ROOF COVER (3.1.4)			MDP (PSF)
			TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PRIMER	LARS	
CELCORE:										
TORCH APPLIED BASE PLY:										
LWC-1.	Min. 2,500 psi 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. 0.125-inch SOPRABOARD	DUOTACK	None	N/A	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-115.0
LWC-2.	Min. 2,500 psi 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	SOPRASMART Board 180 (for TA Base Ply) or SOPRASMART Board 180 Sanded (for no Base Ply)	DUOTACK	None	N/A	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-115.0
LWC-3.	Min. 2,500 psi 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	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-170.0
LWC-4.	Min. 2,500 psi 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	SOPRASMART Board 180 or SOPRASMART ISO HD 180 (for TA Base Ply) or SOPRASMART Board 180 Sanded or SOPRASMART ISO HD 180 Sanded (for no Base Ply)	DUOTACK	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-170.0
SELF-ADHERING BASE PLY:										
LWC-5.	Min. 2,500 psi 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. 0.125-inch SOPRABOARD	DUOTACK	None	N/A	SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-115.0
LWC-6.	Min. 2,500 psi 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	SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-155.0



TABLE 11b: DECK WITH LIGHTWEIGHT CONCRETE - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: LWC TO DECK, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER
REFER [TABLE VB-3](#) FOR DRY-IN / TEMPORARY ROOF OPTIONS (BETWEEN STRUCTURAL CONCRETE AND LIGHTWEIGHT CONCRETE)

SYSTEM NO.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2d)	VAPOR BARRIER (3.1.4)	BASE INSULATION LAYER		COVERBOARD		ROOF COVER (3.1.4)			MDP (PSF)
				TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PRIMER	LARS	
PRE-EXISTENT CELLULAR LWC:											
TORCH APPLIED BASE PLY:											
LWC-7.	Min. 2,500 psi structural concrete	Cellular lightweight concrete, Min. 330 psi, Min. 2-inch top coat <i>As quality check on the LWIC, a SOPREMA 1.7 in. Base Sheet Fastener shall achieve average withdrawal resistance of 101 lbf when tested per Section 4.4.2a.</i>	SBS-CA2, 12-inch o.c. (sanded-top)	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK	SOPRASMART XP HD 180 (for TA Base Ply) or SOPRASMART XP HD 180 Sanded (for no Base Ply)	DUOTACK	(Optional) SBS-TAP or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-52.5
LWC-8.	Min. 2,500 psi structural concrete	Cellular lightweight concrete, Min. 330 psi, Min. 2-inch top coat <i>As quality check on the LWIC, a SOPREMA 1.7 in. Base Sheet Fastener shall achieve average withdrawal resistance of 101 lbf when tested per Section 4.4.2a.</i>	SBS-CA2, 12-inch o.c. (sanded-top)	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK	Min. 0.125-inch SOPRABOARD, Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	TA-F	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0
LWC-9.	Min. 2,500 psi structural concrete	Cellular lightweight concrete, Min. 330 psi, Min. 2-inch top coat <i>As quality check on the LWIC, a SOPREMA 1.7 in. Base Sheet Fastener shall achieve average withdrawal resistance of 101 lbf when tested per Section 4.4.2a.</i>	SBS-CA2, 12-inch o.c. (sanded-top)	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK	SOPRASMART Board 180 or SOPRASMART ISO HD 180 (for TA Base Ply) or SOPRASMART Board 180 Sanded or SOPRASMART ISO HD 180 Sanded (for no Base Ply)	DUOTACK	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0
SELF-ADHERING BASE PLY:											
LWC-10.	Min. 2,500 psi structural concrete	Cellular lightweight concrete, Min. 330 psi, Min. 2-inch top coat <i>As quality check on the LWIC, a SOPREMA 1.7 in. Base Sheet Fastener shall achieve average withdrawal resistance of 101 lbf when tested per Section 4.4.2a.</i>	SBS-CA2 (sanded-top)	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYISO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK	Min. 0.125-inch SOPRABOARD, Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0



