

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
1A	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	4
1B	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	5
1C	Steel or Structural Concrete	New, Reroof (Tear-Off)	C-1a	Bonded & Mechanically Attached Insulation, Bonded Roof Cover	5
1D	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	6
1E	Steel or Structural Concrete	New, Reroof (Tear-Off)	D-2a	Insulated, Bonded & Mechanically Attached Base Sheet, Bonded Roof Cover	7
2A	Structural Concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	8
2B	Structural Concrete	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	8
3A	Lightweight Concrete	New or Reroof (Tear-Off)	A-1	Bonded Anchor Sheet, Bonded Insulation, Bonded Roof Cover	9
3B	Lightweight Concrete	New, Reroof (Tear-Off)	A-2a	Bonded & Mechanically Attach Anchor Sheet, Bonded Insulation, Bonded Roof Cover	9
3C	Lightweight Concrete	New, Reroof (Tear-Off)	E-2	Mechanically Attached Base Sheet, Bonded Roof Cover	9
3D	Lightweight Concrete	New, Reroof (Tear-Off)	E-2a	Bonded & Mechanically Attached Base Sheet, Bonded Roof Cover	10
3E	Lightweight Concrete	New, Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	10
4A	Cementitious Wood Fiber	Reroof (Tear-Off)	A-1	Bonded Anchor Sheet, Bonded Insulation, Bonded Roof Cover	11
4B	Cementitious Wood Fiber	Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	11
4C	Cementitious Wood Fiber	Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	11
4D	Cementitious Wood Fiber	Reroof (Tear-Off)	F	Non-insulated, Bonded Roof Cover	11
5A	Gypsum	Reroof (Tear-Off)	A-1a	Bonded Anchor Sheet, Bonded Insulation, Bonded Roof Cover	12
5B	Gypsum	Reroof (Tear-Off)	E-2	Mechanically Attached Base Sheet, Bonded Roof Cover	12
5C	Gypsum	Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	12
6A	Various	Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	13
6B	Various	Recover	D-2	Insulated, Bonded & Mechanically Attached Base Sheet, Bonded Roof Cover	13
6C	Various	Recover	D-2a	Insulated, Bonded & Mechanically Attached Base Sheet, Bonded Roof Cover	13

The following notes apply to the systems outlined herein:

- 1 The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 2 Unless otherwise noted, fasteners and stress plates shall be as follows. Fasteners shall be of sufficient length for the following engagements:

FASTENER/PLATE OPTIONS				
DECK TYPE	By	FBC	PARTS	MINIMUM ENGAGEMENT
Steel	Altenloh, Brinck and Co. U.S., Inc.	FL4500	Trufast #14 HD or #15 EHD with Trufast 3" Metal Insulation Plate	Minimum ¾-inch steel penetration and engage the top flute of the steel deck
	OMG, Inc.	FL699	OMG #14 Heavy Duty, #14 Roofgrip or XHD with OMG 3 in. Ribbed Galvalume Steel Plate	
Structural Concrete	OMG, Inc.	FL699	OMG #14 Heavy Duty or CD-10 with OMG 3 in. Galvalume Steel Plate	Minimum 1-inch embedment. Fastener installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions

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

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[TOP OF APPENDIX](#)

PEER-SIM-001.A.R9 for FL14426-R8 (NON-HVHZ)

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

INSULATION ADHESIVE REFERENCES				
By	FBC	ADHESIVE	REFERENCE	MINIMUM RATE
SR Products	FL14381	SR Insulation Adhesive	SR-IA	Continuous 1-inch wide ribbons, 6-inch o.c.
		SuperiorFlex Seal Max	SF-SM	Continuous 1-inch wide ribbons, 6-inch o.c.
Generic, ASTM D312, Type IV	N/A	hot asphalt	N/A	Full coverage at 25-30 lbs/square

