

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

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1A-2	Wood	New, Reroof (Tear-Off), Recover	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	3
1B	Wood	New, Reroof (Tear-Off), Recover	B	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	3
1C	Wood	New, Reroof (Tear-Off), Recover	C	Mech. Attached Insulation, Bonded Roof Cover	4
1D	Wood	New, Reroof (Tear-Off), Recover	D	Prelim. Attached Insulation, Mech. Attached Base Sheet, Bonded Roof Cover	4
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6A	Gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	19
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The following notes apply to the systems outlined herein:

- The roof system evaluation herein pertains to above-deck roof components; deck-attachment details pertain to ‘as-tested’ conditions under TAS 114, Appendix J. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the AHJ. Load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
- Unless otherwise noted, fasteners and stress plates for insulation attachment shall be as follows. Fasteners shall be of sufficient length for the following engagements:
 - Wood Deck: UltraFast Fasteners or All Purpose Fasteners with UltraFast Metal Plates. Minimum 0.75-inch plywood penetration or minimum 1-inch wood plank embedment.
 - Steel Deck: UltraFast Fasteners or All Purpose Fasteners with UltraFast Metal Plates. Minimum 0.75-inch steel penetration and engage the top flute of the steel deck.
 - Concrete Deck: All Purpose Fasteners with UltraFast Metal Plates or Struct conc. Fasteners with UltraFast Metal Plates (flat bottom only). Minimum 1-inch embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer’s published installation instructions.
- Unless otherwise noted, insulation may be any one layer or combination of polyisocyanurate, polystyrene, wood fiberboard, perlite, gypsum-based roof board, Invinsa Roof Board or Invinsa Foam that meets the QA requirements of F.A.C. Rule 61G20-3 and is documented as meeting FBC 1505.1 and, for foam plastic, FBC Chapter 26, when installed with the roof cover.
- 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.
 - Hot asphalt (HA): Full coverage at 25-30 lbs/square
 - JM MBR Bonding Adhesive (MBR-BA): Continuous 0.75-inch wide ribbons, 12-inch o.c. or full coverage at 2.0 gal/square
 - JM Two-Part Urethane Insulation Adhesive (UIA-TWO-PART): Continuous 0.75-inch wide ribbons, 12-inch o.c. *Note: JM Green Two-Part Urethane Insulation Adhesive may be used where UIA-TWO-PART is referenced.*
 - JM Roofing System Urethane Adhesive (RSUA): Continuous 0.5 to 0.75-inch wide ribbons, 12-inch o.c.
 - 3M CR-20: Continuous 2.5 to 3.5-inch ribbons, 12-inch o.c.
 - *Note: When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, adhesive ribbons shall be staggered from layer-to-layer a distance of one-half the ribbon spacing.*
 - *Note: 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.*

5. 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:
 - JM Two-Part Urethane Adhesive (UIA-TWO-PART): MDP -315.0 psf (Min. 0.5-inch thick)
 - JM Roofing System Urethane Adhesive (RSUA): MDP -157.5 psf (Min. 0.5-inch thick)
 - 3M CR-20: MDP -117.5 psf (Min. 1.0-inch thick)
6. Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.
7. For mechanically attached components or partially bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC Chapter 16, and Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are RAS 117 and FM LPDS 1-29. Assemblies marked with an asterisk* carry the limitations set forth in Section 2.2.1.5.1(a) of FM LPDS 1-29 for Zone 2/3 enhancements.
8. For assemblies where all components are fully adhered, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16, and no rational analysis is permitted.
9. 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 TAS 105 or ANSI/SPRI FX-1.
10. For existing substrates in a bonded recover installation, the existing roof surface shall be examined for compatibility and bond performance with the selected adhesive, and the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the AHJ, as documented through field uplift testing in accordance with ASTM E907, FM LPDS 1-52, ANSI/SPRI IA-1 or TAS 124.
11. 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. 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.
12. Unless otherwise noted, refer to the following references for bonded base, ply or cap sheet applications.