TABLE 11c: DECK WITH LIGHTWEIGHT CONCRETE – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: LWC TO DECK, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER
 REFER TO [TABLE VB-3](#) FOR DRY-IN / TEMPORARY ROOF OPTIONS (BETWEEN STRUCTURAL CONCRETE AND LIGHTWEIGHT CONCRETE)

SYSTEM NO.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2d)	BASE SHEET			ROOF COVER (3.1.4)			MDP (PSF)
			BASE	FASTEN (4.2.2A)	SPACING	BASE PLY	PRIMER	LARS	
CELCORE (FL2037):									
LWC-11.	Min. 22 ga. steel at max 5 ft spans or structural concrete	Min. 300 psi, min 2-inch thick Celcore Cellular Concrete. After setting to support foot traffic, Celcore PVA Curing Compound is applied.	MODIFIED SOPRA-G	SOPREMA 1.7 in. Base Sheet Fastener	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0
PRE-EXISTENT CELLULAR LWC:									
LWC-12.	Min. 22 ga. type B steel at max. 5 ft spans or min. 2,500 psi structural concrete	Cellular lightweight concrete, Min. 300 psi, Min. 2-inch top coat. <i>As quality check on the LWIC, a SOPREMA 1.7 in. Base Sheet Fastener shall achieve average withdrawal resistance of 99 lbf when tested per Section 4.4.2a.</i>	SOPRABASE TG	Min. 1.8-inch SOPREMA Twin Loc-Nail	9-inch o.c. at 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-67.5
LWC-13.	Min. 22 ga. type B steel at max. 5 ft spans or min. 2,500 psi structural concrete	Cellular lightweight concrete, Min. 300 psi, Min. 2-inch top coat. <i>As quality check on the LWIC, a SOPREMA 1.7 in. Base Sheet Fastener shall achieve average withdrawal resistance of 101 lbf when tested per Section 4.4.2a.</i>	SOPRALENE 180 Sanded 2.2, SOPRALENE 180 Sanded	Min. 1.8-inch SOPREMA Twin Loc-Nail	9-inch o.c. at 4-inch laps and 9-inch o.c. in two, equally spaced, staggered center rows	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0

TABLE 11d: DECK WITH LIGHTWEIGHT CONCRETE – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: THERMAL BARRIER TO DECK, TEMP ROOF TO THERMAL BARRIER, LWC TO TEMP ROOF, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

SYS. NO.	DECK (4.1.2)	THERMAL BARRIER			VAPOR BARRIER (3.1.4)	LIGHTWEIGHT CONCRETE (3.1.2d)	BASE SHEET			ROOF COVER (3.1.4)			MDP (PSF)
		TYPE	FASTEN (4.2.2A)	ATTACH (3.1.2E)			TYPE	FASTENER (4.2.2A)	SPACING	BASE PLY	PRIMER	LARS	
CELCORE (FL2037):													
LWC-14.	Min. 22 ga. type B steel at max. 6 ft spans	Min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Section 3.3.1	1 per 1.6 ft ²	SBS-TAF	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.	MODIFIED SOPRA-G	SOPREMA 1.7 in. Base Sheet Fastener	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0



**TABLE 11E: DECK WITH LIGHTWEIGHT CONCRETE – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
 SYSTEM TYPE E-2: LWC TO DECK, MECHANICALLY ATTACHED SOPRAPHIX, BONDED ROOF COVER**

REFER TO [TABLE VB-3](#) FOR DRY-IN / TEMPORARY ROOF OPTIONS (BETWEEN STRUCTURAL CONCRETE AND LIGHTWEIGHT CONCRETE)