- 7 Unless otherwise noted, all insulations are flat-stock or taper board of the minimum thickness noted.
- 8 For adhered roof insulation and board-size: Unless otherwise noted, refer to Section 2.2.10.6.2 of [FM Loss Prevention Data Sheet 1-29](#).
- 9 For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with FBC Chapter 16. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are [ANSI/SPRI WD1](#), [FM Loss Prevention Data Sheet 1-29](#), [Roofing Application Standard](#) RAS 117 or RAS 137. Assemblies marked with an asterisk* carry the limitations set forth in Section 2.2.10.1 of [FM Loss Prevention Data Sheet 1-29](#) for Zone 2/3 enhancements.
- 10 For assemblies with all components fully bonded, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16. No rational analysis is permitted for these systems.
- 11 For mechanically attached components over existing decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with [ANSI/SPRI FX-1](#) or [Testing Application Standard](#) TAS 105. For systems using Trufast Versa-Fast, the number of Versa-Fast Fasteners installed through the Versa-Fast Plate may be increased from the minimum noted in order to yield minimum required withdrawal resistance.
- 12 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing shall be conducted on mock-ups of the proposed new roof assembly. For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing. Field uplift testing shall be in accordance with ASTM E907, [FM Loss Prevention Data Sheet 1-52](#) or [Testing Application Standard](#) TAS 124.
- 13 Refer to FBC 1511 for requirements and limitations regarding recover installations. For Structural Concrete Deck or Recover Applications using System Type C-1 the base insulation layer is optional and for System Type C-2, D-1 or D-2, the insulation is optional. Alternatively, an FBC Approved insulation board or coverboard may be used as a separation layer. Board products shall be preliminarily attached prior to roof cover installation ([Note 5](#)). The separator component shall be documented as meeting FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover in Recover applications.
- 14 Lightweight insulating concrete (LWIC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWIC is referenced, refer to current LWIC Product Approval for specific deck construction and limitations. Unless otherwise noted, for systems where specific LWIC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWIC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1. For "pre-existent" LWIC references, listings were established through testing over lightweight concrete cast using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Use of these listings in new construction or re-roof (tear-off) applications is at the discretion of the Designer or Record and Authority Having Jurisdiction.

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

MEMBRANE / ADHESIVE COMBINATIONS							
SYSTEM NO.	BASE PLY		PLY		CAP PLY		SURFACING
	TYPE	ATTACH	TYPE	ATTACH	TYPE	ATTACH	
1	SR SuperiorPly	SuperiorFlex Seal Plus at 2.0 to 2.5 gal/sq	One or two, SR SuperiorPly	SuperiorFlex Seal Plus at 2.0 to 2.5 gal/sq/ply	None	N/A	Note 15A
2	SR SuperiorPly Ultra	SuperiorFlex Seal Plus at 2.0 to 2.5 gal/sq	One or two, SR SuperiorPly Ultra	SuperiorFlex Seal Plus at 2.0 to 2.5 gal/sq/ply	None	N/A	Note 15A
3	SR SuperiorPly	SuperiorFlex Seal Max at 2.0 to 2.5 gal/sq	One or two, SR SuperiorPly	SuperiorFlex Seal Max at 2.0 to 2.5 gal/sq/ply	None	N/A	Note 15A
4	SR SuperiorPly Ultra	SuperiorFlex Seal Max at 2.0 to 2.5 gal/sq	One or two, SR SuperiorPly Ultra	SuperiorFlex Seal Max at 2.0 to 2.5 gal/sq/ply	None	N/A	Note 15A
5	SR SuperiorPly	SuperiorFlex Seal MG Plus at 2.0 to 2.5 gal/sq	One or two, SR SuperiorPly	SuperiorFlex Seal MG Plus at 2.0 to 2.5 gal/sq/ply	None	N/A	Note 15A
6	SR Glass IV, SRM Glass 4, SR Glass VI or SRM Glass 6	Hot asphalt at 25 lbs/sq.	Two or three, SR Glass IV, SRM Glass 4, SR Glass VI or SRM Glass 6	Hot asphalt at 25 lbs/sq.	None	N/A	Flood coat of hot asphalt at 60 lbs/sq and gravel at 400 lbs/sq. <i>Note: Limitations set forth in FBC Section 1504.8 shall apply</i>
7	SR Glass Base Felt, SRM Glass Base Felt or SR Glass Base MD	Hot asphalt at 25 lbs/sq.	Two or three, SR Glass IV, SRM Glass 4, SR Glass VI or SRM Glass 6	Hot asphalt at 25 lbs/sq.	None	N/A	Flood coat of hot asphalt at 60 lbs/sq and gravel at 400 lbs/sq. <i>Note: Limitations set forth in FBC Section 1504.8 shall apply</i>
8	SR Glass IV, SRM Glass 4, SR Glass VI or SRM Glass 6	Coal tar pitch at 25 lbs/sq.	Two or three, SR Glass IV, SRM Glass 4, SR Glass VI or SRM Glass 6	Coal tar pitch at 25 lbs/sq.	None	N/A	Flood coat of coal tar pitch at 70 lbs/sq and gravel at 400 lbs/sq. <i>Note: Limitations set forth in FBC Section 1504.8 shall apply</i>
9	SR Glass Base Felt, SRM Glass Base Felt or SR Glass Base MD	Coal tar pitch at 25 lbs/sq.	Two or three, SR Glass IV, SRM Glass 4, SR Glass VI or SRM Glass 6	Coal tar pitch at 25 lbs/sq.	None	N/A	Flood coat of coal tar pitch at 70 lbs/sq and gravel at 400 lbs/sq. <i>Note: Limitations set forth in FBC Section 1504.8 shall apply</i>
10	SR Superior Ply Ultra	SuperiorFlex Gold MB at 2.5 gal/sq	One or two, SR SuperiorPly Ultra	SuperiorFlex Gold MB at 2.5 gal/sq/ply	None	N/A	Note 15A
11A	(Optional) SR SuperiorPly SAM II	Self-adhered & 1-inch wide ribbons SuperiorFlex Seal Max applied 12-inch or 6-inch o.c. <i>(see listings for spacing)</i>	(Optional) SR SuperiorPly SAM II	Self-adhered & 1-inch wide ribbons SuperiorFlex Seal Max applied 6-inch o.c.	SR SuperiorPly SAM II	Self-adhered & 1-inch wide ribbons SuperiorFlex Seal Max applied 6-inch o.c.	Note 15A
11B	SR SuperiorPly SAM II	Self-adhered & 1-inch wide ribbons SuperiorFlex Seal Max applied 12-inch or 6-inch o.c. <i>(see listings for spacing)</i>	(Optional) One or two, SR SuperiorPly SAM II	Self-adhered & 1-inch wide ribbons SuperiorFlex Seal Max applied 6-inch o.c.	Soprema “Sopralene 180 FR GR”	Self-adhered & 1-inch wide ribbons SuperiorFlex Seal Max applied 6-inch o.c.	None
12A	SR SuperiorPly SAP II	Self-adhered & 1-inch wide ribbons SuperiorFlex Seal Max applied 12-inch or 6-inch o.c. <i>(see listings for spacing)</i>	(Optional) SR SuperiorPly SAP II	Self-adhered	SR SuperiorPly SAM II	Self-adhered	Note 15A

