

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
1A	Wood	New, Reroof (Tear-Off)	A-2	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	4
1B	Wood	New, Reroof (Tear-Off), Recover	A-2	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	4
1C	Wood	New, Reroof (Tear-Off), Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	4
1D	Wood	New, Reroof (Tear-Off), Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	5
1E	Wood	New, Reroof (Tear-Off), Recover	D-2	Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	5
1F	Wood	New, Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	6
1G	Wood	New, Reroof (Tear-Off), Recover	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	6
2A	Steel or Structural concrete	New, Reroof (Tear-Off), Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	7-12
2B	Steel or Structural concrete	New, Reroof (Tear-Off), Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	12
2C	Steel or Structural concrete	New, Reroof (Tear-Off), Recover	D-2	Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	13
3A	Structural concrete	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	14-15
3B	Structural concrete	New, Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	15
4A	LWIC	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	16
4B	LWIC	New, Reroof (Tear-Off)	A-2	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	17-19
4C	LWIC	New, Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	19-20
4D	LWIC	New, Reroof (Tear-Off) or Recover	E-2	LWC to Deck, Mechanically Attached Base Sheet, Bonded Roof Cover	21
4E	LWIC	New, Reroof (Tear-Off)	E-2	Thermal Barrier to Deck, Temp Roof to Barrier, LWC to Temp Roof, Mech. Attached Base Sheet, Bonded Roof Cover	21
5A	CWF	Reroof (Tear-Off) or Recover	A-2	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	22
5B	CWF	Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	23
5C	CWF	Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	24
5D	CWF	Reroof (Tear-Off), Recover	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	24
6A	Gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	25
6B	Gypsum	New, Reroof (Tear-Off) or Recover	A-2	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	25-26
6C	Gypsum	New, Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	26-27
6D	Gypsum	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	27
6E	Gypsum	Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached Base Sheet, Bonded Roof Cover	28
7A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	29

The following notes apply to the systems outlined herein:

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

FASTENER/PLATE OPTIONS				
DECK TYPE	BY	FBC FILE NO.	PARTS	MINIMUM ENGAGEMENT
Wood	Johns Manville	N/A	UltraFast Fastener or All Purpose Fastener with UltraFast Metal Plate	Minimum ¾-inch plywood penetration or minimum 1-inch wood plank embedment
Steel	Johns Manville	N/A	UltraFast Fastener or All Purpose Fastener with UltraFast Metal Plate	Minimum ¾-inch steel penetration and engage the top flute of the steel deck
Structural Concrete	Johns Manville	N/A	All Purpose Fastener with UltraFast Metal Plate or Structural Concrete Fastener with UltraFast Metal Plate (flat bottom only)	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.
- 4 Minimum 200 psi, minimum 2-inch thick FBC Approved lightweight insulating concrete may be substituted for 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 LWIC and the potential effect on overlying components.
- 5 Preliminary insulation attachment for System Type D: Unless otherwise noted, refer to Section 2.2.10.1.3 of FM Loss Prevention Data Sheet 1-29 (February 2020).
- 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.
 JM Two Part Urethane Insulation Adhesive Canister, JM Two-Part UIA or JM Two-Part UIA Canister may be used where “JM-UIA-TWO-PART” is referenced
 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 FILE NO.	ADHESIVE	REFERENCE	MINIMUM RATE
Johns Manville	N/A	JM MBR Bonding Adhesive	JM-MBR-BA	Continuous 0.75-inch ribbons, 12-inch o.c.
		JM One-Step Foamable Adhesive	JM-OSFA	Continuous 0.75-inch ribbons, 12-inch o.c.
		JM Roofing System Urethane Adhesive	JM-RSUA	Continuous 0.5 to 0.75-inch wide ribbons, 12-inch o.c.
		JM Two Part Urethane Insulation Adhesive	JM-UIA-TWO-PART	Continuous 0.75-inch ribbons, 12-inch o.c.
ICP Construction, Inc.	FL1365	Polysat Commercial Roof Adhesive	Polysat CRA	Continuous 2.5 to 3.5-inch wide ribbons, 12-inch o.c.
Generic, ASTM D312, Type IV	N/A	hot asphalt		Full coverage at 25-30 lbs/square

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

MDP LIMITATIONS FOR TAPERED POLYISOCYANURATE INSULATIONS				
ADHESIVE	INSULATION		MIN. TAPERED THICKNESS (IN)	MDP (PSF)
	LISTED PRODUCT	FBC FILE NO.		
JM-OSFA	Johns Manville ENRGY 3	FL4205	0.5	-157.5
JM JM-RSUA	Johns Manville ENRGY 3	FL4205	0.5	-157.5
JM-UIA-TWO-PART	Johns Manville ENRGY 3	FL4205	0.5	-315.0
Polysat CRA	Johns Manville ENRGY 3	FL4205	1.0	-117.5

- 8 For adhered roof insulation and board-size: Unless otherwise noted, refer to Section 2.2.10.6.2 of FM Loss Prevention Data Sheet 1-29 (February 2020).
- 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 and Roofing Application Standard RAS 137. Assemblies marked with an asterisk* carry the limitations set forth in Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (February 2020) 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 herein). 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			
REFERENCE	LAYER	MATERIAL	APPLICATION
BP-AA	Base Ply	GlasBase Plus, PermaPly 28	Hot asphalt at 20-40 lbs/square
	Ply	GlasPly IV, GlasPly Premier, GlasBase Plus, PermaPly 28	
BP-CA1	Base Ply	GlasBase Plus, PermaPly 28	JM MBR Cold Application Adhesive at 1.5 to 2.0 gal/square
	Ply	GlasPly IV, GlasPly Premier, GlasBase Plus, PermaPly 28	
APP-CA1	Base Ply or Ply	JM APP Base	JM MBR Bonding Adhesive at 1.5 to 2.0 gal/square
	Cap Ply	Tricor M FR, Tricor M FR CR G	
APP-CA2	Base Ply or Ply	JM APP Base	JM MBR Bonding Adhesive at 1.5 to 2.0 gal/square
	Cap Ply	Tricor M FR, Tricor M FR CR G	
APP-TA	Base Ply or Ply	JM APP Base, APPeX 4S	Torch-Applied
	Cap Ply	APPeX 4S, APPeX 4.5M, APPeX 4.5M CR G, APPeX 4.5M FR, APPeX 4.5M FR CR G, Tricor S, Tricor M FR, Tricor M FR CR G	

- 16 Vapor barrier options for use over **structural concrete deck** followed by bonded insulation carry the following MDP limitations. The lesser of the MDP listings below vs. that for the selected assembly from **TABLE 3A** applies.