SYSTEM No.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2D)	BASE MEMBRANE			ROOF COVER (3.1.4)			MDP (PSF)
			BASE	FASTENER (4.2.2A)	SPACING	PLY	PRIMER	LARS	
CELCORE (FL2037):									
LWC-15.	Min. 22 ga., type BV, Grade 40 steel 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 Optional Celcore SBS (Sanded Bonding Surface) may be applied.	SOPRAPHIX Base 613	Versa-Fast Fastener & Plate	Versa-Fast Plate spaced 9-inch o.c. within the 5-inch wide, heat-welded side laps. Two (2) min. 2¼" long Versa-Fast Fastener installed 180° into the holes of the Versa-Fast Plate, parallel to the width-direction of the sheet.	(Optional) One or two SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0
LWC-16.	Min. 2,500 psi structural concrete	Treatment: Optional, Celcore S-1. LWC: Celcore MF with Celcore HS Rheology Modifying Admixture, Min. 390 psi, Min. 2-inch top coat. Surfacing: Optional, Celcore SBS (Sanded Bonding Surface).	SOPRAPHIX Base 613	Versa-Fast Fastener & Plate	Versa-Fast Plate spaced 10-inch o.c. within the 5-inch wide, heat-welded side laps. Two (2) min. 2¼" long Versa-Fast Fastener installed 180° into the holes of the Versa-Fast Plate, parallel to the width-direction of the sheet.	(Optional) One or two SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0
LWC-17.	Min. 2,500 psi structural concrete	Treatment: Optional when Dry-In/Temp Roof installed, Celcore S-1. LWC: Celcore MF with Celcore HS Rheology Modifying Admixture, Min. 390 psi, Min. 2-inch top coat. Surfacing: Optional, Celcore SBS (Sanded Bonding Surface).	SOPRAPHIX Base 613	Versa-Fast Fastener & Plate	Versa-Fast Plate spaced 10-inch o.c. within the 5-inch wide, heat-welded side laps. Four (4) min. 2¼" long Versa-Fast Fastener 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.	(Optional) One or two SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0



TABLE 11f: LIGHTWEIGHT INSULATING CONCRETE OVER STEEL DECKS – NEW CONSTRUCTION										
SYSTEM TYPE F: LWC TO DECK, 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	TREATMENT		BASE PLY	PLY	PRIMER	LARS	
CELCORE (FL2037):										
LWC-18.	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft spans; 5/8" puddle welds, 6" o.c.	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, 12-inch o.c.	(Optional) SBS-CA3 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0
LWC-19.	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft spans; 5/8" puddle welds, 6" o.c.	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-CA3 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-90.0

TABLE 11g: LIGHTWEIGHT INSULATING CONCRETE OVER STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION										
SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER										
REFER TO TABLE VB-3 FOR DRY-IN / TEMPORARY ROOF OPTIONS (BETWEEN STRUCTURAL CONCRETE AND LIGHTWEIGHT CONCRETE)										
SYSTEM No.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2d)			PRIMER	ROOF COVER (3.1.4)				MDP (PSF)
		BONDING AGENT	TYPE	TREATMENT		BASE PLY	PLY	PRIMER	LARS	
CELCORE (FL2037):										
LWC-20.	Min. 2,500 psi structural concrete	None	Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture, Min. 300 psi, min. 2-inch thick.	Celcore PVA Curing Compound	(Optional) ASTM D41, Elastocol 500, Elastocol Stick	SBS-CA2, 12-inch o.c.	(Optional) SBS-CA3 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0
LWC-21.	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-CA3 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-180.0
LWC-22.	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-CA3	(Optional) SBS-CA3 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-392.5
LWC-23.	Min. 2,500 psi structural concrete	None	Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture, Min. 300 psi, min. 2-inch thick.	Celcore PVA Curing Compound	ASTM D41, Elastocol 500 or Elastocol Stick	SBS-TAP	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-217.5
LWC-24.	Min. 2,500 psi structural concrete	None	Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture, Min. 300 psi, min. 2-inch thick.	Celcore PVA Curing Compound	ASTM D41, Elastocol 500 or Elastocol Stick	SBS-TAP	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-262.5
LWC-25.	Min. 2,500 psi structural concrete	None	Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture, Min. 300 psi, min. 2-inch thick.	Celcore PVA Curing Compound	None	SBS-TAP	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-307.5
CONCRECEL (FL5584 & FL10500):										
LWC-26.	Min. 2,500 psi structural concrete	Concrecel Bonding Agent	Concrecel Concrete, Min. 300 psi, min. 2-inch thick	Concrecel Curing Comp	(Optional) ASTM D41, Elastocol 500, Elastocol Stick	SBS-CA2, 12-inch o.c.	(Optional) SBS-CA3 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0
LWC-27.	Min. 2,500 psi structural concrete	Concrecel Bonding Agent	Concrecel Concrete, Min. 300 psi, min. 2-inch thick	Concrecel Curing Compound	ASTM D41, Elastocol 500 or Elastocol Stick	SBS-TAP	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-217.5



