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INSPECT CERTIFY EVALUATE VALIDATE QUALIFY

NEMO EVALUATION REPORT (NER)

The Garland Company, Inc.
3800 East 91st Street
Cleveland, OH 44105
(216) 641-7500

SUBJECT:	**Garland SBS Modified Bitumen Roof Systems**
SCOPE:	This NEMO Evaluation Report (henceforth 'NER') is issued under F.A.C. Rule 61G20-3 and the applicable rules and regulations governing Product Approval of construction materials in the State of Florida and ISO/IEC 17065 via NEMO|cert. NEMO Evaluations has evaluated the product described herein for compliance with the Code sections noted herein.
CODES:	2024 International Building Code 2018 International Building Code — TDI Third-Pary Evaluation Report Acceptance 2023 Florida Building Code, 8th Edition 2022 California Building Code 2023 City of Los Angeles Building Code 2023 County of Los Angeles Building Code — Section 98.0501, Product Approval, Alternate Materials, Systems, Devices and Methods of Construction
JURISDICTION:	Non-HVHZ and HVHZ
CATEGORY:	**FBC:** Roofing — **NEMO:** Modified Bitumen
SUB-CATEGORY:	**FBC:** Modified Bitumen Roof Systems
CSI DIVISION:	07 00 00 Thermal and Moisture Protection 07 52 00 Modified Bituminous Sheet Roofing
METHOD:	Method 1, Option C – Codified Material, Evaluation by Evaluation Entity
COMPLIANCE STATEMENT:	**Garland SBS Modified Bitumen Roof Systems**, as produced by **The Garland Company, Inc.**, have demonstrated compliance with the Code sections noted herein through testing in accordance with the referenced Standards, rational analysis and an ongoing quality assurance program. Compliance is subject to the Installation Requirements and Limitations of Use set forth herein.
QUALITY ASSURANCE:	Evidence of current quality assurance shall be listing and/or labeling in accordance with the requirements of NEMO|cert.
CONTINUED COMPLIANCE:	This NER is valid until such time the named product(s) change, the referenced Quality Assurance changes, or the evaluated Code provisions change. NEMO Evaluations requires, at minimum, a complete review of this NER with each 3-year Code Cycle.
BUILDING PERMIT REQUIREMENTS:	As required by the Building Official or Authority Having Jurisdiction to evaluate the installation of this product.
ADVERTISEMENT:	"NEMO Evaluated" may be displayed in advertising literature. If any portion of the NER is displayed, it shall be displayed in its entirety.
CERTIFICATION OF INDEPENDENCE:	✓ NEMO CERT, LLC has not, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates. ✓ NEMO CERT, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates. ✓ This is a building code evaluation. NEMO CERT, LLC is not, in any way, the Designer of Record for any project on which this NER, or previous versions thereof, is/was used for permitting or design guidance.

LINK TO TOP OF ATTACHMENT REQUIREMENTS

ISO/IEC 17065 PCA-145

ISO/IEC 17020 AA-779

1. CODES, PROPERTIES AND STANDARDS:

CODE	SECTION	PROPERTY	STANDARD
2018 International Building Code	1504.3.1	Wind resistance	FM 4474 or UL1897
	1504.6	Physical properties	ASTM G155
	1504.7	Impact resistance	FM 4470
	1505.1	Fire classification	UL 790
	1507.10.2	Material standard	ASTM D2178, D5726
	1507.10.2, 1507.11.2.1	Material standard	ASTM D4601
	1507.11.2	Material standard	ASTM D6162, D6163
2024 International Building Code	1504.4.1	Wind resistance	FM 4474 or UL1897
	1504.7	Physical properties	ASTM G155
	1504.8	Impact resistance	FM 4470
	1505.1	Fire classification	UL 790
	1507.10.2	Material standard	ASTM D2178, D5726
	1507.10.2, 1507.11.2.1	Material standard	ASTM D4601
	1507.11.2	Material standard	ASTM D6162, D6163
2023 Florida Building Code, 8th Edition	1504.3.1	Wind resistance	FM 4474 or UL1897
	1504.6	Physical properties	ASTM G155
	1504.7	Impact resistance	FM 4470
	1505.1, 1516.1	Fire classification	UL 790
	1507.10.2, TAS 110	Material standard	ASTM D2178, D4601, D5726
	1507.11.2, TAS 110	Material standard	ASTM D6162, D6163
	TAS 110	Resistance to Foot Traffic	TAS 114, Section 8.9
	TAS 110	Wind resistance	TAS 114, Appendix C, D or J
	TAS 110	Susceptibility to Hail Damage	TAS 114, Appendix F
	TAS 110	Susceptibility to Leakage	TAS 114, Appendix G
2022 California Building Code	Div. 5, Section 98.0501	Evaluation Reports	
2023 City of Los Angeles Building Code	1504.4.1	Wind resistance	FM 4474 or UL1897
2023 County of Los Angeles Building Code	1504.7	Physical properties	ASTM G155
	1504.8	Impact resistance	FM 4470
	1505.1	Fire Classification	UL 790
	1507.10.2	Material standard	ASTM D2178
	1507.10.2, 1507.11.2.1	Material standard	ASTM D4601
	1507.11.2	Material standard	ASTM D6162, D6163

2. PRODUCTS:

TABLE 1A: EVALUATED GARLAND COMPONENTS
(NEMO Certified. Consult Directory of Certified Products for production location(s))

TYPE	PRODUCT	MATERIAL STANDARD		
	NAME	REFERENCE	TYPE	GRADE
BASE SHEETS / BASE PLY	HPR Glasbase	ASTM D4601	II	N/A
	HPR Premium Glasbase	ASTM D4601	II	N/A
	HPR Tri-Base Premium	ASTM D4601	II	N/A
	VersiPly 40	ASTM D4601	II	N/A
PLY SHEETS	HPR Glasfelt	ASTM D2178	IV	N/A
	HPR Premium Glasfelt	ASTM D2178	VI	N/A
	HPR Polyscrim Plus	ASTM D5726	I	N/A

TABLE 1A: EVALUATED GARLAND COMPONENTS (NEMO CERTIFIED. CONSULT Directory of Certified Products FOR PRODUCTION LOCATION(S))				
SBS MODIFIED BITUMEN, COMPOSITE-REINFORCED, SMOOTH-SURFACED	FlexBase E 80	ASTM D6162	III	S
	FlexBase Plus 80	ASTM D6162	III	S
	StressPly EUV	ASTM D6162	III	S
	StressPly IV Plus	ASTM D6162	III	S
	StressPly Legacy	ASTM D6162	III	S
	StressPly Max	ASTM D6162	III	S
	StressPly Plus	ASTM D6162	III	S
SBS MODIFIED BITUMEN, COMPOSITE-REINFORCED, GRANULE-SURFACED	StressPly EUV FR Mineral	ASTM D6162	III	G
	StressPly IV Plus Mineral	ASTM D6162	III	G
	StressPly IV Plus UV Mineral	ASTM D6162	III	G
	StressPly Legacy FR Mineral	ASTM D6162	III	G
	StressPly Max FR Mineral	ASTM D6162	III	G
	StressPly Plus FR Mineral	ASTM D6162	III	G
	StressPly SA FR Mineral	ASTM D6162	III	G
SBS MODIFIED BITUMEN, GLASS-REINFORCED, SMOOTH-SURFACED	HPR SA FR Base Sheet	ASTM D6163	I	S
	StressBase 120	ASTM D6163	I	S
	StressBase 80	ASTM D6163	I	S
	StressBase 80 Plus	ASTM D6163	I	S
	FlexBase 80	ASTM D6163	III	S
	HPR Torch Base Sheet	ASTM D6163	III	S
	OptiMax	ASTM D6163	III	S
	StressPly	ASTM D6163	III	S
	VersiPly 80	ASTM D6163	III	S
SBS MODIFIED BITUMEN, GLASS-REINFORCED, GRANULE-SURFACED	OptiMax FR Mineral	ASTM D6163	III	G
	StressPly FR Mineral	ASTM D6163	III	G
	VersiPly Mineral	ASTM D6163	III	G

TABLE 1B: EVALUATED GARLAND ACCESSORIES (Contact contact@nemocert.com FOR PRODUCTION LOCATION(S) OF NON-CERTIFIED PRODUCTS)				
TYPE	PRODUCT	MATERIAL STANDARD		
	NAME	REFERENCE	TYPE	GRADE
SBS MODIFIED BITUMEN, GLASS-REINFORCED, SMOOTH-SURFACED	SA Base IV	ASTM D6163	I	S
	UltraShield Torch Base Sheet	ASTM D6163	I	S

TABLE 2: COMPONENTS BY OTHERS (4.1.4) (Refer to NOA if listed version was superseded to ensure use of latest version)				
TYPE	GARLAND PRODUCT	ACCEPTABLE ALTERNATE	FBC	NOA
ADHESIVES	Insul-Lock HR	Millennium One Step Foamable Adhesive	FL1800	25-0417.03
	Garlastic KM Plus	N/A	FL2330	25-0613.05
	Green-Lock Plus Membrane Adhesive	N/A	FL2330	25-0613.05
	HPR All-Temp Asphalt	N/A	FL2330	25-0613.05
	Weatherking	N/A	FL2330	25-0613.05
	Weatherking Plus WC	N/A	FL2330	25-0613.05
ROOFING FASTENERS	N/A	Dekfast DF-#12-PH3	FL20311	22-0913.02
	N/A	Dekfast DF-#14-PH3	FL20311	22-0913.02
	N/A	Dekfast DF-#15-PH3	FL20311	22-0913.02
	N/A	Dekfast PLT-R-3	FL20311	22-0913.02
	N/A	Dekfast PLT-H-2-7/8	FL20311	22-0913.02

TABLE 2: COMPONENTS BY OTHERS (4.1.4)
(Refer to NOA if listed version was superseded to ensure use of latest version)

TYPE	GARLAND PRODUCT	ACCEPTABLE ALTERNATE	FBC	NOA
ROOFING FASTENERS	N/A	OMG #12 Standard Roofgrip	FL699	24-0627.03
	N/A	OMG #12 Standard Hex Head	FL699	24-0627.03
	N/A	OMG #14 Roofgrip	FL699	24-0627.03
	N/A	OMG #15 Roofgrip Large Head	FL699	24-0627.03
	N/A	OMG Heavy Duty	FL699	24-0627.03
	N/A	OMG XHD	FL699	24-0627.03
	N/A	OMG CD-10	FL699	24-0627.03
	N/A	OMG Accutrac Plate	FL699	24-0627.03
	N/A	OMG 3 in. Galvalume Steel Plate	FL699	24-0627.03
	N/A	OMG 3 in. Ribbed Galvalume Plate (Flat)	FL699	24-0627.03
	N/A	OMG CR Base Sheet Fastener (1.7")	FL699	24-0627.03
	N/A	OMG OlyLok Locking Impact Nail	FL699	24-0627.03
	N/A	Accutrac Flat Bottom	FL699	24-0627.03
	N/A	Trufast #15 EHD	FL4500	25-0129.08
	N/A	Trufast #14 HD	FL4500	25-0129.08
	N/A	Trufast #12 DP	FL4500	25-0129.08
	N/A	Trufast 3" Metal Insulation Plate	FL4500	25-0129.08
	N/A	Trufast FM-75 Base Sheet Fastener	FL4500	25-0129.08
	N/A	Trufast FM-90 Base Sheet Fastener	FL4500	25-0129.08
	N/A	Trufast Twin Loc-Nail Assembled Fastener	FL4500	25-0129.08
INSULATIONS	N/A	ACFoam-II	FL17989	24-1120.02
	N/A	ENRGY 3	FL4205	24-0610.04
	N/A	Fesco Board	FL4205	24-0610.04
	N/A	H-Shield	FL5968	24-1021.04
	N/A	ISO 95+ GL	N/A	25-1023.17
	N/A	Multi-Max FA3	FL11207	22-0815.03
	N/A	DensDeck	FL1250	22-1223.04
	N/A	DensDeck Prime / DensDeck StormX Prime	FL1250	22-1223.04
	N/A	SECUROCK Gypsum-Fiber Roof Board	FL4264	25-1017.02
	N/A	DEXcell FA Glass Mat Roof Board	FL17840	25-0722.11
	N/A	STRUCTODEK High Density Fiberboard Roof Insulation	FL13792	23-0623.03
	N/A	Celcore Lightweight Insulating Concrete	FL2037	24-0906.02
	N/A	Concrecel Lightweight Insulating Concrete	FL10500	21-1229.06
	N/A	Mearlcrete Lightweight Insulating Concrete	FL13492	24-0514.06
	N/A	Elastizell Lightweight Insulating Concrete	FL4994	23-0817.05
VAPOR BARRIER	VaporSmart SA	N/A	FL47113	24-0222.08
PRIMER	SA Primer	N/A	N/A	N/A
SURFACING:	Energizer K Plus FR	N/A	FL2330	25-0613.05
	Garla-Brite	N/A	FL2330	25-0613.05
	WeatherScreen	N/A	FL2330	25-0613.05
	Black Knight Cold	N/A	N/A	25-0613.05
	Cool-Sil HB	N/A	N/A	23-0601.03
	Cool-Sil SG	N/A	N/A	23-0601.03
	Garla-Block 2K	N/A	N/A	25-0613.05
	Pyramic Plus LO	N/A	N/A	25-0613.05
	Pyramic	N/A	N/A	N/A
	Pyramic Base	N/A	N/A	N/A

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TABLE 2: COMPONENTS BY OTHERS (4.1.4) *(Refer to NOA if listed version was superseded to ensure use of latest version)*				
TYPE	GARLAND PRODUCT	ACCEPTABLE ALTERNATE	FBC	NOA
SURFACING:	Pyramic Plus LO Base Coat	N/A	N/A	N/A
	StrataMax Gray	N/A	N/A	N/A
	StrataMax White	N/A	N/A	N/A

3. INSTALLATION:

3.1 **Garland SBS Modified Bitumen Roof Systems** shall be installed in accordance with **The Garland Company, Inc.** published installation instructions, subject to the Limitations of Use noted herein.