VAPOR BARRIER OPTIONS; STRUCTURAL CONCRETE DECK; FOLLOWED BY ADHESIVE-APPLIED INSULATION PER TABLE 3A:					
OPTION #	PRIMER	VAPOR BARRIER		INSULATION ADHESIVE PER TABLE 3A	MDP (psf)
		TYPE	APPLICATION		
C-VB-1.	None	DynaBase PR, DynaLastic 180 S, DynaLastic 250 S	DynaSet 2K, continuous 0.5-inch ribbons, 12-inch o.c. Laps sealed with DynaSet 1K.	Hot asphalt	-75.0
C-VB-2.	None	DynaBase PR, DynaLastic 180 S, DynaLastic 250 S	DynaSet 2K, continuous 0.5-inch ribbons, 12-inch o.c. Laps sealed with DynaSet 1K.	JM-OSFA, 12-inch o.c.	-97.5
C-VB-3.	None	DynaBase PR, DynaLastic 180 S, DynaLastic 250 S	DynaSet 2K, continuous 0.5-inch ribbons, 12-inch o.c. Laps sealed with DynaSet 1K.	JM-RSUA, 12-inch o.c.	-97.5
C-VB-4.	None	DynaBase PR, DynaLastic 180 S, DynaLastic 250 S	DynaSet 2K, continuous 0.5-inch ribbons, 12-inch o.c. Laps sealed with DynaSet 1K.	JM-UIA-TWO-PART, 12-inch o.c.	-97.5
C-VB-5.	ASTM D41	Two plies GlasPly IV, GlasPly Premier in hot asphalt	Hot asphalt	JM-OSFA, 12-inch o.c.	-180.0
C-VB-6.	ASTM D41	Two plies GlasPly IV, GlasPly Premier in hot asphalt	Hot asphalt	JM-RSUA, 12-inch o.c.	-180.0

VAPOR BARRIER OPTIONS; STRUCTURAL CONCRETE DECK; FOLLOWED BY ADHESIVE-APPLIED INSULATION PER TABLE 3A:					
OPTION #	PRIMER	VAPOR BARRIER		INSULATION ADHESIVE PER TABLE 3A	MDP (psf)
		TYPE	APPLICATION		
C-VB-7.	ASTM D41	DynaPly T1, DynaBase, DynaBase XT, DynaBase PR, DynaLastic 180 S, DynaLastic 250 S	Hot asphalt	JM-OSFA, 12-inch o.c.	-180.0
C-VB-8.	ASTM D41	DynaBase HW, DynaWeld Base, DynaWeld 180 S	Torch-applied	JM-OSFA, 12-inch o.c.	-180.0
C-VB-9.	None	DynaBase PR, DynaLastic 180 S, DynaLastic 250 S	DynaSet 1K, continuous 0.75-inch ribbons, 12-inch o.c. Laps sealed with DynaSet 1K.	JM-OSFA, 12-inch o.c.	-232.5
C-VB-10.	None	DynaBase PR, DynaLastic 180 S, DynaLastic 250 S	DynaSet 1K, continuous 0.75-inch ribbons, 12-inch o.c. Laps sealed with DynaSet 1K.	JM-RSUA, 12-inch o.c.	-232.5
C-VB-11.	None	DynaBase PR, DynaLastic 180 S, DynaLastic 250 S	DynaSet 1K, continuous 0.75-inch ribbons, 12-inch o.c. Laps sealed with DynaSet 1K.	JM-UIA-TWO-PART, 12-inch o.c.	-232.5
C-VB-12.	JM SA Primer Low VOC	JM Vapor Barrier SA	Self-adhering	JM UIA-TWO-PART, 12-inch o.c.	-277.5
C-VB-13.	JM SA Primer Low VOC	JM Vapor Barrier SA	Self-adhering	JM-RSUA, 12-inch o.c.	-277.5
C-VB-14.	ASTM D41	DynaPly T1, DynaBase, DynaBase XT, DynaBase PR, DynaLastic 180 S, DynaLastic 250 S	Hot asphalt	JM UIA-TWO-PART, 12-inch o.c.	-277.5
C-VB-15.	ASTM D41	DynaBase HW, DynaWeld Base, DynaWeld 180 S	Torch-applied	JM UIA-TWO-PART, 12-inch o.c.	-277.5
C-VB-16.	ASTM D41	DynaPly T1, DynaBase, DynaBase XT, DynaBase PR, DynaLastic 180 S, DynaLastic 250 S	Hot asphalt	JM-RSUA, 12-inch o.c.	-277.5
C-VB-17.	ASTM D41	DynaBase HW, DynaWeld Base, DynaWeld 180	Torch-applied	JM-RSUA, 12-inch o.c.	-292.5
C-VB-18.	None	DynaBase PR, DynaLastic 180 S, DynaLastic 250 S	DynaSet 1K, continuous 0.75-inch ribbons, 12-inch o.c. Laps sealed with DynaSet 1K.	Hot asphalt	-337.5

17 The following products are interchangeable within the scope of this Evaluation Report.

ACCEPTABLE ALTERNATES				
SUB-CATEGORY	MANUFACTURER	FBC FILE	LISTED PRODUCT HEREIN	ALTERNATE
Roofing Insulation	Johns Manville	FL4205	ENRGY 3	R-Panel, ValuTherm
			ENRGY 3 25 PSI	R-Panel 25 PSI, ValuTherm 25 PSI
			ENRGY 3 AGF	ValuTherm AGF
			ENRGY 3 25 PSI AGF	ValuTherm 25 PSI AGF
			ENRGY 3 CGF	ValuTherm CGF
			ENRGY 3 25 PSI CGF	ValuTherm 25 PSI CGF

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

TABLE 1A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 15)			MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
W-1	Min. 19/32-inch plywood	Two plies of PermaPly 28 or Ventsulation	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	9-inch o.c. in 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	hot asphalt	Min. 0.75-inch Fesco Board (homogeneous), min. 0.5-inch Retro-Fit Board or DuraBoard or min. 1.5-inch Fesco Foam or DuraFoam	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-52.5

TABLE 1B: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover (Note 15)			MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
W-2	Min. 19/32-inch plywood	Two plies of PermaPly 28 or Ventsulation	Note 2	9-inch o.c. in 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	hot asphalt	Min. 0.75-inch Fesco Board (homogeneous), min. 0.5-inch Retro-Fit Board or DuraBoard or min. 1.5-inch Fesco Foam or DuraFoam	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-52.5

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

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
W-3	Min. 19/32-inch plywood	Min. 1.4-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF or Min. 1.5-inch Fesco Foam or DuraFoam	Note 2	1 per 2.0 ft ²	Min. 0.75-inch Fesco Board (homogeneous), min. 0.5-inch Retro-Fit Board or DuraBoard or min. 1.5-inch Fesco Foam	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-45.0*
W-4	Min. 19/32-inch plywood	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, Fesco Foam or DuraFoam	Note 2	1 per 1.3 ft ²	Min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-52.5

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

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base Ply	Ply	Cap Ply	
W-5	Min. 19/32-inch plywood	One or more layers, any combination, loose laid	Min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	Note 2	1 per 2.0 ft ²	BP-AA	(Optional) APP-TA	APP-TA	-45.0*

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

System No.	Deck (Note 1)	Slip Sheet	Insulation Layer(s) (Note 13)		Base Sheet			Roof Cover (Note 15)		MDP (psf)
			Type	Attach	Base	Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
W-6	Min. 19/32-inch plywood	(Optional) One or more layers PermaPly 28, loose laid below or above insulation	One or more layers, any combination	Prelim Attach	JM APP Base, PermaPly 28, Glasbase Plus or Ventsulation	Note 2	12-inch o.c. in 4-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-45.0*
W-7	Min. 15/32-inch plywood	(Optional) One or more layers PermaPly 28, loose laid below or above insulation	One or more layers, any combination	Loose-laid	DynaFast 180 HW or DynaFast 250 HW	High Load Fasteners and APB Plates or High Load Plates	18-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) APP-TA	APP-TA	-45.0*
W-8	Min. 19/32-inch plywood	(Optional) One or more layers PermaPly 28, loose laid below or above insulation	One or more layers, any combination	Prelim Attach	Two plies PermaPly 28 or Ventsulation	Note 2	9-inch o.c. in 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-52.5
W-9	Min. 15/32-inch plywood	(Optional) One or more layers PermaPly 28, loose laid below or above insulation	One or more layers, min. 1-inch, any combination	Loose-laid	DynaFast 180 HW or DynaFast 250 HW	High Load Fasteners and APB Plates or High Load Plates	9-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) APP-TA	APP-TA	-60.0
W-10	Min. 15/32-inch plywood	(Optional) One or more layers PermaPly 28, loose laid below or above insulation	One or more layers, min. 1-inch, any combination	Loose-laid	DynaFast 180 HW or DynaFast 250 HW	High Load LH through 1-inch wide JM Polymer Membrane Batten	6-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) APP-TA	APP-TA	-82.5

