



NEMO EVALUATIONS REPORT

Report No.: NER-AMZ-003
Revision 0: 2026-09-01
Page 1 of 46

Amrize Building Envelope LLC (Elevate)

FL48419

Nemo|cert.

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NEMO EVALUATION REPORT (NER)



Amrize Building Envelope LLC

26 Century Blvd
Nashville, TN 37214
(317) 572-4100

SUBJECT: Elevate Modified Bitumen Waterproofing 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: 2026 Florida Building Code, 9th Edition
2023 Florida Building Code, 8th Edition

FBC JURISDICTION: Non-HVHZ and HVHZ

CATEGORY: **FBC:** Roofing **NEMO:** Waterproofing

SUB-CATEGORY: **FBC:** Waterproofing

CSI DIVISION: 07 00 00 Thermal and Moisture Protection
07 52 00 Modified Bituminous Sheet Roofing

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

COMPLIANCE STATEMENT: Elevate Modified Bitumen Waterproofing Systems, as produced by Amrize Building Envelope LLC (Elevate), 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 does not have, 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.

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[LINK TO TOP OF ATTACHMENT REQUIREMENTS](#)



ISO/IEC 17065



PCA-145



ISO/IEC 17020



AA-779



NEMO EVALUATIONS REPORT

Report No.: NER-AMZ-003
Revision 0: 2026-09-01

Amrize Building Envelope LLC (Elevate)
FL48419



1. CODES, PROPERTIES AND STANDARDS:

<u>CODE</u>	<u>SECTION</u>	<u>PROPERTY</u>	<u>STANDARD</u>
2026 Florida Building Code, 9 th Edition	1504.3.1	Wind resistance	FM 4474 or UL1897
	1504.4	Design Standard	ANSI/SPRI RP-4
	1504.7, 1515.2.4	Impact resistance	FM 4470
	1505.1, 1516.1	Fire Classification	UL 790
	1507.6.3, TAS 110	Material standard	ASTM D1970
	1507.10.2, TAS 110	Material standard	ASTM D2178, D4601, D4897
	1507.11.2, TAS 110	Material standard	ASTM D6162, D6163, D6164, D6222, D6509
	1523.6.2, TAS 114	Wind resistance	TAS 114, Appendix C, D or J
	TAS 114	Resistance to Foot Traffic	TAS 114, Section 8.9
	TAS 114	Susceptibility to Hail Damage	TAS 114, Appendix F
	TAS 114	Susceptibility to Leakage	TAS 114, Appendix G
2023 Florida Building Code, 8 th Edition	1504.3.1	Wind resistance	FM 4474 or UL1897
	1504.4	Design Standard	ANSI/SPRI RP-4
	1504.6	Physical Properties	ASTM G155
	1504.7, 1515.2.4	Impact resistance	FM 4470
	1505.1, 1516.1	Fire Classification	UL 790
	1507.6.3, TAS 110	Material standard	ASTM D1970
	1507.10.2, TAS 110	Material standard	ASTM D2178, D4601, D4897
	1507.11.2, TAS 110	Material standard	ASTM D6162, D6163, D6164, D6222, D6509
	1523.6.2, TAS 110	Wind resistance	TAS 114, Appendix C, D or J
	TAS 114	Resistance to Foot Traffic	TAS 114, Section 8.9
	TAS 114	Susceptibility to Hail Damage	TAS 114, Appendix F
	TAS 114	Susceptibility to Leakage	TAS 114, Appendix G



NEMO EVALUATIONS REPORT

Report No.: NER-AMZ-003
Revision 0: 2026-09-01

Amrize Building Envelope LLC (Elevate)
FL48419



2. PRODUCTS:

TABLE 1A: EVALUATED ELEVATE COMPONENTS (NEMO Certified. Consult Directory of Certified Products for production location(s))				
TYPE	ELEVATE PRODUCT	MATERIAL STANDARD		
		REFERENCE	TYPE	GRADE
BASE SHEETS:	MB BASE	ASTM D4601	II	N/A
PLY SHEETS:	Ply IV	ASTM D2178	IV	N/A
	Ply VI	ASTM D2178	VI	N/A
SBS, SMOOTH-SURFACE MEMBRANES:	SBS Smooth HT	ASTM D6162	III	S
	SBS Torch Base HT	ASTM D6162	III	S
	SBS Torch Base 1.5 HT	ASTM D6162	III	S
	SBS Base	ASTM D6163	I	S
	SBS Premium Base	ASTM D6163	I	S
	SBS PolyBase	ASTM D6164	I	S
	SBS Premium Poly Base	ASTM D6164	II	S
	SBS Poly Torch Base	ASTM D6164	I	S
	SBS Base	ASTM D6163	I	S
	SBS Glass Torch Base	ASTM D6163	I	S
	SBS Glass Torch Base 1.5	ASTM D6163	I	S
	SBS Smooth	ASTM D6164	I	S
SBS, GRANULE-SURFACE MEMBRANES:	SBS FR HT	ASTM D6162	III	G
	SBS FR Torch HT	ASTM D6162	III	G
	SBS Glass	ASTM D6163	I	G
	SBS Glass FR	ASTM D6163	I	G
	SBS Glass FR UltraWhite	ASTM D6163	I	G
	SBS Glass FR Torch	ASTM D6163	I	G
	SBS Glass FR Torch UltraWhite	ASTM D6163	I	G
	SBS Premium	ASTM D6164	I	G
	SBS Premium SRG	ASTM D6164	I	G
	SBS Premium FR	ASTM D6164	I	G
	SBS Premium FR SRG	ASTM D6164	I	G
	SBS Premium FR UltraWhite	ASTM D6164	I	G
	SBS Premium Torch	ASTM D6164	I	G
	SBS Premium Torch SRG	ASTM D6164	I	G
	SBS Premium Torch UltraWhite	ASTM D6164	I	G
	SBS Premium FR Torch	ASTM D6164	I	G
	SBS Premium FR Torch SRG	ASTM D6164	I	G
	SBS Premium FR Torch UltraWhite	ASTM D6164	I	G
	SBS Cap	ASTM D6164	I	G
	SBS Cap UltraWhite	ASTM D6164	I	G
	SBS FR Cap	ASTM D6164	I	G
	SBS FR Cap UltraWhite	ASTM D6164	I	G
	SBS Torch	ASTM D6164	I	G
	SBS Torch UltraWhite	ASTM D6164	I	G
	SBS FR Torch	ASTM D6164	I	G
	SBS FR Torch UltraWhite	ASTM D6164	I	G



NEMO EVALUATIONS REPORT

Report No.: NER-AMZ-003

Revision 0: 2026-09-01

Amrize Building Envelope LLC (Elevate)

FL48419



ISO/IEC 17065

PCA-145

TABLE 1B: EVALUATED ELEVATE ACCESSORIES (Contact contact@nemocert.com for production location(s) of non-Certified products)		
TYPE	PRODUCT	MATERIAL STANDARD
BASE SHEETS:	Channel Venting Base	ASTM D4897
	Venting Base Sheet	ASTM D4897
SBS, GRANULE-SURFACE	SBS Glass UltraWhite	ASTM D6163
MEMBRANES:	SBS Premium UltraWhite	ASTM D6164

TABLE 2: ACCESSORY COMPONENTS (4.1.4) (Refer to NOA if listed version was superseded to ensure use of latest version)				
TYPE	ELEVATE PRODUCT	ACCEPTABLE ALTERNATE	FBC	NOA
ROOFING FASTENERS:	MB 2" Barbed Metal Lap Plate	N/A	N/A	N/A
	Elevate Heavy-Duty Plus	N/A	N/A	N/A
	Elevate Coiled Metal Batten Strip	N/A	N/A	N/A
	Elevate Two Piece Impact Nails	N/A	N/A	N/A
	Elevate 1.7 Assembled LWC Base Ply Fastener	N/A	N/A	N/A
	Elevate Two Piece Impact Nail	N/A	N/A	N/A
	OMG C-R Assembled Base Sheet Fastener	N/A	N/A	N/A
	Elevate Polymer Fastener	N/A	N/A	N/A
	Polymer Fastener Insulation Plate	N/A	N/A	N/A
	Versa-Fast Fastener V19	N/A	N/A	N/A
	Versa-Fast Metal Plate V19	N/A	N/A	N/A
	Elevate All-Purpose Fastener	N/A	N/A	N/A
	Elevate Heavy-Duty Fastener	N/A	N/A	N/A
	Elevate Concrete Drive Fastener	N/A	N/A	N/A
	Elevate Insulation Fastening Plate	N/A	N/A	N/A
ADHESIVES:	I.S.O. Twin Pack Insulation Adhesive	N/A	N/A	25-1023.18
	I.S.O. Spray R	N/A	N/A	25-1023.20
	Elevate Twin Jet Y	N/A	N/A	N/A
	Elevate Twin Jet	N/A	N/A	25-1023.20
	I.S.O. Stick	N/A	N/A	N/A
INSULATIONS:	Elevate Multi-Purpose MB Cold Adhesive	N/A	N/A	25-0505.05
	ISOGARD GL	ISO 95+ GL	N/A	25-1023.17
	ISOGARD CG	RESISTA	N/A	25-1023.17
	ISOGARD HD	N/A	N/A	25-1023.17
	ISOGARD HD Composite	N/A	N/A	25-1023.17
	ISOGARD HG	HailGard	N/A	25-1023.17
	N/A	DensDeck Prime	FL1250	22-1223.04
	N/A	DensDeck StormX Prime Roof Board	N/A	N/A
	N/A	DEXcell FA Glass Mat Roof Board	FL17840	25-0722.11
	N/A	SECUROCK Cement Roof Board	FL4264	25-1017.02
	N/A	SECUROCK Gypsum-Fiber Roof Board	FL4264	25-1017.02
	N/A	Celcore Cellular Concrete	FL2037	24-0906.02
	N/A	Concrecel Lightweight Insulating Concrete	FL5584	21-1229.06
	N/A	Elastizell Lightweight Insulating Concrete	FL4994	23-0817.05
	N/A	Mearlcrete	FL13492	24-0514.06



NEMO EVALUATIONS REPORT

Report No.: NER-AMZ-003
Revision 0: 2026-09-01

Amrize Building Envelope LLC (Elevate)
FL48419



3. INSTALLATION:

3.1 **Elevate Modified Bitumen Waterproofing Systems** shall be installed in accordance with **Amrize Building Envelope LLC (Elevate)** 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	Elevate All-Purpose or Heavy-Duty Fastener with Elevate Insulation Fastening Plate	Min. 0.75-inch penetration (engineered sheathing) or min. 1-inch embedment (plank)
STEEL	Elevate All-Purpose or Heavy-Duty Fastener with Elevate Insulation Fastening Plate	Min. 0.75-inch penetration
STRUCTURAL CONCRETE	Elevate Heavy-Duty or Concrete Drive Fastener with Elevate Insulation Fastening Plate	Non-HVHZ: Min. 1-inch embedment HVHZ: Min. 1.25-inch embedment