Johns Manville Roof Covers			
Reference	Layer	Material	Application
BP-AA (Base and Ply sheets, Asphalt-Applied)	Base	GlasBase Plus, PermaPly 28	Hot asphalt at 20-40 lbs/square
	Ply	GlasPly IV, GlasPly Premier, GlasBase Plus, PermaPly 28	
BP-CA1 (Base and Ply sheets, Cold-Applied, 1-part)	Base	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-TA (APP, Torch-Applied)	Base/Ply	JM APP Base, APPeX 4S	Torch applied
	Cap	APPeX 4S, APPeX 4.5M, APPeX 4.5M FR, APPeX 4.5M FR CR, Tricor S, Tricor M FR, Tricor M FR CR	
APP-CA1 (APP, Cold-Applied, 1-part)	Base/Ply	JM APP Base	JM MBR Cold Application Adhesive at 1.5 to 2.0 gal/square
	Cap	Tricor M FR, Tricor M FR CR	
APP-CA2 (APP, Cold-Applied, 2-part)	Base/Ply	JM APP Base	JM MBR Bonding Adhesive at 1.5 to 2.0 gal/square
	Cap	Tricor M FR, Tricor M FR CR	

13. "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-1: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover			MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Base	Ply	Cap	
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, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	HA	Min. 0.75-inch Fesco Board, min. 0.5-inch Retro-Fit Board or DuraBoard or min. 1.5-inch Fesco Foam or DuraFoam	HA	BP-AA	(Optional) APP-TA	APP-TA	-52.5

TABLE 1A-2: 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 (See Note 1)	Anchor Sheet			Base Insulation		Top Insulation		Roof Cover			MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Base	Ply	Cap	
W-2	Min. 19/32-inch plywood	Two plies of PermaPly 28 or Ventsulation	See 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, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	HA	Min. 0.75-inch Fesco Board, min. 0.5-inch Retro-Fit Board or DuraBoard or min. 1.5-inch Fesco Foam or DuraFoam	HA	BP-AA	(Optional) APP-TA	APP-TA	-52.5

TABLE 1B: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER

SYSTEM TYPE B: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Base	Ply	Cap	
W-3	Min. 19/32-inch plywood	Min. 1.4-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF, JM ISO 3 or Min 1.5-inch Fesco Foam or DuraFoam	See Note 2	1 per 2 ft ²	Min. 0.75-inch Fesco Board, min. 0.5-inch Retro-Fit Board or DuraBoard or min. 1.5-inch Fesco Foam	HA	BP-AA	(Optional) APP-TA	APP-TA	-45.0*
W-4	Min. 19/32-inch plywood	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF, JM ISO 3, Fesco Foam or DuraFoam	See Note 2	1 per 1.33 ft ²	Min. 0.75-inch Fesco Board or min. 0.5-inch Retro-Fit Board or DuraBoard	HA	BP-AA	(Optional) APP-TA	APP-TA	-52.5

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

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

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

System No.	Deck (See Note 1)	Slip Sheet	Insulation Layer(s)		Base Sheet			Roof Cover		MDP (psf)
			Type	Attach	Base	Fasteners	Attach	Ply	Cap	
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	See 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	See 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 1E-1: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE E: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Slip Sheet	Base Sheet			Roof Cover		MDP (psf)
			Base	Fasteners	Attach	Ply	Cap	
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 1E-2: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER

SYSTEM TYPE E: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Slip Sheet	Base Sheet			Roof Cover		MDP (psf)
			Base	Fasteners	Attach	Ply	Cap	
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	See 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	See 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 CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE B: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Fasten	Attach	Type	Attach	Base	Ply	Cap	
HOT OR TORCH APPLIED BASE:										
S-1	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	See Note 2	1 per 2 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	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 struct conc.	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	See Note 2	1 per 4 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	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 struct conc.	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF, JM ISO 3 Fesco Foam or DuraFoam	See Note 2	1 per 2 ft ²	Min. 0.5-inch Retro-Fit Board or DuraBoard, min. 0.75-inch Fesco Board or min. 1.5-inch Fesco Foam or DuraFoam	HA	BP-AA	(Optional) APP-TA	APP-TA	-45.0*
S-4	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF, JM ISO 3, Fesco Foam or DuraFoam	See Note 2	1 per 1.33 ft ²	Min. 0.5-inch Retro-Fit Board or DuraBoard, min. 0.75-inch Fesco Board or min. 1.5-inch Fesco Foam or DuraFoam	HA	BP-AA	(Optional) APP-TA	APP-TA	-52.5
S-5	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	See Note 2	1 per 1.6 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	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 struct conc.	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF, JM ISO 3	See Note 2	1 per 1.45 ft ²	Min. 0.5-inch Retro-Fit Board or DuraBoard or min. 1.5-inch DuraFoam	HA	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 struct conc.	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF or JM ISO 3	See Note 2	1 per 2 ft ²	Min. 0.5-inch DuraBoard	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 struct conc.	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	See Note 2	1 per 2 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*