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

System No.	Deck (Note 1)	Slip Sheet	Base Sheet			Roof Cover (Note 15)		MDP (psf)
			Base	Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
W-11	Min. 19/32-inch plywood	(Optional) One or more layers PermaPly 28, loose laid below	Two plies of PermaPly 28 or Ventsulation	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails	9-inch o.c. in 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-52.5

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

System No.	Deck (Note 1)	Slip Sheet	Base Sheet			Roof Cover (Note 15)		MDP (psf)
			Base	Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
W-12	Min. 19/32-inch plywood	(Optional) One or more layers PermaPly 28, loose laid below	JM APP Base, PermaPly 28, Glasbase Plus or Ventsulation	Note 2	12-inch o.c. in 4-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-45.0*
W-13	Min. 15/32-inch	(Optional) One or more layers PermaPly 28, loose laid	DynaFast 180 HW or DynaFast 250 HW	High Load Fasteners and APB Plates or High Load Plates	18-inch o.c. within the min. min. 4-inch wide, heat-welded side laps.	(Optional) APP-TA	APP-TA	-45.0*
W-14	Min. 19/32-inch plywood	(Optional) One or more layers PermaPly 28, loose laid below	Two plies of PermaPly 28 or Ventsulation	Note 2	9-inch o.c. in 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-52.5

**TABLE 2A: 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	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
HOT OR TORCH APPLIED BASE:										
S-1	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 2.0 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	BP-AA or APP-TA	(Optional) APP-TA	APP-TA	-45.0*
S-2	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 4.0 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	BP-AA or APP-TA	(Optional) APP-TA	APP-TA	-45.0*
S-3	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF Fesco Foam or DuraFoam	Note 2	1 per 2.0 ft ²	Min. 0.5-inch Retro-Fit Board or DuraBoard, min. 0.75-inch Fesco Board (homogeneous) or min. 1.5-inch Fesco Foam or DuraFoam	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-45.0*
S-4	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, Fesco Foam or DuraFoam	Note 2	1 per 1.3 ft ²	Min. 0.5-inch Retro-Fit Board or DuraBoard, min. 0.75-inch Fesco Board (homogeneous) or min. 1.5-inch Fesco Foam or DuraFoam	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-52.5
S-5	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.6 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	BP-AA or APP-TA	(Optional) APP-TA	APP-TA	-60.0
S-6	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF	Note 2	1 per 1.45 ft ²	Min. 0.5-inch Retro-Fit Board or DuraBoard or min. 1.5-inch DuraFoam	hot asphalt	3 plies BP-AA	(Optional) APP-TA	APP-TA	-75.0
S-7	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 2.0 ft ²	Min. 0.5-inch DuraBoard	JM-MBR-BA	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
S-8	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 2.0 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA or APP-TA	(Optional) APP-TA	APP-TA	-45.0*
S-9	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 4.0 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA or APP-TA	(Optional) APP-TA	APP-TA	-45.0*
S-10	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.6 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA or APP-TA	(Optional) APP-TA	APP-TA	-60.0
S-11	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 2.0 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	JM-RSUA	APP-TA	(Optional) APP-TA	APP-TA	-45.0*

**TABLE 2A: 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	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
S-12	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 2.0 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	BP-AA or APP-TA	(Optional) APP-TA	APP-TA	-45.0*
S-13	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 4.0 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	BP-AA or APP-TA	(Optional) APP-TA	APP-TA	-45.0*
S-14	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.6 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	BP-AA or APP-TA	(Optional) APP-TA	APP-TA	-60.0
COLD APPLIED BASE:										
S-15	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 5.3 ft ²	Min. 0.5-inch RetroPlus Board	hot asphalt	APP-CA2	None	APP-CA2	-37.5*
S-16	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 4.0 ft ²	Min. 0.5-inch RetroPlus Board	hot asphalt	APP-CA2	None	APP-CA2	-45.0*
S-17	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 5.3 ft ²	Min. 0.5-inch RetroPlus Board	hot asphalt	APP-CA2	None	APP-CA2	-45.0*
S-18	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.8 ft ²	Min. 0.5-inch RetroPlus Board	hot asphalt	APP-CA2	None	APP-CA2	-60.0
S-19	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.3 ft ²	Min. 0.5-inch RetroPlus Board	hot asphalt	APP-CA2	None	APP-CA2	-67.5
S-20	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.0 ft ²	Min. 0.5-inch RetroPlus Board	hot asphalt	APP-CA2	None	APP-CA2	-90.0
S-21	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.45 ft ²	Min. 0.5-inch RetroPlus Board	hot asphalt	APP-CA2	None	APP-CA2	-90.0
S-22	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 5.3 ft ²	Min. 0.5-inch RetroPlus Board	JM-MBR-BA, full coverage	APP-CA2	None	APP-CA2	-37.5*
S-23	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 4.0 ft ²	Min. 0.5-inch RetroPlus Board	JM-MBR-BA, full coverage	APP-CA2	None	APP-CA2	-45.0*

**TABLE 2A: 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	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
S-24	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 5.3 ft ²	Min. 0.5-inch RetroPlus Board	JM-MBR-BA, full coverage	APP-CA2	None	APP-CA2	-45.0*
S-25	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.8 ft ²	Min. 0.5-inch RetroPlus Board	JM-MBR-BA, full coverage	APP-CA2	None	APP-CA2	-60.0
S-26	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.3 ft ²	Min. 0.5-inch RetroPlus Board	JM-MBR-BA, full coverage	APP-CA2	None	APP-CA2	-67.5
S-27	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.0 ft ²	Min. 0.5-inch RetroPlus Board	JM-MBR-BA, full coverage	APP-CA2	None	APP-CA2	-90.0
S-28	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.45 ft ²	Min. 0.5-inch RetroPlus Board	JM-MBR-BA, full coverage	APP-CA2	None	APP-CA2	-90.0
S-29	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 5.3 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	APP-CA2	None	APP-CA2	-37.5*
S-30	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 5.3 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-37.5*
S-31	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 4.0 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	APP-CA2	None	APP-CA2	-45.0*
S-32	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 4.0 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-45.0*
S-33	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 5.3 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	APP-CA2	None	APP-CA2	-45.0*
S-34	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 5.3 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-45.0*
S-35	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.8 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	APP-CA2	None	APP-CA2	-60.0

**TABLE 2A: 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	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
S-36	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.8 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-60.0
S-37	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.3 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	APP-CA2	None	APP-CA2	-67.5
S-38	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.3 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-67.5
S-39	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.0 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	APP-CA2	None	APP-CA2	-90.0
S-40	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.0 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-90.0
S-41	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.45 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	APP-CA2	None	APP-CA2	-90.0
S-42	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.45 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-90.0
S-43	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 5.3 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	JM-RSUA	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-37.5*
S-44	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 4.0 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	JM-RSUA	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-45.0*
S-45	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 5.3 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	JM-RSUA	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-45.0*
S-46	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.8 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	JM-RSUA	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-60.0
S-47	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.3 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	JM-RSUA	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-67.5