3.1.2 Insulation:

- (a) Unless otherwise noted, insulation may be any one layer or combination of Approved board(s) that meet IBC, CBC, or FBC 1505, FBC R902 or FBC HVHZ 1516 and, for foam plastic, IBC, CBC, or FBC Chapter 26, when installed with the roof cover.
- (b) For Structural Concrete Deck or Recover Applications using System Type C-1 the base insulation layer is optional, and using System Type C-2, D-1 or D-2, the insulation is optional. Alternatively, an Approved insulation board or coverboard may be used as a separation layer. Board products shall be preliminarily attached prior to roof cover installation. The separator component shall be documented as meeting IBC, CBC, or FBC 1505, FBC R902 or FBC HVHZ 1516 and, for foam plastic, IBC, CBC, or FBC Chapter 26, when installed with the roof cover in Recover applications.
- (c) Minimum 200 psi, minimum 2-inch thick Approved lightweight insulating concrete may be substituted for, or installed below, rigid insulation board for System Types B-1, C-1, C-2, D-1 or D-2, whereby fasteners are installed through the lightweight insulating concrete to engage the structural deck. The structural deck shall be of equal or greater type, thickness and strength to the steel and structural concrete deck listings. Roof decks and structural members shall be in accordance with applicable Code requirements to the satisfaction of the Authority Having Jurisdiction. This is a wind uplift resistance allowance and does not purport to address non-wind-uplift-related issues, such as deck venting or moisture levels within the LWIC and the potential effect on overlying components.
- (d) **Florida Specific:** Lightweight insulating concrete (LWIC) shall be cast in accordance with FBC 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWIC is referenced, refer to current LWIC [Florida Product Approval](#) or [NOA](#) for specific deck construction and limitations. Unless otherwise noted, for systems where specific LWIC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWIC over structural concrete, reference is made to FBC 1917.4.1, Point 1. For “pre-existent” LWIC references, listings were established through testing over lightweight concrete cast using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Use of these listings in new construction or re-roof (tear-off) applications is at the discretion of the Designer or Record and Authority Having Jurisdiction.



NEMO EVALUATIONS REPORT

Report No.: NER-AMZ-003
Revision 0: 2026-09-01

Amrize Building Envelope LLC (Elevate)
FL48419



(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 1.8 ft² (9 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)



NEMO EVALUATIONS REPORT

Report No.: NER-AMZ-003
Revision 0: 2026-09-01

Amrize Building Envelope LLC (Elevate)
FL48419



ISO/IEC 17065

PCA-145

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

1 per 4.0 ft ² (8 per board)	1 per 3.6 ft ² (9 per board)	1 per 2.7 ft ² (12 per board)	1 per 2.3 ft ² (14 per board)
1 per 2.1 ft ² (15 per board)	1 per 2.0 ft ² (16 per board)	1 per 1.8 ft ² (18 per board)	1 per 1.6 ft ² (20 per board)
1 per 1.5 ft ² (22 per board)	1 per 1.3 ft ² (24 per board)	1 per 1.0 ft ² (32 per board)	



NEMO EVALUATIONS REPORT

Report No.: NER-AMZ-003
Revision 0: 2026-09-01

Amrize Building Envelope LLC (Elevate)

FL48419



ISO/IEC 17065

PCA-145

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

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

(g) In addition to [Table 2](#), the following products are interchangeable within the scope of this NER:

TABLE 4C: ACCEPTABLE ALTERNATES		
TYPE	LISTED PRODUCT	ALTERNATE PRODUCT
ROOFING INSULATION:	ISOGARD GL	ISO 95+ GL
	ISOGARD CG	RESISTA
	ISOGARD HG	HailGard
	DensDeck Prime	DensDeck StormX Prime Roof Board

3.1.3 Insulation Adhesives:

- (a) Unless otherwise noted, insulation adhesive application rate is continuous ribbons, maximum 12-inch o.c. Ribbons shall be applied and insulation boards shall be set in accordance with the manufacturer's published instructions. When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, boards shall be staggered from layer-to-layer. The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing. When applied to profiled steel roof deck, ribbons shall be applied to the top-flange so as to establish positive-contact with the overlying insulation board.

TABLE 5A: INSULATION ADHESIVE REFERENCES			
ADHESIVE	REFERENCE	MINIMUM RATE	NOTE
I.S.O. Spray R	N/A	Continuous 0.5 to 0.75-inch wide ribbons, 12-inch o.c.	
I.S.O. Stick	N/A	Continuous 0.75 to 1-inch wide ribbons, 12-inch o.c.	
I.S.O. Twin Pack	N/A	Continuous 0.5 to 0.75-inch wide ribbons, 12-inch o.c.	
Twin Jet	N/A	Continuous 0.75-inch wide ribbons, 12-inch o.c.	Twin Jet may be used where I.S.O. Stick is referenced herein for insulation securement
Twin Jet Y	Twin Jet Y (RIBBON-1)	Continuous 1.0-inch to 2.5-inch ribbons, 12-inch o.c.	
Twin Jet Y	Twin Jet Y (RIBBON-2)	Continuous 2.5-3.5-inch ribbons, 12-inch o.c.	
Twin Jet Y	Twin Jet Y (SPATTER)	2.85 lbs/square	
ASTM D312, Type IV hot asphalt	N/A	Full coverage at 25-30 lbs/square	If applying hot asphalt to concrete deck, deck shall be primed with ASTM D41 primer



NEMO EVALUATIONS REPORT

Report No.: NER-AMZ-003

Revision 0: 2026-09-01

Amrize Building Envelope LLC (Elevate)

FL48419



ISO/IEC 17065

PCA-145

- (b) The following insulation adhesives may be 'spatter-applied' in lieu of ribbon applied, with the following Maximum Design Pressure (MDP) limitations. In no case shall these values be used to add/amend insulation options or 'increase' the MDP listings in the tables; rather, if a board-stock option is listed in both your selected system and in the summary below, and if the MDP listing in the summary below meets or exceeds that of your selected system, then the 'spatter-application' is permissible in lieu of the ribbon-application.

TABLE 5B: INSULATION ADHESIVE REFERENCES, SPATTER-APPLIED, RATES		
I.S.O. Spray R	0.55 to 0.75 gal/sq.	
Twin Jet	0.318 gal/sq.	
Twin Jet Y	2.85 lbs/sq	
SPATTER-APPLIED, SUBSTRATES AND MDP LIMITATIONS		
DECK	BOARD STOCK OPTIONS	MDP
Steel	Structodek High Density Fiberboard Roof Insulation and/or DensDeck	-45.0
	ISOGARD GL, ISOGARD CG, ISOGARD HD, ISOGARD HD Composite, ISOGARD HG, HailGard, DensDeck Prime and/or SECUROCK Gypsum-Fiber Roof Board	-127.5
Structural Concrete	Structodek High Density Fiberboard Roof Insulation and/or DensDeck	-142.5
	ISOGARD GL, ISOGARD CG, ISOGARD HD, ISOGARD HD Composite, ISOGARD HG, HailGard, DensDeck Prime and/or SECUROCK Gypsum-Fiber Roof Board	-495.0
Wood, Cementitious Wood Fiber or Existing Gypsum	ISOGARD GL, ISOGARD CG, ISOGARD HD, ISOGARD HD Composite, ISOGARD HG, HailGard, DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board and/or Structodek High Density Fiberboard Roof Insulation	-45.0

- (c) Unless otherwise noted, all adhered insulations are flat-stock or taper board of the minimum thickness noted. Tapered polyisocyanurate at the following thickness limitations may be substituted with the following Maximum Design Pressure (MDP) limitations. In no case shall these values be used to 'increase' the MDP listings 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 selected assembly.

TABLE 5C: MDP LIMITATIONS FOR TAPERED POLYISOCYANURATE INSULATIONS			
ADHESIVE	INSULATION	MIN. TAPERED THICKNESS (IN)	MDP (psf)
I.S.O. Spray R	ISOGARD GL	0.5	-157.5
I.S.O. Stick		0.5	-187.5
I.S.O. Twin Pack		0.5	-157.5
Polyset CRA		1.0	-117.5
Hot asphalt		0.5	-120.0
I.S.O. Spray R, I.S.O. Stick or I.S.O. Twin Pack, 12-inch o.c.	ISOGARD CG	0.5	-165.0
I.S.O. Spray R, I.S.O. Stick or I.S.O. Twin Pack, 6-inch o.c.		0.5	-405.0

- (d) Adhered Insulation, Board Size:

- IBC, CBC, or 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.



NEMO EVALUATIONS REPORT

Report No.: NER-AMZ-003
Revision 0: 2026-09-01

Amrize Building Envelope LLC (Elevate)
FL48419



ISO/IEC 17065

PCA-145

3.1.4 Waterproofing Components:

(a) Unless otherwise noted, refer to the following for bonded and liquid applied waterproofing application rates.

TABLE 6A: WATERPROOFING APPLICATIONS			
REFERENCE	LAYER	MATERIAL	APPLICATION
SBS-CA	Base Ply or Ply:	SBS Base, SBS PolyBase, SBS Premium Base, SBS Premium Poly Base	Elevate Multi-Purpose MB Cold Adhesive at 1.5 - 2.0 gal/square
	Cap Ply:	SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Smooth, SBS Premium, SBS Premium SRG, SBS Premium UltraWhite, SBS Premium FR, SBS Premium FR SRG, SBS Premium FR UltraWhite, SBS Glass, SBS Glass UltraWhite, SBS Glass FR, SBS Glass FR UltraWhite	
SBS-AA	Base Ply:	SBS Base, SBS PolyBase, SBS Premium Base, SBS Premium Poly Base, SBS Smooth	Hot asphalt at 20-40 lbs/square
	Cap Ply:	SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Smooth, SBS Premium, SBS Premium SRG, SBS Premium UltraWhite, SBS Premium FR, SBS Premium FR SRG, SBS Premium FR UltraWhite, SBS Glass, SBS Glass UltraWhite, SBS Glass FR, SBS Glass FR UltraWhite	
SBS-TA	Base Ply:	SBS Poly Torch Base, SBS Glass Torch Base, SBS Glass Torch Base 1.5, SBS Smooth	Torch-Applied
	Cap Ply:	SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Smooth, SBS Premium Torch, SBS Premium Torch SRG, SBS Premium Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch SRG, SBS Premium FR Torch UltraWhite	

(b) The following Cap Ply membrane may be installed over sand-surfaced SBS-AA or SBS-TA Base Ply or Ply membranes within asphalt-applied and torch-applied systems noted herein, in which case the following Maximum Design Pressure (MDP) limitations apply. In no case shall the substitution and the associated limitation be used to 'increase' the MDP listing in the table; rather if the particular system is less than or equal to the noted cold-applied Cap Ply limitation, then the substitution is permitted.