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

System No.	Deck (See Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Fasten	Attach	Type	Attach	Base	Ply	Cap	
S-9	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	See Note 2	1 per 4 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 struct conc.	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	See 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 struct conc.	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	See Note 2	1 per 2 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	RSUA	APP-TA	(Optional) APP-TA	APP-TA	-45.0*
S-12	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	See Note 2	1 per 2 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	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 struct conc.	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	See Note 2	1 per 4 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	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 struct conc.	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	See Note 2	1 per 1.6 ft ²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	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 struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 5.33 ft ²	Min. 0.5-inch RetroPlus Board	HA	APP-CA2	None	APP-CA2	-37.5*
S-16	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 4 ft ²	Min. 0.5-inch RetroPlus Board	HA	APP-CA2	None	APP-CA2	-45.0*
S-17	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	Min. 2-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 5.33 ft ²	Min. 0.5-inch RetroPlus Board	HA	APP-CA2	None	APP-CA2	-45.0*

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

System No.	Deck (See Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Fasten	Attach	Type	Attach	Base	Ply	Cap	
S-18	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 1.78 ft ²	Min. 0.5-inch RetroPlus Board	HA	APP-CA2	None	APP-CA2	-60.0
S-19	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 1.33 ft ²	Min. 0.5-inch RetroPlus Board	HA	APP-CA2	None	APP-CA2	-67.5
S-20	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 1 ft ²	Min. 0.5-inch RetroPlus Board	HA	APP-CA2	None	APP-CA2	-90.0
S-21	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	Min. 2-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 1.45 ft ²	Min. 0.5-inch RetroPlus Board	HA	APP-CA2	None	APP-CA2	-90.0
S-22	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 5.33 ft ²	Min. 0.5-inch RetroPlus Board	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 struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 4 ft ²	Min. 0.5-inch RetroPlus Board	MBR-BA, full coverage	APP-CA2	None	APP-CA2	-45.0*
S-24	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	Min. 2-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 5.33 ft ²	Min. 0.5-inch RetroPlus Board	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 struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 1.78 ft ²	Min. 0.5-inch RetroPlus Board	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 struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 1.33 ft ²	Min. 0.5-inch RetroPlus Board	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 struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 1 ft ²	Min. 0.5-inch RetroPlus Board	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 struct conc.	Min. 2-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 1.45 ft ²	Min. 0.5-inch RetroPlus Board	MBR-BA, full coverage	APP-CA2	None	APP-CA2	-90.0

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

System No.	Deck (See Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Fasten	Attach	Type	Attach	Base	Ply	Cap	
S-29	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 5.33 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 struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 5.33 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 struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 4 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 struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 4 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 struct conc.	Min. 2-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 5.33 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 struct conc.	Min. 2-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 5.33 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 struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 1.78 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	APP-CA2	None	APP-CA2	-60.0
S-36	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 1.78 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 struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 1.33 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 struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 1.33 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 struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 1 ft ²	Min. 0.5-inch RetroPlus Board	UIA-TWO-PART	APP-CA2	None	APP-CA2	-90.0

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

System No.	Deck (See Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Fasten	Attach	Type	Attach	Base	Ply	Cap	
S-40	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 1 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 struct conc.	Min. 2-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See 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 struct conc.	Min. 2-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See 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 struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 5.33 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	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 struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 4 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	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 struct conc.	Min. 2-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 5.33 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	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 struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 1.78 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	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 struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 1.33 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	RSUA	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-67.5
S-48	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	Min. 1.5-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 1 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	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 struct conc.	Min. 2-inch ENRGY 3, R-Panel, ENRGY 3 25 PSI, R-Panel 25 PSI, ENRGY 3 AGF or CGF, ENRGY 3 25 PSI AGF or CGF, ValuTherm AGF or CGF, ValuTherm 25 PSI AGF or CGF	See Note 2	1 per 1.45 ft ²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	RSUA	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-90.0