MEMBRANE / ADHESIVE COMBINATIONS							
SYSTEM NO.	BASE PLY		PLY		CAP PLY		SURFACING
	TYPE	ATTACH	TYPE	ATTACH	TYPE	ATTACH	
12B	SR SuperiorPly SAP II	Self-adhered & 1-inch wide ribbons SuperiorFlex Seal Max applied 12-inch or 6-inch o.c. (see listings for spacing)	SR SuperiorPly SAM II	Self-adhered	Soprema "Sopralene 180 FR GR"	Self-adhered & 1-inch wide ribbons SuperiorFlex Seal Max applied 6-inch o.c.	None

- 15A Systems shall be surfaced in accordance with SR Products requirements to meet the fire resistance requirements of FBC 1505.1. The selected surfacing shall hold current Florida Product Approval, and be listed as approved for use over the intended substrate.
- 16 "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609 for determination of design wind loads. [\(Notes 9 and 10\)](#)

TABLE 1A: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER								
System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
S-1	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0-inch ACFoam II	Note 2	1 per 5.3 ft ²	Min. 0.5-inch min. 0.75-inch Fesco Board (homogeneous)	Coal tar pitch at 25 lbs/square	System 8 or 9	-30.0*
S-2	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II, ISO 95+ GL or Multi-Max FA3	Note 2	1 per 2.0 ft ²	Min. 0.5-inch min. 0.75-inch FescoBoard (homogeneous)	Hot asphalt	System 6 or 7	-45.0*
S-3	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISO 95+ GL	Note 2	1 per 3.2 ft ²	Min. 0.5-inch min. 0.75-inch FescoBoard (homogeneous) or min. 0.25-inch DensDeck	Hot asphalt	System 6 or 7	-45.0*
S-4	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ISO 95+ GL	Note 2	1 per 4.0 ft ²	Min. 0.5-inch min. 0.75-inch FescoBoard (homogeneous) or min. 0.25-inch DensDeck	Hot asphalt	System 6 or 7	-45.0*
S-5	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II	Note 2	1 per 4.0 ft ²	Min. 0.5-inch min. 0.75-inch Fesco Board (homogeneous)	Coal tar pitch at 25 lbs/square	System 8 or 9	-45.0*