TABLE 6B: MEMBRANE / ADHESIVE COMBINATIONS				
DECK TYPE	SYSTEM TYPE	LISTED CAP PLY (3.1.4A)	ALTERNATE COLD-APPLIED CAP PLY MEMBRANE	MDP (PSF)
Wood, Steel, Structural Concrete, LWC, CWF, Gypsum or Recover	B-1, B-3, B-2, C-1, D-2 or E-2	SBS-AA or SBS-TA	SBS-CA: SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Smooth, SBS Premium, SBS Premium SRG, SBS Premium UltraWhite, SBS Premium FR, SBS Premium FR SRG or SBS Premium FR UltraWhite	-127.5
Structural Concrete, LWC (over structural concrete), Gypsum or Recover (over structural concrete)	A-1 or F	SBS-AA or SBS-TA	SBS-CA: SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Smooth, SBS Premium, SBS Premium SRG, SBS Premium UltraWhite, SBS Premium FR, SBS Premium FR SRG, SBS Premium FR UltraWhite, SBS Glass, SBS Glass UltraWhite, SBS Glass FR or SBS Glass FR UltraWhite	-180.0



NEMO EVALUATIONS REPORT

Report No.: NER-AMZ-003
Revision 0: 2026-09-01

Amrize Building Envelope LLC (Elevate)
FL48419



ISO/IEC 17065

PCA-145

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 4-6 mil polyethylene (loose-laid) vapor barrier membranes 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.

3.1.6 Overburden:

- (a) Overburden of soil and plantings (for 'garden roofs', root barriers, filter fabric, drainage components, EPS / XPS insulation, etc.) or concrete topping slabs, that are specified by the Designer of Record, acceptable to the Authority Having Jurisdiction and do not form part of the load path to the waterproofing system, are permissible over the assemblies noted herein with no adverse effect on the wind uplift performance of the waterproofing system.
- (b) The Authority Having Jurisdiction may require integrity flood testing (ASTM D5957) or Electric Field Vector Mapping tests of all waterproofing systems prior to placement of overburden materials. Testing, if required by the Authority Having Jurisdiction, should be conducted by a qualified testing agency or professional.
- (c) For proprietary overburden components referenced herein, produced by a Product Manufacturer other than the report holder on Page 1 of this NER:
 - NEMO CERT, LLC does not purport to have evaluated said components for Code compliance. The scope of evaluation is limited to the as-tested interface of said components with the waterproofing systems.
 - Refer to the Approval documentation held by the component manufacturer to confirm Quality Assurance in accordance with F.A.C. Rule 61G20-3.
 - Florida Specific: Proprietary exterior elevated flooring systems shall demonstrate compliance with FBC 3115 to the satisfaction of the Authority Having Jurisdiction.



NEMO EVALUATIONS REPORT

Report No.: NER-AMZ-003
Revision 0: 2026-09-01

Amrize Building Envelope LLC (Elevate)

FL48419



ISO/IEC 17065

PCA-145

4. LIMITATIONS OF USE:

4.1 General:

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

4.1.2 Roof Decks:

- (a) This NER pertains to above-deck roof components. Roof decks and structural members shall be in accordance with applicable Code requirements to the satisfaction of the Authority Having Jurisdiction.
- (b) OSB sheathing is not permitted in FBC HVHZ jurisdictions.
- (d) Unless otherwise noted, reference to 'structural concrete' pertains to min. 2,500 psi structural concrete, and excludes 'structural lightweight concrete'.
- (e) FBC HVHZ Specific: The table below lists various 'as-tested' deck conditions in accordance with [Testing Application Standard TAS 114\(J\)](#). In no case shall these values be used to 'increase' the MDP listings for the selected systems; the lesser MDP applies.

TABLE 7: AS-TESTED DECK ATTACHMENT DETAILS (TAS 114, APPENDIX J)				
TYPE	AS TESTED SUB-ASSEMBLY			
	SPAN (INCH O.C.)	FASTENER	SPACING (INCH O.C.)	MDP (psf)
15/32-inch APA rated CDX plywood	24	#8 wood screws	6	-75.0
	24	8d ring shank nails	6	-90.0
	24	#10 wood screws	6	-90.0
	24	#8 wood screws	8	-97.5
	24	#10 wood screws	4	-127.5
19/32-inch APA rated CDX plywood	24	8d ring shank nails	4	-60.0
	24	8d ring shank nails	6	-90.0
	24	#10 wood screws	6	-90.0
	24	#8 wood screws	6	-105.0
	24	#10 wood screws	4	-127.5
23/32-inch APA rated CDX plywood	24	8d ring shank nails	6	-45.0
22 ga., Type B, Grade 33 steel	72	#12 HWH Tek 5	6	-82.5
	72	#12 HWH Tek 5 with 3/4" steel washers	6	-97.5
	72	Two (2) #12 HWH Tek 5 with 3/4" steel washers	6	-172.5
22 ga., Type B, Grade 40 steel	72	#12 HWH Tek 5	6	-75.0
	72	5/8" puddle welds	6	-82.5
	72	#12 HWH Tek 5 with 3/4" steel washers	6	-97.5
22 ga., Type B, Grade 80 steel	72	#12 HWH Tek 5	6	-82.5
	72	#12 HWH Tek 5 with 3/4" steel washers	6	-112.5
	72	Two (2) #12 HWH Tek 5 with 3/4" steel washers	6	-120.0
Note: Steel deck stress analysis is the responsibility of others to the satisfaction of the Authority Having Jurisdiction				

4.1.3 Fire Classification:

- (a) Refer to **FBC 1505**, **FBC HVHZ 1516**, **UL TGFU.R9516** and the fire classification certificate for the roof cover manufacturer for requirements and limitations regarding roof assembly fire classification.
- (b) Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.

4.1.4 Corrosion Resistance – Saltwater Environments:

Fasteners and connectors, if applicable, in areas within 3,000 feet of a saltwater coastline shall demonstrate compliance with FBC 1711 to the satisfaction of the Authority Having Jurisdiction.

4.1.5 Quality Assurance:

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



NEMO EVALUATIONS REPORT

Report No.: NER-AMZ-003
Revision 0: 2026-09-01

Amrize Building Envelope LLC (Elevate)
FL48419



ISO/IEC 17065

PCA-145

4.2 Jurisdiction Specific:

	FBC Non-HVHZ	FBC HVHZ
4.2.1	This NER does not include evaluation of roof edge termination. Refer to 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 FBC 1511 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 . (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. (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 .	Refer to FBC HVHZ 1521 for requirements and limitations regarding recover installations. 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 . 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. 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 FBC 1609 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 FBC Chapter 16 . Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD1 , FM Loss Prevention Data Sheet 1-29 , RAS 117 and RAS 137 . Assemblies marked with an asterisk* carry the limitations set forth in Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 for Zone 2/3 enhancements. (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.	 "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. Assemblies having a MDP < 45.0 psf are not permitted in FBC HVHZ jurisdictions. The MDP for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with FBC HVHZ 1620 or RAS 128 . Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Analysis shall be in accordance with RAS 117 or RAS 137 . 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) Structural Concrete Decks:

TABLE 8A: STRUCTURAL CONCRETE DECK VAPOR BARRIER FOLLOWED BY ADHERED INSULATION					
OPTION #	PRIMER	VAPOR BARRIER		INSULATION ADHESIVE PER TABLE 11A (3.1.3)	MDP (PSF)
		TYPE (3.1.4)	ATTACH		
C-VB-1.	ASTM D41	Base Ply: MB Base, SBS Base, SBS PolyBase, SBS Premium Base, SBS Premium Poly Base	Multi-Purpose MB Cold Adhesive, 1.5-2.0 gal/sq.	Multi-Purpose MB Cold Adhesive	-67.5*
C-VB-2.	ASTM D41	MB Base	I.S.O. Twin Pack, 4" o.c.	I.S.O. Twin Pack	-232.5
C-VB-3.	ASTM D41	1 or 2 plies Ply IV or Ply VI or 1 ply MB Base, SBS Base, SBS Polybase or SBS Premium Base	Hot asphalt	Hot asphalt	-120.0
C-VB-4.	ASTM D41	1 or 2 plies Ply IV or Ply VI or 1 ply MB Base, SBS Base, SBS Polybase or SBS Premium Base	Hot asphalt	I.S.O. Spray R or I.S.O. Twin Pack	-495.0
C-VB-5.	ASTM D41	SBS Poly Torch Base, SBS Glass Torch Base, SBS Glass Torch Base 1.5, SBS Smooth	Torch-applied	I.S.O. Spray R or I.S.O. Twin Pack	-495.0
C-VB-6.	ASTM D41	MB Base, SBS, Base, SBS PolyBase, SBS Premium Base or SBS Premium Poly Base	Hot asphalt	Twin Jet, 4-inch o.c.	-337.5
C-VB-7.	ASTM D41	SBS Poly Torch Base, SBS Glass Torch Base, SBS Glass Torch Base 1.5, SBS Smooth	Torch-applied	Twin Jet, 4-inch o.c.	-337.5



4.3.2 Roof Assemblies:

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
9A	Wood	New or Reroof (Tear-Off)	C-1	Mechanically Attached Insulation, Bonded Roof Cover	16
9B	Wood	New or Reroof (Tear-Off)	D-2	Insulated, Mechanically Attached Anchor Sheet, Bonded Roof Cover	16
9C	Wood	New or Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached Anchor Sheet, Bonded Roof Cover	17
9D	Wood	New, Reroof (Tear-Off), or Recover	E-2	Non-Insulated, Mechanically Attached Anchor Sheet, Bonded Roof Cover	18Error! Bookmark not defined.
10A	Steel or Structural Concrete	New, Reroof (Tear-Off), or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation(s), Bonded Roof Cover	18
10B	Steel or Structural Concrete	New, Reroof (Tear-Off), or Recover	C-1	Insulated, Mechanically Attached Insulation, Bonded Roof Cover	21
10C	Steel or Structural Concrete	New, Reroof (Tear-Off), or Recover	D-2	Insulated, Mechanically Attached Anchor Sheet, Bonded Roof Cover	24
11A	Structural Concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation(s), Bonded Roof Cover	26
11B	Structural Concrete	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	29
12A	Deck with Lightweight Concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation(s), Bonded Roof Cover	29
12B	Deck with Lightweight Concrete	New or Reroof (Tear-Off)	B-3	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	34
12C	LWC over Steel or Structural Concrete Decks	New or Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached Anchor Sheet, Bonded Roof Cover	35
12D	LWC over Steel or Structural Concrete Decks	New or Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached Anchor Sheet, Bonded Roof Cover	39
13A	Cementitious Wood Fiber	New, Reroof (Tear-Off), or Recover	B-3	Mechanically Attached Anchor Sheet, Bonded Insulation(s), Bonded Roof Cover	40
13B	Cementitious Wood Fiber	New, Reroof (Tear-Off), or Recover	D-2	Insulated, Mechanically Attached Anchor Sheet, Bonded Roof Cover	40
13C	Cementitious Wood Fiber	New, Reroof (Tear-Off), or Recover	E-2	Non-Insulated, Mechanically Attached Anchor Sheet, Bonded Roof Cover	40
14A	Existing Gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation(s), Bonded Roof Cover	41
14B	Existing Gypsum	Reroof (Tear-Off)	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	42
14C	Existing Gypsum	Reroof (Tear-Off)	B-3	Mechanically Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	43
14D	Existing Gypsum	Reroof (Tear-Off)	D-2	Insulated, Mechanically Attached Anchor Sheet, Bonded Roof Cover	43
14E	Existing Gypsum	Reroof (Tear-Off)	E-2	Non-Insulated, Mechanically Attached Anchor Sheet, Bonded Roof Cover	44
15A	Various	Recover	A-1	Bonded Insulation(s), Bonded Roof Cover	44