**TABLE 2A: 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	Fasten (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
S-48	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.0 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	JM-RSUA	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-90.0
S-49	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Note 2	1 per 1.45 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	JM-RSUA	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-90.0

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

System No.	Deck (Note 1)	Base Insulation Layer (Note 13)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)	
			Type	Fasteners (Note 11)	Attach	Base Ply	Ply	Cap Ply		
HOT OR TORCH APPLIED BASE:										
S-50	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 Retro-Fit Board, DuraBoard or Min. 0.75-inch Fesco Board (homogeneous)	Note 2	1 per 2.0 ft ²	BP-AA	(Optional) APP-TA	APP-TA	-45.0*	
S-51	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4.0 ft ²	BP-AA or APP-TA	(Optional) APP-TA	APP-TA	-45.0*	
S-52	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 Gypsum-Fiber Roof Board	Note 2	1 per 1.8 ft ²	BP-AA or APP-TA	(Optional) APP-TA	APP-TA	-60.0	
S-53	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.75-inch DuraBoard	Note 2	1 per 1.3 ft ²	APP-TA	(Optional) APP-TA	APP-TA	-67.5	
S-54	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.75-inch DuraBoard	Note 2	1 per 1.3 ft ²	APP-TA	(Optional) APP-TA	APP-TA	-75.0	
COLD APPLIED BASE:										
S-55	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.7 ft ²	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-37.5*	
S-56	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	Note 2; round plates only	1 per 4.0 ft ²	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-45.0*	
S-57	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 Gypsum-Fiber Roof Board	Note 2	1 per 1.45 ft ²	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-82.5	
SELF-ADHERING BASE:										
S-58	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 1.5-inch ENRGY 3	Note 2	1 per 2.0 ft ²	JM BaseGrip SD/SA	(Optional) APP-TA	APP-TA	-45.0*	

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

System No.	Deck (Note 1)	Insulation Layer(s) (Note 13)		Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Attach	Base	Fasteners (Note 11)	Attach	Base Ply	Cap Ply	
S-59	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	JM APP Base, PermaPly 28, Glasbase Plus or Ventsulation	Note 2	12-inch o.c. at the 4-inch lap and 18-inch o.c. in two, staggered center rows	(Optional) APP-TA	APP-TA	-45.0*
S-60	Min. 22 ga., type B, Grade 33 steel	One or more layers, min. 1-inch, any combination	Loose-laid	DynaFast 180 HW or DynaFast 250 HW	High Load Fasteners and APB Plates or High Load Plates	18-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) APP-TA	APP-TA	-45.0*
S-61	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	Two Plies of PermaPly 28 or Ventsulation	Note 2	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, staggered center rows	(Optional) APP-TA	APP-TA	-52.5
S-62	Min. 22 ga., type B, Grade 33 steel	One or more layers, min. 1-inch, any combination	Loose-laid	DynaFast 180 HW or DynaFast 250 HW	High Load Fasteners and High Load Plates	12-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) APP-TA	APP-TA	-67.5
S-63	Min. 22 ga., type B, Grade 80 steel	One or more layers, min. 1-inch, any combination	Prelim. Attached	DynaFast 180 HW or DynaFast 250 HW	High Load LH through 1-inch wide JM Polymer Membrane Batten	6-inch o.c. within min. 4-inch wide, heat-welded laps spaced 71.75-inch o.c.; intermediate 3-inch laps heat-welded	(Optional) APP-TA	APP-TA	-90.0
S-64	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, min. 1-inch, any combination	Prelim. Attached	GlasBase Plus	Note 2	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, staggered center rows	(Optional) APP-TA	APP-TA	-97.5
S-65	Min. 22 ga., type B, Grade 33 steel	One or more layers, min. 1-inch, any combination	Loose-laid	DynaFast 180 HW or DynaFast 250 HW	High Load Fasteners and APB Plates or High Load Plates	6-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) APP-TA	APP-TA	-105.0
S-66	Min. 22 ga., type EF, Grade 80 steel	One or more layers, min. 1-inch, any combination	Prelim. Attached	DynaFast 180 HW	High Load Fasteners and High Load Plates	6-inch o.c. within the min. 4-inch wide, heat welded laps	(Optional) APP-TA	APP-TA	-142.5
S-67	Min. 22 ga., type EF, Grade 80 steel	One or more layers, min. 1.5-inch, any combination	Loose laid	DynaFast 250 HW	High Load Fasteners and High Load Plates	6-inch o.c. within the min. 4-inch wide, heat welded laps	(Optional) APP-TA	APP-TA	-165.0

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

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
HOT OR TORCH APPLIED BASE:										
C-1.	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	hot asphalt	Min 0.5-inch DuraBoard	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-67.5
C-2.	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	hot asphalt	Min. 0.75-inch FescoBoard or min. 0.5-inch DuraBoard	hot asphalt	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-120.0
C-3.	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.4-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF or Min 1.5-inch Fesco Foam or DuraFoam or Min. 0.75-inch Fesco Board (homogeneous) or Min 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	Min 1.5-inch Fesco Foam or DuraFoam or Min. 0.75-inch Fesco Board (homogeneous) or Min 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-150.0
C-4.	Min. 2,500 psi structural concrete	ASTM D41	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-225.0
C-5.	Min. 2,500 psi structural concrete	ASTM D41	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-232.5
C-6.	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ENRGY 3 CGF or ENRGY 3 25 PSI CGF	hot asphalt	Min. 0.5-inch DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-277.5
C-7.	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF or ENRGY 3 25 PSI AGF	hot asphalt	Min. 0.5-inch DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-305.0
C-8.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	JM-MBR-BA	Min. 0.75-inch FescoBoard or min. 0.5-inch DuraBoard	JM-MBR-BA	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-120.0
C-9.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	UIA-TWO-PART	Min 0.5-inch DuraBoard	UIA-TWO-PART	APP-TA	(Optional) APP-TA	APP-TA	-67.5
C-10.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	UIA-TWO-PART	Min. 0.5-inch DuraBoard	UIA-TWO-PART	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-105.0
C-11.	Min. 2,500 psi structural concrete	None	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-225.0

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

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
C-12.	Min. 2,500 psi structural concrete	None	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	APP-TA	(Optional) APP-TA	APP-TA	-232.5
C-13.	Min. 2,500 psi structural concrete	None	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	JM-RSUA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	JM-RSUA	APP-TA	(Optional) APP-TA	APP-TA	-105.0
C-14.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	JM-RSUA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	JM-RSUA	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-225.0
C-15.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	JM-RSUA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	JM-RSUA	APP-TA	(Optional) APP-TA	APP-TA	-232.5
C-16.	Min. 2,500 psi structural concrete	None	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Polysset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polysset CRA	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-225.0
C-17.	Min. 2,500 psi structural concrete	None	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Polysset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polysset CRA	APP-TA	(Optional) APP-TA	APP-TA	-232.5

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

System No.	Deck (Note 1)	Primer	Roof Cover (Note 15)			MDP (psf)
			Base Ply	Ply	Cap Ply	
C-18.	Min. 2,500 psi structural concrete	ASTM D41	BP-AA	(Optional) APP-TA	APP-TA	-305.0
C-19.	Min. 2,500 psi structural concrete	ASTM D41	APP-TA	(Optional) APP-TA	APP-TA	-315.0

**TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
CELCORE (FL2037):										
LWC-1	Min. 2,500 psi structural concrete	Min. 200 psi, min 2-inch Celcore Cellular Concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	APP-TA	-222.5
ELASTIZELL (FL4994):										
LWC-2	Min. 2,500 psi structural concrete	Min. 200 psi, min 2-inch Range II Elastizell Lightweight Insulating Concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	UIA-TWO-PART	Min 0.5-inch DuraBoard	UIA-TWO-PART	APP-TA	(Optional) APP-TA	APP-TA	-67.5
LWC-3	Min. 2,500 psi structural concrete	Min. 200 psi, min 2-inch Range II Elastizell Lightweight Insulating Concrete	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	UIA-TWO-PART	Min. 0.5-inch DuraBoard	UIA-TWO-PART	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-105.0
LWC-4	Min. 2,500 psi structural concrete	Min. 200 psi, min 2-inch Range II Elastizell Lightweight Insulating Concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	APP-TA	-225.0
LWC-5	Min. 2,500 psi structural concrete	Min. 200 psi, min 2-inch Range II Elastizell Lightweight Insulating Concrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	APP-TA	-180.0
MEARLCRETE (FL13492):										
LWC-6	Min. 2,500 psi structural concrete	Min. 200 psi, min 2-inch Mearlcrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-225.0
LWC-7	Min. 2,500 psi structural concrete	Min. 200 psi, min 2-inch Mearlcrete	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	APP-TA	(Optional) APP-TA	APP-TA	-232.5

**TABLE 4b: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Anchor Sheet			Insulation			Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base	Top	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
CELCORE (FL2037):												
LWC-8	Min. 22 ga, Type B, Grade 33 steel or structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	PermaPly 28 or Ventsulation	Trufast FM-90 Base Sheet Fastener	8-inch o.c. at the 4-inch lap and 16-inch o.c. at two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-37.5
LWC-9	Min. 22 ga, Type B, Grade 33 steel or structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	PermaPly 28 or Ventsulation	Trufast FM-90 Base Sheet Fastener	8-inch o.c. at the 4-inch lap and 16-inch o.c. at two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	min. 1.5-inch DuraFoam or min. 0.5-inch DuraBoard	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-37.5
LWC-10	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 350 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	DynaBase or GlasPly Premier	Trufast FM-90 Base Sheet Fastener	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-60.0
LWC-11	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 350 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	DynaBase or GlasPly Premier	Trufast FM-90 Base Sheet Fastener	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	min. 1.5-inch DuraFoam or min. 0.5-inch DuraBoard	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-60.0
CONCRECEL (FL5584 OR FL10500):												
LWC-12	Min. 22 ga., type BV, Grade 80 steel or min. 2,500 psi structural concrete	Min. 300 psi, min. 2.25-inch thick Concrecel Concrete (FL5584 or 10500)	GlasPly Premier	JM LWC Pre-Assembled Base Sheet Fastener, min. 1.7-inch	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-82.5
ELASTIZELL (FL4994):												
LWC-13	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 200 psi, min. 2-inch thick Elastizell Lightweight Insulating Concrete.	DynaBase, PermaPly 28 or Ventsulation	Trufast FM-90 Base Sheet Fastener or Trufast Twin Loc-Nail Assembled Fastener	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-45.0

**TABLE 4B: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Anchor Sheet			Insulation			Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base	Top	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
LWC-14	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 200 psi, min. 2-inch thick Elastizell Lightweight Insulating Concrete.	DynaBase, PermaPly 28 or Ventsulation	Trufast FM-90 Base Sheet Fastener or Trufast Twin Loc-Nail Assembled Fastener	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch DuraFoam or min. 0.5-inch DuraBoard	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-45.0
PRE-EXISTENT LIGHTWEIGHT CONCRETE (NOTE 14):												
LWC-15	Min. 22 ga. steel or min. 2,500 psi structural concrete	Pre-existent, Min. 300 psi, min. 2-inch thick cellular LWIC. <i>To qualify the LWC, the fastener shall document min. 62 lbf</i>	JM PermaPly 28, DynaBase, GlasPly Premier or Ventsulation	JM LWC Pre-Assembled Base Sheet Fastener, min. 1.7-inch	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-52.5
LWC-16	Min. 22 ga. steel or min. 2,500 psi structural concrete	Pre-existent, Min. 300 psi, min. 2-inch thick cellular LWIC. <i>To qualify the LWC, the fastener shall document min. 62 lbf</i>	JM PermaPly 28, DynaBase, GlasPly Premier or Ventsulation	JM LWC Pre-Assembled Base Sheet Fastener, min. 1.7-inch	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF	Min. 1.5-inch DuraFoam or min. 0.5-inch DuraBoard	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-52.5
LWC-17	Min. 22 ga, type BV, Grade 33 steel or structural concrete	Min. 350 psi, min. 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 88 lbf per Note 11.</i>	PermaPly 28 or Ventsulation	Trufast Twin Loc-Nail Assembled Fastener (Note 11)	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-60.0
LWC-18	Min. 22 ga, type BV, Grade 33 steel or structural concrete	Min. 350 psi, min. 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 88 lbf per Note 11.</i>	PermaPly 28 or Ventsulation	Trufast Twin Loc-Nail Assembled Fastener (Note 11)	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch DuraFoam or min. 0.5-inch DuraBoard	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-60.0
LWC-19	Min. 22 ga, type BV, Grade 33 steel or structural concrete	Min. 350 psi, min. 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 110 lbf per Note 11.</i>	DynaBase	Trufast Twin Loc-Nail Assembled Fastener (Note 11)	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-75.0

**TABLE 4b: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Anchor Sheet			Insulation			Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners (Note 11)	Attach	Base	Top	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
LWC-20	Min. 22 ga, type BV, Grade 33 steel or structural concrete	Min. 350 psi, min. 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 110 lbf per Note 11.</i>	DynaBase	Trufast Twin Loc-Nail Assembled Fastener (Note 11)	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch DuraFoam or min. 0.5-inch DuraBoard	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-75.0
LWC-21	Min. 22 ga. steel or min. 2,500 psi structural concrete	Pre-existent, Min. 300 psi, min. 2-inch thick cellular LWIC	JM PermaPly 28, DynaBase, GlasPly Premier or Ventsulation	Note 2 <i>Fasteners to engage structural deck below LWIC.</i>	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows.	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-75.0
LWC-22	Min. 22 ga. steel or min. 2,500 psi structural concrete	Pre-existent, Min. 300 psi, min. 2-inch thick cellular LWIC	JM PermaPly 28, DynaBase, GlasPly Premier or Ventsulation	Note 2 <i>Fasteners to engage structural deck below LWIC.</i>	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows.	(Optional) Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF	Min. 1.5-inch DuraFoam or min. 0.5-inch DuraBoard	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-75.0

**TABLE 4c: 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	Base Ply	Cap Ply	
CELCORE (FL2037):								
LWC-23	Min. 22 ga, Type B, Grade 33 steel or structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	PermaPly 28 or Ventsulation	Trufast FM-90 Base Sheet Fastener	8-inch o.c. at the 4-inch lap and 16-inch o.c. at two, equally spaced, staggered center rows	BP-AA or APP-TA	APP-TA	-37.5
LWC-24	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 350 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	DynaBase or GlasPly Premier	Trufast FM-90 Base Sheet Fastener	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	BP-AA or APP-TA	APP-TA	-60.0
LWC-25	Min. 22 ga. steel or min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch thick Celcore Cellular Concrete	DynaBase, GlasPly Premier, PermaPly 28 or Ventsulation	JM LWC Pre-Assembled Base Sheet Fastener, min. 1.7-inch	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-75.0
CONCRECEL (FL5584 or FL10500):								