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TABLE 11g: LIGHTWEIGHT INSULATING CONCRETE OVER STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION
SYSTEM TYPE F: LWC TO DECK, BONDED ROOF COVER

REFER TO [TABLE VB-3](#) FOR DRY-IN / TEMPORARY ROOF OPTIONS (BETWEEN STRUCTURAL CONCRETE AND LIGHTWEIGHT CONCRETE)

SYSTEM NO.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2d)			PRIMER	ROOF COVER (3.1.4)				MDP (PSF)
		BONDING AGENT	TYPE	TREATMENT		BASE PLY	PLY	PRIMER	LARS	
ELASTIZELL (FL4994):										
LWC-28.	Min. 2,500 psi structural concrete	None	Elastizell, Min. 300 psi, min. 2-inch thick.	None	(Optional) ASTM D41, Elastocol 500, Elastocol Stick	SBS-CA2, 12-inch o.c.	(Optional) SBS-CA3 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0
LWC-29.	Min. 2,500 psi structural concrete	None	Elastizell, Min. 300 psi, min. 2-inch thick.	None	ASTM D41, Elastocol 500 or Elastocol Stick	SBS-TAP	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-217.5
PRE-EXISTENT CELLULAR LWC:										
LWC-30.	Min. 2,500 psi structural concrete	None	Cellular lightweight concrete, Min. 330 psi, Min. 2-inch top coat <i>As quality check on the LWIC, a SOPREMA 1.7 in. Base Sheet Fastener shall achieve average withdrawal resistance of 101 lbf when tested per Section 4.4.2a.</i>	None	None	SBS-CA2, 12-inch o.c.	(Optional) SBS-CA3 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-60.0
LWC-31.	Min. 2,500 psi structural concrete	None	Cellular lightweight concrete, Min. 350 psi, Min. 2-inch top coat <i>As quality check on the LWIC, a SOPREMA 1.7 in. Base Sheet Fastener shall achieve average withdrawal resistance of 101 lbf when tested per Section 4.4.2a.</i>	None	None	SBS-CA2, 6-inch o.c.	(Optional) SBS-CA3 or SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-180.0



TABLE 12a: CEMENTITIOUS WOOF FIBER 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

SYSTEM No.	DECK (4.1.2)	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	PLY	PRIMER	LARS	
COLD APPLIED BASE PLY:										
CWF-1.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK, 4-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK	SBS-CA3	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-163.0
CWF-2.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr 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-CA3	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-185.0
CWF-3.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	None	N/A	SBS-CA3	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-185.0
CWF-4.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK, 4-inch o.c.	Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	SBS-CA3	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-190.0
CWF-5.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK, 4-inch o.c.	Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK, 6-inch o.c.	SBS-CA3	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-285.0
CWF-6.	Min. 2-inch Tectum Plank	Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK, 4-inch o.c.	None	N/A	SBS-CA3	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-285.0
CWF-7.	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-CA3	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0
TORCH-APPLIED BASE PLY:										
CWF-8.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK, 4-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-163.0
CWF-9.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr 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-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-185.0
CWF-10.	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-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-185.0
CWF-11.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK, 4-inch o.c.	Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-190.0
CWF-12.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr 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-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-285.0



TABLE 12a: CEMENTITIOUS WOOF FIBER 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