TABLE 9A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER (3.1.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)			OVERBURDEN (3.1.6)	MDP (psf)
			TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2)	BASE PLY	PLY	CAP PLY		
COLD-APPLIED BASE PLY; ELEVATE MULTI-PURPOSE MB COLD ADHESIVE:										
W-49.	Min. 15/32-inch plywood at max. 24-inch spans.	(Optional) One or more layers, any combination, loose laid	Min. 1-inch ISOGARD CG	3.1.1	1 per 2.7 ft²	SBS-CA	(Optional) SBS-CA, SBS-AA, or SBS-TA	SBS-CA, SBS-AA, or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-40.0* (NO FBC HVHZ)
W-50.	Min. 19/32-inch plywood or wood plank	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch ISOGARD HD	3.1.1	1 per 2.1 ft²	SBS-CA	(Optional) SBS-CA, SBS-AA, or SBS-TA	SBS-CA, SBS-AA, or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-50.0*
ASPHALT / TORCH APPLIED BASE PLY:										
W-51.	Min. 19/32-inch plywood at max. 24-inch spans	One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	3.1.1	1 per 2.0 ft²	SBS-AA or SBS-TA	(Optional) SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-30.0* (NO FBC HVHZ)
W-52.	Min. 23/32-inch plywood or wood plank	One or more layers, any combination, loose laid	Min. 0.5-inch Dens-Deck, Dens-Deck Prime	3.1.1	1 per 3.6 ft²	SBS-AA	(Optional) SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*

TABLE 9B: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	INSULATION LAYER(S) (3.1.2)		BASE OR ANCHOR SHEET			ROOF COVER (3.1.4)		OVERBURDEN (3.1.6)	MDP (PSF)
		TYPE	ATTACH (3.1.3)	TYPE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	CAP PLY		
W-53.	Min. 19/32-inch plywood at max. 24-inch spans	One or more layers, any combination	Prelim. Attached	MB Base, Channel Venting Base	3.1.1	12-inch o.c. in the 4-inch side lap and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
W-54.	Min. 19/32-inch plywood at max. 24-inch spans	One or more layers, any combination	Prelim. Attached	MB Base, Channel Venting Base	3.1.1	12-inch o.c. in the 4-inch side lap and 12-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-52.5

**NEMO EVALUATIONS REPORT**

Report No.: NER-AMZ-003

Revision 0: 2026-09-01

Page 17 of 46

Amrize Building Envelope LLC (Elevate)

FL48419



ISO/IEC 17065

PCA-145

TABLE 9c: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	BASE SHEET			ROOF COVER (3.1.4)		OVERBURDEN (3.1.6)	MDP (PSF)
		BASE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	CAP PLY		
ASPHALT OR TORCH APPLIED BASE PLY:								
W-55.	Min. 19/32-inch plywood at max. 24-inch spans	MB Base, Channel Venting Base	FBC HVHZ 1519.5.1 nails & tin caps	9-inch o.c. at the 4-inch side lap and 18-inch o.c. at two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
W-56.	Min. 19/32-inch plywood at max. 24-inch spans	MB Base, Channel Venting Base	FBC HVHZ 1519.5.1 nails & tin caps	6-inch o.c. at the 4-inch side lap and 6-inch o.c. at two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-52.5
W-57.	Min. 19/32-inch plywood at max. 24-inch spans, blocked max. 78-inch o.c.	MB Base, Channel Venting Base	FBC HVHZ 1519.5.1 nails & tin caps	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at three (3), equally spaced, staggered rows in the center of the sheet	One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-52.5
W-58.	Min. 19/32-inch plywood at max. 24-inch spans, blocked max. 78-inch o.c.	SBS Base	FBC HVHZ 1519.5.1 nails & tin caps	6-inch o.c. at the 3-inch side lap and 6-inch o.c. at three (3), equally spaced, staggered rows in the center of the sheet	One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-97.5



TABLE 9d: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	BASE SHEET			ROOF COVER (3.1.4)		OVERBURDEN (3.1.6)	MDP (PSF)
		BASE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	CAP PLY		
ASPHALT OR TORCH APPLIED BASE PLY:								
W-59.	Min. 19/32-inch plywood at max. 24-inch spans attached	MB Base, Channel Venting Base	3.1.1	12-inch o.c. in the 4-inch side lap and 12-inch o.c. in two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-52.5
W-60.	Min. 19/32-inch plywood at max. 24-inch spans, blocked max. 78-inch o.c.	MB Base, Channel Venting Base	3.1.1	12-inch o.c. in the 3.5-inch side lap and 12-inch o.c. in two (2), equally spaced, staggered rows in the center of the sheet	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-60.0
W-61.	Min. 19/32-inch plywood at max. 24-inch spans, blocked max. 78-inch o.c.	MB Base, Channel Venting Base	3.1.1	12-inch o.c. in the 2-inch side lap and 12-inch o.c. in two (2), equally spaced, staggered rows in the center of the sheet	One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-75.0

TABLE 10A: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BONDED INSULATION, BONDED TOP INSULATION(S), BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER		ROOF COVER (3.1.4)			OVERBURDEN (3.1.6)	MDP (PSF)*
		TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2E)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
COLD-APPLIED BASE; ELEVATE MULTI-PURPOSE MB COLD ADHESIVE:											
SC-1.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	3.1.1	1 per 2.0 ft²	Min. 1.5-inch ISOGARD GL followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-30.0* (NO FBC HVHZ)
SC-2.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISOGARD GL or ISOGARD CG	3.1.1	1 per 2.0 ft²	Optional base insulation or Min. 0.5-inch Tapered ISOGARD GL or Tapered ISOGARD CG; Min. 0.5-inch ISOGARD HD	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
SC-3.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISOGARD GL or ISOGARD CG	3.1.1	1 per 2.0 ft²	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*



TABLE 10A: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BONDED INSULATION, BONDED TOP INSULATION(S), BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER		ROOF COVER (3.1.4)			OVERBURDEN (3.1.6)	MDP (PSF)*
		TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2E)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
SC-4.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	3.1.1	1 per 2.0 ft ²	Min. 1.5-inch ISOGARD GL followed by min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray R; I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-30.0* (NO FBC HVHZ)
SC-5.	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2-inch ISOGARD GL or ISOGARD CG	3.1.1	1 per 4.0 ft ²	Optional base insulation or Min. 0.5-inch Tapered ISOGARD GL or Tapered ISOGARD CG; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board or min. 0.5-inch ISOGARD HD	I.S.O. Spray R; I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-37.5* (NO FBC HVHZ)
SC-6.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISOGARD GL or ISOGARD CG	3.1.1	1 per 3.2 ft ²	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray R; I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-37.5* (NO FBC HVHZ)
SC-7.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min 1.5-inch ISOGARD GL or ISOGARD CG	3.1.1	1 per 2.0 ft ²	Min. 0.5-inch Tapered ISOGARD GL or ISOGARD CG	I.S.O. Spray R; I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-37.5* (NO FBC HVHZ)
SC-8.	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2.2-inch ISOGARD GL or ISOGARD CG	3.1.1	1 per 4.0 ft ²	Optional base insulation or Min. 0.5-inch Tapered ISOGARD GL or Tapered ISOGARD CG; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board or min. 0.5-inch ISOGARD HD	I.S.O. Spray R; I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
SC-9.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISOGARD GL or ISOGARD CG	3.1.1	1 per 2.0 ft ²	Optional base insulation or Min. 0.5-inch Tapered ISOGARD GL or Tapered ISOGARD CG; Min. 0.5-inch ISOGARD HD	I.S.O. Spray R; I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*



TABLE 10A: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BONDED INSULATION, BONDED TOP INSULATION(S), BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER		ROOF COVER (3.1.4)			OVERBURDEN (3.1.6)	MDP (PSF)*
		TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.2e)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
ASPHALT AND/OR TORCH APPLIED BASE:											
SC-10.	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2-inch ISOGARD GL or ISOGARD CG	3.1.1	1 per 4.0 ft²	Optional base insulation or Min. 0.5-inch Tapered ISOGARD GL or Tapered ISOGARD CG; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray R; I.S.O. Twin Pack; Twin Jet; Twin Jet Y (RIBBON-1)	SBS-AA or SBS-TA	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-37.5* (NO FBC HVHZ)
SC-11.	Min. 22 ga., type B, Grade 33 steel or structural concrete	Min. 2.2-inch ISOGARD GL or ISOGARD CG	3.1.1	1 per 4.0 ft²	Optional base insulation or Min. 0.5-inch Tapered ISOGARD GL or Tapered ISOGARD CG; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray R; I.S.O. Twin Pack; Twin Jet; Twin Jet Y (RIBBON-1)	SBS-AA or SBS-TA	(Optional) One or more, SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
SC-12.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 0.5-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	3.1.1	1 per 2.0 ft²	Min. 1.5-inch ISOGARD GL; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack; Twin Jet; Twin Jet Y (RIBBON-1)	SBS-AA or SBS-TA	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
SC-13.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch ISOGARD GL	3.1.1	1 per 1.6 ft²	Optional min. 0.5-inch base insulation; Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick or Twin Jet, 6-inch o.c., or Twin Jet Y (RIBBON-1, 4-inch o.c.)	SBS-AA or SBS-TA	(Optional) One or more SBS-AA, or SBS-TA	SBS-AA, or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5
SC-14.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch ISOGARD GL	3.1.1	1 per 1.0 ft²	Min. 0.5-inch Dens Deck Prime	I.S.O. Spray R; Twin Jet; Twin Jet Y (RIBBON-1)	SBS-AA or SBS-TA	(Optional) SBS-AA or SBS-TA	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-82.5
SC-15.	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 2-inch ISOGARD GL	3.1.1	1 per 1.0 ft²	Min. 0.5-inch Dens Deck Prime	I.S.O. Spray R Twin Jet; Twin Jet Y (RIBBON-1)	SBS-AA or SBS-TA	(Optional) SBS-AA or SBS-TA	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-97.5



**TABLE 10B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER
 SYSTEM TYPE C-1: INSULATED, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER (3.1.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)			OVERBURDEN (3.1.6)	MDP (psf)
			TYPE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	PLY	CAP PLY		
COLD-APPLIED BASE; ELEVATE MULTI-PURPOSE MB COLD ADHESIVE:										
SC-16.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD GL	3.1.1	1 per 2.0 ft²	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
SC-17.	Min. 22 ga., type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 2.3-inch ISOGARD GL	3.1.1	1 per 2.0 ft²	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
SC-18.	Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD GL	3.1.1	1 per 2.0 ft²	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
SC-19.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck or 0.25-inch SECUROCK Gypsum Fiber Roof Board	3.1.1	1 per 2.0 ft²	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
SC-20.	Min. 22 ga., Type B, Grade 33 or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch ISOGARD HD	3.1.1	1 per 2.7 ft²	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
SC-21.	Min. 22 ga., Type B, Grade 33 or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite	3.1.1	1 per 4.0 ft²	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
SC-22.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISOGARD GL	3.1.1	1 per 1.3 ft²	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-52.5
SC-23.	Min. 22 ga., type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 2.3-inch ISOGARD GL	3.1.1	1 per 1.3 ft²	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-52.5