**TABLE 4c: 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	Base Ply	Cap Ply	
LWC-26	Min. 22 ga. steel or min. 2,500 psi structural concrete	Min. 300 psi, minimum 2.25-inch thick Concrecel Concrete	GlasPly Premier	JM LWC Pre-Assembled Base Sheet Fastener, min. 1.7-inch	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-82.5
ELASTIZELL (FL4994):								
LWC-27	Min. 22 ga, type B, Grade 33 steel or structural concrete	Min. 200 psi, min. 2-inch thick Elastizell Lightweight Insulating Concrete.	DynaBase, PermaPly 28 or Ventsulation	Trufast FM-90 Base Sheet Fastener or Trufast Twin Loc-Nail Assembled Fastener	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	BP-AA or APP-TA	APP-TA	-45.0
PRE-EXISTENT CELLULAR LWC (NOTE 14):								
LWC-28	Min. 22 ga. steel or min. 2,500 psi structural concrete	Pre-existent, Min. 300 psi, min. 2-inch thick cellular LWIC <i>Note: To qualify the LWC, the fastener shall document min. 60 lbf</i>	PermaPly 28 or Ventsulation	JM LWC Pre-Assembled Base Sheet Fastener, min. 1.7-inch	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-52.5
LWC-29	Min. 22 ga. steel or min. 2,500 psi structural concrete	Pre-existent, Min. 300 psi, min. 2-inch thick cellular LWIC <i>Note: To qualify the LWC, the fastener shall document min. 88 lbf</i>	PermaPly 28 or DynaBase	JM UltraLok or Trufast Twin Loc-Nail (Note 11)	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-60.0
LWC-30	Min. 22 ga, type BV, Grade 33 steel or structural concrete	Min. 350 psi, min. 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 88 lbf per Note 11.</i>	PermaPly 28 or Ventsulation	Trufast Twin Loc-Nail Assembled Fastener (Note 11)	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	BP-AA or APP-TA	APP-TA	-60.0
LWC-31	Min. 22 ga, type BV, Grade 33 steel or structural concrete	Min. 350 psi, min. 2-inch thick pre-existent cellular LWIC. <i>Note: To qualify the LWC, the fastener shall document min. 110 lbf per Note 11.</i>	DynaBase	Trufast Twin Loc-Nail Assembled Fastener (Note 11)	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	BP-AA or APP-TA	APP-TA	-75.0
LWC-32	Min. 22 ga. steel or min. 2,500 psi structural concrete	Pre-existent, Min. 200 psi, min. 2-inch thick cellular LWIC	PermaPly 28 or Ventsulation	Note 2 <i>Fasteners to engage structural deck below LWC.</i>	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows.	(Optional) APP-TA	APP-TA	-75.0

TABLE 4D: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER									
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	Fastener (Note 11)	Attach	Base Ply	Cap Ply		
CELCORE (FL2037):									
LWC-33	Min. 22 ga, type BV, Grade 40 steel or structural concrete	Deck Treatment: Celcore S-1 Deck Preparation Slurry LWC: Min. 350 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture LWC Treatment: Celcore PVA Curing Compound	DynaFast 180 HW or DynaFast 250 HW	Trufast Versa-Fast Fasteners with Versa-Fast Plates; four (4) fasteners per plate; Fasteners of sufficient length for min. 2.25-inch embedment into LWC or sufficient to provide required withdrawal resistance capacity	10-inch o.c. within the 5-inch wide, heat-welded side laps	(Optional) APP-TA	APP-TA	-67.5	
LWC-34	Min. 22 ga, type BV, Grade 40 steel or structural concrete	Deck Treatment: Celcore S-1 Deck Preparation Slurry LWC: Min. 350 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture LWC Treatment: Celcore PVA Curing Compound	DynaLastic 180 S or DynaLastic 250 S	Trufast Versa-Fast Fasteners with Versa-Fast Plates; four (4) fasteners per plate; Fasteners of sufficient length for min. 2.25-inch embedment into LWC or sufficient to provide required withdrawal resistance capacity	10-inch o.c. within the 5-inch wide, heat-welded side laps	BP-AA	APP-TA	-67.5	
PRE-EXISTENT LIGHTWEIGHT CONCRETE (NOTE 14):									
LWC-35	Min. 22 ga, type B, 50 ksi steel	Min. 430 psi, min. 2-inch thick cellular lightweight concrete.	DynaFast 180 HW or DynaFast 250 HW	High Load Fastener and High Load Plate (engage steel deck)	12-inch o.c. within the min. 5-inch wide, heat-welded side laps.	(Optional) APP-TA	APP-TA	-60.0	
LWC-36	Min. 22 ga, type B, 60 ksi steel	Min. 180 psi, min. 2-inch thick cellular lightweight concrete.	DynaFast 180 HW or DynaFast 250 HW	High Load Fastener and High Load Plate (engage steel deck)	6-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) APP-TA	APP-TA	-97.5	

TABLE 4E: LIGHTWEIGHT INSULATING CONCRETE OVER STEEL OR CWF DECKS – 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												
System No.	Deck (Note 1)	Thermal Barrier			Temp Roof (Note 15)	LWC (Note 14)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Fasten (Note 11)	Attach			Base	Fasten	Spacing	Base Ply	Cap	
CELCORE (FL2037):												
LWC-37	Min. 22 ga. type B, Grade 33 steel	Min. 0.625-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft ²	DynaBase HW, DynaWeld Base or DynaWeld 180 S, torch-applied	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.	DynaBase, DynaLastic 180 S, GlasBase Plus, GlasPly Premier or Ventsulation	Trufast FM-90 Base Sheet Fastener	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	APP-TA	APP-TA	-60.0

**TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS – REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Insulation			Roof Cover (Note 15)			MDP (psf)
		Type	Fastener (Note 11)	Attach	Base	Top	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
CWF-1.	Existing Tectum	PermaPly 28 or Ventsulation	Trufast Twin Loc-Nail Assembled Fastener (Field W/D ≥ 96 lbf)	9-inch o.c. at the 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous), min. 0.5-inch Retro-Fit Board or DuraBoard or min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-45.0*
CWF-2.	Existing Tectum	PermaPly 28 or Ventsulation	Trufast Twin Loc-Nail Assembled Fastener (Field W/D ≥ 96 lbf)	9-inch o.c. at the 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch DuraFoam, min. 0.5-inch DuraBoard or min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
CWF-3.	Existing Tectum	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok Fastener (Field W/D ≥ 100 lbf)	9-inch o.c. at the 4-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous), min. 0.5-inch Retro-Fit Board or DuraBoard or min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-45.0*
CWF-4.	Existing Tectum	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok Fastener (Field W/D ≥ 100 lbf)	9-inch o.c. at the 4-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch DuraFoam, min. 0.5-inch DuraBoard or min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
CWF-5.	Existing Tectum	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok Fastener (Field W/D ≥ 133 lbf)	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch DuraFoam or min. 0.5-inch DuraBoard	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-75.0
CWF-6.	Existing Tectum	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok Fastener (Field W/D ≥ 146 lbf)	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-82.5