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

TABLE 3: FASTENER REFERENCES		
ROOF DECK	PARTS	FASTENER ENGAGEMENT
WOOD, ENGINEERED SHEATHING OR PLANK	Trufast #14 HD with Trufast 3" Metal Insulation Plate	Min. 0.75-inch penetration (engineered sheathing) or min. 1-inch embedment (plank)
	OMG #14 Roofgrip with Accutrac Flat Bottom or OMG Heavy Duty with OMG 3 in. Galvalume Steel Plate	
	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8 or Dekfast PLT-R-3	
STEEL	Trufast #12 DP or HD with Trufast 3" Metal Insulation Plate	Min. 0.75-inch penetration
	OMG #12 Standard Roofgrip or #14 Roofgrip with Recessed or Accutrac Flat Bottom, OMG #12 Standard Hex Head or HD with OMG 3 in. Galvalume Steel Plate	
	Dekfast DF-#12-PH3 or #14 with Dekfast PLT-H-2-7/8 or Dekfast PLT-R-3	
STRUCTURAL CONCRETE	Trufast #14 HD or CF with Trufast 3" Metal Insulation Plate.	Non-HVHZ: Min. 1-inch embedment HVHZ: Min. 1.25-inch embedment
	OMG #14 Roofgrip with Recessed or Accutrac Flat Bottom, OMG Heavy Duty or CD-10 with OMG 3 in. Galvalume Steel Plate	
	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8 or Dekfast PLT-R-3	

3.1.2 Insulation:

(a) Unless otherwise noted, insulation may be any one layer or combination of Approved board(s) that meet IBC 1505, FBC 1505 or FBC HVHZ 1516 and, for foam plastic, IBC/FBC Chapter 26, when installed with the roof cover.

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

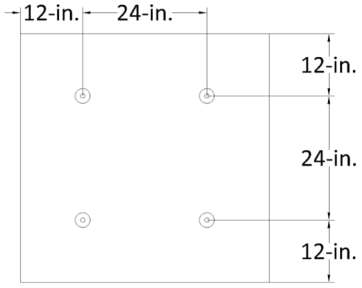
(c) Minimum 200 psi, minimum 2-inch thick Approved lightweight insulating concrete may be substituted for, or installed below, rigid insulation board for System Types B-1, C-1, C-2, D-1 or D-2, whereby fasteners are installed through the lightweight insulating concrete to engage the structural deck. The structural deck shall be of equal or greater type, thickness and strength to the steel and structural concrete deck listings. Roof decks and structural members shall be in accordance with 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.

(d) 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 Florida Product Approval or NOA for specific deck construction and limitations. Unless otherwise noted, for systems where specific LWIC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWIC over structural concrete, reference is made to FBC 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.

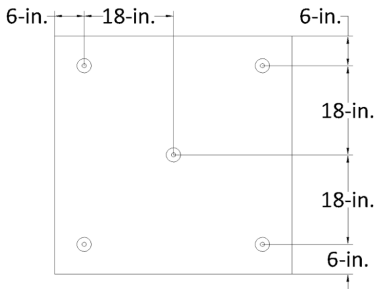
(e) Unless otherwise noted, rigid board insulation or coverboard attachment patterns for Type B-1, B-2 and C-1 systems are as outlined below.

TABLE 4A: INSULATION ATTACHMENT PATTERNS – 4X4 FT BOARDS

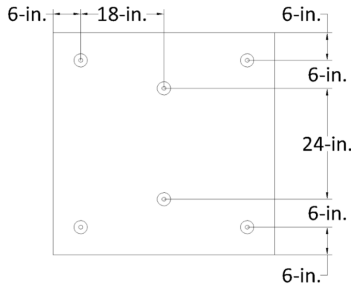
1 per 4.0 ft² (4 per board)



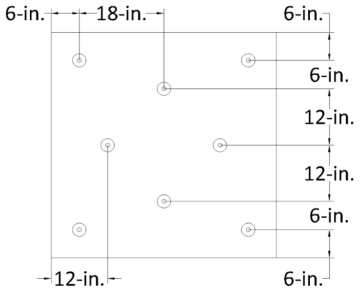
1 per 3.2 ft² (5 per board)



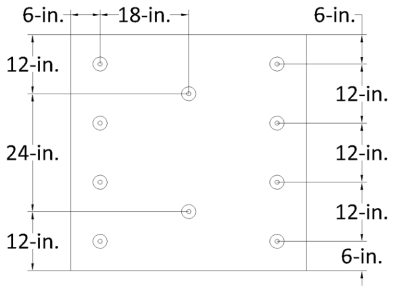
1 per 2.7 ft² (6 per board)



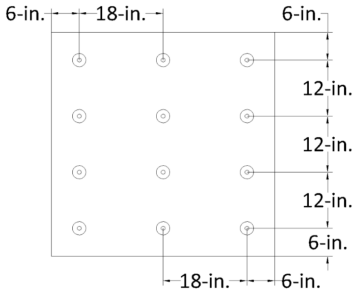
1 per 2.0 ft² (8 per board)



1 per 1.6 ft² (10 per board)



1 per 1.3 ft² (12 per board)



1 per 1.0 ft² (16 per board)

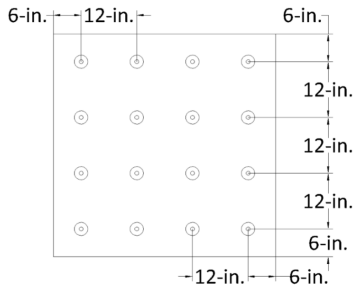
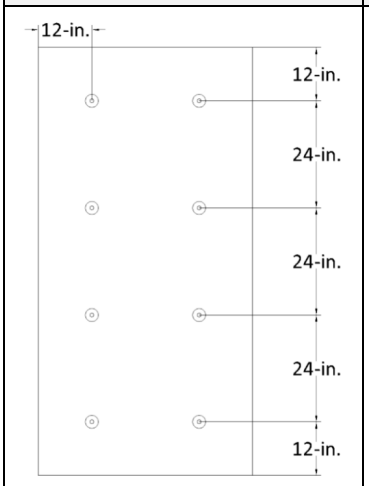
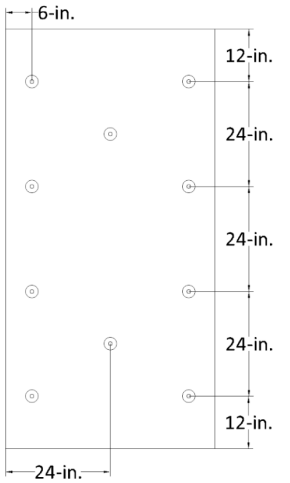
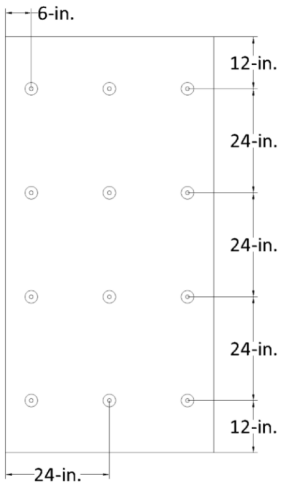
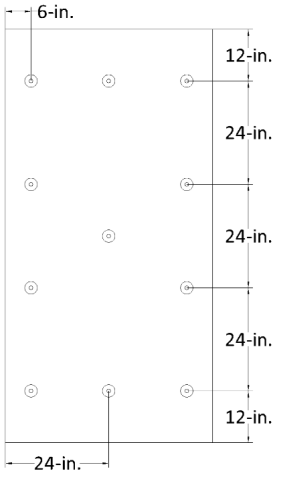
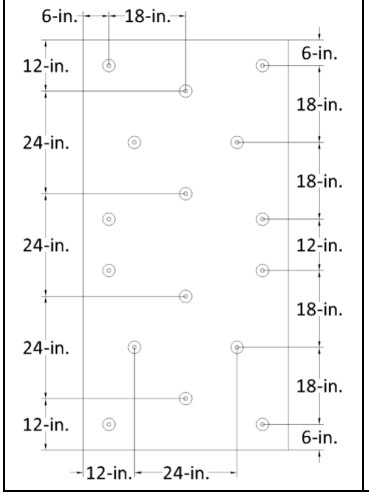
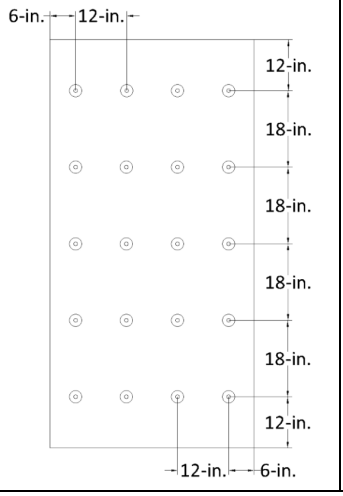
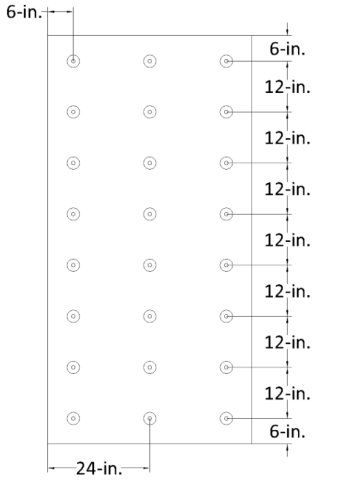
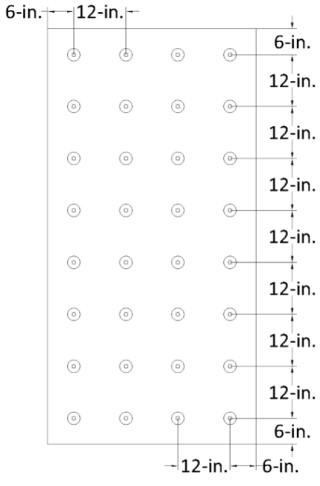


TABLE 4B: INSULATION ATTACHMENT PATTERNS – 4x8 FT BOARDS

1 per 4.0 ft² (8 per board)	1 per 3.2 ft² (10 per board)	1 per 2.7 ft² (12 per board)	1 per 2.9 ft² (11 per board)
			
1 per 2.0 ft² (16 per board)	**1 per 1.6 ft² (20 per board)**	**1 per 1.3 ft² (24 per board)**	**1 per 1.0 ft² (32 per board)**
			

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

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

3.1.3 Insulation Adhesives:

(a) Unless otherwise noted, insulation adhesive application rate is continuous ribbons, maximum 12-inch o.c. Ribbon or bead width is at the time of application; the ribbons/beads shall expand as noted in the manufacturer's published instructions. If applying hot asphalt to concrete deck, deck shall be primed with ASTM D41 primer. When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, board joints shall be staggered. The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing.

TABLE 5A: INSULATION ADHESIVE REFERENCES

BY	ADHESIVE	REFERENCE	RATE
The Garland Company	Insul-Lock HR	IL-HR	Continuous ¼ to ½-inch wide ribbons, 12-inch o.c.
Generic	Hot asphalt*		Full mopping, 25-30 lbs/square

** Note: Reference to Hot asphalt herein indicates permissible use of HPR All-Temp Asphalt or Garlastic KM Plus.*

(b) 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.