TABLE 10B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER
SYSTEM TYPE C-1: INSULATED, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER (3.1.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)			OVERBURDEN (3.1.6)	MDP (PSF)
			TYPE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	PLY	CAP PLY		
SC-24.	Min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISOGARD GL	3.1.1	1 per 1.3 ft²	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-52.5
SC-25.	Min. 22 ga. Type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ISOGARD GL, long joints staggered 4 ft	3.1.1	1 per 1.8 ft²	SBS-CA	None	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-60.0
SC-26.	Min. 22 ga. Type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite, long joints staggered 4 ft	3.1.1	1 per 2.7 ft²	SBS-CA	None	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-60.0
SC-27.	Min. 22 ga. Type B, Grade 33 steel	One or more layers, min. 0.5-inch, any combination, loose laid	Min. 1-inch ISOGARD CG or min. 0.5-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board, long joints staggered 4 ft	3.1.1	1 per 1.6 ft²	SBS-CA	None	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5
SC-28.	Min. 22 ga. Type B, Grade 33 steel	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch ISOGARD HD Composite, long joints staggered 4 ft	3.1.1	1 per 1.8 ft²	SBS-CA	None	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-75.0
SC-29.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISOGARD GL	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	3.1.1	1 per 1.45 ft²	SBS-CA	None	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-90.0
ASPHALT AND/OR TORCH APPLIED BASE:										
SC-30.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens-Deck Prime	3.1.1	1 per 4.0 ft²	SBS-AA or SBS-TA	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
SC-31.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck or 0.25-inch SECUROCK Gypsum Fiber Roof Board	3.1.1	1 per 2.0 ft²	SBS-AA or SBS-TA	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*



TABLE 10B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER
SYSTEM TYPE C-1: INSULATED, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER (3.1.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)			OVERBURDEN (3.1.6)	MDP (PSF)
			TYPE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	PLY	CAP PLY		
SC-32.	Min. 22 ga. Type B, Grade 33 steel	One or more layers, min. 1-inch, any combination, loose laid	Min. 0.5-inch Dens Deck Prime, long joints staggered 4 ft	3.1.1	1 per 1.3 ft ²	SBS-AA or SBS-TA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5
SC-33.	Min. 22 ga. Type B, Grade 33 steel	One or more layers, min. 1-inch, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, long joints staggered 4 ft	3.1.1	1 per 1.8 ft ²	SBS-AA or SBS-TA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5
SC-34.	Min. 22 ga. Type B, Grade 33 steel	One or more layers, min. 1-inch, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board, long joints staggered 4 ft	3.1.1	1 per 1.8 ft ²	SBS-AA or SBS-TA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-75.0
SC-35.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISOGARD GL	Min. 0.5-inch Dens-Deck Prime	3.1.1	1 per 1.3 ft ²	SBS-TA	None	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-97.5
SC-36.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.2-inch ISOGARD GL	Min. 0.5-inch Dens-Deck Prime	3.1.1	1 per 1.3 ft ²	SBS-AA	One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-112.5
SC-37.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISOGARD GL	Min. 0.5-inch Dens-Deck Prime	3.1.1	1 per 1.0 ft ²	SBS-TA	None	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-127.5
SC-38.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch ISOGARD GL	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	3.1.1	1 per 1.0 ft ²	SBS-TA	(Optional) SBS-TA	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-150.0
SC-39.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.2-inch ISOGARD GL	Min. 0.5-inch Dens-Deck Prime	3.1.1	1 per 1.0 ft ²	SBS-AA	One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-157.5



TABLE 10b: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER
SYSTEM TYPE C-1: INSULATED, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER (3.1.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)			OVERBURDEN (3.1.6)	MDP (PSF)
			TYPE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	PLY	CAP PLY		
SC-40.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.2-inch ISOGLAD GL	Min. 0.5-inch SECURROCK Gypsum-Fiber Roof Board	3.1.1	1 per 1.3 ft ²	SBS-AA	One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-157.5
SC-41.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.2-inch ISOGLAD GL	Min. 0.5-inch SECURROCK Gypsum-Fiber Roof Board	3.1.1	1 per 1.0 ft ²	SBS-AA	One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-172.5

TABLE 10c: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER
SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED ROOF COVER

SYSTEM No.	DECK (4.1.2)	INSULATION LAYER(S) (3.1.2)		BASE OR ANCHOR SHEET			ROOF COVER (3.1.4)		OVERBURDEN (3.1.6)	MDP (PSF)
		TYPE	ATTACH (3.1.3)	TYPE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	CAP PLY		
COLD-APPLIED; ELEVATE MULTI-PURPOSE MB COLD ADHESIVE:										
SC-42.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	SBS Base, SBS Premium Base	SFS Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8 plate	18-inch o.c. at the 3-inch side lap and 12-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
SC-43.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Loose-laid	MB Base, Channel Venting Base	3.1.1	12-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	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
SC-44.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	SBS Poly Base	Elevate All Purpose Fastener with MB 2” Barbed Metal Lap Plate	12-inch o.c. within the 4-inch torch side lap	None	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*



**TABLE 10c: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER
 SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED ROOF COVER**

SYSTEM NO.	DECK (4.1.2)	INSULATION LAYER(S) (3.1.2)		BASE OR ANCHOR SHEET			ROOF COVER (3.1.4)		OVERBURDEN (3.1.6)	MDP (PSF)
		TYPE	ATTACH (3.1.3)	TYPE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	CAP PLY		
SC-45.	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch ISO GARD GL or ISO 300	Loose-laid	SBS Poly Torch Base	Elevate Heavy-Duty Plus with Elevate Coiled Metal Batten Strip	12-inch o.c. through the batten strips within the 3-inch torched laps spaced 36.5-inch o.c.	None	SBS-CA (polyester only)	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5
SC-46.	Min. 22 ga., type B, Grade 33 steel	Min. 1.5-inch ISO GARD GL or ISO 300	Loose-laid	SBS Poly Torch Base	Elevate Heavy-Duty Plus with Elevate Coiled Metal Batten Strip	6-inch o.c. through the batten strips within the 3-inch torched laps spaced 36.5-inch o.c.	None	SBS-CA (polyester only)	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-112.5
SC-47.	Min. 22 ga., type B, Grade 80 steel	Min. 1.5-inch ISO GARD GL or ISO 300	Loose-laid	SBS Poly Torch Base	Elevate Heavy-Duty Plus with Elevate Coiled Metal Batten Strip	6-inch o.c. through the batten strips within the 3-inch torched laps spaced 36.5-inch o.c.	None	SBS-CA (polyester only)	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-127.5
ASPHALT AND/OR TORCH APPLIED:										
SC-48.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	MB Base, Channel Venting Base	3.1.1	18-inch o.c. at the 3-inch side lap and 36-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
SC-49.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination	Prelim. Attached	SBS Poly Torch Base	Elevate All Purpose Fastener with MB 2" Barbed Metal Lap Plate	18-inch o.c. within the 4-inch torched side lap.	(Optional) SBS-TA	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
SC-50.	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination	Prelim. Attached	SBS Poly Base	Elevate HD Fastener with Elevate Coiled Metal Batten Strip	18-inch o.c. through the batten strips at the 4-inch laps	One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-52.5
SC-51.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	SBS Poly Torch Base	Elevate HD Fastener with Elevate Batten Strips	12-inch o.c. through the batten strips within the 4-inch wide torched laps	(Optional) SBS-TA	SBS-TA (polyester only)	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5

**TABLE 10c: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER
SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED ROOF COVER**

SYSTEM NO.	DECK (4.1.2)	INSULATION LAYER(S) (3.1.2)		BASE OR ANCHOR SHEET			ROOF COVER (3.1.4)		OVERBURDEN (3.1.6)	MDP (PSF)
		TYPE	ATTACH (3.1.3)	TYPE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	CAP PLY		
SC-52.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	MB Base, Channel Venting Base or Venting Base Sheet	3.1.1	12-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	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-82.5
SC-53.	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	One or more layers, any combination	Prelim. Attached	SBS Poly Torch Base	Elevate HD Plus Fastener with Elevate Coiled Metal Batten Strip	6-inch o.c. through the batten strips within the 4-inch torched laps	(Optional) SBS-TA	SBS-TA (polyester only)	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-157.5

**TABLE 11A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
REFER TO Table 8a FOR VAPOR BARRIER OPTIONS**

SYSTEM No.	DECK (4.1.2)	PRIMER	BASE INSULATION LAYER		TOP INSULATION LAYER		ROOF COVER (3.1.4)			OVERBURDEN (3.1.6)	MDP (psf)
			TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
COLD-APPLIED BASE; ELEVATE MULTI-PURPOSE MB COLD ADHESIVE:											
C-1.	Min. 2,500 psi structural concrete	Optional ASTM D41	Min. 1.5-inch ISOGARD CG	I.S.O. Stick, I.S.O. Spray R, I.S.O. Twin Pack, Twin Jet, or Twin Jet Y (RIBBON-1)	Optional additional layers or base insulation and/or min. 0.5-inch Tapered ISOGARD CG	I.S.O. Stick, I.S.O. Spray R, I.S.O. Twin Pack, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-52.5
C-2.	Min. 2,500 psi structural concrete	Optional ASTM D41	Min. 1.5-inch ISOGARD GL	I.S.O. Stick, I.S.O. Spray R, I.S.O. Twin Pack, Twin Jet, or Twin Jet Y (RIBBON-1)	(Optional) Additional layers of min. 1-inch base insulation and/or min. 0.5-inch Tapered ISOGARD GL followed by min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick, I.S.O. Spray R, I.S.O. Twin Pack, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-60.0
C-3.	Min. 2,500 psi structural concrete	Optional ASTM D41	Min. 1.5-inch ISOGARD GL	I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack; Twin Jet or Twin Jet Y (RIBBON-1)	(Optional) One or more layers base insulation	I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack; Twin Jet or Twin Jet Y (RIBBON-1)	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5

**NEMO EVALUATIONS REPORT**

Report No.: NER-AMZ-003

Revision 0: 2026-09-01

Page 27 of 46

Amrize Building Envelope LLC (Elevate)

FL48419



ISO/IEC 17065 PCA-145

TABLE 11A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
 REFER TO [Table 8a](#) FOR VAPOR BARRIER OPTIONS