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

System No.	Deck (Note 1)	Base Insulation Layer(s) (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasteners (Note 11)	Attach		
S-6	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 AC Foam Composite/PB, ISO 95+ Composite, Thermaroom Composite-3 or Fesco Foam	Note 2	1 per 2.0 ft ²	System 6 or 7	-45.0*
S-7	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch AC Foam Composite/PB	Note 2	1 per 4.0 ft ²	System 8 or 9	-45.0*
S-8	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 AC Foam II	Note 2	1 per 2.0 ft ²	System 11A (12-inch o.c.)	-45.0*
S-9	Min. 22 ga., type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 2-inch AC Foam II	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plates	1 per 2.0 ft ²	System 11A (6-inch o.c.)	-52.5
S-10	Min. 22 ga., type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 2-inch AC Foam II	Note 2	1 per 2.0 ft ²	System 11A (6-inch o.c.)	-60.0
S-11	Min. 22 ga., type B, Grade 33 steel	1-inch AC Foam II, Roxul Monoboard Plus or Roxul Monoboard (unfaced), loose laid	Min. 1.5-inch AC Foam II	Note 2	1 per 2.0 ft ²	System 11A (6-inch o.c.)	-60.0
S-12	Min. 22 ga., type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 2-inch AC Foam II	Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plates	1 per 2.0 ft ²	System 11A, 11B, 12A or 12B (6-inch o.c.)	-67.5
S-13	Min. 22 ga., type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 2-inch AC Foam II	Trufast #14 HD with Trufast 3" Metal Insulation Plates	1 per 1.3 ft ²	System 11A, 11B, 12A or 12B (6-inch o.c.)	-127.5

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

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer				Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Adhesive (Notes 6,7,8)	Fasteners			
						Type (Note 11)	Attach		
S-14	Min. 22 ga., type B, Grade 40 steel at max. 5 ft spans or min. 2,500 psi structural concrete	Min. 1.5-inch H-Shield	SuperiorFlex Seal Max, 1-inch ribbons, 6-inch o.c.	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	None	OMG EHD #15 screw with OMG 3 in. Galvalume Plate	1 per 2.9 ft²	System 3	-45.0
S-15	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II	SuperiorFlex Seal Max, 1-inch ribbons, 6-inch o.c.	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	SuperiorFlex Seal Max, 1-inch ribbons, 6-inch o.c.	Note 2	1 per 2.9 ft²	System 5	-75.0
S-16	Min. 22 ga., type B, Grade 33 steel	None	N/A	Min. 2-inch ACFoam II	SR-1A, 1-inch ribbons, 12-inch o.c.	Trufast #12 DP or #14 HD with Trufast 3” Metal Insulation Plates	1 per 2.0 ft²	System 11A, 11B, 12A or 12B (6-inch o.c.)	-67.5

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

System No.	Deck (Note 1)	Insulation Layer(s) (Note 13)		Base or Anchor Sheet			Roof Cover (Note 15)	MDP (psf)
		Type	Attach	Base	Fasteners (Note 11)	Attach		
S-17	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	1 to 3-inch AC Foam II	Prelim. attached	SR SuperiorPly SAP II (with bottom release film left in place, except at lap)	Trufast #14 HD or #15 EHD with Trufast 2" Barbed Metal Seam Plates or OMG #14 HD, #14 Roofgrip or XHD with OMG 2 in. Barbed Plates	12-inch o.c. in the 3-inch laps	One ply SR SuperiorPly SAM II installed staggered one-half-width and self-adhered followed by surfacing	-45.0*
S-18	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	Loose laid	SR SuperiorPly Ultra	Note 2	7.5-inch o.c. at 3-inch laps and 7.5-inch o.c. in two, equally spaced, staggered center rows	System 5	-67.5
S-19	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	Prelim. attached	SR SuperiorPly Ultra	Trufast #12 DP (steel only) or #14 HD with Trufast 3" Metal Insulation Plates	12-inch o.c. at the 4-inch laps and 18-inch o.c. in the center of the sheet	One or two plies SR SuperiorPly Ultra applied in SuperiorFlex Seal Max at 2.5 gal/square	-90.0
S-20	Min. 22 ga., type B, Grade 80 steel	Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board, loose laid; followed by min. 2-inch AC Foam II	SR-IA, 6-inch o.c.	SR SuperiorPly Ultra, 4-inch laps sealed with SuperiorFlex Seal Max	OMG XHD with OMG Plastic Insulation Plates	12-inch o.c. at the 4-inch laps and 12-inch o.c. in the center of the sheet	System 4	-127.5