TABLE 5B: MDP LIMITATIONS FOR TAPERED POLYISOCYANURATE INSULATIONS

ADHESIVE	INSULATION	MIN. TAPERED THICKNESS (IN.)	MDP (PSF)
Insul-Lock HR (IL-HR)	Any polyisocyanurate listed with adhesive herein	1	-82.5
Hot asphalt	Any polyisocyanurate listed with adhesive herein	1	-157.5

(c) Adhered Insulation, Board Size:

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

3.1.4 Roof Covers:

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

TABLE 6: MEMBRANE / ADHESIVE COMBINATIONS

REFERENCE	LAYER	MATERIAL	APPLICATION
BP-AA	Base Ply:	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium	Hot asphalt, HPR All-Temp Asphalt or Garlastic KM Plus at 20-40 lbs/square
	Ply:	HPR Glasfelt, HPR Premium Glasfelt, HPR Polyscrim Plus	
BP-CA1	Base Ply:	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium	Weatherking or Weatherking Plus WC at 2.5 gal/square
	Ply:	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium	
SBS-AA	Base Ply:	StressBase 80, StressBase 80 Plus, StressBase 120, FlexBase 80, FlexBase Plus 80 or FlexBase E 80	Hot asphalt, HPR All-Temp Asphalt or Garlastic KM Plus at 20-40 lbs/square **StressPly Legacy or StressPly Legacy FR Mineral ONLY with Garlastic KM Plus.*
	Ply:	StressBase 80, StressBase 80 Plus, StressBase 120, FlexBase 80, FlexBase Plus 80 or FlexBase E 80	
	Cap Ply:	StressPly, StressPly FR Mineral, StressPly EUV, StressPly EUV FR Mineral, StressPly Legacy*, StressPly Legacy FR Mineral*, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80 or VersiPly Mineral, OptiMax or OptiMax FR Mineral.	
SBS-TA	Base Ply:	HPR Torch Base Sheet or UltraShield Torch Base Sheet	Torch-Applied
	Ply:	HPR Torch Base Sheet or UltraShield Torch Base Sheet	
	Cap Ply:	StressPly IV Plus, StressPly IV Plus UV Mineral or StressPly IV Plus Mineral	
SBS-CA1	Base Ply:	StressBase 80, StressBase 80 Plus, StressBase 120, FlexBase 80, FlexBase Plus 80 or FlexBase E 80	Weatherking or Weatherking Plus WC at 2.5 gal/square. **StressPly Max or StressPly Max FR Mineral ONLY with Weatherking.*
	Ply:	StressBase 80, StressBase 80 Plus, StressBase 120, FlexBase 80, FlexBase Plus 80 or FlexBase E 80	
	Cap Ply:	StressPly, StressPly FR Mineral, StressPly EUV, StressPly EUV FR Mineral, StressPly Legacy, StressPly Legacy FR Mineral, StressPly Plus, StressPly Plus FR Mineral, StressPly Max*, StressPly Max FR Mineral*, VersiPly 80 or VersiPly Mineral, OptiMax or OptiMax FR Mineral.	
SBS-CA3	Base Ply:	StressBase 80, StressBase 80 Plus, StressBase 120, FlexBase 80, FlexBase Plus 80 or FlexBase E 80	Green-Lock Plus Membrane Adhesive at 2 to 2.5 gal/square
	Cap Ply:	StressPly, StressPly FR Mineral, StressPly EUV, StressPly EUV FR Mineral, StressPly Legacy, StressPly Legacy FR Mineral, StressPly Plus, StressPly Plus FR Mineral, StressPly Max, StressPly Max FR Mineral, VersiPly 80 or VersiPly Mineral, OptiMax or OptiMax FR Mineral	
SBS-SA	Base Ply:	HPR SA FR Base Sheet	Self-Adhering
	Ply:	HPR SA FR Base Sheet	
	Cap Ply:	StressPly SA FR Mineral	

(b) The following surfacing may be applied to the Cap Ply without adverse effect on the system wind load performance. Refer to Section 4.1.4 herein.

TABLE 7: SURFACING OPTIONS

OPTION #	SURFACING
SURF-1.	One coat of Black Knight Cold applied at 5 lb./sq. with roofing gravel applied at 400 lb./sq.

TABLE 7: SURFACING OPTIONS	
OPTION #	SURFACING
SURF-2.	One coat of Green-Lock Plus Membrane Adhesive applied at 4 to 5 gal./sq. with roofing gravel at 400 lb./sq.
SURF-3.	One coat of WeatherScreen applied at 4 to 5 gal./sq. with roofing gravel applied at 400 lb./sq.
SURF-4.	One coat of Garla-Block 2K applied at a rate of 0.5 gal./sq. allowed to dry. Two coats of Cool-Sil HB applied at a rate of 2.0 gal./sq. for both coats.
SURF-5.	One coat of Garla-Block 2K applied at a rate of 0.5 gal./sq. allowed to dry. Two coats of Cool-Sil SG applied at a rate of 2.0 gal./sq. for both coats
SURF-6.	Two coats of Garla-Brite applied at min. 0.5 gal./sq. per application
SURF-7.	Two coats of Pyramic or Pyramic Plus LO or Pyramic Plus LO Base Coat applied at 1.0 gal./sq. per application.
SURF-8.	One coat of Pyramic Base applied at 1 gal./sq. followed by one coat of Pyramic applied at 1 gal./sq.
SURF-9.	One coat of Pyramic Base applied at 1 gal./sq. followed by one coat of Pyramic Plus LO applied at 1 gal./sq.
SURF-10.	Two coats of StrataMax Gray or StrataMax White applied at 1.0 gal./sq. per application.

3.1.5 Vapor Barriers:

(a) For System Types B-1, B-2, C-1, C-2, D-1 or D-2, an optional thermal barrier and/or vapor barrier membrane may be installed atop the roof deck prior to installation of the insulation and roof cover. Refer to FM Loss Prevention Data Sheet 1-29 for design and installation recommendations and limitations.

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

4. LIMITATIONS OF USE:

4.1 General:

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

4.1.2 Roof Decks:

(a) This NER pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.

(b) OSB sheathing is not permitted in FBC HVHZ jurisdictions.

(c) Unless otherwise noted, reference to 'structural concrete' pertains to min. 2,500 psi structural concrete, and excludes 'structural lightweight concrete'.

(d) The table below lists various 'as-tested' deck conditions in accordance with Testing Application Standard TAS 114(J). Steel deck stress analysis is the responsibility of others to the satisfaction of the Authority Having Jurisdiction.

TABLE 7: AS-TESTED DECK ATTACHMENT DETAILS (TAS 114, APPENDIX J)				
TYPE	AS TESTED SUB-ASSEMBLY			
	SPAN (INCH O.C.)	FASTENER	SPACING (INCH O.C.)	MDP (PSF)
Min. 19/32-inch plywood	24	#8 wood screws	6	-150.0
Min. 22 ga. type B, Grade 33 steel	60	5/8" puddle weld	6	-90.0
	72	5/8" puddle weld	6	-45.0
	72	Traxx/5 fasteners	6	-150.0
Min. 22 ga., type B, Grade 40 steel	72	#12 HWH Teks 5 screws	6	-82.5
Min. 22 ga., type B, Grade 50 steel	72	#12 HWH Teks 5 screws	6	-90.0

4.1.3 Fire Classification:

(a) Refer to **IBC 1505, FBC 1505, FBC HVHZ 1516, UL TGFU. R8384, InterTek Directory of Building Products** and the fire classification certificate for the roof cover manufacturer for requirements and limitations regarding roof assembly fire classification.

(b) Refer to **IBC / FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.

4.1.4 Quality Assurance:

All components in the roof assembly shall have quality assurance surveillance. For Florida Product Approval, this shall be in accordance with **F.A.C. Rule 61G20-3**. For components listed herein that are produced by a manufacturer other than the report holder on Page 1 of this NER, refer to the Florida Product Approval of the component manufacturer.

4.2 **Jurisdiction Specific:**

	IBC and FBC NON-HVHZ	FBC HVHZ
4.2.1	This NER does not include evaluation of roof edge termination. Refer to **IBC 1504.6 or FBC 1504.5** for requirements and limitations regarding edge securement for low-slope roofs.	This NER does not include evaluation of roof edge termination. Refer to **RAS 111** for requirements and limitations regarding edge securement for low-slope roofs.
4.2.2	Refer to **IBC 1512 or FBC 1511** for requirements and limitations regarding recover installations.	Refer to **FBC HVHZ 1521** for requirements and limitations regarding recover installations.
	(a) For mechanical attachment to existing roof decks, fasteners shall be tested for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing shall be in accordance with **ANSI/SPRI FX-1** or **TAS 105**.	For mechanical attachment to existing roof decks, fasteners shall be tested for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing shall be in accordance with **TAS 105**.
	(b) For adhered re-roof (tear off) installation, the existing substrate shall be examined for compatibility with the adhesive. If any surface conditions exist that bring system performance into question, field uplift testing in accordance with **ANSI/SPRI IA-1**, **FM Loss Prevention Data Sheet 1-52** or **TAS 124** shall be conducted on mock-ups of the proposed interface.	For adhered re-roof (tear off) installation, the existing substrate shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance with **TAS 124** shall be conducted on mock-ups of the proposed interface.
	(c) For adhered recover installation, the existing roof system shall meet project design pressure requirements on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with **FM Loss Prevention Data Sheet 1-52** or **TAS 124**.	For adhered recover installation, the existing roof system shall meet project design pressure requirements on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with **TAS 124**.
4.2.3	Wind Load Resistance:	
	(a) Refer to Section 4.3 for a tabulated summary of assembly listings and maximum allowable design pressures.	
	(b) "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per **FBC 1504.9** has already been applied). Refer to **IBC / FBC 1609** for determination of design wind loads.	"MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per **TAS 114** has already been applied). Refer to **FBC HVHZ 1620** or **RAS 128** for determination of design wind loads.
	(c) The MDP for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with **IBC / FBC Chapter 16**. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are **ANSI/SPRI WD1**, **FM Loss Prevention Data Sheet 1-29**, **RAS 117** and **RAS137**. Assemblies marked with an asterisk* carry the limitations set forth in **Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29** for Zone 2/3 enhancements.	Assemblies having a MDP < 45.0 psf are not permitted in FBC HVHZ jurisdictions. The MDP for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with **FBC HVHZ 1620** or **RAS 128**. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Analysis shall be in accordance with **RAS 117** or **RAS137**.
	(d) For fully-adhered installations, the maximum design pressure for the selected assembly shall meet or exceed the critical design pressure. Rational analysis is not permitted.	For assemblies marked with an asterisk*, the maximum design pressure (MDP) limitation shall be applicable to all roof pressure zones. Rational analysis is not permitted.

4.3 System Listings and Allowable Design Pressures: See Section 4.2.3

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

(a) Steel Decks:

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

OPTION #	DECK (4.1.2)	THERMAL BARRIER			PRIMER	VAPOR BARRIER (3.1.4)		ADHESIVE PER TABLE 9A (3.1.3)	MDP (PSF)
		TYPE	FASTENER (4.2.2) OR ADHESIVE (3.1.3)	ATTACH (3.1.2)		TYPE	APPLICATION		
S-TB/VB-1.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime or min. 0.625-inch DensDeck StormX Prime	OMG #12 Standard Roofgrip with OMG 3 in. Ribbed Galvalume Plate (Flat)	1 per 4.0 ft^2	SA Primer	VaporSmart SA	self-adhering	IL-HR	-30.0*
S-TB/VB-2.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	OMG #12 Standard Roofgrip with OMG 3 in. Ribbed Galvalume Plate (Flat)	1 per 4.0 ft^2	SA Primer	VaporSmart SA	self-adhering	IL-HR	-45.0*

(c) Structural Concrete Decks:

TABLE VB-2: STRUCTURAL CONCRETE DECK
THERMAL BARRIER / VAPOR BARRIER FOLLOWED BY ADHERED INSULATION

OPTION #	DECK (4.1.2)	THERMAL BARRIER			PRIMER	VAPOR BARRIER (3.1.4)		ADHESIVE PER TABLE 10A (3.1.3)	MDP (PSF)
		TYPE	FASTENER (4.2.2) OR ADHESIVE (3.1.3)	ATTACH (3.1.2)		TYPE	APPLICATION		
C-VB-1.	Structural concrete	None	N/A	N/A	SA Primer	VaporSmart SA	self-adhering	IL-HR	-67.5
C-VB-2.	Structural concrete	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime or min. 0.625-inch DensDeck StormX Prime	IL-HR	12-inch o.c.	SA Primer	VaporSmart SA	self-adhering	IL-HR	-82.5

4.3.2 Roof Assemblies:

ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
8A	Wood	New or Reroof (Tear-Off)	B-3	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	13
8B	Wood	New, Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	13
8C	Wood	New, Reroof (Tear-Off) or Recover	C-1	Mech. Attached Insulation, Bonded Roof Cover	13
8D	Wood	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	14
8E	Wood	New, Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	15
9A	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	15
9B	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	C-1	Mech. Attached Insulation, Bonded Roof Cover	18
9C	Steel or Structural Concrete	New, Reroof (Tear-Off) or Recover	D-2	Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	20
10A	Structural Concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	20
10B	Structural Concrete	New or Reroof (Tear-Off)	A-1	Bonded Temp Roof, Bonded Insulation, Bonded Roof Cover	23
10C	Structural Concrete	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	24
11A	Lightweight Concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	24
11B	Lightweight Concrete	Reroof (Tear-Off)	B-3	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	25
11C	Lightweight Concrete	New or Reroof (Tear-Off)	E-2	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	25
12A	Cementitious Wood Fiber	Reroof (Tear-Off) or Recover	B-3	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	30
12B	Cementitious Wood Fiber	Reroof (Tear-Off) or Recover	C-1	Mech. Attached Insulation, Bonded Roof Cover	31
12C	Cementitious Wood Fiber	Reroof (Tear-Off) or Recover	E-2	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	31
13A	Existing Gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	32
13B	Existing Gypsum	Reroof (Tear-Off)	B-3	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	33
13C	Existing Gypsum	Reroof (Tear-Off)	C-1	Mech. Attached Insulation, Bonded Roof Cover	34
13D	Existing Gypsum	Reroof (Tear-Off)	E-2	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	34
14A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	35

TABLE 8A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (4.1.2)	Anchor Sheet			Insulation			Roof Cover (3.1.4)			MDP (psf)
		Type	Fasteners (4.2.2)	Attach	Base	Top	Attach (3.1.3)	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:											
W-1	Min. 19/32-inch plywood at max. 24-inch spans	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium	Section 3.1.1	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch ACFoam-II, ISO 95+ GL or ENRGY 3	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	Hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-60.0
COLD-APPLIED SYSTEMS:											
W-2	Min. 19/32-inch plywood	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium	Section 3.1.1	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	Min. 1.5-inch ACFoam-II, ISO 95+ GL or ENRGY 3	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck or DensDeck Prime	Hot asphalt	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-45.0*