SYSTEM No.	DECK (4.1.2)	PRIMER	BASE INSULATION LAYER		TOP INSULATION LAYER		ROOF COVER (3.1.4)			OVERBURDEN (3.1.6)	MDP (PSF)
			TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
C-4.	Min. 2,500 psi structural concrete	Optional ASTM D41	(Optional) One or more layers of min. 1.5-inch ISOGARD GL	I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack; Twin Jet or Twin Jet Y (RIBBON-1)	Min. 0.5-inch ISOGARD HD	I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack; Twin Jet or Twin Jet Y (RIBBON-1)	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5
C-5.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISOGARD GL	I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack, Twin Jet or Twin Jet Y (RIBBON-1)	(Optional) One or more layers base insulation	I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack, Twin Jet or Twin Jet Y (RIBBON-1)	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-82.5
C-6.	Min. 2,500 psi structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick; I.S.O. Spray R; I.S.O. Twin Pack; Twin Jet; Twin Jet Y (RIBBON-1)	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-AA, SBS-TA	SBS-CA, SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-144.5
ASPHALT AND/OR TORCH APPLIED:											
C-7.	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ISOGARD GL	Hot Asphalt	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	Hot Asphalt	SBS-AA	(Optional) SBS-TA	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0
C-8.	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ISOGARD GL	Hot asphalt	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	Hot asphalt	SBS-AA	(Optional) SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-120.0
C-9.	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ISOGARD GL	Hot asphalt	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	Hot asphalt	SBS-TA	(Optional) SBS-TA	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-127.5
C-10.	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ISOGARD GL	Hot Asphalt	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	Hot Asphalt	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-225.0
C-11.	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5-inch ISOGARD GL	Hot Asphalt	Min. 0.5-inch Structodek High Density Fiberboard	Hot Asphalt	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-520.0
C-12.	Min. 2,500 psi structural concrete	Optional ASTM D41	Min. 1.5-inch ISOGARD GL	I.S.O. Spray R; I.S.O. Twin Pack	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Spray R; I.S.O. Twin Pack	SBS-TA	(Optional) SBS-TA	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-127.5

TABLE 11A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
REFER TO [Table 8a](#) FOR VAPOR BARRIER OPTIONS

SYSTEM NO.	DECK (4.1.2)	PRIMER	BASE INSULATION LAYER		TOP INSULATION LAYER		ROOF COVER (3.1.4)			OVERBURDEN (3.1.6)	MDP (PSF)
			TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
C-13.	Min. 2,500 psi structural concrete	Optional ASTM D41	Min. 1.5-inch ISOGARD GL	I.S.O. Spray R; I.S.O. Twin Pack	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Spray R; I.S.O. Twin Pack	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-157.5
C-14.	Min. 2,500 psi structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Twin Pack	None	N/A	SBS-A or SBS-TA	(Optional) SBS-AA, or SBS-TA	SBS-CA, SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-400.0
C-15.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISOGARD GL	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-TA	(Optional) SBS-TA	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-127.5
C-16.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISOGARD GL	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick, Twin Jet or Twin Jet Y (RIBBON-1)	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-225.0
C-17.	Min. 2,500 psi structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick, Twin Jet or Twin Jet Y (RIBBON-1)	None	N/A	SBS-AA, SBS-TA	(Optional) SBS-AA, SBS-TA	SBS-CA, SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-400.0
C-18.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch, min. 1.25 pcf Insulfoam	Twin Jet Y (RIBBON-2)	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	Twin Jet Y (RIBBON-2)	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-87.5
C-19.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISOGARD GL	Twin Jet Y (RIBBON-2)	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	Twin Jet Y (RIBBON-2)	SBS-TA	(Optional) SBS-TA	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-127.5
C-20.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch, min. 1.5 pcf Insulfoam	Twin Jet Y (RIBBON-2)	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	Twin Jet Y (RIBBON-2)	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-180.0
C-21.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch ISOGARD GL	Twin Jet Y (RIBBON-2)	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	Twin Jet Y (RIBBON-2)	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-225.0
C-22.	Min. 2,500 psi structural concrete	None	Min. 1.5-inch, min. 2.0 pcf Insulfoam	Twin Jet Y (RIBBON-2)	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	Twin Jet Y (RIBBON-2)	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-225.0



TABLE 11B: 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)			OVERBURDEN (3.1.6)	MDP (PSF)
			BASE PLY	PLY	CAP PLY		
COLD-APPLIED BASE; ELEVATE MULTI-PURPOSE MB COLD ADHESIVE:							
C-23.	Min. 2,500 psi structural concrete	ASTM D41	SBS-CA	None	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5
C-24.	Min. 2,500 psi structural concrete	None	SBS-CA	None	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-142.5
C-25.	Min. 2,500 psi structural concrete	ASTM D41	SBS-CA (excluding SBS Smooth)	None	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-180.0
ASPHALT AND/OR TORCH APPLIED BASE:							
C-26.	Min. 2,500 psi structural concrete	ASTM D41	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-547.5

TABLE 12A: DECK WITH LIGHTWEIGHT INSULATING CONCRETE - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: LWC TO DECK, 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)			OVERBURDEN (3.1.6)	MDP (PSF)
			TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
COLD-APPLIED BASE; ELEVATE MULTI-PURPOSE MB COLD ADHESIVE:											
CELCORE:											
LWC-1.	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISOGARD GL or ISOGARD CG	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-37.5 (NO FBC HVHZ)
LWC-2.	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISOGARD CG	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-52.5



TABLE 12A: DECK WITH LIGHTWEIGHT INSULATING CONCRETE - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: LWC TO DECK, 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)			OVERBURDEN (3.1.6)	MDP (PSF)
			TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
LWC-3.	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISOGARD GL or ISOGARD CG	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	Min. 2-inch ISOGARD HD Composite	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5
LWC-4.	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISOGARD GL or ISOGARD CG	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5
LWC-5.	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISOGARD GL	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-82.5
LWC-6.	Min. 2,500 psi structural concrete	Min. 200 psi Celcore Cellular Concrete	Min. 1.5-inch ISOGARD GL	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	(Optional) One or more layers base insulation	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-CA	None	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-82.5
LWC-7.	Min. 2,500 psi structural concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-AA, SBS-TA	SBS-CA, SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-106.0
LWC-8.	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISOGARD GL or ISOGARD CG	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-37.5 (NO FBC HVHZ)
LWC-9.	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISOGARD GL	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-52.5



TABLE 12A: DECK WITH LIGHTWEIGHT INSULATING CONCRETE - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: LWC TO DECK, 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)			OVERBURDEN (3.1.6)	MDP (PSF)
			TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
LWC-10.	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	(Optional) Min. 0.5-inch ISOGARD GL or ISOGARD CG	I.S.O. Twin Pack	Min. 2-inch ISOGARD HD Composite	I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5
LWC-11.	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISOGARD GL or ISOGARD CG	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5
LWC-12.	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1-inch ISOGARD GL	I.S.O. Twin Pack	(Optional) One or more layers, min. 0.5-inch base insulation	I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-82.5
LWC-13.	Min. 2,500 psi structural concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-AA, SBS-TA	SBS-CA, SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-106.0
ELASTIZELL:											
LWC-14.	Min. 2,500 psi structural concrete	Min. 160 psi Elastizell Lightweight Insulating Concrete	Min. 1.5-inch ISOGARD GL	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	(Optional) One or more layers base insulation	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-CA	None	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-82.5
LWC-15.	Min. 2,500 psi structural concrete	Min. 415 psi Elastizell Lightweight Insulating Concrete with Zell-Crete Fibers	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD	I.S.O. Stick, Twin Jet, or I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-AA, SBS-TA	SBS-CA, SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-144.5
LWC-16.	Min. 2,500 psi structural concrete	Min. 200 psi Elastizell Lightweight Insulating Concrete	Min. 1.5-inch ISOGARD GL	Twin Jet Y (RIBBON-2)	(Optional) One or more layers base insulation	Twin Jet Y (RIBBON-2)	SBS-CA	None	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-82.5

TABLE 12A: DECK WITH LIGHTWEIGHT INSULATING CONCRETE - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: LWC TO DECK, 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)			OVERBURDEN (3.1.6)	MDP (PSF)
			TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
MEARLCRETE:											
LWC-17.	Min. 2,500 psi structural concrete	Min. 200 psi Mearlcrete	Min. 1.5-inch ISOGARD GL	Twin Jet Y (RIBBON-2)	(Optional) One or more layers base insulation	Twin Jet Y (RIBBON-2)	SBS-CA	None	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-82.5
PRE-EXISTENT CELLULAR CONCRETE (3.1.2):											
LWC-18.	Min. 2,500 psi structural concrete	Pre-existent Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, min. 1.8-inch Elevate Two Piece Impact Nail or Elevate 1.7 in. Assembled LWC Base Ply Fastener shall achieve an average withdrawal of 40 lbf when tested per 4.2.2a.</i>	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch ISOGARD HD	I.S.O. Stick, I.S.O. Twin Pack, Twin Jet or I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	None	N/A	SBS-CA	(Optional) SBS-CA, SBS-AA, SBS-TA	SBS-CA, SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-76.5
ASPHALT AND/OR TORCH APPLIED BASE:											
CELCORE:											
LWC-19.	Min. 2,500 psi structural concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	None	N/A	SBS-AA or SBS-TA	(Optional) SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-106.0
LWC-20.	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISOGARD GL or ISOGARD CG	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-TA	None	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-127.5
LWC-21.	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISOGARD GL or ISOGARD CG	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-AA	(Optional) SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-157.5



TABLE 12A: DECK WITH LIGHTWEIGHT INSULATING CONCRETE - NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE A-1: LWC TO DECK, 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)			OVERBURDEN (3.1.6)	MDP (PSF)
			TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
LWC-22.	Min. 2,500 psi structural concrete	Min. 277 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	I.S.O. Twin Pack	None	N/A	SBS-AA or SBS-TA	(Optional) SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-106.0
LWC-23.	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISOGARD GL or ISOGARD CG	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	SBS-TA	None	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-127.5
LWC-24.	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; Celcore PVA Curing Compound	Min. 1.5-inch ISOGARD GL or ISOGARD CG	I.S.O. Twin Pack	Optional one or more layers, min. 0.5-inch base insulation; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	SBS-AA	(Optional) SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-157.5
ELASTIZELL:											
LWC-25.	Min. 2,500 psi structural concrete	Min. 415 psi Elastizell Lightweight Insulating Concrete with Zell-Crete Fibers	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	None	N/A	SBS-AA or SBS-TA	(Optional) SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-144.5
PRE-EXISTENT CELLULAR CONCRETE (3.1.2):											
LWC-26.	Min. 2,500 psi structural concrete	Pre-existent Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, min. 1.8-inch Elevate Two Piece Impact Nail or Elevate 1.7 in. Assembled LWC Base Ply Fastener shall achieve an average withdrawal of 40 lbf when tested per 4.2.2a.</i>	Min. 0.25-inch Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick, I.S.O. Twin Pack, Twin Jet or Twin Jet Y (RIBBON-1)	None	N/A	SBS-AA, SBS-TA	(Optional) SBS-AA, SBS-TA	SBS-AA, SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-76.5