**TABLE 5B: 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	Fastener (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
CWF-7.	Existing Tectum	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D \geq 134 lbf)	1 per 1.78 ft ²	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-37.5*
CWF-8.	Existing Tectum	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D \geq 134 lbf)	1 per 1.78 ft ²	Min. 1.5-inch DuraFoam or min. 0.5-inch DuraBoard	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-37.5*
CWF-9.	Existing Tectum	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	JM Polymer Auger Fastener & Plate (Field W/D \geq 270 lbf)	1 per 3.0 ft ²	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-45.0*
CWF-10.	Existing Tectum	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	JM Polymer Auger Fastener & Plate (Field W/D \geq 270 lbf)	1 per 3.0 ft ²	Min. 1.5-inch DuraFoam or min. 0.5-inch DuraBoard	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
CWF-11.	Existing Tectum	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D \geq 180 lbf)	1 per 2.0 ft ²	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-45.0*
CWF-12.	Existing Tectum	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D \geq 180 lbf)	1 per 2.0 ft ²	Min. 1.5-inch DuraFoam or min. 0.5-inch DuraBoard	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-45.0*

**TABLE 5C: 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	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fastener (Note 11)	Attach	Base Ply	Ply	Cap Ply	
CWF-13.	Existing Tectum	(Optional) One or more layers, any combination, loose laid	0.5-inch Retro-Fit Board, RetroPlus Board, DuraBoard or SECUROCK Gypsum-Fiber Roof Board or min. 0.75-inch Fesco Board	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D ≥ 134 lbf)	1 per 1.78 ft ²	BP-AA	(Optional) APP-TA	APP-TA	-37.5*
CWF-14.	Existing Tectum	(Optional) One or more layers, any combination, loose laid	0.5-inch DuraBoard or SECUROCK Gypsum-Fiber Roof Board	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D ≥ 134 lbf)	1 per 1.78 ft ²	APP-TA	(Optional) APP-TA	APP-TA	-37.5*
CWF-15.	Existing Tectum	One or more layers, any combination, loose laid	Min. 1.5-inch Fesco Foam or DuraFoam	JM Polymer Auger Fastener & Plate or JM UltraLok Fastener (Field W/D ≥ 240 lbf)	1 per 2.7 ft ²	BP-AA	(Optional) APP-TA	APP-TA	-45.0*
CWF-16.	Existing Tectum	One or more layers, any combination, loose laid	Min. 1.5-inch DuraFoam	JM Polymer Auger Fastener & Plate or JM UltraLok Fastener (Field W/D ≥ 240 lbf)	1 per 2.7 ft ²	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
CWF-17.	Existing Tectum	One or more layers, any combination, loose laid	Min. 0.75-inch Fesco Board (homogeneous) or DuraBoard	JM Polymer Auger Fastener & Plate or JM UltraLok Fastener (Field W/D ≥ 180 lbf)	1 per 2.0 ft ²	BP-AA	(Optional) APP-TA	APP-TA	-45.0*
CWF-18.	Existing Tectum	One or more layers, any combination, loose laid	Min. 0.75-inch DuraBoard	JM Polymer Auger Fastener & Plate or JM UltraLok Fastener (Field W/D ≥ 180 lbf)	1 per 2.0 ft ²	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
CWF-19.	Existing Tectum	(Optional) One or more layers, any combination, loose laid	0.5-inch Retro-Fit Board, RetroPlus Board, DuraBoard or SECUROCK Gypsum-Fiber Roof Board or min. 0.75-inch Fesco Board	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D ≥ 180 lbf)	1 per 2.0 ft ²	BP-AA	(Optional) APP-TA	APP-TA	-45.0*
CWF-20.	Existing Tectum	(Optional) One or more layers, any combination, loose laid	0.5-inch DuraBoard or SECUROCK Gypsum-Fiber Roof Board	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D ≥ 180 lbf)	1 per 2.0 ft ²	APP-TA	(Optional) APP-TA	APP-TA	-45.0*

**TABLE 5D: CEMENTITIOUS WOOD FIBER DECKS – REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE E-2: 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	Base Ply	Cap Ply	
CWF-21.	Existing Tectum	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM Polymer Auger Fastener & Plate (Field W/D ≥ 159 lbf)	12-inch o.c. at the 4-inch lap and 36-inch o.c. in two, equally spaced, staggered center rows	BP-AA or APP-TA	APP-TA	-45.0*
CWF-22.	Existing Tectum	PermaPly 28 or Ventsulation	Trufast Twin Loc-Nail Assembled Fastener (Field W/D ≥ 96 lbf)	9-inch o.c. at the 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	BP-AA or APP-TA	APP-TA	-45.0*
CWF-23.	Existing Tectum	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok Fastener (Field W/D ≥ 100 lbf)	9-inch o.c. at the 4-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	BP-AA or APP-TA	APP-TA	-45.0*
CWF-24.	Existing Tectum	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok Fastener (Field W/D ≥ 133 lbf)	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	BP-AA	APP-TA	-82.5

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

System No.	Deck (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
G-1.	Existing gypsum deck	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	UIA-TWO-PART	Min 0.5-inch DuraBoard	UIA-TWO-PART	APP-TA	(Optional) APP-TA	APP-TA	-67.5
G-2.	Existing gypsum deck	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	UIA-TWO-PART	Min. 0.5-inch DuraBoard	UIA-TWO-PART	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-105.0
G-3.	Existing gypsum deck	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	APP-TA	-112.5
G-4.	Existing gypsum deck	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-225.0
G-5.	Existing gypsum deck	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Polyset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polyset CRA	APP-TA	(Optional) APP-TA	APP-TA	-232.5

**TABLE 6B: GYPSUM – REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet			Insulation			Roof Cover (Note 15)			MDP (psf)
		Type	Fastener (Note 11)	Attach	Base	Top	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
G-6.	Existing gypsum deck	PermaPly 28 or Ventsulation	Trufast Twin Loc-Nail Assembled Fastener (Field W/D ≥ 96 lbf)	9-inch o.c. at the 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous), min. 0.5-inch Retro-Fit Board or DuraBoard or min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-45.0*
G-7.	Existing gypsum deck	PermaPly 28 or Ventsulation	Trufast Twin Loc-Nail Assembled Fastener (Field W/D ≥ 96 lbf)	9-inch o.c. at the 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch DuraFoam, min. 0.5-inch DuraBoard or min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
G-8.	Existing gypsum deck	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok Fastener (Field W/D ≥ 100 lbf)	9-inch o.c. at the 4-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous), min. 0.5-inch Retro-Fit Board or DuraBoard or min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-45.0*

TABLE 6B: GYPSUM – REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Anchor Sheet			Insulation			Roof Cover (Note 15)			MDP (psf)
		Type	Fastener (Note 11)	Attach	Base	Top	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
G-9.	Existing gypsum deck	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok Fastener (Field W/D ≥ 100 lbf)	9-inch o.c. at the 4-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch DuraFoam, min. 0.5-inch DuraBoard or min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
G-10.	Existing gypsum deck	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok Fastener (Field W/D ≥ 133 lbf)	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch DuraFoam or min. 0.5-inch DuraBoard	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-75.0
G-11.	Existing gypsum deck	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok Fastener (Field W/D ≥ 146 lbf)	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-82.5

TABLE 6C: GYPSUM 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	Fastener (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
G-12.	Existing gypsum deck	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D ≥ 134 lbf)	1 per 1.78 ft ²	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-37.5*
G-13.	Existing gypsum deck	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D ≥ 134 lbf)	1 per 1.78 ft ²	Min. 1.5-inch DuraFoam or min. 0.5-inch DuraBoard	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-37.5*
G-14.	Existing gypsum deck	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	JM Polymer Auger Fastener & Plate (Field W/D ≥ 270 lbf)	1 per 3.0 ft ²	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-45.0*
G-15.	Existing gypsum deck	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	JM Polymer Auger Fastener & Plate (Field W/D ≥ 270 lbf)	1 per 3.0 ft ²	Min. 1.5-inch DuraFoam or min. 0.5-inch DuraBoard	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-45.0*