TABLE 1E: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE D-2A: INSULATED, BONDED & MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (Note 1)	Insulation		Coverboard		Base Sheet				Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach	Type	Adhesive (Notes 6,7,8)	Fasteners (Note 11)			
								Type	Spacing		
S-21	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II	SuperiorFlex Seal Max, 1-inch ribbons, 6-inch o.c.	None	N/A	SR SuperiorPly Ultra	SuperiorFlex Seal Max, 1-inch ribbons, 6-inch o.c.	Note 2	18-inch o.c. over the laps and 18-inch o.c. in the center of the sheet	System 5	-52.5
S-22	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II	SuperiorFlex Seal Max, 1-inch ribbons, 6-inch o.c.	None	N/A	SR SuperiorPly Ultra	SuperiorFlex Seal Max, 1-inch ribbons, 6-inch o.c.	Note 2	18-inch o.c. over the laps and 18-inch o.c. in the center of the sheet	System 4	-82.5
S-23	Min. 20 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ACFoam II	SuperiorFlex Seal Max, 1-inch ribbons, 6-inch o.c.	Min. 1.5-inch ACFoam II	SuperiorFlex Seal Max, 1-inch ribbons, 6-inch o.c.	SR SuperiorPly Ultra	SuperiorFlex Seal Max at 2.0 to 2.5 gal/square	Note 2	16-inch o.c. over the laps and 16-inch o.c. in two, equally spaced, staggered center rows	System 4	-97.5
S-24	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 0.5-inch SECUROCK Gypsym-Fiber Roof Board	Loose laid	Min. 2.0-inch ACFoam II	SR-IA @ 6-inch o.c.	SR SuperiorPly Ultra	SuperiorFlex Seal Max at 2.0 to 2.5 gal/square	OMG #15 XHD screws with OMG Plastic Insulation Plates	12-inch o.c. over the laps and 12-inch o.c. in the center of the sheet	System 4	-127.5

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

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
C-1.	Min. 2,500 psi structural concrete	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	SR-IA @ 6-inch o.c.	None	N/A	System 10	-30.0
C-2.	Min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard Polyiso or ACFoam II	SR-IA @ 6-inch o.c.	None	N/A	System 10	-30.0
C-3.	Min. 2,500 psi structural concrete; ASTM D41 primed	Min. 1.5-inch ACFoam II, ISO 95+ GL or Multi-Max FA3	Coal tar pitch at 25 lbs/square	Min. 0.5-inch min. 0.75-inch Fesco Board (homogeneous)	Coal tar pitch at 25 lbs/square	System 8 or 9	-45.0
C-4.	Min. 2,500 psi structural concrete; ASTM D41 primed	Min. 1.5-inch ACFoam II, ISO 95+ GL or Multi-Max FA3	Hot asphalt	Min. 0.5-inch min. 0.75-inch Fesco Board (homogeneous)	Hot asphalt	System 6 or 7	-90.0
C-5.	Min. 2,500 psi structural concrete	Min. 2-inch ACFoam II	SF-SM or SR-IA @ 6-inch o.c.	None	N/A	System 11A (6-inch o.c.)	-210.0
C-6.	Min. 2,500 psi structural concrete	Min. 2-inch ACFoam II	SR-IA @ 6-inch o.c.	None	N/A	System 11A or 12A (6-inch o.c.)	-247.5
C-7.	Min. 2,500 psi structural concrete	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	SR-IA @ 6-inch o.c.	None	N/A	System 4	-277.5
C-8.	Min. 2,500 psi structural concrete	Min. 2-inch EnergyGuard Polyiso	SR-IA @ 6-inch o.c.	None	N/A	System 4	-290.0
C-9.	Min. 2,500 psi structural concrete	Min. 2-inch ACFoam II	SR-IA @ 6-inch o.c.	None	N/A	System 4	-390.0
C-10.	Min. 2,500 psi structural concrete	Min. 2-inch ACFoam II	SR-IA @ 6-inch o.c.	None	N/A	System 11B or 12B	-432.5
C-11.	Min. 2,500 psi structural concrete	Min. 2-inch ACFoam II	SR-IA @ 3-inch o.c.	None	N/A	System 4	-467.5

TABLE 2B: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER

System No.	Deck F	Roof Cover (Note 15)	MDP (psf)
C-12.	Min. 2,500 psi structural concrete	System 10	-30.0
C-13.	Min. 2,500 psi structural concrete; ASTM D41 primed	System 6 or 7	-90.0
C-14.	Min. 2,500 psi structural concrete	System 3	-370.0
C-15.	Min. 2,500 psi structural concrete	System 4	-502.5

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

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Anchor Sheet		Insulation		Roof Cover (Note 15)	MDP (psf)
			Type	Adhesive (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
CELCORE (FL2037)								
LWC-1	Min. 22 ga., type B, Grade 33 vented steel at max. 5 ft spans or min. 2,500 psi structural concrete.	Min. 300 psi, min 2-inch thick Celcore Cellular Concrete.	SR SuperiorPly Ultra	SuperiorFlex Seal Max at 2.0 to 2.5 gal/square	Min. 2-inch ACFoam II	SR-IA @ 6-inch o.c.	System 10	-30.0
LWC-2	Min. 22 ga., type B, Grade 33 vented steel at max. 5 ft spans or min. 2,500 psi structural concrete.	Min. 300 psi, min 2-inch thick Celcore Cellular Concrete.	SR SuperiorPly Ultra	SuperiorFlex Seal Max at 2.0 to 2.5 gal/square	Min. 2-inch ACFoam II	SR-IA @ 6-inch o.c.	System 4	-67.5