TABLE 2B: STEEL OR CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER

SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Insulation Layer	Top Insulation Layer			Roof Cover			MDP (psf)
			Type	Fasteners	Attach	Base	Ply	Cap	
HOT OR TORCH APPLIED BASE:									
S-50	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	One or more layers, any combination, loose laid	Min. 0.5-inch Retro-Fit Board, DuraBoard or Min. 0.75-inch Fesco Board	See Note 2	1 per 2 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 struct conc.	One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	See Note 2	1 per 4 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 struct conc.	One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	See Note 2	1 per 1.78 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 struct conc.	One or more layers, any combination, loose laid	Min. 0.75-inch DuraBoard	See Note 2	1 per 1.33 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 struct conc.	One or more layers, any combination, loose laid	Min. 0.75-inch DuraBoard	See Note 2	1 per 1.33 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 struct conc.	One or more layers, any combination, loose laid	0.25-inch Invinsa Roof Board	See Note 2	1 per 2.67 ft ²	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-30.0*
S-56	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	One or more layers, any combination, loose laid	Min. 0.5-inch DuraBoard	See Note 2	1 per 2 ft ²	BP-CA1, APP-CA1	None	APP-CA1	-37.5*
S-57	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	One or more layers, any combination, loose laid	0.25-inch Invinsa Roof Board	See Note 2; round plates only	1 per 2 ft ²	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-37.5*
S-58	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	See Note 2	1 per 2.67 ft ²	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-37.5*
S-59	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	One or more layers, any combination, loose laid	0.25-inch Invinsa Roof Board	See Note 2; square plates only	1 per 2 ft ²	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-45.0*
S-60	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	One or more layers, any combination, loose laid	Min. 0.375-inch SECUROCK Gypsum-Fiber Roof Board	See Note 2; round plates only	1 per 4 ft ²	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-45.0*
S-61	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	See 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-62	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	One or more layers, any combination, loose laid	Min. 1.5-inch ENRGY 3	See Note 2	1 per 2 ft ²	JM BaseGrip SD/SA	(Optional) APP-TA	APP-TA	-45.0*

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

System No.	Deck (See Note 1)	Insulation Layer(s)		Base or Anchor Sheet			Roof Cover		MDP (psf)
		Type	Attach	Base	Fasteners	Attach	Ply	Cap	
S-63	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	One or more layers, any combination	Prelim. Attached	JM APP Base, PermaPly 28, Glasbase Plus or Ventsulation	See 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-64	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-65	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	One or more layers, any combination	Prelim. Attached	Two Plies of PermaPly 28 or Ventsulation	See 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-66	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-67	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-68	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi struct conc.	One or more layers, min. 1-inch, any combination	Prelim. Attached	GlasBase Plus	See 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-69	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-70	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-71	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: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

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

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

System No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover			MDP (psf)
			Type	Attach	Type	Attach	Base	Ply	Cap	
C-11.	Concrete	None	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 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
C-12.	Concrete	None	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 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.	Concrete	None	(Optional) Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF or JM ISO 3	RSUA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	RSUA	APP-TA	(Optional) APP-TA	APP-TA	-105.0
C-14.	Concrete	None	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF or JM ISO 3	RSUA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	RSUA	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-225.0
C-15.	Concrete	None	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF or JM ISO 3	RSUA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	RSUA	APP-TA	(Optional) APP-TA	APP-TA	-232.5
C-16.	Concrete	None	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-225.0
C-17.	Concrete	None	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	APP-TA	(Optional) APP-TA	APP-TA	-232.5
COLD APPLIED BASE:										
C-18.	Concrete	None	(Optional) Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF or JM ISO 3	CR-20	Min. 0.5-inch DuraBoard or min. 1.5-inch DuraFoam	CR-20	BP-CA1, APP-CA1	(Optional) BP-CA1, APP-CA1	APP-CA1	-82.5

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

System No.	Deck (See Note 1)	Primer	Roof Cover			MDP (psf)
			Base	Ply	Cap	
C-19.	Concrete	ASTM D41	BP-AA	(Optional) APP-TA	APP-TA	-305.0
C-20.	Concrete	ASTM D41	APP-TA	(Optional) APP-TA	APP-TA	-315.0