SYSTEM NO.	DECK (4.1.2)	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	PLY	PRIMER	LARS	
CFW-13.	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-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-285.0
CFW-14.	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0
SELF-ADHERING BASE PLY:										
CFW-15.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK, 4-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-163.0
CFW-16.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK, 4-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK, 6-inch o.c.	SBS-SA1	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-185.0
CFW-17.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	None	N/A	SBS-SA1	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-185.0
CFW-18.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK, 4-inch o.c.	Min. 7/16-inch DEXcell Cement Roof Board primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-190.0
CFW-19.	Min. 2-inch Tectum Plank	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK, 4-inch o.c.	Min. 7/16-inch DEXcell Cement Roof Board primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK, 6-inch o.c.	SBS-SA1	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-285.0
CFW-20.	Min. 2-inch Tectum Plank	Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK, 4-inch o.c.	None	N/A	SBS-SA1	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-285.0
CFW-21.	Min. 2-inch Tectum Plank	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or Multi-Max FA3	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with ELASTOCOL Stick, Stick LVOC or Stick Zero	DUOTACK SPF HFO	SBS-SA1	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-75.0



**TABLE 12b: CEMENTITIOUS WOOF FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
 SYSTEM TYPE A-3: BONDED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER**

SYSTEM No.	DECK (4.1.2)	THERMAL BARRIER		PRIMER	VAPOR BARRIER	BASE INSULATION LAYER		TOP INSULATION LAYER		ROOF COVER (3.1.4)				MDP (PSF)
		TYPE	ATTACH (3.1.3)			TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	PRIMER	LARS	
COLD APPLIED BASE PLY:														
CWF-22.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	None	SBS-CA3 or SBS-TAF	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	SBS-CA3	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-163.0
CWF-23.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	Elastocol Stick or Elastocol Stick LVOC or ELASTOC OL Stick Zero	SOPRAVAP' R, self-adhering or SBS-SA1	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	SBS-CA3	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-163.0
CWF-24.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	None	SBS-CA3 or SBS-TAF	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK, 6-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 6-inch o.c.	SBS-CA3	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-185.0
CWF-25.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	Elastocol Stick or Elastocol Stick LVOC or ELASTOC OL Stick Zero	SOPRAVAP' R, self-adhering or SBS-SA1	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK, 6-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 6-inch o.c.	SBS-CA3	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-185.0
TORCH-APPLIED BASE PLY:														
CWF-26.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	None	SBS-CA3 or SBS-TAF	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-163.0
CWF-27.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	Elastocol Stick or Elastocol Stick LVOC or ELASTOC OL Stick Zero	SOPRAVAP' R, self-adhering or SBS-SA1	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK	SBS-TAF	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-163.0



**TABLE 12b: CEMENTITIOUS WOOF FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
 SYSTEM TYPE A-3: BONDED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER**

SYSTEM No.	DECK (4.1.2)	THERMAL BARRIER		PRIMER	VAPOR BARRIER	BASE INSULATION LAYER		TOP INSULATION LAYER		ROOF COVER (3.1.4)				MDP (PSF)
		TYPE	ATTACH (3.1.3)			TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	PRIMER	LARS	
CFW-28.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	None	SBS-CA3 or SBS-TAF	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK, 6-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK, 6-inch o.c.	SBS-TAF	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-185.0
CFW-29.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	SOPRAVAP [®] R, self-adhering or SBS-SA1	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK, 6-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK, 6-inch o.c.	SBS-TAF	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-185.0
SELF-ADHERING BASE PLY:														
CFW-30.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	None	SBS-CA3 or SBS-TAF	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-163.0
CFW-31.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	SOPRAVAP [®] R, self-adhering or SBS-SA1	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK	SBS-SA1	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-163.0
CFW-32.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	None	SBS-CA3 or SBS-TAF	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK, 6-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK, 6-inch o.c.	SBS-SA1	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-185.0



TABLE 12b: CEMENTITIOUS WOOF FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-3: BONDED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER

SYSTEM No.	DECK (4.1.2)	THERMAL BARRIER		PRIMER	VAPOR BARRIER	BASE INSULATION LAYER		TOP INSULATION LAYER		ROOF COVER (3.1.4)				MDP (psf)
		TYPE	ATTACH (3.1.3)			TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	PRIMER	LARS	
CWF-33.	Min. 2-inch Tectum Plank	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	DUOTACK, 4-inch o.c.	Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	SOPRAVAP'R, self-adhering or SBS-SA1	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr or SOPRA-ISO+r	DUOTACK, 6-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board or Min. 7/16-inch DEXcell Cement Roof Board. Top surface primed with Elastocol Stick or Elastocol Stick LVOC or ELASTOCOL Stick Zero	DUOTACK, 6-inch o.c.	SBS-SA1	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-185.0