TABLE 3B: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2a: BONDED & MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Anchor Sheet				Insulation		Roof Cover (Note 15)	MDP (psf)
			Type	Adhesive	Fasteners (Note 11)		Type	Attach (Notes 6,7,8)		
					Type	Attach				
CONCRECEL (FL5584 OR FL10500)										
LWC-3	Min. 22 ga., type B, Grade 33 vented steel at max. 5 ft spans or min. 2,500 psi structural concrete.	Min. 300 psi, min 2-inch thick Concrecel Concrete.	SR SuperiorPly Ultra	SuperiorFlex Seal Max at 2.0 to 2.5 gal/square	OMG OlyLok (1.8-inch long)	18-inch o.c. at 3-inch laps and 18-inch o.c. at one center row.	Min. 2-inch EnergyGuard Polyiso	SR-IA full coverage at 1.0 to 1.5 gal/square	System 3	-67.5

TABLE 3C: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Sheet			Roof Cover (Note 15)	MDP (psf)
			Type	Fasteners (Note 11)	Attach		
CONCRECEL (FL5584 OR FL10500)							
LWC-4	Min. 22 ga., type B, Grade 40 vented steel at max. 5 ft spans or min. 2,500 psi structural concrete.	Min. 300 psi, min 2-inch thick Concrecel Concrete.	SR SuperiorPly Ultra	OMG OlyLok (1.8-inch long)	4-inch o.c. at 3-inch laps and 6-inch o.c. at two, equally spaced, staggered center rows	System 10	-30.0
LWC-5	Min. 22 ga., type B, Grade 40 vented steel at max. 5 ft spans or min. 2,500 psi structural concrete.	Min. 300 psi, min 2-inch thick Concrecel Concrete.	SR SuperiorPly Ultra	OMG OlyLok (1.8-inch long)	4-inch o.c. at 3-inch laps and 6-inch o.c. at two, equally spaced, staggered center rows	System 2	-52.5
LWC-6	Min. 22 ga., type B, Grade 40 vented steel at max. 5 ft spans or min. 2,500 psi structural concrete.	Min. 300 psi, min 2-inch thick Concrecel Concrete.	SR SuperiorPly Ultra	OMG OlyLok (1.8-inch long)	4-inch o.c. at 3-inch laps and 6-inch o.c. at two, equally spaced, staggered center rows	System 5	-67.5

TABLE 3D: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2A: BONDED & MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Sheet				Roof Cover (Note 15)	MDP (psf)
			Type	Adhesive	Fasteners (Note 11)			
					Type	Attach		
CONCRECEL (FL5584 OR FL10500)								
LWC-7	Min. 22 ga., type B, Grade 33 vented steel at max. 5 ft spans or min. 2,500 psi structural concrete.	Min. 300 psi, min 2-inch thick Concrecel Concrete.	SR SuperiorPly Ultra	SuperiorFlex Seal Max, 1-inch ribbons, 6-inch o.c.	OMG OlyLok (1.8-inch long)	12-inch o.c. at 3-inch laps and 18-inch o.c. at one center row. Fastener rows shall be positioned atop underlying adhesive ribbons.	System 3	-60.0
LWC-8	Min. 22 ga., type B, Grade 33 vented steel at max. 5 ft spans or min. 2,500 psi structural concrete.	Min. 300 psi, min 2-inch thick Concrecel Concrete.	SR SuperiorPly Ultra	SuperiorFlex Seal Max, 1-inch ribbons, 6-inch o.c.	OMG OlyLok (1.8-inch long)	18-inch o.c. at 3-inch laps and 18-inch o.c. at one center row.	System 5	-67.5
LWC-9	Min. 22 ga., type B, Grade 33 vented steel at max. 5 ft spans or min. 2,500 psi structural concrete.	Min. 300 psi, min 2-inch thick Concrecel Concrete.	SR SuperiorPly Ultra	SuperiorFlex Seal Max at 2.0 to 2.5 gal/square	OMG OlyLok (1.8-inch long)	18-inch o.c. at 3-inch laps and 18-inch o.c. at one center row.	System 3	-105.0

TABLE 3E: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE F: BONDED ROOF COVER