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

System No.	Deck (See Notes 1 & 11)		Base Insulation Layer		Top Insulation Layer		Roof Cover			MDP (psf)
	Deck	LWC	Type	Attach	Type	Attach	Base	Ply	Cap	
LWC-1	Concrete	Min. 200 psi, min 2-inch Elastizell	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF or JM ISO 3	UIA-TWO-PART	Min 0.5-inch DuraBoard	UIA-TWO-PART	APP-TA	(Optional) APP-TA	APP-TA	-67.5
LWC-2	Concrete	Min. 200 psi, min 2-inch Elastizell	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF or JM ISO 3	UIA-TWO-PART	Min. 0.5-inch DuraBoard	UIA-TWO-PART	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-105.0
LWC-3	Concrete	Min. 200 psi, min 2-inch Elastizell	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 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-4	Concrete	Min. 200 psi, min 2-inch Elastizell	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	APP-TA	-180.0
LWC-5	Concrete	Min. 200 psi, min 2-inch Celcore	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA or APP-TA	(Optional) BP-AA or APP-TA	APP-TA	-222.5
LWC-6	Concrete	Min. 200 psi, min 2-inch Mearlcrete	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-225.0
LWC-7	Concrete	Min. 200 psi, min 2-inch Mearlcrete	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	APP-TA	(Optional) APP-TA	APP-TA	-232.5

TABLE 4A-2: 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 (See Notes 1 & 11)	Anchor Sheet			Insulation			Roof Cover			MDP (psf)
		Type	Fasteners	Attach	Base	Top	Attach	Base	Ply	Cap	
LWC-8	Min. 300 psi, min. 2-inch thick cellular LWIC over min. 22 ga. steel or concrete deck. <i>Note: To qualify the LWIC under this assembly, a JM LWC Base Sheet Fastener shall achieve an average withdrawal of 62 lbf when tested per TAS 105 or ANSI/SPRI FX-1</i>	JM PermaPly 28, DynaBase, GlasPly Premier or Ventsulation	JM LWC Base Sheet Fasteners	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF, JM ISO 3, Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board or min. 0.5-inch Retro-Fit Board or DuraBoard	(Optional) Any base insulation except polyiso	HA	BP-AA	(Optional) APP-TA	APP-TA	-52.5
LWC-9	Min. 300 psi, min. 2-inch thick cellular LWIC over min. 22 ga. steel or concrete deck. <i>Note: To qualify the LWIC under this assembly, a JM LWC Base Sheet Fastener shall achieve an average withdrawal of 62 lbf when tested per TAS 105 or ANSI/SPRI FX-1</i>	JM PermaPly 28, DynaBase, GlasPly Premier or Ventsulation	JM LWC Base Sheet Fasteners	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch DuraFoam	None	HA	APP-TA	(Optional) APP-TA	APP-TA	-52.5
LWC-10	Min. 300 psi, min. 2-inch thick cellular LWIC over min. 22 ga. steel or concrete deck. <i>Note: To qualify the LWIC under this assembly, a JM LWC Base Sheet Fastener shall achieve an average withdrawal of 62 lbf when tested per TAS 105 or ANSI/SPRI FX-1</i>	JM PermaPly 28, DynaBase, GlasPly Premier or Ventsulation	JM LWC Base Sheet Fasteners	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF, JM ISO 3	Min. 0.5-inch DuraBoard	HA	APP-TA	(Optional) APP-TA	APP-TA	-52.5
LWC-11	Min. 300 psi, min. 2-inch thick cellular LWIC over min. 22 ga. steel or concrete deck.	JM PermaPly 28, DynaBase, GlasPly Premier or Ventsulation	See 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.	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF, JM ISO 3, Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board or min. 0.5-inch Retro-Fit Board or DuraBoard	(Optional) Any base insulation except polyiso	HA	BP-AA	(Optional) APP-TA	APP-TA	-75.0

TABLE 4A-2: 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 (See Notes 1 & 11)	Anchor Sheet			Insulation			Roof Cover			MDP (psf)
		Type	Fasteners	Attach	Base	Top	Attach	Base	Ply	Cap	
LWC-12	Min. 300 psi, min. 2-inch thick cellular LWIC over min. 22 ga. steel or concrete deck.	JM PermaPly 28, DynaBase, GlasPly Premier or Ventsulation	See 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.	Min. 1.5-inch DuraFoam	None	HA	APP-TA	(Optional) APP-TA	APP-TA	-75.0
LWC-13	Min. 300 psi, min. 2-inch thick cellular LWIC over min. 22 ga. steel or concrete deck.	JM PermaPly 28, DynaBase, GlasPly Premier or Ventsulation	See 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.	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF, JM ISO 3	Min. 0.5-inch DuraBoard	HA	APP-TA	(Optional) APP-TA	APP-TA	-75.0
LWC-14	Min. 300 psi, min. 2.25-inch thick Concrecel LWIC over min. 22 ga. steel or concrete deck.	GlasPly Premier	JM LWC Base Sheet Fasteners	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF, JM ISO 3, Fesco Foam or DuraFoam, min. 0.75-inch Fesco Board or min. 0.5-inch Retro-Fit Board or DuraBoard	(Optional) Any base insulation except polyiso	HA	BP-AA	(Optional) APP-TA	APP-TA	-82.5