TABLE 6C: GYPSUM 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	Fastener (Note 11)	Attach	Type	Attach (Notes 6,7,8)	Base Ply	Ply	Cap Ply	
G-16.	Existing gypsum deck	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D ≥ 180 lbf)	1 per 2.0 ft ²	Min. 1.5-inch Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board (homogeneous) or min. 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-45.0*
G-17.	Existing gypsum deck	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D ≥ 180 lbf)	1 per 2.0 ft ²	Min. 1.5-inch DuraFoam or min. 0.5-inch DuraBoard	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-45.0*

TABLE 6D: GYPSUM DECKS –REROOF (TEAR-OFF) OR RECOVER										
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER										
System No.	Deck (Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)	
			Type	Fastener (Note 11)	Attach	Base Ply	Ply	Cap Ply		
G-18.	Existing gypsum deck	(Optional) One or more layers, any combination, loose laid	0.5-inch Retro-Fit Board, RetroPlus Board, DuraBoard or SECUROCK Gypsum-Fiber Roof Board or min. 0.75-inch Fesco Board	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D ≥ 134 lbf)	1 per 1.78 ft ²	BP-AA	(Optional) APP-TA	APP-TA	-37.5*	
G-19.	Existing gypsum deck	(Optional) One or more layers, any combination, loose laid	0.5-inch DuraBoard or SECUROCK Gypsum-Fiber Roof Board	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D ≥ 134 lbf)	1 per 1.78 ft ²	APP-TA	(Optional) APP-TA	APP-TA	-37.5*	
G-20.	Existing gypsum deck	One or more layers, any combination, loose laid	Min. 1.5-inch Fesco Foam or DuraFoam	JM Polymer Auger Fastener & Plate or JM UltraLok Fastener (Field W/D ≥ 240 lbf)	1 per 2.7 ft ²	BP-AA	(Optional) APP-TA	APP-TA	-45.0*	
G-21.	Existing gypsum deck	One or more layers, any combination, loose laid	Min. 1.5-inch DuraFoam	JM Polymer Auger Fastener & Plate or JM UltraLok Fastener (Field W/D ≥ 240 lbf)	1 per 2.7 ft ²	APP-TA	(Optional) APP-TA	APP-TA	-45.0*	
G-22.	Existing gypsum deck	One or more layers, any combination, loose laid	Min. 0.75-inch Fesco Board (homogeneous) or DuraBoard	JM Polymer Auger Fastener & Plate or JM UltraLok Fastener (Field W/D ≥ 180 lbf)	1 per 2.0 ft ²	BP-AA	(Optional) APP-TA	APP-TA	-45.0*	
G-23.	Existing gypsum deck	One or more layers, any combination, loose laid	Min. 0.75-inch DuraBoard	JM Polymer Auger Fastener & Plate or JM UltraLok Fastener (Field W/D ≥ 180 lbf)	1 per 2.0 ft ²	APP-TA	(Optional) APP-TA	APP-TA	-45.0*	
G-24.	Existing gypsum deck	(Optional) One or more layers, any combination, loose laid	0.5-inch Retro-Fit Board, RetroPlus Board, DuraBoard or SECUROCK Gypsum-Fiber Roof Board or min. 0.75-inch Fesco Board	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D ≥ 180 lbf)	1 per 2.0 ft ²	BP-AA	(Optional) APP-TA	APP-TA	-45.0*	
G-25.	Existing gypsum deck	(Optional) One or more layers, any combination, loose laid	0.5-inch DuraBoard or SECUROCK Gypsum-Fiber Roof Board	Trufast Twin Loc-Nail Assembled Fastener, min. 1.3-inch embedment (Field W/D ≥ 180 lbf)	1 per 2.0 ft ²	APP-TA	(Optional) APP-TA	APP-TA	-45.0*	

**TABLE 6E: GYPSUM DECKS – REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE E-2: 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	Ply	Cap	
G-26.	Existing gypsum deck	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM Polymer Auger Fastener & Plate (Field W/D \geq 159 lbf)	12-inch o.c. at the 4-inch lap and 36-inch o.c. in two, equally spaced, staggered center rows	BP-AA or APP-TA	APP-TA	-45.0*
G-27.	Existing gypsum deck	PermaPly 28 or Ventsulation	Trufast Twin Loc-Nail Assembled Fastener (Field W/D \geq 96 lbf)	9-inch o.c. at the 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	BP-AA or APP-TA	APP-TA	-45.0*
G-28.	Existing gypsum deck	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok Fastener (Field W/D \geq 100 lbf)	9-inch o.c. at the 4-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	BP-AA or APP-TA	APP-TA	-45.0*
G-29.	Existing gypsum deck	DynaBase, GlasBase Plus, GlasPly Premier, PermaPly 28 or Ventsulation	JM UltraLok Fastener (Field W/D \geq 133 lbf)	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	BP-AA	APP-TA	-82.5

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

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

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf) ^A
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)	Base	Ply	Cap	
R-1.	Existing asphaltic BUR	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	hot asphalt	Min 0.5-inch DuraBoard	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-67.5
R-2.	Existing asphaltic BUR	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	hot asphalt	Min. 0.75-inch FescoBoard or min. 0.5-inch DuraBoard	hot asphalt	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-120.0
R-3.	Existing asphaltic BUR	Min. 1.4-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF or Min 1.5-inch Fesco Foam or DuraFoam or Min. 0.75-inch Fesco Board (homogeneous) or Min 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	Min 1.5-inch Fesco Foam or DuraFoam or Min. 0.75-inch Fesco Board (homogeneous) or Min 0.5-inch Retro-Fit Board or DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-150.0
R-4.	Existing asphaltic BUR	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-225.0
R-5.	Existing asphaltic BUR	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	APP-TA	(Optional) APP-TA	APP-TA	-232.5
R-6.	Existing asphaltic BUR	Min. 1.5-inch ENRGY 3 CGF or ENRGY 3 25 PSI CGF	hot asphalt	Min. 0.5-inch DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-277.5
R-7.	Existing asphaltic BUR	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF or ENRGY 3 25 PSI AGF	hot asphalt	Min. 0.5-inch DuraBoard	hot asphalt	BP-AA	(Optional) APP-TA	APP-TA	-305.0
R-8.	Existing asphaltic BUR	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	JM-MBR-BA, full	Min. 0.75-inch FescoBoard or min. 0.5-inch DuraBoard	JM-MBR-BA	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-112.5
R-9.	Existing asphaltic BUR	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	UIA-TWO-PART	Min 0.5-inch DuraBoard	UIA-TWO-PART	APP-TA	(Optional) APP-TA	APP-TA	-67.5
R-10.	Existing asphaltic BUR	Min. 1.5-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	UIA-TWO-PART	Min. 0.5-inch DuraBoard	UIA-TWO-PART	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-105.0
R-11.	Existing asphaltic BUR	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	UIA-TWO-PART	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	UIA-TWO-PART	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	APP-TA	-120.0
R-12.	Existing asphaltic BUR	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Polysset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polysset CRA	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-225.0
R-13.	Existing asphaltic BUR	Min. 2-inch ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF or ENRGY 3 25 PSI CGF	Polysset CRA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Polysset CRA	APP-TA	(Optional) APP-TA	APP-TA	-232.5