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)		Roof Cover (Note 15)	MDP (psf)
		Type	Treatment		
CELCORE (FL2037)					
LWC-10	Min. 22 ga., type B, Grade 33 vented or non-vented steel at max. 4 ft spans or min. 2,500 psi structural concrete.	Min. 350 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound at 0.33 gal/square	System 10	-30.0
LWC-11	Min. 22 ga., type B, Grade 33 vented or non-vented steel at max. 4 ft spans or min. 2,500 psi structural concrete.	Min. 350 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound at 0.33 gal/square	System 4	-105.0

TABLE 4A: CEMENTITIOUS WOOD FIBER DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1 & Note 12)	Anchor Sheet		Insulation		Roof Cover (Note 15)	MDP (psf)
		Type	Adhesive	Type	Attach (Notes 6,7,8)		
CWF-1.	Existing min. 2-inch Tectum	SR SuperiorPly Ultra	SuperiorFlex Seal Max at 2.0 to 2.5 gal/square	Min. 2-inch EnergyGuard Polyiso	SR-IA @ 6-inch o.c.	System 10	-30.0
CWF-2.	Existing min. 2-inch Tectum	SR SuperiorPly Ultra	SuperiorFlex Seal Max at 2.0 to 2.5 gal/square	Min. 2-inch EnergyGuard Polyiso	SR-IA @ 6-inch o.c.	System 4	-135.0

TABLE 4B: CEMENTITIOUS WOOD FIBER DECKS – REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)		
CWF-3.	Existing min. 2-inch Tectum	Min. 1.3-inch ACFoam II	OMG Polymer Gyptec with Polymer Gyptec Metal Plate	1 per 4.0 ft²	Min. 0.5-inch min. 0.75-inch Fesco Board (homogeneous)	Coal tar pitch at 25 lbs/square	System 8 or 9	-45.0*

TABLE 4C: CEMENTITIOUS WOOD FIBER DECKS – REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Insulation Layer(s) (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasteners (Note 11)	Attach		
CWF-4.	Existing min. 2-inch Tectum	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam Composite/PB or Min. 2-inch ACFoam Composite/FB	OMG Polymer Gyptec with Polymer Gyptec Metal Plates	1 per 4.0 ft²	System 6, 7, 8 or 9	-30.0*
CWF-5.	Existing min. 2-inch Tectum	(Optional) One or more layers, any combination, loose laid	Min. 0.75-inch FescoBoard	OMG Polymer Gyptec with Polymer Gyptec Metal Plates	1 per 2.7 ft²	System 6, 7, 8 or 9	-30.0*
CWF-6.	Existing min. 2-inch Tectum	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam Composite/PB or Min. 2-inch ACFoam Composite/FB	OMG Polymer Gyptec with Polymer Gyptec Metal Plates	1 per 3.2 ft²	System 6, 7, 8 or 9	-45.0*
CWF-7.	Existing min. 2-inch Tectum	(Optional) One or more layers, any combination, loose laid	Min. 0.75-inch FescoBoard	OMG Polymer Gyptec with Polymer Gyptec Metal Plates	1 per 2.0 ft²	System 6, 7, 8 or 9	-45.0*
CWF-8.	Existing min. 2-inch Tectum	(Optional) One or more layers, any combination, loose laid	Min. 1-inch FescoBoard	OMG Polymer Gyptec with Polymer Gyptec Metal Plates	1 per 4.0 ft²	System 6, 7, 8 or 9	-45.0*

TABLE 4D: CEMENTITIOUS WOOD FIBER DECKS - REROOF (TEAR-OFF)
SYSTEM TYPE F: BONDED ROOF COVER

System No.	Deck (Note 1 & Note 12)	Roof Cover (Note 15)	MDP (psf)
CWF-9.	Existing min. 2-inch Tectum	System 10	-30.0
CWF-10.	Existing min. 2-inch Tectum	System 4	-105.0
CWF-11.	Existing min. 2-inch Tectum	System 4	-165.0

TABLE 5A: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1 & Note 12)	Anchor Sheet		Insulation		Roof Cover (Note 15)	MDP (psf)
		Type	Adhesive	Type	Attach (Notes 6,7,8)		
G-1.	Existing poured gypsum	SR SuperiorPly Ultra	SuperiorFlex Seal Max at 2.0 to 2.5 gal/square	Min. 2-inch ACfoam II	SR-IA @ 6-inch o.c.	System 10	-30.0
G-2.	Existing poured gypsum	SR SuperiorPly Ultra	SuperiorFlex Seal Max at 2.0 to 2.5 gal/square	Min. 2-inch ACfoam II	SR-IA @ 6-inch o.c.	System 4	-45.0