TABLE 8B: 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 (4.1.2)	Base Insulation Layer			Top Insulation Layer		Roof Cover (3.1.4)			MDP (psf)
		Type	Fasteners (4.2.2)	ATTACH (3.1.2)	Type	Attach (3.1.3)	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:										
W-3	Min. 23/32-inch plywood	Min. 1.8-inch ACFoam-II, ISO 95+ GL or ENRGY 3	Section 3.1.1	1 per 2.9 ft^2	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	Hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA	-45.0*
COLD APPLIED SYSTEMS:										
W-4	Min. 23/32-inch plywood	Min. 2-inch ACFoam-II, ISO 95+ GL or ENRGY 3	Section 3.1.1	1 per 2.0 ft^2	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	hot asphalt or IL-HR	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-45.0*
W-5	Min. 19/32-inch plywood	Min. 1.8-inch ACFoam-II, ISO 95+ GL or ENRGY 3	Section 3.1.1	1 per 2.9 ft^2	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck or DensDeck Prime	Hot asphalt	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-45.0*

TABLE 8C: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (4.1.2)	Base Insulation Layer (4.2.2)	Top Insulation Layer			Roof Cover (3.1.4)			MDP (psf)
			Type	Fasteners (4.2.2)	ATTACH (3.1.2)	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:									
W-6	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck or DensDeck Prime	Section 3.1.1	1 per 2.7 ft^2	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-45.0*
W-7	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck or DensDeck Prime	Section 3.1.1	1 per 2.9 ft^2	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-45.0*

TABLE 8C: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER									
System No.	Deck (4.1.2)	Base Insulation Layer (4.2.2)	Top Insulation Layer			Roof Cover (3.1.4)			MDP (psf)
			Type	Fasteners (4.2.2)	ATTACH (3.1.2)	Base	Ply	Cap	
COLD APPLIED SYSTEMS:									
W-8	Min. 23/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ACFoam-II, ISO 95+ GL or ENRGY 3	Section 3.1.1	1 per 2.0 ft²	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-45.0*
W-9	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation or min. 0.25-inch DensDeck or DensDeck Prime	Section 3.1.1	1 per 2.9 ft²	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-45.0*
W-10	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board	Trufast #15 EHD with Trufast 3" Metal Insulation Plate, Dekfast DF-#15-PH3 with Dekfast PLT-R-3	1 per 1.0 ft²	SBS-CA3	(Optional) SBS-CA3	SBS-CA3	-150.0
W-11	Min. 19/32-inch plywood	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Dekfast DF-#15-PH3 with Dekfast PLT-R-3 or OMG XHD with OMG 3 in. Ribbed Galv. Steel Plate (Flat)	1 per 1.0 ft²	SBS-CA3	(Optional) SBS-CA3	SBS-CA3	-150.0

TABLE 8D: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER									
System No.	Deck (4.1.2)	Insulation Layer(s) (4.2.2)		Base Sheet			Roof Cover (3.1.4)		MDP (psf)
		Type	Attach (3.1.2.F)	Base	Fasteners (4.2.2)	Attach	Ply	Cap	
CONVENTIONAL SYSTEMS:									
W-12	Min. 19/32-inch plywood at max. 24-inch spans	One or more layers, any combination	Prelim. Attached	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium	Section 3.1.1	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA or SBS-TA	-60.0
W-13	Min. 19/32-inch plywood at max. 24-inch spans	One or more layers, any combination	Prelim. Attached	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium	Section 3.1.1	6-inch o.c. at the 4-inch lap and 6-inch o.c. in three, equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA or SBS-TA	-135.0
COLD-APPLIED SYSTEMS:									
W-14	Min. 19/32-inch plywood	One or more layers, any combination	Prelim. Attached	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium	Section 3.1.1	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	BP-CA1 or SBS-CA1	SBS-CA1	-45.0*

TABLE 8E: 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 (4.1.2)	Base Sheet			Roof Cover (3.1.4)		MDP (psf)
		Base	Fasteners (4.2.2)	Attach	Ply	Cap	
CONVENTIONAL SYSTEMS:							
W-15	Min. 19/32-inch plywood at max. 24-inch spans	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium	Section 3.1.1	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA or SBS-TA	-60.0
W-16	Min. 19/32-inch plywood at max. 24-inch spans	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium	Section 3.1.1	6-inch o.c. at the 4-inch lap and 6-inch o.c. in three, equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA or SBS-TA	-135.0
COLD-APPLIED SYSTEMS:							
W-17	Min. 19/32-inch plywood	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium	Section 3.1.1	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two, equally spaced, staggered center rows	BP-CA1 or SBS-CA1	SBS-CA1	-45.0*

TABLE 9A: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER										
System No.	Deck (4.1.2)	Base Insulation Layer			Top Insulation Layer		Roof Cover (3.1.4)			MDP (psf)
		Type	Fasteners (4.2.2)	Attach (3.1.2)	Type	Attach (3.1.3)	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:										
S-1	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2-inch ACFoam-II, ENRGY 3 or H-Shield	Section 3.1.1	1 per 4.0 ft²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-37.5* (NO HVHZ)
S-2	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.8-inch ACFoam-II, ISO 95+ GL or ENRGY 3	Section 3.1.1	1 per 2.9 ft²	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	Hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA	-45.0*
S-3	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ACFoam-II, ENRGY 3 or H-Shield	Section 3.1.1	1 per 2.0 ft²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-45.0*
S-4	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2-inch ACFoam-II, ENRGY 3 or H-Shield	Section 3.1.1	1 per 1.6 ft²	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-60.0
S-5	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ACFoam-II	OMG Heavy Duty with OMG 3 in. Galv. Steel Plate	1 per 1.3 ft²	Min. 0.5-inch GP High Density Roof Fiberboard or STRUCTODEK High Density Fiberboard Roof Insulation	Hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-82.5
S-6	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ACFoam-II	OMG Heavy Duty with OMG 3 in. Galv. Steel Plate	1 per 1.3 ft²	Min. 0.25-inch DensDeck or DensDeck Prime	Hot asphalt	SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-82.5
S-7	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2.0-inch ACFoam-II, H-Shield or ENRGY 3	Section 3.1.1	1 per 1.0 ft²	Min. 0.25-inch DensDeck Prime	Hot asphalt	SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-142.5
COLD APPLIED SYSTEMS - WEATHERKING:										
S-8	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2-inch ACFoam-II, ISO 95+ GL or ENRGY 3	Section 3.1.1	1 per 2.0 ft²	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	Hot asphalt or IL-HR	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-45.0*

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

System No.	Deck (4.1.2)	Base Insulation Layer			Top Insulation Layer		Roof Cover (3.1.4)			MDP (psf)
		Type	Fasteners (4.2.2)	Attach (3.1.2)	Type	Attach (3.1.3)	Base	Ply	Cap	
S-9	Min. 22 ga., type B, Grade 40 steel	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Trufast #15 EHD with Trufast 3" Metal Insulation Plate, OMG XHD with OMG 3 in. Galvalume Steel Plate or Dekfast DF-#15-PH3 with Dekfast PLT-H-2-7/8	1 per 2.0 ft²	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IL-HR	SBS-CA1	None	SBS-CA1	-45.0
S-10	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Trufast #15 EHD with Trufast 3" Metal Insulation Plate, OMG XHD with OMG 3 in. Galvalume Steel Plate or OMG 3 in. Ribbed Galvalume Plate (Flat) or Dekfast DF-#15-PH3 with Dekfast PLT-H-2-7/8	1 per 2.0 ft²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR, 8-inch o.c.	SBS-CA1	None	SBS-CA1	-82.5
S-11	Min. 22 ga., type B, Grade 40 steel	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Trufast #15 EHD with Trufast 3" Metal Insulation Plate, OMG XHD with OMG 3 in. Galvalume Steel Plate or Dekfast DF-#15-PH3 with Dekfast PLT-H-2-7/8	1 per 1.3 ft²	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IL-HR, 6-inch o.c.	SBS-CA1	None	SBS-CA1	-82.5
S-12	Min. 22 ga., type B, Grade 50 steel or structural concrete	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Trufast #15 EHD with Trufast 3" Metal Insulation Plate, OMG XHD with OMG 3 in. Galvalume Steel Plate or OMG 3 in. Ribbed Galvalume Plate (Flat) or Dekfast DF-#15-PH3 with Dekfast PLT-H-2-7/8	1 per 2.0 ft²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR, 8-inch o.c.	SBS-CA1	None	SBS-CA1	-90.0
S-13	Min. 22 ga., type B, Grade 40 steel	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Trufast #15 EHD with Trufast 3" Metal Insulation Plate, OMG XHD with OMG 3 in. Galvalume Steel Plate or Dekfast DF-#15-PH3 with Dekfast PLT-H-2-7/8	1 per 1.0 ft²	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IL-HR, 6-inch o.c.	SBS-CA1	None	SBS-CA1	-112.5
COLD APPLIED SYSTEMS – GREEN-LOCK PLUS:										
S-14	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2-inch ACFoam-II, ISO 95+ GL or ENRGY 3	Section 3.1.1	1 per 2.0 ft²	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	Hot asphalt or IL-HR	SBS-CA3	None	SBS-CA3	-45.0*
S-15	Min. 22 ga., type B, Grade 40 steel	Min. 1.5-inch H-Shield	Section 3.1.1	1 per 1.3 ft²	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation with red coating	IL-HR	SBS-CA3	None	SBS-CA3	-45.0

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TABLE 9A: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER										
System No.	Deck (4.1.2)	Base Insulation Layer			Top Insulation Layer		Roof Cover (3.1.4)			MDP (psf)
		Type	Fasteners (4.2.2)	Attach (3.1.2)	Type	Attach (3.1.3)	Base	Ply	Cap	
S-16	Min. 22 ga., type B, Grade 40 steel	Min. 1.5-inch H-Shield	OMG XHD with OMG 3 in. Ribbed Galv. Steel Plate (Flat)	1 per 2.0 ft^2	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR	SBS-CA3	None	SBS-CA3	-45.0
S-17	Min. 22 ga., type B, Grade 40 steel	Min. 1.5-inch H-Shield	OMG XHD with OMG 3 in. Ribbed Galv. Steel Plate (Flat)	1 per 1.0 ft^2	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR	SBS-CA3	None	SBS-CA3	-67.5
S-18	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Trufast #15 EHD with Trufast 3" Metal Insulation Plate, OMG XHD with OMG 3 in. Galvalume Steel Plate or Dekfast DF-#15-PH3 with Dekfast PLT-H-2-7/8	1 per 2.0 ft^2	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR, 8-inch o.c.	SBS-CA3	None	SBS-CA3	-82.5
S-19	Min. 22 ga., type B, Grade 40 steel	Min. 1.5-inch ENRGY 3, ACFoam-II, Multi-Max FA3 or ISO 95+ GL	Trufast #15 EHD with Trufast 3" Metal Insulation Plate	1 per 1.3 ft^2	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board	IL-HR, 6-inch o.c.	SBS-CA3	None	SBS-CA3	-82.5
S-20	Min. 22 ga., type B, Grade 50 steel or structural concrete	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Trufast #15 EHD with Trufast 3" Metal Insulation Plate, OMG XHD with OMG 3 in. Galvalume Steel Plate or Dekfast DF-#15-PH3 with Dekfast PLT-H-2-7/8	1 per 2.0 ft^2	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR, 8-inch o.c.	SBS-CA3	None	SBS-CA3	-90.0
S-21	Min. 22 ga., type B, Grade 40 steel	Min. 1.5-inch ACFoam II, ENRGY 3 or H-Shield	Trufast #15 EHD with Trufast 3" Metal Insulation Plate, OMG XHD with OMG 3 in. Galvalume Steel Plate or Dekfast DF-#15-PH3 with Dekfast PLT-H-2-7/8	1 per 1.0 ft^2	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IL-HR, 6-inch o.c.	SBS-CA3	None	SBS-CA3	-112.5
SELF-ADHERING SYSTEMS:										
S-22	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2-inch ACFoam-II, ENRGY 3 or H-Shield	Section 3.1.1	1 per 4.0 ft^2	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with ASTM D41	Hot asphalt or IL-HR	SBS-SA	(Optional) SBS-SA	SBS-SA	-37.5* (NO HVHZ)
S-23	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch ACFoam-II, ENRGY 3 or H-Shield	Section 3.1.1	1 per 2.0 ft^2	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with ASTM D41 primer	Hot asphalt or IL-HR	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*
S-24	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 1.5-inch, max. 4 x 4 ft ENRGY 3	OMG Heavy Duty with OMG 3 in. Galv. Steel Plate	1 per 1.6 ft^2	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board primed with ASTM D41 primer	IL-HR	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0

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

System No.	Deck (4.1.2)	Base Insulation Layer (4.2.2)	Top Insulation Layer			Roof Cover (3.1.4)			MDP (psf)
			Type	Fasteners (4.2.2)	Attach (3.1.2)	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:									
S-25	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	OMG #12 Standard Hex Head or OMG Heavy Duty with OMG 3 in. Galv Steel	1 per 3.2 ft²	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-30.0* (NO HVHZ)
S-26	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, min. 1.5-inch, any combination, loose laid	Min. 1.5-inch JM Fesco Board (homogeneous)	Section 3.1.1	1 per 2.7 ft²	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-45.0*
S-27	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	Section 3.1.1	1 per 2.7 ft²	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-45.0*
S-28	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	Section 3.1.1	1 per 2.9 ft²	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-45.0*
S-29	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck or DensDeck Prime	Section 3.1.1	1 per 2.9 ft²	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-45.0*
S-30	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1-inch STRUCTODEK High Density Fiberboard Roof Insulation	Section 3.1.1	1 per 2.0 ft²	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-60.0
S-31	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Section 3.1.1	1 per 1.3 ft²	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-75.0
S-32	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.3 ft²	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA	-112.5
S-33	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board; Note: coverboard & plates primed with D41 primer	OMG XHD with OMG 3 in. Galvalume Steel Plate	1 per 1.0 ft²	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA	-127.5
S-34	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Section 3.1.1	1 per 1.0 ft²	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-150.0
S-35	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.0 ft²	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA	-157.5
S-36	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.0 ft²	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA	-172.5
COLD APPLIED SYSTEMS - WEATHERKING:									
S-37	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	Section 3.1.1	1 per 2.7 ft²	SBS-CA1	None	SBS-CA1	-37.5* (NO HVHZ)
S-38	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ACFoam-II, ISO 95+ GL or ENRGY 3	Section 3.1.1	1 per 2.0 ft²	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-45.0*
S-39	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	Section 3.1.1	1 per 2.7 ft²	SBS-CA1	(Optional) SBS-CA1	SBS-CA1	-45.0*