TABLE 4B: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Notes 1 & 11)		Base Sheet			Roof Cover		MDP (psf)
	Structural Deck	LWC	Type	Fasteners	Attach	Ply	Cap	
LWC-15	Min. 22 ga, type B, Grade 33 steel or struct conc.	Min. 300 psi, min. 2-inch thick cellular LWIC <i>Note: To qualify the LWIC under this assembly, a JM LWC Base Sheet Fastener shall achieve an average withdrawal of 60 lbf when tested per TAS 105 or ANSI/SPRI FX-1</i>	PermaPly 28 or Ventsulation	JM LWC Base Sheet Fasteners	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-16	Min. 22 ga, type B, Grade 33 steel or struct conc.	Min. 300 psi, min. 2-inch thick cellular LWIC <i>Note: To qualify the LWIC under this assembly, a JM UltraLok or Trufast Twin Loc-Nail Fastener shall achieve an average withdrawal of 88 lbf when tested per TAS 105 or ANSI/SPRI FX-1</i>	PermaPly 28 or DynaBase	JM UltraLok or Trufast Twin Loc-Nail	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-17	Min. 22 ga, type B, Grade 33 steel or struct conc.	Min. 498 psi, minimum 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	DynaFast 180 HW or DynaFast 250 HW	Trufast Twin Loc Tubes or JM UltraLok Tubes (min. 1.8-inch) through Trufast Batten Bar or JM Metal Batten TL	6-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) APP-TA	APP-TA	-60.0
LWC-18	Min. 22 ga, type B, Grade 33 steel or struct conc.	Min. 200 psi, min. 2-inch thick cellular LWIC	PermaPly 28 or Ventsulation	See 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
LWC-19	Min. 22 ga, type B, Grade 33 steel or struct conc.	Min. 300 psi, min. 2-inch thick Celcore LWIC	DynaBase, GlasPly Premier, PermaPly 28 or Ventsulation	JM LWC Base Sheet Fasteners	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
LWC-20	Min. 22 ga, type B, Grade 33 steel or struct conc.	Min. 498 psi, minimum 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	DynaFast 180 HW or DynaFast 250 HW	Trufast Twin Loc Tubes or JM UltraLok Tubes (min. 1.8-inch) through Trufast Batten Bar or JM Metal Batten TL	6-inch o.c. within the min. 4-inch wide, heat-welded side laps and 6-inch o.c. in one center row	(Optional) APP-TA	APP-TA	-75.0
LWC-21	Min. 22 ga, type B, Grade 33 steel or struct conc.	Min. 300 psi, minimum 2.25-inch thick Concrecel LWIC	GlasPly Premier	JM LWC Base Sheet Fasteners	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
LWC-22	Structural concrete	Min. 498 psi, minimum 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	DynaFast 180 HW or DynaFast 250 HW	Trufast Twin Loc Tubes or JM UltraLok Tubes (min. 1.8-inch) through Trufast Batten Bar or JM Metal Batten TL	6-inch o.c. within the min. 4-inch wide, heat-welded side laps and 6-inch o.c. in one center row	(Optional) APP-TA	APP-TA	-90.0

TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Sheet			Roof Cover		MDP (psf)
		Type	Fasteners	Attach	Ply	Cap	
CWF-1.	3-inch Tectum I Plank	DynaFast 180 HW or DynaFast 250 HW	Trufast Twin Loc Tubes or JM UltraLok Tubes (1.8-inch) through Trufast Batten Bar or JM Metal Batten TL	6-inch o.c. within the min. 4-inch wide, heat-welded side laps and 6-inch o.c. in one center row	(Optional) APP-TA	APP-TA	-90.0