TABLE 5B: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (Note 1)	Base Sheet			Roof Cover (Note 15)	MDP (psf)
		Type	Fasteners (Note 11)	Attach		
G-3.	Existing poured gypsum	SR Glass Base Felt or SRM Glass Base Felt	OMG C-R Base Sheet Fasteners	4-inch o.c. at the 4-inch side laps	System 8 or 9	-30.0*
G-4.	Existing poured gypsum	SR Glass Base Felt or SRM Glass Base Felt	Trufast FM-75 Base Sheet Fasteners, Trufast Twin Loc-Nail Assembled Fasteners or OMG C-R Base Sheet Fasteners	9-inch o.c. at the 4-inch side lap and 18-inch o.c. in two equally spaced, staggered rows in the center of the sheet	System 8 or 9	-30.0*
G-5.	Existing poured gypsum	SR Glass Base Felt or SRM Glass Base Felt	OMG C-R Assembled Base Sheet Fastener	4-inch o.c. at the 4-inch side lap and 9-inch o.c. in two equally spaced, staggered rows in the center of the sheet	System 8 or 9	-30.0*
G-6.	Existing poured gypsum	SR Glass Base Felt or SRM Glass Base Felt	Trufast FM-75 Base Sheet Fasteners or Trufast Twin Loc-Nail Assembled Fasteners	4-inch o.c. at the 4-inch side laps	System 8 or 9	-45.0*
G-7.	Existing poured gypsum	SR Glass Base Felt or SRM Glass Base Felt	Trufast FM-90 Base Sheet Fasteners, Trufast Twin Loc-Nail Assembled Fasteners or OMG C-R Assembled Base Sheet Fastener	9-inch o.c. at the 4-inch side lap and 18-inch o.c. in two equally spaced, staggered rows in the center of the sheet	System 8 or 9	-45.0*
G-8.	Existing poured gypsum	SR Glass Base Felt or SRM Glass Base Felt	Trufast FM-90 Base Sheet Fasteners, Trufast Twin Loc-Nail Assembled Fasteners or OMG C-R Assembled Base Sheet Fastener	7.5-inch o.c. at the 4-inch side lap and 7.5-inch o.c. in one staggered row in the center of the sheet	System 8 or 9	-45.0*

TABLE 5C: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER

System No.	Deck (Note 1 & Note 12)	Roof Cover (Note 15)	MDP (psf)
G-9.	Existing poured gypsum	System 10	-30.0
G-10.	Existing poured gypsum	System 4	-67.5

TABLE 6A: RECOVER APPLICATIONS
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Substrate (Note 1)	Base Insulation Layer(s) (Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasteners (Note 11)	Attach		
R-1.	Existing insulated single ply, BUR or modified bitumen roof system over steel or min. 2,500 psi structural concrete deck	(Optional) One or more layers, any combination, loose laid	Min. 1-inch ACFoam II	Note 2	1 per 2.0 ft²	System 11A (6-inch o.c.)	-37.5*

TABLE 6B: RECOVER APPLICATIONS
SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Substrate (Note 1)	Insulation Layer(s)		Base or Anchor Sheet			Roof Cover (Note 15)	MDP (psf)
		Type	Attach	Base	Fasteners (Note 11)	Attach		
R-2.	Existing insulated single ply, BUR or modified bitumen roof system over steel or min. 2,500 psi structural concrete deck	Min 1-inch ACFoam II	Prelim. attached	SR SuperiorPly SAP II (with bottom release film left in place, except at lap)	Trufast #14 HD or #15 EHD with Trufast 2" Barbed Metal Seam Plates or OMG #14 HD, #14 Roofgrip or XHD with OMG 2 in. Barbed Plates	12-inch o.c. in the 3-inch laps	One ply SR SuperiorPly SAM II installed staggered one-half-width and self-adhered followed by surfacing	-45.0*

TABLE 6C: RECOVER APPLICATIONS
SYSTEM TYPE D-2A: INSULATED, BONDED & MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Substrate (Note 1)	Base Insulation		Top Insulation		Base Sheet				Roof Cover (Note 15)	MDP (psf)
		Type	Attach	Type	Attach	Type	Adhesive	Fasteners (Note 11)			
								Type	Spacing		
R-3.	Existing insulated single ply, BUR or modified bitumen roof system over steel or min. 2,500 psi structural concrete deck	Min. 1-inch Roxul Monoboard	Loose-laid	Min. 2-inch AC Foam II	Trufast #12 DP with Trufast 3" Metal Insulation Plates at 1 per 5.3 ft²	SR SuperiorPly Ultra	SuperiorFlex Seal Max at 2.4 gal/sq.	Trufast #12 DP with Trufast 3" Metal Insulation Plates	12-inch o.c. over the laps and 16-inch o.c. in the center of the sheet	System 4	-82.5