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

System No.	Deck (4.1.2)	Base Insulation Layer (4.2.2)	Top Insulation Layer			Roof Cover (3.1.4)			MDP (psf)
			Type	Fasteners (4.2.2)	Attach (3.1.2)	Base	Ply	Cap	
S-40	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation, DensDeck or DensDeck Prime	Section 3.1.1	1 per 2.9 ft²	SBS-CA1	(Optional) SBS-CA1	SBS-CA1	-45.0*
S-41	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #15 EHD with Trufast 3" Metal Insulation Plate, OMG XHD with OMG 3 in. Galvalume Steel Plate or OMG 3 in. Ribbed Galvalume Plate (Flat)	1 per 1.3 ft²	SBS-CA1	(Optional) SBS-CA1	SBS-CA1	-45.0
COLD APPLIED SYSTEMS – GREEN-LOCK PLUS:									
S-42	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	Section 3.1.1	1 per 2.7 ft²	SBS-CA3	None	SBS-CA3	-37.5* (NO HVHZ)
S-43	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ACFoam-II	OMG #12 Standard Hex Head or OMG Heavy Duty with OMG 3 in. Galv. Steel	1 per 2.0 ft²	SBS-CA3	None	SBS-CA3	-45.0*
S-44	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck or SECUROCK Gypsum-Fiber Roof Board	Section 3.1.1	1 per 2.7 ft²	SBS-CA3	None	SBS-CA3	-45.0*
S-45	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation or DensDeck Prime	Section 3.1.1	1 per 2.0 ft²	SBS-CA3	None	SBS-CA3	-45.0*
S-46	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #15 EHD with Trufast 3" Metal Insulation Plate, OMG XHD with OMG 3 in. Galvalume Steel Plate or OMG 3 in. Ribbed Galvalume Plate (Flat)	1 per 1.3 ft²	SBS-CA3	None	SBS-CA3	-67.5
S-47	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Section 3.1.1	1 per 1.3 ft²	SBS-CA3	None	SBS-CA3	-75.0
S-48	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Section 3.1.1	1 per 1.0 ft²	SBS-CA3	(Optional) SBS-CA3	SBS-CA3	-150.0
S-49	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch DensDeck Prime or DEXcell FA Glass Mat Roof Board	Trufast #15 EHD with Trufast 3" Metal Insulation Plate	1 per 1.0 ft²	SBS-CA3	(Optional) SBS-CA3	SBS-CA3	-150.0
S-50	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch DensDeck Prime	Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.0 ft²	SBS-CA3	(Optional) SBS-CA3	SBS-CA3	-157.5
S-51	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 1.0 ft²	SBS-CA3	None	SBS-CA3	-172.5
SELF-ADHERING SYSTEMS:									
S-52	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or DensDeck Prime primed with ASTM D41	Section 3.1.1	1 per 2.7 ft²	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*

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TABLE 9B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER										
System No.	Deck (4.1.2)	Base Insulation Layer (4.2.2)	Top Insulation Layer			Roof Cover (3.1.4)			MDP (psf)
			Type	Fasteners (4.2.2)	Attach (3.1.2)	Base	Ply	Cap	
S-53	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board primed with ASTM D41	OMG Heavy Duty with OMG 3 in. Galvalume Steel Plate	1 per 1.6 ft²	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
S-54	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with ASTM D41	OMG XHD with OMG 3 in. Galvalume Steel Plate	1 per 1.0 ft²	SBS-SA	(Optional) SBS-SA	SBS-SA	-90.0

TABLE 9C: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER										
System No.	Deck (4.1.2)	Insulation Layer(s) (4.2.2)		Base Sheet			Roof Cover (3.1.4)		MDP (psf)
		Type	Attach (3.1.2.F)	Type	Fasteners (4.2.2)	Attach	Ply	Cap	
S-55	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, any combination	Prelim. Attached	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium	OMG Accutrac Plate	12-inch o.c. at the 4-inch laps and 12-inch o.c. at two equally spaced, staggered center rows	BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-60.0
S-56	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, any combination	Prelim. Attached	HPR Tri-Base Premium	OMG #15 Roofgrip Large Head with Accutrac Flat Bottom	12-inch o.c. at the 4-inch laps and 18-inch o.c. at two equally spaced, staggered center rows	BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-112.5
S-57	Min. 22 ga., type B, Grade 33 steel or structural concrete	One or more layers, any combination	Prelim. Attached	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium	Section 3.1.1	6-inch o.c. at the 4-inch laps and 6-inch o.c. at three equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA or SBS-TA	-135.0

TABLE 10A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER REFER TO TABLE VB-2 FOR VAPOR BARRIER OPTIONS											
System No.	Deck (4.1.2)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (3.1.4)			MDP (psf)
			Type	Attach (3.1.3)	Type	Attach (3.1.3)	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:										
C-1	Structural concrete	ASTM D41	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	Hot asphalt	Min. 0.75-inch JM Fesco Board (homogeneous)	Hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA or SBS-TA	-157.5
C-2	Structural concrete	ASTM D41	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	Hot asphalt	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	Hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA or SBS-TA	-157.5
C-3	Structural concrete	ASTM D41	Min. 1.5-inch ACFoam-II, H-Shield, Multi-Max FA3	Hot asphalt	Min. 0.25-inch DensDeck or DensDeck Prime	Hot asphalt	SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-157.5
C-4	Structural concrete	ASTM D41	Min. 1.5-inch ENRGY 3	Hot asphalt	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	Hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-237.5

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

System No.	Deck (4.1.2)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (3.1.4)			MDP (psf)
			Type	Attach (3.1.3)	Type	Attach (3.1.3)	Base	Ply	Cap	
C-5	Structural concrete	ASTM D41	Min. 1.5-inch ENRGY 3	Hot asphalt	Min. 0.25-inch DensDeck or DensDeck Prime	Hot asphalt	SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-237.5
C-6	Structural concrete	ASTM D41	Min. 1.5-inch ACFoam-II	Hot asphalt	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	Hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-322.5
C-7	Structural concrete	ASTM D41	Min. 1.5-inch H-Shield	Hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-375.0
C-8	Structural concrete	None	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3, ISO 95+ GL or Multi-Max FA3	IL-HR	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	IL-HR	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA or SBS-TA	-127.5
C-9	Structural concrete	None	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3, ISO 95+ GL or Multi-Max FA3	IL-HR	Min. 0.25-inch DensDeck	IL-HR	SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-232.5
C-10	Structural concrete	None	Min. 2-inch ACFoam-II, H-Shield, ISO 95+ GL or ENRGY 3	IL-HR	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-247.5
C-11	Structural concrete	None	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3, ISO 95+ GL or Multi-Max FA3	IL-HR	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR	SBS-AA	(Optional) SBS-AA	SBS-AA	-275.0
C-12	Structural concrete	None	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3, ISO 95+ GL or Multi-Max FA3	IL-HR, 6-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR, 6-inch o.c.	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-290.0
C-13	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR, 3-inch o.c.	None	N/A	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-452.5
COLD APPLIED SYSTEMS - WEATHERKING:										
C-14	Structural concrete	ASTM D41	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	Hot asphalt	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	Hot asphalt	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-142.5
C-15	Structural concrete	ASTM D41	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	Hot asphalt	Min. 0.25-inch DensDeck	Hot asphalt	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-142.5
C-16	Structural concrete	None	(Optional) Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3, ISO 95+ GL or Multi-Max FA3	IL-HR	Min. 0.25-inch DensDeck Prime, DEXcell FA Glass Mat Roof Board or SECUROCK Gypsum-Fiber Roof Board	IL-HR	SBS-CA1	SBS-CA1	SBS-CA1	-92.5
C-17	Structural concrete	None	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3, ISO 95+ GL or Multi-Max FA3	IL-HR	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	IL-HR	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-127.5
C-18	Structural concrete	None	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3, ISO 95+ GL or Multi-Max FA3	IL-HR	Min. 0.25-inch DensDeck	IL-HR	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-142.5
C-19	Structural concrete	None	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3, ISO 95+ GL or Multi-Max FA3	IL-HR, 6-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	IL-HR, 6-inch o.c.	SBS-CA1	None	SBS-CA1	-257.5

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

System No.	Deck (4.1.2)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (3.1.4)			MDP (psf)
			Type	Attach (3.1.3)	Type	Attach (3.1.3)	Base	Ply	Cap	
C-20	Structural concrete	None	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3, ISO 95+ GL or Multi-Max FA3	IL-HR	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR	SBS-CA1	None	SBS-CA1	-275.0
C-21	Structural concrete	None	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3, ISO 95+ GL or Multi-Max FA3	IL-HR, 6-inch o.c.	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IL-HR, 6-inch o.c.	SBS-CA1	None	SBS-CA1	-290.0
C-22	Structural concrete	None	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IL-HR, 6-inch o.c.	None	N/A	SBS-CA1	None	SBS-CA1	-420.0
COLD APPLIED SYSTEMS – GREEN-LOCK PLUS:										
C-23	Structural concrete	ASTM D41	Min. 1.5-inch H-Shield	Hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	SBS-CA3	None	SBS-CA3	-150.0
C-24	Structural concrete	None	Min. 1.5-inch ACFoam-II	IL-HR	(Optional) One or more layers base insulation	IL-HR	SBS-CA3	None	SBS-CA3	-75.0
C-25	Structural concrete	None	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3, ISO 95+ GL or Multi-Max FA3	IL-HR	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	IL-HR	SBS-CA3	None	SBS-CA3	-80.0
C-26	Structural concrete	None	Min. 2-inch ACFoam-II, H-Shield, ISO 95+ GL or ENRGY 3	IL-HR	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR	SBS-CA3	None	SBS-CA3	-247.5
C-27	Structural concrete	None	Min. 2-inch ENRGY 3 or Multi-Max FA3	IL-HR, 8-inch o.c.	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or DensDeck Prime	IL-HR, 8-inch o.c.	SBS-CA3	None	SBS-CA3	-262.5
C-28	Structural concrete	None	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3, ISO 95+ GL or Multi-Max FA3	IL-HR, 6-inch o.c.	Min. 0.25-inch DEXcell FA Glass Mat Roof Board	IL-HR, 6-inch o.c.	SBS-CA3	None	SBS-CA3	-257.5
C-29	Structural concrete	None	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3, ISO 95+ GL or Multi-Max FA3	IL-HR	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR	SBS-CA3	None	SBS-CA3	-275.0
C-30	Structural concrete	None	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3, ISO 95+ GL or Multi-Max FA3	IL-HR, 6-inch o.c.	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IL-HR, 6-inch o.c.	SBS-CA3	None	SBS-CA3	-290.0
C-31	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR, 3-inch o.c.	None	N/A	SBS-CA3	None	SBS-CA3	-452.5
SELF-ADHERING SYSTEMS:										
C-32	Structural concrete	None	Min. 1.5-inch ACFoam-II, ISO 95+ GL, H-Shield, ENRGY 3, PSI25 or Multi-Max FA3	IL-HR	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, DensDeck or DensDeck Prime, unprimed	IL-HR	SBS-SA	(Optional) SBS-SA	SBS-SA	-120.0
C-33	Structural concrete	None	Min. 1.5-inch ACFoam-II, ISO 95+ GL, H-Shield, ENRGY 3, PSI25 or Multi-Max FA3	IL-HR	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, DensDeck or DensDeck Prime primed with ASTM D41 primer	IL-HR	SBS-SA	(Optional) SBS-SA	SBS-SA	-150.0

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

System No.	Deck (4.1.2)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (3.1.4)			MDP (psf)
			Type	Attach (3.1.3)	Type	Attach (3.1.3)	Base	Ply	Cap	
C-34	Structural concrete	None	Min. 1.5-inch ACFoam-II, ISO 95+ GL, H-Shield, ENRGY 3, PSI25 or Multi-Max FA3	IL-HR, 8-inch o.c.	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, DensDeck or DensDeck Prime primed with ASTM D41 primer	IL-HR, 8-inch o.c.	SBS-SA	(Optional) SBS-SA	SBS-SA	-202.5