TABLE 12B: DECK WITH LIGHTWEIGHT INSULATING CONCRETE – 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)	LIGHTWEIGHT CONCRETE (3.1.2)	ANCHOR SHEET			INSULATION			ROOF COVER (3.1.4)			OVERBURDEN (3.1.6)	MDP (PSF)
			TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH	BASE	TOP	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
LWC-27.	Min. 22 ga., type BV steel or min. 2,500 psi structural concrete	Pre-existent Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 52 lbf when tested per 4.2.2a.</i>	MB Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Elevate Two Piece Impact Nail or Elevate 1.7 in. Assembled LWC Base Ply Fastener	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1-inch ISOGARD GL, ISOGARD CG	(Optional) Optional additional layers base insulation, flat or tapered; Min. 0.5-inch ISOGARD HD or Min. 0.25-inch Dens Deck Prime	I.S.O. Stick, I.S.O. Twin Pack, Twin Jet or Twin Jet Y (RIBBON-1)	SBS-CA	None	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
LWC-28.	Min. 22 ga., type BV steel or min. 2,500 psi structural concrete	Pre-existent Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 68 lbf when tested per 4.2.2a.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Elevate 1.7 in. Assembled LWC Base Ply Fastener	9-inch o.c. at the 3-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch ISOGARD GL	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0
LWC-29.	Min. 22 ga., type BV steel or min. 2,500 psi structural concrete	Pre-existent Minimum 200 psi, minimum 2-inch thick Approved cellular LWIC. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 68 lbf when tested per 4.2.2a.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Elevate 1.7 in. Assembled LWC Base Ply Fastener	12-inch o.c. at the 3-inch side lap and 12-inch o.c. at three, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch ISOGARD GL	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	Hot asphalt	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0

**NEMO EVALUATIONS REPORT**

Report No.: NER-AMZ-003

Revision 0: 2026-09-01

Page 35 of 46

Amrize Building Envelope LLC (Elevate)

FL48419



ISO/IEC 17065 PCA-145

**TABLE 12c: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED ROOF COVER**

SYSTEM NO.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2)	ANCHOR SHEET			ROOF COVER (3.1.4)		OVERBURDEN (3.1.6)	MDP (PSF)
			BASE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	CAP PLY		
COLD-APPLIED BASE; ELEVATE MULTI-PURPOSE MB COLD ADHESIVE:									
LWC-30.	Min. 22 ga., type BV steel; 5 ft span or min. 2,500 psi structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Elevate Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0
LWC-31.	Min. 22 ga., type BV, Grade 40 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 450 psi, min. 2-inch thick Celcore Cellular Concrete	MB Base or SBS Base	Elevate 1.7 in. Assembled LWC Base Ply Fastener	12-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-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0
LWC-32.	Min. 22 ga., type BV steel; 5 ft span or min. 2,500 psi structural concrete	Min. 200 psi, min. 2-inch thick Range II Elastizell Lightweight Insulating Concrete	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Elevate Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0
LWC-33.	Min. 22 ga., type BV steel; 5 ft span or min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch thick Mearlcrete cellular lightweight insulating concrete	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Elevate Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0
LWC-34.	Min. 22 ga., type BV steel; 5 ft span or min. 2,500 psi structural concrete	Pre-existent min. 200 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 52 lbf when tested per 4.2.2a.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Elevate Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0
ASPHALT AND/OR TORCH APPLIED BASE:									
CELCORE:									
LWC-35.	Min. 22 ga., type BV steel; 5 ft span or min. 2,500 psi structural concrete	Min. 200 psi, min. 2-inch thick Celcore Cellular Concrete	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Elevate Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-TA	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0

TABLE 12c: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED ROOF COVER

SYSTEM No.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2)	ANCHOR SHEET			ROOF COVER (3.1.4)		OVERBURDEN (3.1.6)	MDP (PSF)
			BASE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	CAP PLY		
LWC-36.	Min. 22 ga., type BV, Grade 40 steel; 6 ft span or min. 2,500 psi structural concrete	Min. 450 psi, min. 2-inch thick Celcore Cellular Concrete	MB Base or SBS Base	Elevate 1.7 in. Assembled LWC Base Ply Fastener	12-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	One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0
LWC-37.	Min. 22 ga., type BV steel; 5 ft span or min. 2,500 psi structural concrete	Min. 350 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	MB Base, Channel Venting Base, SBS Base, SBS-Base P, SBS PolyTorch, SBS PolyBase, SBS Premium Base, SBS Smooth, APP 160, APP 80 Glass Base, APP Premium Base	Elevate 1.7 in. Assembled LWC Base Ply Fastener	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	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-60.0
LWC-38.	Min. 22 ga., type BV steel; 6 ft span or min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	MB Base, Channel Venting Base, SBS Base, SBS-Base P, SBS PolyTorch, SBS PolyBase, SBS Premium Base, SBS Smooth, APP 160, APP 80 Glass Base, APP Premium Base	Elevate 1.7 in. Assembled LWC Base Ply Fastener	7-inch o.c. at the min. 3-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-60.0
CONCRECEL:									
LWC-39.	Min. 22 ga., type BV steel; 6 ft span or min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch thick Concrecel cellular lightweight insulating concrete	Elevate Venting Base, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Elevate Two Piece Impact Nail	6-inch o.c. at the 4-inch side lap and 6-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-AA or SBS-TA (ASTM D6164 only)	SBS-AA or SBS-TA (ASTM D6164 only)	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5
LWC-40.	Min. 22 ga., type BV steel; 5 ft span or min. 2,500 psi structural concrete	Concrecel Bonding Agent is applied to the deck at a rate of 600 ft ² /gal. Min. 300 psi, min. 2.25-inch thick Concrecel cellular lightweight insulating concrete followed by Concrecel Curing Compound at a rate of 600 ft ² /gal	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base, APP 160	OMG C-R Assembled Base Sheet Fastener (1.7 in.)	7-inch o.c. at the 3-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-82.5



TABLE 12c: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2)	ANCHOR SHEET			ROOF COVER (3.1.4)		OVERBURDEN (3.1.6)	MDP (PSF)
			BASE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	CAP PLY		
ELASTIZELL:									
LWC-41.	Min. 22 ga., type BV steel; 5 ft span or min. 2,500 psi structural concrete	Min. 200 psi, min. 2-inch thick Range II Elastizell Lightweight Insulating Concrete	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Elevate Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-TA	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0
LWC-42.	Min. 22 ga., type BV steel; 6 ft span or min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch thick Elastizell cellular lightweight insulating concrete	Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Elevate Two Piece Impact Nail	6-inch o.c. at the 4-inch side lap and 6-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-AA or SBS-TA (ASTM D6164 only)	SBS-AA or SBS-TA (ASTM D6164 only)	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-60.0
MEARLCRETE:									
LWC-43.	Min. 22 ga., type BV steel; 5 ft span or min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch thick Mearlcrete cellular lightweight insulating concrete	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Elevate Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-TA	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0
LWC-44.	Min. 22 ga., type BV steel; 5 ft span or min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch thick Mearlcrete cellular lightweight insulating concrete	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Elevate 1.7 in. Assembled LWC Base Ply Fastener	7-inch o.c. at the 3-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-52.5
LWC-45.	Min. 22 ga., type BV steel; 5 ft span or min. 2,500 psi structural concrete	Min. 300 psi, min. 2-inch thick Mearlcrete cellular lightweight insulating concrete	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Elevate 1.7 in. Assembled LWC Base Ply Fastener	9-inch o.c. at the 4-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-52.5
PRE-EXISTENT CELLULAR CONCRETE:									
LWC-46.	Min. 22 ga., type BV steel; 5 ft span or min. 2,500 psi structural concrete	Pre-existent Min. 200 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 70 lbf when tested per 4.2.2a.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Elevate 1.7 in. Assembled LWC Base Ply Fastener	9-inch o.c. at the 2-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0

TABLE 12c: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED ROOF COVER

SYSTEM No.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2)	ANCHOR SHEET			ROOF COVER (3.1.4)		OVERBURDEN (3.1.6)	MDP (PSF)
			BASE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	CAP PLY		
LWC-47.	Min. 22 ga., type BV steel; 5 ft span or min. 2,500 psi structural concrete	Pre-existent Min. 200 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 70 lbf when tested per 4.2.2a.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Elevate 1.7 in. Assembled LWC Base Ply Fastener	12-inch o.c. at the 2-inch side lap and 12-inch o.c. at three, equally spaced, staggered rows in the center of the sheet	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0
LWC-48.	Min. 22 ga., type BV steel; 5 ft span or min. 2,500 psi structural concrete	Pre-existent Min. 200 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 70 lbf when tested per 4.2.2a.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Elevate Two Piece Impact Nail	9-inch o.c. in the 2-inch side lap and 9-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	SBS-AA or SBS-CA	SBS-AA or SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0
LWC-49.	Min. 22 ga., type BV steel; 5 ft span or min. 2,500 psi structural concrete	Pre-existent min. 200 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 52 lbf when tested per 4.2.2a.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Elevate Two Piece Impact Nails	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	SBS-TA	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0
LWC-50.	Min. 22 ga., type BV steel; 5 ft span or min. 2,500 psi structural concrete	Pre-existent Min. 300 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 88 lbf when tested per 4.2.2a.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Elevate Two Piece Impact Nail	9-inch o.c. at the 4-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-60.0
LWC-51.	Min. 22 ga., type BV steel; 5 ft span or min. 2,500 psi structural concrete	Pre-existent min. 350 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 106 lbf when tested per 4.2.2a.</i>	MB Base, Channel Venting Base, SBS Base, SBS Base P, SBS Premium Base, SBS Smooth, SBS PolyBase	Elevate 1.7 in. Assembled LWC Base Ply Fastener	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	One or more SBS-TA	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-60.0

TABLE 12c: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED ROOF COVER

SYSTEM No.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2)	ANCHOR SHEET			ROOF COVER (3.1.4)		OVERBURDEN (3.1.6)	MDP (PSF)
			BASE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	CAP PLY		
LWC-52.	Min. 22 ga., type BV steel; 5 ft span or min. 2,500 psi structural concrete	Pre-existent Min. 340 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 71 lbf when tested per 4.2.2a.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Premium Base	Elevate 1.7 in. Assembled LWC Base Ply Fastener	7-inch o.c. at the 3-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-60.0
LWC-53.	Min. 22 ga., type BV steel; 5 ft span or min. 2,500 psi structural concrete	Pre-existent Min. 300 psi, min. 2-inch thick Approved cellular lightweight insulating concrete. <i>Note: To qualify the LWIC under this assembly, the subject fastener shall achieve an average withdrawal of 95 lbf when tested per 4.2.2a.</i>	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Elevate 1.7 in. Assembled LWC Base Ply Fastener	7.5-inch o.c. at the 3-inch side lap and 7.5-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-75.0

TABLE 12d: LIGHTWEIGHT CONCRETE OVER STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED ROOF COVER

SYSTEM No.	DECK (4.1.2)	THERMAL BARRIER		TEMP ROOF	LIGHTWEIGHT CONCRETE (3.1.2)	ANCHOR SHEET			ROOF COVER (3.1.4)		OVERBURDEN (3.1.6)	MDP (PSF)
		TYPE	ATTACH (4.2.2a, 3.1.2E)			BASE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	CAP PLY		
LWC-54.	Min. 22 ga., type B steel; 6 ft span	Min. 5/8-inch SECUROCK Gypsum-Fiber Roof Board	Fastener per 3.1.1 at 1 per 1.6 ft ²	MB Base, SBS Base, SBS Smooth or SBS Premium Base in hot asphalt or SBS Smooth Torch or APP 160, torch-applied	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	MB Base, Channel Venting Base, SBS Base, SBS-Base P, SBS PolyTorch, SBS PolyBase, SBS Premium Base, SBS Smooth	Elevate 1.7 in. Assembled LWC Base Ply Fastener	7-inch o.c. at the min. 3-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	(Optional) SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-60.0