TABLE 13A: GYPSUM DECKS – 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	PLY	PRIMER	LARS	
TORCHED BASE PLY:										
G-1	Existing gypsum deck	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r or Multi-Max FA3	DUOTACK	SOPRASMART XP HD 180 (for TA Base Ply) or SOPRASMART XP HD 180 Sanded (for no Base Ply)	DUOTACK	(Optional) SBS-TAP, SBS-TAF	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-52.5
G-2	Existing gypsum deck	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r or Multi-Max FA3	DUOTACK	Min. 0.125-inch SOPRABOARD	DUOTACK	SBS-TAP, SBS-TAF	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-155.0
G-3	Existing gypsum deck	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r or Multi-Max FA3	DUOTACK	SOPRASMART Board 180 or SOPRASMART ISO HD 180 (for TA Base Ply) or SOPRASMART Board 180 Sanded or SOPRASMART ISO HD 180 Sanded (for no Base Ply)	DUOTACK	(Optional) SBS-TAP, SBS-TAF	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-162.5
G-4	Existing gypsum deck	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r or Multi-Max FA3	DUOTACK	Min. 0.25-inch DensDeck	DUOTACK	SBS-TAF	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-162.5
G-5	Existing gypsum deck	(Optional) Min. 2-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r or Multi-Max FA3	DUOTACK	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK	SBS-TAP, SBS-TAF	(Optional) SBS-CA3, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-162.5
G-6	Existing gypsum deck	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	None	N/A	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-245.0
G-7	Existing gypsum deck	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or Min. 7/16-inch DEXcell Cement Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-245.0



TABLE 14a: 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, coverboard and roof cover when adhered to the substrate, irrespective of the deck type or performance of the substrate. 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		ROOF COVER (3.1.4)			MDP (PSF)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PRIMER	LARS	
TORCH APPLIED BASE PLY:									
R-1	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r or Multi-Max FA3	DUOTACK	Min. 0.125-inch SOPRABOARD	DUOTACK	SBS-TAP, SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-150.0
R-2	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r or Multi-Max FA3	DUOTACK	SOPRASMART Board 180 or SOPRASMART ISO HD 180 (for TA Base Ply) or SOPRASMART Board 180 Sanded or SOPRASMART ISO HD 180 Sanded (for no Base Ply)	DUOTACK	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-150.0
R-3	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r or Multi-Max FA3	DUOTACK	Min. 0.25-inch DensDeck	DUOTACK	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-150.0
R-4	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r or Multi-Max FA3	DUOTACK	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK	SBS-TAP	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-150.0
R-5	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r or Multi-Max FA3	DUOTACK	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-195.0
R-6	Smooth-surface SBS modified bitumen	Min. 2-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, 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) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-260.0
R-7	Smooth-surface SBS modified bitumen	Min. 2-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOr, SOPRA-ISO+r or Multi-Max FA3	DUOTACK	SOPRASMART Board 180 or SOPRASMART ISO HD 180 (for TA Base Ply) or SOPRASMART Board 180 Sanded or SOPRASMART ISO HD 180 Sanded (for no Base Ply)	DUOTACK	(Optional) SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-260.0
R-8	Existing sand-surface SBS modified bitumen	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-222.5
R-9	Existing granule-surfaced modified bitumen or smooth-surface asphaltic built-up roof	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	None	N/A	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-245.0
R-10	Existing smooth-surface asphaltic built-up roof	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOr, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-262.5