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

System No.	Deck (4.1.2)	Primer / Temp Roof		Base Insulation Layer		Top Insulation Layer		Roof Cover (3.1.4)			MDP (psf)
				Type	Attach (3.1.3)	Type	Attach (3.1.3)	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:											
C-35	Structural concrete	SA Primer	VaporSmart SA	Min. 1.5-inch ENRGY 3	IL-HR, 9-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Boad	IL-HR	SBS-TA	(Optional) SBS-TA	SBS-TA	-67.5
C-36	Structural concrete	D41	HPR Torch Base or UltraShield Torch Base Sheet	Min. 1.5-inch ENRGY 3	IL-HR, 9-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Boad	IL-HR	SBS-TA	(Optional) SBS-TA	SBS-TA	-220.0
COLD APPLIED SYSTEMS:											
C-37	Structural concrete	SA Primer	VaporSmart SA	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	IL-HR	(Optional) Additional layer base insulation	IL-HR	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-67.5
C-38	Structural concrete	SA Primer	VaporSmart SA	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	IL-HR	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	IL-HR	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-67.5
C-39	Structural concrete	D41	Two plies HPR Glasfelt in hot asphalt	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	IL-HR	(Optional) Additional layer base insulation	IL-HR	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-127.5
C-40	Structural concrete	D41	Two plies HPR Glasfelt in hot asphalt	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	IL-HR	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	IL-HR	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-127.5
SELF-ADHERING SYSTEMS:											
C-41	Structural concrete	SA Primer	VaporSmart SA	Min. 1.5-inch ACFoam-II, ISO 95+ GL, H-Shield, ENRGY 3, PSI25 or Multi-Max FA3	IL-HR, 9-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, DensDeck or DensDeck Prime, unprimed	IL-HR	SBS-SA	(Optional) SBS-SA	SBS-SA	-67.5
C-42	Structural concrete	SA Primer	VaporSmart SA	Min. 1.5-inch ENRGY 3	IL-HR, 9-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with ASTM D41 primer	IL-HR	SBS-SA	(Optional) SBS-SA	SBS-SA	-67.5
C-43	Structural concrete	D41	HPR Torch Base or UltraShield Torch Base Sheet	Min. 1.5-inch ACFoam-II, ISO 95+ GL, H-Shield, ENRGY 3, PSI25 or Multi-Max FA3	IL-HR, 9-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, DensDeck or DensDeck Prime, unprimed	IL-HR	SBS-SA	(Optional) SBS-SA	SBS-SA	-120.0

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

System No.	Deck (4.1.2)	Primer / Temp Roof		Base Insulation Layer		Top Insulation Layer		Roof Cover (3.1.4)			MDP (psf)
				Type	Attach (3.1.3)	Type	Attach (3.1.3)	Base	Ply	Cap	
C-44	Structural concrete	D41	HPR Torch Base or UltraShield Torch Base Sheet	Min. 1.5-inch ENRGY 3	IL-HR, 9-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with ASTM D41 primer	IL-HR	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5

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

System No.	Deck (4.1.2)	Primer	Roof Cover (3.1.4)			MDP (psf)
			Base	Ply	Cap	
CONVENTIONAL SYSTEMS:						
C-45	Structural concrete	ASTM D41	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA	-375.0

TABLE 11A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (4.1.2)	Lightweight Concrete (3.1.2)	Base Insulation Layer		Coverboard		Roof Cover (3.1.4)			MDP (psf)
			Type	Attach (3.1.3)	Type	Attach (3.1.3)	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:										
LWC-1	Structural concrete	Celcore MF with Celcore HS Admixture at 38-42 pcf wet cast density and with minimum compressive strength of 350 psi; Celcore PVA Curing Compound at 0.5 gal/sq.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR, 6-inch o.c.	None	N/A	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-262.5
SELF-ADHERING SYSTEMS:										
LWC-2	Structural concrete	Celcore MF with Celcore HS Admixture at 38-42 pcf wet cast density and with minimum compressive strength of 350 psi; Celcore PVA Curing Compound at 0.5 gal/sq.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, unprimed	IL-HR, 6-inch o.c.	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-92.5
LWC-3	Structural concrete	Celcore MF with Celcore HS Admixture at 38-42 pcf wet cast density and with minimum compressive strength of 350 psi; Celcore PVA Curing Compound at 0.5 gal/sq.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with ASTM D41 primer	IL-HR, 6-inch o.c.	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-127.5
COLD APPLIED SYSTEMS:										
LWC-4	Structural concrete	Celcore MF with Celcore HS Admixture at 38-42 pcf wet cast density and with minimum compressive strength of 350 psi; Celcore PVA Curing Compound at 0.5 gal/sq.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board primed with ASTM D41 primer	IL-HR, 6-inch o.c.	None	N/A	SBS-CA1, SBS-CA3	None	SBS-CA1, SBS-CA3	-262.5

TABLE 11B: LIGHTWEIGHT CONCRETE DECKS – REROOF (TEAR-OFF) SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER													
System No.	Deck (4.1.2)	Lightweight Concrete (3.1.2)	Anchor Sheet			Insulation			Roof Cover (3.1.4)			MDP (psf)
			Type	Fasteners (4.2.2)	Attach	Base	Top	Attach (3.1.3)	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:												
CELCORE:												
LWC-5	Structural concrete	Min. 300 psi., Min. 2-inch, pre-existing Celcore Cellular Concrete	HPR Tri-Base Premium	Trufast FM-75 or FM-90 or OMG CR Base Sheet Fastener (1.7")	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 ISO 95+ GL, ACFoam-II, H-Shield, ENRGY 3	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime or min. 0.625-inch DensDeck StormX Prime	IL-HR	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-45.0
ELASTIZELL:												
LWC-6	Structural concrete	Min. 300 psi., Min. 2-inch, pre-existing Range II Elastizell Lightweight Insulating Concrete.	HPR Tri-Base Premium	Trufast FM-75 or FM-90 or OMG CR Base Sheet Fastener (1.7")	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 ISO 95+ GL, ACFoam-II, H-Shield, ENRGY 3	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime or min. 0.625-inch DensDeck StormX Prime	IL-HR	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-45.0
COLD-APPLIED SYSTEMS:												
CELCORE:												
LWC-7	Structural concrete	Min. 300 psi., Min. 2-inch, pre-existing Celcore Cellular Concrete	HPR Tri-Base Premium	Trufast FM-75 or FM-90 or OMG CR Base Sheet Fastener (1.7")	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 ISO 95+ GL, ACFoam-II, H-Shield, ENRGY 3	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime or min. 0.625-inch DensDeck StormX Prime	IL-HR	SBS-CA1, SBS-CA3	None	SBS-CA1, SBS-CA3	-45.0
ELASTIZELL:												
LWC-8	Structural concrete	Min. 300 psi., Min. 2-inch, pre-existing Range II Elastizell Lightweight Insulating Concrete.	HPR Tri-Base Premium	Trufast FM-75 or FM-90 or OMG CR Base Sheet Fastener (1.7")	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 ISO 95+ GL, ACFoam-II, H-Shield, ENRGY 3	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime or min. 0.625-inch DensDeck StormX Prime	IL-HR	SBS-CA1, SBS-CA3	None	SBS-CA1, SBS-CA3	-45.0

TABLE 11B: LIGHTWEIGHT CONCRETE DECKS – REROOF (TEAR-OFF) SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER													
System No.	Deck (4.1.2)	Lightweight Concrete (3.1.2)	Anchor Sheet			Insulation			Roof Cover (3.1.4)			MDP (psf)
			Type	Fasteners (4.2.2)	Attach	Base	Top	Attach (3.1.3)	Base	Ply	Cap	
SELF-ADHERING SYSTEMS:												
CELCORE:												
LWC-9	Structural concrete	Min. 300 psi., Min. 2-inch, pre-existing Celcore Cellular Concrete	HPR Tri-Base Premium	Trufast FM-75 or FM-90 or OMG CR Base Sheet Fastener (1.7")	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 ISO 95+ GL, ACFoam-II, H-Shield, ENRGY 3	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime or min. 0.625-inch DensDeck StormX Prime	IL-HR	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0
ELASTIZELL:												
LWC-10	Structural concrete	Min. 300 psi., Min. 2-inch, pre-existing Range II Elastizell Lightweight Insulating Concrete.	HPR Tri-Base Premium	Trufast FM-75 or FM-90 or OMG CR Base Sheet Fastener (1.7")	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 ISO 95+ GL, ACFoam-II, H-Shield, ENRGY 3	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime or min. 0.625-inch DensDeck StormX Prime	IL-HR	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0

TABLE 11C: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E-2: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER								
System No.	Deck (4.1.2)	Lightweight Concrete (3.1.2)	Base Sheet			Roof Cover (3.1.4)		MDP (psf)
			Type	Fasteners (4.2.2)	Attach	Ply	Cap	
CONVENTIONAL SYSTEMS:								
CELCORE:								
LWC-11	Structural concrete or min. 26 ga. steel at max 5 ft spans or structural concrete	Celcore Cellular Concrete at min. 42 pcf wet cast density and with minimum compressive strength of 300 psi; ¼-inch slurry is poured over deck. Optional min. 1-inch thick, min. 1.0 pcf EPS board is placed into the slurry, followed by min. 2-inch top coat. Celcore PVA Curing Compound, spray applied at 0.5 gal/square.	HPR Glasbase, HPR Glasbase Premium, HPR Tri-Base Premium or VersiPly 40	Trufast FM-90 or Twin Loc-Nails or OMG CR Base Sheet Fastener (1.7")	9-inch o.c. at the 4-inch side lap and 18-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-45.0*
LWC-12	Structural concrete or min. 22 ga., Type B steel deck at max. 5 ft spans	Celcore MF with Celcore HS Admixture at 38-42 pcf wet cast density and with minimum compressive strength of 350 psi; ¼-inch slurry is poured over deck. Optional min. 1-inch thick, min. 1.0 pcf EPS board is placed into the slurry, followed by min. 2-inch top coat. Celcore PVA Curing Compound, spray applied at 0.33 gal/square.	HPR Glasbase, HPR Glasbase Premium, HPR Tri-Base Premium or VersiPly 40	Trufast FM-90 or Twin Loc-Nails or OMG CR Base Sheet Fastener (1.7")	9-inch o.c. at the 4-inch side lap and 12-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-60.0

TABLE 11C: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (4.1.2)	Lightweight Concrete (3.1.2)	Base Sheet			Roof Cover (3.1.4)		MDP (psf)
			Type	Fasteners (4.2.2)	Attach	Ply	Cap	
LWC-13	Structural concrete or min. 22 ga., Type B steel deck at max. 5 ft spans	Celcore Cellular Concrete at min. 42 pcf wet cast density and with minimum compressive strength of 300 psi; ¼-inch slurry is poured over deck. Optional min. 1-inch thick, min. 1.0 pcf EPS board is placed into the slurry, followed by min. 2-inch top coat. Celcore PVA Curing Compound, spray applied at 0.5 gal/square.	HPR Tri-Base Premium	Trufast FM-90 or OMG CR Base Sheet Fastener (1.7")	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA or SBS-TA	-75.0
LWC-14	Structural concrete or min. 22 ga., Type B steel deck at max. 5 ft spans	Celcore MF with Celcore HS Admixture at 38-42 pcf wet cast density and with minimum compressive strength of 350 psi; ¼-inch slurry is poured over deck. Optional min. 1-inch thick, min. 1.0 pcf EPS board is placed into the slurry, followed by min. 2-inch top coat. Celcore PVA Curing Compound, spray applied at 0.5 gal/square.	VersiPly 40	Trufast FM-90 or Twin Loc-Nails or OMG CR Base Sheet Fastener (1.7")	8-inch o.c. at the 4-inch side lap and 8-inch o.c. in three staggered rows in the center of the sheet	SBS-AA or SBS-TA	SBS-AA or SBS-TA	-75.0
LWC-15	Structural concrete or min. 22 ga., Type B steel deck at max. 5 ft	Celcore MF with Celcore HS Admixture at 38-42 pcf wet cast density and with minimum compressive strength of 350 psi; ¼-inch slurry is poured over deck. Optional min. 1-inch thick, min. 1.0 pcf EPS board is placed into the slurry, followed by min. 2-inch top coat. Celcore PVA Curing Compound, spray applied at 0.5 gal/square.	HPR Tri-Base Premium	Trufast FM-90 or Twin Loc-Nails or OMG CR Base Sheet Fastener (1.7")	8-inch o.c. at the 3-inch side lap and 8-inch o.c. in three staggered rows in the center of the sheet	SBS-AA or SBS-TA or Two (2) plies BP-AA	SBS-AA or SBS-TA	-90.0
LWC-16	Structural concrete or min. 22 ga., Type B steel deck at max. 5 ft	Celcore MF with Celcore HS Admixture at 38-42 pcf wet cast density and with minimum compressive strength of 350 psi; ¼-inch slurry is poured over deck. Optional min. 1-inch thick, min. 1.0 pcf EPS board is placed into the slurry, followed by min. 2-inch top coat. Celcore PVA Curing Compound, spray applied at 0.5 gal/square.	VersiPly 40	Trufast FM-90 or Twin Loc-Nails or OMG CR Base Sheet Fastener (1.7")	8-inch o.c. at the 4-inch side lap and 8-inch o.c. in three staggered rows in the center of the sheet	SBS-AA or SBS-TA or Two (2) plies BP-AA	SBS-AA or SBS-TA	-90.0
LWC-17	Structural concrete or min. 22 ga., Type B steel deck at max. 5 ft spans	Celcore MF with Celcore HS Admixture at 38-42 pcf wet cast density and with minimum compressive strength of 350 psi; ¼-inch slurry is poured over deck. Optional min. 1-inch thick, min. 1.0 pcf EPS board is placed into the slurry, followed by min. 2-inch top coat. Celcore PVA Curing Compound, spray applied at 0.5 gal/square.	HPR Glasbase, HPR Premium Glasbase or HPR Tri-Base Premium	Trufast FM-90 or Twin Loc-Nails or OMG CR Base Sheet Fastener (1.7")	6-inch o.c. at the 4-inch side lap and 6-inch o.c. in four staggered rows in the center of the sheet	SBS-AA or SBS-TA	SBS-AA or SBS-TA	-150.0
CONCRECEL:								
LWC-18	Structural concrete or min. 22 ga., Type B, Grade 80, vented steel deck at max. 5 ft spans	Concrecel Bonding Agent applied to deck at 600 ft²/gal. Concrecel Concrete at min. 43 pcf wet cast density and with minimum compressive strength of 300 psi; ¼-inch slurry is poured over deck. Optional min. 1-inch thick, min. 1.0 pcf EPS board is placed into the slurry, followed by min. 2.25-inch top coat. Concrecel Curing Compound, spray applied at 600 ft²/gal.	HPR Tri-Base Premium	Trufast FM-90 or OMG CR Base Sheet Fastener (1.7")	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA or SBS-TA	-82.5
ELASTIZELL:								
LWC-19	Min. 26 ga. steel at max 5 ft spans or structural concrete	Min. 200 psi, min 2-inch thick Range II Elastizell Lightweight Insulating Concrete.	HPR Glasbase, HPR Glasbase Premium, HPR Tri-Base Premium or VersiPly 40	Trufast FM-90 or Twin Loc-Nails (1.8 inch)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two, equally spaced, staggered center rows	BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-30.0 (NO HVHZ)