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

System No.	Deck (See Notes 1 & 10)	Base Insulation Layer		Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
G-1.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF or JM ISO 3	UIA-TWO-PART	Min 0.5-inch DuraBoard	UIA-TWO-PART	APP-TA	(Optional) APP-TA	APP-TA	-67.5
G-2.	Existing sound gypsum or gypsum plank	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF or JM ISO 3	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 sound gypsum or gypsum plank	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 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 sound gypsum or gypsum plank	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-225.0
G-5.	Existing sound gypsum or gypsum plank	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	APP-TA	(Optional) APP-TA	APP-TA	-232.5

TABLE 6B: GYPSUM DECKS – REROOF (Tear-Off) or RECOVER
SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Notes 1 & 9)	Base Sheet			Roof Cover		Max. Design Pressure
		Type	Fasteners	Attach	Ply	Cap	
G-6.	Existing sound gypsum or gypsum plank	DynaFast 180 HW or DynaFast 250 HW	Trufast Twin Loc Tubes or JM UltraLok Tubes through Trufast Batten Bar or JM Metal Batten TL (Field W/D \geq 177 lbf)	6-inch o.c. within the min. 4-inch wide, heat-welded side laps.	(Optional) APP-TA	APP-TA	-60.0
G-7.	Existing sound gypsum or gypsum plank	DynaFast 180 HW or DynaFast 250 HW	Trufast Twin Loc Tubes or JM UltraLok Tubes through Trufast Batten Bar or JM Metal Batten TL (Field W/D \geq 133 lbf)	6-inch o.c. within the min. 4-inch wide, heat-welded side laps and 6-inch o.c. in one center row	(Optional) APP-TA	APP-TA	-90.0

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

System No.	Substrate (See Notes 1 & 10)	Base Insulation Layer		Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
R-1.	Existing asphaltic BUR	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF or JM ISO 3	HA	Min 0.5-inch DuraBoard	HA	APP-TA	(Optional) APP-TA	APP-TA	-67.5
R-2.	Existing asphaltic BUR	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF or JM ISO 3	HA	Min. 0.75-inch FescoBoard or min. 0.5-inch DuraBoard	HA	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-120.0
R-3.	Existing asphaltic BUR	Min. 1.4-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF, JM ISO 3 or Min 1.5-inch Fesco Foam or DuraFoam or Min. 0.75-inch Fesco Board or Min 0.5-inch Retro-Fit Board or DuraBoard	HA	Min 1.5-inch Fesco Foam or DuraFoam or Min. 0.75-inch Fesco Board or Min 0.5-inch Retro-Fit Board or DuraBoard	HA	BP-AA	(Optional) APP-TA	APP-TA	-150.0
R-4.	Existing asphaltic BUR	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	HA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-225.0
R-5.	Existing asphaltic BUR	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	HA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	APP-TA	(Optional) APP-TA	APP-TA	-232.5
R-6.	Existing asphaltic BUR	Min. 1.5-inch ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm CGF, ValuTherm 25 PSI CGF	HA	Min. 0.5-inch DuraBoard	HA	BP-AA	(Optional) APP-TA	APP-TA	-277.5
R-7.	Existing asphaltic BUR	Min. 1.5-inch ENRGY 3, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, JM ISO 3, ValuTherm AGF, ValuTherm 25 PSI AGF	HA	Min. 0.5-inch DuraBoard	HA	BP-AA	(Optional) APP-TA	APP-TA	-305.0
R-8.	Existing asphaltic BUR	Min. 1.5-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF or JM ISO 3	MBR-BA, full	Min. 0.75-inch FescoBoard or min. 0.5-inch DuraBoard	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, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF or JM ISO 3	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, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF or JM ISO 3	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, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 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

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

System No.	Substrate (See Notes 1 & 10)	Base Insulation Layer		Top Insulation Layer		Roof Cover			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
R-12.	Existing asphaltic BUR	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA	(Optional) BP-AA or APP-TA	APP-TA	-225.0
R-13.	Existing asphaltic BUR	Min. 2-inch ENRGY 3, PSI-25, ENRGY 3 AGF, ENRGY 3 25 PSI AGF, ENRGY 3 CGF, ENRGY 3 25 PSI CGF, ValuTherm, ValuTherm AGF, ValuTherm 25 PSI AGF, ValuTherm CGF, ValuTherm 25 PSI CGF	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	APP-TA	(Optional) APP-TA	APP-TA	-232.5