TABLE 14a: 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, coverboard and roof cover when adhered to the substrate, irrespective of the deck type or performance of the substrate. 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		ROOF COVER (3.1.4)			MDP (PSF)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PRIMER	LARS	
R-11	Existing granule-surfaced modified bitumen	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOR, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	DUOTACK SPF HFO	SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-270.0
SELF-ADHERING BASE PLY:									
R-12	Smooth- or granule-surface modified bitumen or BUR	Min. 1.4-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOR, SOPRA-ISO+r or Multi-Max FA3	DUOTACK	(Optional) Additional layers of base insulation	DUOTACK	SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-150.0
R-13	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOR, SOPRA-ISO+r or Multi-Max FA3	DUOTACK	Min. 0.125-inch SOPRABOARD	DUOTACK	SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-150.0
R-14	Smooth- or granule-surface modified bitumen or BUR	(Optional) Min. 2-inch SOPRA-ISOs, SOPRA-ISO+s, EnergyGuard POLYSIO Insulation, ENRGY 3, ENRGY 3 CGF, SOPRA-ISOR, SOPRA-ISO+r or Multi-Max FA3	DUOTACK	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	DUOTACK	SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-150.0
R-15	Existing sand-surface SBS modified bitumen	(Optional) Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOR, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface primed with ELASTOCOL Stick, Stick LVOC or Stick Zero	DUOTACK SPF HFO	SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-222.5
R-16	Existing granule-surfaced modified bitumen or smooth-surface asphaltic built-up roof	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface primed with ELASTOCOL Stick, Stick LVOC or Stick Zero	DUOTACK SPF HFO	None	N/A	SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-245.0
R-17	Existing smooth-surface asphaltic built-up roof	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOR, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface primed with ELASTOCOL Stick, Stick LVOC or Stick Zero	DUOTACK SPF HFO	SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-262.5
R-18	Existing granule-surfaced modified bitumen	Min. 1.5-inch SOPRA-ISOs, SOPRA-ISO+s, SOPRA-ISOR, SOPRA-ISO+r, Multi-Max FA3 or Ultra-Max	DUOTACK SPF HFO	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface primed with ELASTOCOL Stick, Stick LVOC or Stick Zero	DUOTACK SPF HFO	SBS-SA1	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-270.0



TABLE 14b: RE-ROOF (TEAR-OFF) OR RECOVER APPLICATIONS								
SYSTEM TYPE E-2: MECHANICALLY ATTACHED SOPRAPHIX, BONDED ROOF COVER								
SYSTEM No.	SUBSTRATE (4.1.2, 4.2.2)	BASE MEMBRANE			ROOF COVER (3.1.4)			MDP (psf)
		TYPE	FASTENER (4.2.2A)	SPACING	PLY	PRIMER	LARS	
R-19	Pre-existent min. 300 psi cellular lightweight insulating concrete over steel or structural concrete deck or poured gypsum or gypsum plank	SOPRAPHIX Base 613	Versa-Fast Fastener & Plate to engage existing substrate (Field W/D ≥ 193 lbf)	Versa-Fast Plate spaced 9-inch o.c. within the 5-inch wide, heat-welded side laps. Minimum two (2) Versa-Fast Fastener installed 180° into the holes of the Versa-Fast Plate, parallel to the width-direction of the sheet	(Optional) One or two SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-45.0
R-20	Pre-existent min. 360 psi aggregate or min. 320 psi cellular lightweight insulating concrete over structural concrete deck or poured gypsum or gypsum plank	SOPRAPHIX Base 613	Versa-Fast Fastener & Plate to engage existing substrate (Field W/D ≥ 226 lbf)	Versa-Fast Plate spaced 9-inch o.c. within the 5-inch wide, heat-welded side laps. Minimum three (3) Versa-Fast Fastener installed parallel to the width direction of the sheet into the holes of the Versa-Fast Plate	(Optional) One or two SBS-TAF	(Optional) RS 222	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-52.5

TABLE 14c: 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 adhered to the substrate, irrespective of the deck type or performance of the substrate. 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)	TREATMENT	ROOF COVER (3.1.4)	MDP (psf)
R-21	Existing granule surfaced SBS modified bitumen roof cover	Remove loose granules	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-217.5
R-22	Existing fully-adhered, PVC single ply roof cover	Clean with ALSAN RS Cleaner	ALSAN RS 230, ALSAN Trafik RS 730 or ALSAN RS 260 LO system	-217.5