TABLE 11C: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E-2: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER								
System No.	Deck (4.1.2)	Lightweight Concrete (3.1.2)	Base Sheet			Roof Cover (3.1.4)		MDP (psf)
			Type	Fasteners (4.2.2)	Attach	Ply	Cap	
LWC-20	Min. 26 ga. steel at max 5 ft spans or structural concrete	Range II Elastizell Lightweight Insulating Concrete at 27-43 pcf wet cast density and with minimum compressive strength of 160 psi; ¼-inch slurry is poured over deck. Optional min. 2-inch thick, min. 1.0 pcf EPS board is placed into the slurry, followed by min. 2-inch top coat.	HPR Glasbase, HPR Glasbase Premium, HPR Tri-Base Premium or VersiPly 40	Trufast FM-90 or Twin Loc-Nails or OMG CR Base Sheet Fastener (1.7")	9-inch o.c. at the 4-inch side lap and 18-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-45.0*
LWC-21	Min. 22 ga. steel at max 5 ft spans or structural concrete	Min. 200 psi, min 2-inch thick Range II Elastizell Lightweight Insulating Concrete.	HPR Glasbase, HPR Glasbase Premium, HPR Tri-Base Premium or VersiPly 40	Trufast FM-90 or Twin Loc-Nails (1.8 inch)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-45.0
MEARLCRETE:								
LWC-22	Min. 22 ga. steel at max 5 ft spans or structural concrete	Min. 250 psi, min 2-inch thick Mearlcrete.	HPR Glasbase, HPR Glasbase Premium, HPR Tri-Base Premium or VersiPly 40	OMG CR Base Sheet Fastener (1.7")	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA or SBS-TA	-52.5
LWC-23	Min. 22 ga. steel at max 5 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick pre-existing cellular lightweight insulating concrete. *Note: To qualify the LWIC under this assembly, a 1.8-inch Twin Loc-Nail shall achieve an average withdrawal of 88 lbf when tested per TAS 105 or ANSI/SPRI FX-1*	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium or VersiPly 40	Min. 1.8-inch 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	BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-60.0
LWC-24	Min. 22 ga. steel at max 5 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick pre-existing cellular lightweight insulating concrete. *Note: To qualify the LWIC under this assembly, a 1.8-inch Twin Loc-Nail shall achieve an average withdrawal of 88 lbf when tested per TAS 105 or ANSI/SPRI FX-1*	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium or VersiPly 40	Min. 1.8-inch 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	BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-60.0
PRE-EXISTENT CELLULAR LWC:								
LWC-25	Min. 22 ga. steel at max 5 ft spans or structural concrete	Min. 300 psi, min. 2-inch thick pre-existing cellular lightweight insulating concrete. *Note: To qualify the LWIC under this assembly, a 1.8-inch Twin Loc-Nail shall achieve an average withdrawal of 110 lbf when tested per TAS 105 or ANSI/SPRI FX-1*	HPR Premium Glasbase, HPR Tri-Base Premium or VersiPly 40	Min. 1.8-inch 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	BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-75.0
SELF-ADHERING SYSTEMS:								
CELCORE								
LWC-26	Structural concrete or min. 26 ga. steel at max 5 ft spans or structural concrete	Celcore Cellular Concrete at min. 42 pcf wet cast density and with minimum compressive strength of 300 psi; ¼-inch slurry is poured over deck. Optional min. 1-inch thick, min. 1.0 pcf EPS board is placed into the slurry, followed by min. 2-inch top coat. Celcore PVA Curing Compound, spray applied at 0.5 gal/square.	HPR SA FR Base Sheet	OMG CR Base Sheet Fastener (1.7")	9-inch o.c. at the 4-inch side lap and 18-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-SA	SBS-SA	-45.0*

TABLE 11C: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E-2: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER								
System No.	Deck (4.1.2)	Lightweight Concrete (3.1.2)	Base Sheet			Roof Cover (3.1.4)		MDP (psf)
			Type	Fasteners (4.2.2)	Attach	Ply	Cap	
LWC-27	Structural concrete or min. 22 ga., Type B steel deck at max. 5 ft spans	Celcore MF with Celcore HS Admixture at 38-42 pcf wet cast density and with minimum compressive strength of 350 psi; ¼-inch slurry is poured over deck. Optional min. 1-inch thick, min. 1.0 pcf EPS board is placed into the slurry, followed by min. 2-inch top coat. Celcore PVA Curing Compound, spray applied at 0.5 gal/square.	HPR SA FR Base Sheet	Trufast FM-90 or Twin Loc-Nails or OMG CR Base Sheet Fastener (1.7"); Note: Stress plates primed with ASTM D41 primer	6-inch o.c. at the 4-inch side lap and 6-inch o.c. in four staggered rows in the center of the sheet	SBS-SA	SBS-SA	-150.0
ELASTIZELL:								
LWC-28	Min. 26 ga. steel at max 5 ft spans or structural concrete	Range II Elastizell Lightweight Insulating Concrete at 27-43 pcf wet cast density and with minimum compressive strength of 160 psi; ¼-inch slurry is poured over deck. Optional min. 2-inch thick, min. 1.0 pcf EPS board is placed into the slurry, followed by min. 2-inch top coat.	HPR SA FR Base Sheet	OMG CR Base Sheet Fastener (1.7")	9-inch o.c. at the 4-inch side lap and 18-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-SA	SBS-SA	-45.0*
COLD-APPLIED SYSTEMS:								
CELCORE:								
LWC-29	Structural concrete or min. 26 ga. steel at max 5 ft spans or structural concrete	Celcore Cellular Concrete at min. 42 pcf wet cast density and with minimum compressive strength of 300 psi; ¼-inch slurry is poured over deck. Optional min. 1-inch thick, min. 1.0 pcf EPS board is placed into the slurry, followed by min. 2-inch top coat. Celcore PVA Curing Compound, spray applied at 0.5 gal/square.	VersiPly 40	Trufast FM-90 or Twin Loc-Nails or OMG CR Base Sheet Fastener (1.7")	9-inch o.c. at the 4-inch side lap and 18-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-CA3	SBS-CA3	-45.0*
LWC-30	Structural concrete or min. 22 ga., Type B steel deck at max. 5 ft spans	Celcore Cellular Concrete at min. 42 pcf wet cast density and with minimum compressive strength of 300 psi; ¼-inch slurry is poured over deck. Optional min. 1-inch thick, min. 1.0 pcf EPS board is placed into the slurry, followed by min. 2-inch top coat. Celcore PVA Curing Compound, spray applied at 0.5 gal/square.	HPR Tri-Base Premium	Trufast FM-90 or OMG CR Base Sheet Fastener (1.7")	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two, equally spaced, staggered center rows	BP-CA1 or SBS-CA1	SBS-CA1	-45.0
LWC-31	Structural concrete or min. 22 ga., Type B steel deck at max. 5 ft spans	Celcore MF with Celcore HS Admixture at 38-42 pcf wet cast density and with minimum compressive strength of 350 psi; ¼-inch slurry is poured over deck. Optional min. 1-inch thick, min. 1.0 pcf EPS board is placed into the slurry, followed by min. 2-inch top coat. Celcore PVA Curing Compound, spray applied at 0.5 gal/square.	VersiPly 40	Trufast FM-90 or Twin Loc-Nails or OMG CR Base Sheet Fastener (1.7")	8-inch o.c. at the 4-inch side lap and 8-inch o.c. in three staggered rows in the center of the sheet	SBS-CA3	SBS-CA3	-45.0
LWC-32	Structural concrete or min. 22 ga., Type B steel deck at max. 5 ft	Celcore MF with Celcore HS Admixture at 38-42 pcf wet cast density and with minimum compressive strength of 350 psi; ¼-inch slurry is poured over deck. Optional min. 1-inch thick, min. 1.0 pcf EPS board is placed into the slurry, followed by min. 2-inch top coat. Celcore PVA Curing Compound, spray applied at 0.5 gal/square.	HPR Tri-Base Premium	Trufast FM-90 or Twin Loc-Nails or OMG CR Base Sheet Fastener (1.7")	8-inch o.c. at the 3-inch side lap and 8-inch o.c. in three staggered rows in the center of the sheet	BP-CA1 or SBS-CA1	SBS-CA1	-45.0

TABLE 11C: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E-2: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER									
System No.	Deck (4.1.2)	Lightweight Concrete (3.1.2)	Base Sheet			Roof Cover (3.1.4)		MDP (psf)
			Type	Fasteners (4.2.2)	Attach	Ply	Cap	
LWC-33	Structural concrete or min. 22 ga., Type B steel deck at max. 5 ft spans	Celcore MF with Celcore HS Admixture at 38-42 pcf wet cast density and with minimum compressive strength of 350 psi; ¼-inch slurry is poured over deck. Optional min. 1-inch thick, min. 1.0 pcf EPS board is placed into the slurry, followed by min. 2-inch top coat. Celcore PVA Curing Compound, spray applied at 0.33 gal/square.	VersiPly 40	Trufast FM-90 or Twin Loc-Nails or OMG CR Base Sheet Fastener (1.7")	9-inch o.c. at the 4-inch side lap and 12-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-CA3	SBS-CA3	-60.0
ELASTIZELL:								
LWC-34	Min. 26 ga. steel at max 5 ft spans or structural concrete	Range II Elastizell Lightweight Insulating Concrete at 27-43 pcf wet cast density and with minimum compressive strength of 160 psi; ¼-inch slurry is poured over deck. Optional min. 2-inch thick, min. 1.0 pcf EPS board is placed into the slurry, followed by min. 2-inch top coat.	VersiPly 40	Trufast FM-90 or Twin Loc-Nails or OMG CR Base Sheet Fastener (1.7")	9-inch o.c. at the 4-inch side lap and 18-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-CA3	SBS-CA3	-45.0*

TABLE 12A: CEMENTITIOUS WOOD FIBER DECKS – REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER											
System No.	Deck (4.1.2)	Anchor Sheet			Insulation			Roof Cover (3.1.4)			MDP (psf)
		Type	Fasteners (4.2.2)	Attach	Base	Top	Attach (3.1.3)	Base	Ply	Cap	
CWF-1	Existing Tectum	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (min. 1.8-inch embedment)	9-inch o.c. at the min. 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	Hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA or SBS-TA	-45.0*
CWF-2	Existing Tectum	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (min. 1.8-inch embedment)	6-inch o.c. at the 4-inch lap and 6-inch o.c. in three, equally spaced, staggered center rows	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	Min. 0.25-inch DensDeck Prime	Hot asphalt	SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-135.0

TABLE 12B: CEMENTITIOUS WOOD FIBER DECKS –REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER									
System No.	Deck (4.1.2)	Base Insulation Layer (4.2.2)	Top Insulation Layer			Roof Cover (3.1.4)			MDP (psf)
			Type	Fasteners (4.2.2)	Attach (3.1.2)	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:									
CWF-3	Existing Tectum	(Optional) One or more layers, any combination, loose laid	Min. ½-inch STRUCTODEK High Density Fiberboard Roof Insulation	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (minimum 1-inch embedment into deck)	1 per 2.0 ft²	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-45.0*
CWF-4	Existing Tectum	(Optional) One or more layers, any combination, loose laid	Min. ¼-inch DensDeck or DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (minimum 1-inch embedment into deck)	1 per 2.0 ft²	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-45.0*
COLD-APPLIED SYSTEMS:									
CWF-5	Existing Tectum	(Optional) One or more layers, any combination, loose laid	Min. ½-inch STRUCTODEK High Density Fiberboard Roof Insulation	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (minimum 1-inch embedment into deck)	1 per 2.0 ft²	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-45.0*
CWF-6	Existing Tectum	(Optional) One or more layers, any combination, loose laid	Min. ½-inch STRUCTODEK High Density Fiberboard Roof Insulation	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (minimum 1-inch embedment into deck)	1 per 2.0 ft²	SBS-CA3	None	SBS-CA3	-45.0*
CWF-7	Existing Tectum	(Optional) One or more layers, any combination, loose laid	Min. ¼-inch DensDeck or DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (minimum 1-inch embedment into deck)	1 per 2.0 ft²	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-45.0*
CWF-8	Existing Tectum	(Optional) One or more layers, any combination, loose laid	Min. ¼-inch DensDeck or DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (minimum 1-inch embedment into deck)	1 per 2.0 ft²	SBS-CA3	None	SBS-CA3	-45.0*

TABLE 12C: CEMENTITOUS WOOD FIBER DECKS –REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER								
System No.	Deck (4.1.2)	Base Sheet			Roof Cover (3.1.4)		MDP (psf)
		Type	Fasteners (4.2.2)	Attach	Ply	Cap	
CONVENTIONAL SYSTEMS:							
CWF-9	Existing Tectum	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (min. 1.8-inch embedment)	9-inch o.c. at the min. 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA	-45.0*
CWF-10	Existing Tectum	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (min. 1.8-inch embedment)	6-inch o.c. at the 4-inch lap and 6-inch o.c. in three, equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA or SBS-TA	-172.5

TABLE 12C: CEMENTITOUS WOOD FIBER DECKS –REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER							
System No.	Deck (4.1.2)	Base Sheet			Roof Cover (3.1.4)		MDP (psf)
		Type	Fasteners (4.2.2)	Attach	Ply	Cap	
COLD-APPLIED SYSTEMS:							
CWF-11	Existing Tectum	VersiPly 40	Trufast Twin Loc-Nails (min. 1.8-inch embedment)	9-inch o.c. at the min. 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	SBS-CA3	SBS-CA3	-45.0*
CWF-12	Existing Tectum	VersiPly 40	Trufast Twin Loc-Nails (min. 1.8-inch embedment)	6-inch o.c. at the 4-inch lap and 6-inch o.c. in three, equally spaced, staggered center rows	SBS-CA3	SBS-CA3	-172.5

TABLE 13A: GYPSUM DECKS – REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER									
System No.	Deck (4.1.2 & 4.2.2)	Base Insulation Layer		Top Insulation Layer		Roof Cover (3.1.4)			MDP (psf)
		Type	Attach (3.1.3)	Type	Attach (3.1.3)	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:									
G-1	Existing poured gypsum or gypsum plank	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	IL-HR	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	IL-HR	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA or SBS-TA	-127.5
G-2	Existing poured gypsum or gypsum plank	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	IL-HR	Min. 0.25-inch DensDeck or DensDeck Prime	IL-HR	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-157.5
G-3	Existing poured gypsum or gypsum plank	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	IL-HR	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-202.5
COLD-APPLIED SYSTEMS:									
G-4	Existing poured gypsum or gypsum plank	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	IL-HR	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	IL-HR	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-127.5
G-5	Existing poured gypsum or gypsum plank	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	IL-HR	Min. 0.25-inch DensDeck	IL-HR	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-142.5
SELF-ADHERING SYSTEMS:									
G-6	Existing poured gypsum or gypsum plank	Min. 1.5-inch ACFoam-II, ISO 95+GL, H-Shield, ENRGY 3, PSI25 or Multi-Max FA3	IL-HR	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, DensDeck or DensDeck Prime, unprimed.	IL-HR	SBS-SA	(Optional) SBS-SA	SBS-SA	-120.0
G-7	Existing poured gypsum or gypsum plank	Min. 1.5-inch ACFoam-II, ISO 95+GL, H-Shield, ENRGY 3, PSI25 or Multi-Max FA3	IL-HR	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, DensDeck or DensDeck Prime primed with ASTM D41 primer.	IL-HR	SBS-SA	(Optional) SBS-SA	SBS-SA	-150.0

TABLE 13B: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE B-3: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (4.1.2 & 4.2.2)	Anchor Sheet			Insulation			Roof Cover (3.1.4)			MDP (psf)
		Type	Fasteners (4.2.2)	Attach	Base	Top	Attach (3.1.3)	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:											
G-8	Existing poured gypsum or gypsum plank	HPR Tri-Base Premium	OMG CR Base Sheet Fastener (1.7")	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 ISO 95+ GL, ACFoam-II, H-Shield, ENRGY 3	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime or min. 0.625-inch DensDeck StormX Prime	IL-HR	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-45.0
G-9	Existing poured gypsum or gypsum plank	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (min. 1.8-inch embedment)	9-inch o.c. at the min. 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	(Optional) Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	Hot asphalt	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA or SBS-TA	-45.0*
G-10	Existing poured gypsum or gypsum plank	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (min. 1.8-inch embedment)	6-inch o.c. at the 4-inch lap and 6-inch o.c. in three, equally spaced, staggered center rows	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	Min. 0.25-inch DensDeck Prime	Hot asphalt	SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-135.0
COLD-APPLIED SYSTEMS:											
G-11	Existing poured gypsum or gypsum plank	HPR Tri-Base Premium	OMG CR Base Sheet Fastener (1.7")	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 ISO 95+ GL, ACFoam-II, H-Shield, ENRGY 3	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime or min. 0.625-inch DensDeck StormX Prime	IL-HR	SBS-CA1, SBS-CA3	None	SBS-CA1, SBS-CA3	-45.0
SELF-ADHERING SYSTEMS:											
G-12	Existing poured gypsum or gypsum plank	HPR Tri-Base Premium	OMG CR Base Sheet Fastener (1.7")	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 ISO 95+ GL, ACFoam-II, H-Shield, ENRGY 3	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime or min. 0.625-inch DensDeck StormX Prime	IL-HR	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0

TABLE 13C: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

System No.	Deck (4.1.2 & 4.2.2)	Base Insulation Layer	Top Insulation Layer			Roof Cover (3.1.4)			MDP (psf)
			Type	Fasteners (4.2.2)	Attach (3.1.2)	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:									
G-13	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. ½-inch STRUCTODEK High Density Fiberboard Roof Insulation	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (minimum 1-inch embedment into deck)	1 per 2.0 ft²	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-45.0*
G-14	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. ¼-inch DensDeck or DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (minimum 1-inch embedment into deck)	1 per 2.0 ft²	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-45.0*
COLD-APPLIED SYSTEMS:									
G-15	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. ½-inch STRUCTODEK High Density Fiberboard Roof Insulation	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (minimum 1-inch embedment into deck)	1 per 2.0 ft²	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-45.0*
G-16	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. ¼-inch DensDeck or DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (minimum 1-inch embedment into deck)	1 per 2.0 ft²	SBS-CA3	None	SBS-CA3	-45.0*
G-17	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. ½-inch STRUCTODEK High Density Fiberboard Roof Insulation	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (minimum 1-inch embedment into deck)	1 per 2.0 ft²	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-45.0*
G-18	Existing poured gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. ¼-inch DensDeck or DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (minimum 1-inch embedment into deck)	1 per 2.0 ft²	SBS-CA3	None	SBS-CA3	-45.0*

TABLE 13D: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (4.1.2 & 4.2.2)	Base Sheet			Roof Cover (3.1.4)		MDP (psf)
		Type	Fasteners (4.2.2)	Attach	Ply	Cap	
CONVENTIONAL SYSTEMS:							
G-19	Existing poured gypsum or gypsum plank	VersiPly 40	OMG CR Base Sheet Fastener (1.7”)	9-inch o.c. at the 4-inch side lap and 18-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	BP-AA or SBS-AA	SBS-AA	-45.0*
G-20	Existing poured gypsum or gypsum plank	HPR Glasbase, HPR Premium Glasbase or VersiPly 40	Trufast FM-75 or FM-90(min. 1.8-inch embedment)	9-inch o.c. at the min. 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA	-45.0*
G-21	Existing poured gypsum or gypsum plank	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium or VersiPly 40	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (min. 1.8-inch embedment)	9-inch o.c. at the min. 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA	-45.0*

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TABLE 13D: GYPSUM DECKS – REROOF (TEAR-OFF) SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER							
System No.	Deck (4.1.2 & 4.2.2)	Base Sheet			Roof Cover (3.1.4)		MDP (psf)
		Type	Fasteners (4.2.2)	Attach	Ply	Cap	
G-22	Existing poured gypsum or gypsum plank	VersiPly 40	Trufast FM-90 or Twin Loc-Nails or OMG CR Base Sheet Fastener (1.7")	9-inch o.c. at the 4-inch side lap and 12-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	BP-AA or SBS-AA	SBS-AA	-60.0
G-23	Existing poured gypsum or gypsum plank	VersiPly 40	Trufast FM-90 or Twin Loc-Nails or OMG CR Base Sheet Fastener (1.7")	8-inch o.c. at the 4-inch side lap and 8-inch o.c. in three staggered rows in the center of the sheet	SBS-AA or SBS-TA	SBS-AA or SBS-TA	-75.0
G-24	Existing poured gypsum or gypsum plank	VersiPly 40	Trufast FM-90 or Twin Loc-Nails or OMG CR Base Sheet Fastener (1.7")	8-inch o.c. at the 4-inch side lap and 8-inch o.c. in three staggered rows in the center of the sheet	SBS-AA or SBS-TA or Two (2) plies BP-AA	SBS-AA or SBS-TA	-90.0
G-25	Existing poured gypsum or gypsum plank	HPR Glasbase, HPR Premium Glasbase, HPR Tri-Base Premium or VersiPly 40	Trufast Twin Loc-Nails or OMG OlyLok Locking Impact Nails (min. 1.8-inch embedment)	6-inch o.c. at the 4-inch lap and 6-inch o.c. in three, equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA or SBS-TA	-172.5
SELF-ADHERING SYSTEMS:							
G-26	Existing poured gypsum or gypsum plank	HPR SA FR Base Sheet	OMG CR Base Sheet Fastener (1.7")	9-inch o.c. at the 4-inch side lap and 18-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-SA	SBS-SA	-45.0*
G-27	Existing poured gypsum or gypsum plank	HPR SA FR Base Sheet	Trufast FM-90 or Twin Loc-Nails or OMG CR Base Sheet Fastener (1.7"); Note: Stress plates primed with ASTM D41 primer	6-inch o.c. at the 4-inch side lap and 6-inch o.c. in four staggered rows in the center of the sheet	SBS-SA	SBS-SA	-150.0
COLD-APPLIED SYSTEMS:							
G-28	Existing poured gypsum or gypsum plank	VersiPly 40	Trufast FM-75 or FM-90 or Trufast Twin Loc-Nails (min. 1.8-inch embedment) or OMG CR Base Sheet Fastener (1.7")	9-inch o.c. at the min. 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	SBS-CA3	SBS-CA3	-45.0*
G-29	Existing poured gypsum or gypsum plank	VersiPly 40	Trufast FM-90 or Twin Loc-Nails or OMG CR Base Sheet Fastener (1.7")	8-inch o.c. at the 4-inch side lap and 8-inch o.c. in three staggered rows in the center of the sheet	SBS-CA3	SBS-CA3	-45.0
G-30	Existing poured gypsum or gypsum plank	VersiPly 40	Trufast Twin Loc-Nails (min. 1.8-inch embedment)	6-inch o.c. at the 4-inch lap and 6-inch o.c. in three, equally spaced, staggered center rows	SBS-CA3	SBS-CA3	-172.5

TABLE 14A: RECOVER APPLICATIONS SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER									
[A] The reported MDP documents the allowable maximum design pressure of the new insulation and roof cover when installed atop the substrate, irrespective of the deck type (See Section 4.1.2) or performance of the substrate (See Section 4.2.2). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.									
System No.	Substrate (4.1.2 & 4.2.2)	Base Insulation Layer		Top Insulation Layer		Roof Cover (3.1.4)			MDP (psf)
		Type	Attach (3.1.3)	Type	Attach (3.1.3)	Base	Ply	Cap	
CONVENTIONAL SYSTEMS:									
R-1	Existing smooth or granule surface BUR or modified bitumen	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	IL-HR	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	IL-HR	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA or SBS-TA	-127.5
R-2	Existing smooth or granule surface BUR or modified bitumen	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	IL-HR	Min. 0.25-inch DensDeck or DensDeck Prime	IL-HR	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-157.5

TABLE 14A: RECOVER APPLICATIONS
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

[A] The reported MDP documents the allowable maximum design pressure of the new insulation and roof cover when installed atop the substrate, irrespective of the deck type (See Section 4.1.2) or performance of the substrate (See Section 4.2.2). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate (4.1.2 & 4.2.2)	Base Insulation Layer		Top Insulation Layer		Roof Cover (3.1.4)			MDP (psf)
		Type	Attach (3.1.3)	Type	Attach (3.1.3)	Base	Ply	Cap	
R-3	Existing smooth or granule surface BUR or modified bitumen	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	IL-HR	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-157.5
COLD-APPLIED SYSTEMS:									
R-4	Existing smooth or granule surface BUR or modified bitumen	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	IL-HR	Min. 0.5-inch STRUCTODEK High Density Fiberboard Roof Insulation	IL-HR	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-127.5
R-5	Existing smooth or granule surface BUR or modified bitumen	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	IL-HR	Min. 0.25-inch DensDeck	IL-HR	BP-CA1 or SBS-CA1	(Optional) BP-CA1 or SBS-CA1	SBS-CA1	-157.5
R-6	Existing smooth or granule surface BUR or modified bitumen	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	IL-HR	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	IL-HR	SBS-CA3	None	SBS-CA3	-157.5
SELF-ADHERING SYSTEMS:									
R-7	Existing smooth or granule surface BUR or modified bitumen	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	IL-HR	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, DensDeck or DensDeck Prime, unprimed.	IL-HR	SBS-SA	(Optional) SBS-SA	SBS-SA	-120.0
R-8	Existing smooth or granule surface BUR or modified bitumen	Min. 1.5-inch ACFoam-II, H-Shield, ENRGY 3 or Multi-Max FA3	IL-HR	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, DensDeck or DensDeck Prime primed with ASTM D41 primer	IL-HR	SBS-SA	(Optional) SBS-SA	SBS-SA	-150.0