TABLE 13A: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR 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)			OVERBURDEN (3.1.6)	MDP (PSF)
		TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.3)	BASE	TOP	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
CWF-1.	Existing Tectum	MB Base, Channel Venting Base, SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth	Min. 1.8-inch Elevate Two Piece Impact Nail	9-inch o.c. at the 2-inch laps and 18-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch ISO GARD GL	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECURUCK Gypsum-Fiber Roof Board	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-AA or SBS-TA	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*

TABLE 13B: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF), OR RECOVER
SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	INSULATION LAYER(S) (3.1.2)		BASE OR ANCHOR SHEET			ROOF COVER (3.1.4)		OVERBURDEN (3.1.6)	MDP (PSF)
		TYPE	ATTACH (3.1.3)	TYPE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	CAP PLY		
CWF-2.	Existing Tectum	One or more layers, any combination	Prelim. Attached	MB Base, Channel Venting Base	Elevate Polymer Fastener and Polymer Fastener Insulation Plate	12-inch o.c. in the 4-inch side lap and 18-inch o.c. in two staggered rows in the center of the sheet	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*

TABLE 13C: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	ANCHOR SHEET			ROOF COVER (3.1.4)		OVERBURDEN (3.1.6)	MDP (PSF)
		TYPE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	CAP PLY		
CWF-3.	Existing Tectum	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Elevate Two Piece Impact Nail	9-inch o.c. in the 2-inch side lap and 12-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
CWF-4.	Existing Tectum	MB Base, Channel Venting Base	Elevate Polymer Fastener and Polymer Fastener Insulation Plate	12-inch o.c. in the 4-inch side lap and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
CWF-5.	Existing Tectum	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Elevate Two Piece Impact Nail	9-inch o.c. in the 2-inch side lap and 12-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*



TABLE 13c: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED ROOF COVER

SYSTEM No.	DECK (4.1.2)	ANCHOR SHEET			ROOF COVER (3.1.4)		OVERBURDEN (3.1.6)	MDP (PSF)
		TYPE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	CAP PLY		
CWF-6.	Existing Tectum	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Min. 1.8-inch Elevate Two Piece Impact Nail	9-inch o.c. in the 3-inch side lap and 12-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more SBS-AA, SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5

TABLE 14A: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

SYSTEM No.	DECK (4.1.2)	BASE INSULATION LAYER		TOP INSULATION LAYER		ROOF COVER (3.1.4)			OVERBURDEN (3.1.6)	MDP (PSF)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
COLD-APPLIED BASE; ELEVATE MULTI-PURPOSE MB COLD ADHESIVE:										
G-1.	Existing gypsum deck	Min. 1.5-inch ISOGARD GL	I.S.O. Stick; I.S.O. Twin Pack; Twin Jet; Twin Jet Y (RIBBON-2)	(Optional) One or more layers base insulation	I.S.O. Stick; I.S.O. Twin Pack; Twin Jet; Twin Jet Y (RIBBON2)	SBS-CA	None	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-82.5
ASPHALT AND/OR TORCH APPLIED BASE:										
G-2.	Existing gypsum deck primed with WeatherTite Universal Primer	Min. 1.5-inch ISOGARD GL	I.S.O. Twin Pack	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	SBS-TA	(Optional) SBS-TA	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0 (NO FBC HVHZ)
G-3.	Existing gypsum deck	Min. 1.5-inch ISOGARD GL	I.S.O. Twin Pack	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Twin Pack	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-157.5
G-4.	Existing gypsum deck	Min. 1.5-inch ISOGARD GL	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-2)	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-2)	SBS-TA	None	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-127.5
G-5.	Existing gypsum deck	Min. 1.5-inch ISOGARD GL	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-2)	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-2)	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-135.0

**NEMO EVALUATIONS REPORT**

Report No.: NER-AMZ-003

Revision 0: 2026-09-01

Page 42 of 46

Amrize Building Envelope LLC (Elevate)

FL48419



ISO/IEC 17065

PCA-145

TABLE 14A: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER		TOP INSULATION LAYER		ROOF COVER (3.1.4)			OVERBURDEN (3.1.6)	MDP (PSF)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
G-6.	Existing gypsum deck	Min. 1.5-inch ISOGLAD GL	Twin Jet Y (RIBBON-2)	Min. 0.25-inch Dens Deck or SECURACK Gypsum-Fiber Roof Board	Twin Jet Y (RIBBON-2)	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-225.0
G-7.	Existing gypsum deck	Min. 1.5-inch, min. 1.25 pcf Insulfoam	Twin Jet Y (RIBBON-2)	Min. 0.25-inch Dens Deck or SECURACK Gypsum-Fiber Roof Board	Twin Jet Y (RIBBON-2)	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-87.5
G-8.	Existing gypsum deck	Min. 1.5-inch, min. 1.5 pcf Insulfoam	Twin Jet Y (RIBBON-2)	Min. 0.25-inch Dens Deck or SECURACK Gypsum-Fiber Roof Board	Twin Jet Y (RIBBON-2)	SBS-AA	(Optional) One or more, SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-180.0
G-9.	Existing gypsum deck	Min. 1.5-inch, min. 2.0 pcf Insulfoam	Twin Jet Y (RIBBON-2)	Min. 0.25-inch Dens Deck or SECURACK Gypsum-Fiber Roof Board	Twin Jet Y (RIBBON-2)	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-225.0

TABLE 14B: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER		ROOF COVER (3.1.4)			OVERBURDEN (3.1.6)	MDP (PSF)
		TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
CONVENTIONAL SYSTEMS:											
G-10.	Existing gypsum deck	Min. 1.5-inch ISOGARD GL	Elevate Polymer Fastener and Polymer Fastener Insulation Plate (W/D ≥ 180 lbf)	1 per 2.0 ft²	Min. 0.25-inch Dens Deck or SECUROCK Gypsum Fiber Roof Board	Hot asphalt	SBS-AA	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*



TABLE 14c: GYPSUM DECKS – 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)			OVERBURDEN (3.1.6)	MDP (PSF)
		TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH (3.1.3)	BASE	TOP	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
CONVENTIONAL SYSTEMS:												
G-11.	Existing gypsum deck	MB Base, Channel Venting Base, SBS Base, SBS Premium Base, SBS PolyBase, SBS Smooth (Note A below)	Elevate Two Piece Impact Nail (W/D ≥ 105 lbf)	9-inch o.c. at the 2-inch laps and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch ISOGARD GL	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-AA or SBS-TA	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
G-12.	Existing gypsum deck	MB Base, Channel Venting Base	Elevate Two Piece Impact Nail (W/D ≥ 119 lbf)	9-inch o.c. in the 4-inch side lap and 12-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) Min. 1.5-inch ISOGARD GL	Min. 0.25-inch Dens Deck or 0.25-inch SECUROCK Gypsum Fiber Roof Board	Hot asphalt	SBS-AA	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5

Note A: Anchor sheet may be covered with optional temporary roof consisting of one or two plies SBS-AA, or one Base Ply of SBS-AA followed by one Cap Ply of SBS-AA or SBS-TA

TABLE 14d: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE D-2: INSULATED, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	INSULATION LAYER(S) (3.1.2)		BASE OR ANCHOR SHEET			ROOF COVER (3.1.4)		OVERBURDEN (3.1.6)	MDP (PSF)
		TYPE	ATTACH (3.1.3)	TYPE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	CAP PLY		
G-13.	Existing gypsum deck	One or more layers, any combination	Prelim. Attached	MB Base, Channel Venting Base	Elevate Polymer Fastener and Polymer Fastener Insulation Plate (W/D ≥ 114 lbf)	12-inch o.c. in the 4-inch side lap and 18-inch o.c. in two staggered rows in the center of the sheet	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*

TABLE 14E: GYPSUM DECKS – REROOF (TEAR-OFF)
SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED ANCHOR SHEET, BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	ANCHOR SHEET			ROOF COVER (3.1.4)		OVERBURDEN (3.1.6)	MDP (PSF)
		TYPE	FASTENER (3.1.1, 4.2.2)	SPACING	BASE PLY	CAP PLY		
G-14.	Existing gypsum deck	MB Base, Channel Venting Base	Elevate Polymer Fastener and Polymer Fastener Insulation Plate (W/D ≥ 114 lbf)	12-inch o.c. in the 4-inch side lap and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more SBS-AA or SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
G-15.	Existing gypsum deck	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Elevate Two Piece Impact Nail (W/D ≥ 105 lbf)	9-inch o.c. in the 2-inch side lap and 18-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	SBS-AA or SBS-CA	SBS-AA or SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-45.0*
G-16.	Existing gypsum deck	MB Base, Channel Venting Base, Venting Base Sheet, SBS Base, SBS PolyBase, SBS Smooth, SBS Premium Base	Elevate Two Piece Impact Nail (W/D ≥ 119 lbf)	9-inch o.c. in the 4-inch side lap and 12-inch o.c. in two, equally spaced, staggered rows in the center of the sheet	(Optional) One or more SBS-AA, SBS-TA	SBS-AA or SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5

TABLE 15A: 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 4.1.2) or performance of the substrate (See 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)			OVERBURDEN (3.1.6)	MDP (PSF)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
COLD-APPLIED BASE; ELEVATE MULTI-PURPOSE MB COLD ADHESIVE:										
R-1.	Existing asphalt BUR	Min. 1.5-inch ISOGARD GL	I.S.O. Twin Pack, I.S.O. Stick, Twin Jet or Twin Jet Y (RIBBON-1)	(Optional) One or more layers base insulation	I.S.O. Twin Pack, I.S.O. Stick, Twin Jet or Twin Jet Y (RIBBON-1)	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5
R-2.	Existing asphalt BUR	(Optional) One or more layers of min. 1.5-inch ISOGARD GL	I.S.O. Twin Pack or I.S.O. Stick Adhesive, Twin Jet, or Twin Jet Y (RIBBON-1)	Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack or I.S.O. Stick Adhesive, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5
R-3.	Existing asphalt BUR	Min. 1.5-inch ISOGARD GL	I.S.O. Twin Pack, I.S.O. Stick, Twin Jet or Twin Jet Y (RIBBON-1)	(Optional) One or more layers base insulation	I.S.O. Twin Pack, I.S.O. Stick, Twin Jet or Twin Jet Y (RIBBON-1)	SBS-CA	None	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-82.5
R-4.	Existing granule surface modified bitumen	Min. 1-inch ISOGARD GL	I.S.O. Twin Pack	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered ISOGARD GL	I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-82.5

TABLE 15A: 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 [4.1.2](#)) or performance of the substrate (See [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)			OVERBURDEN (3.1.6)	MDP (PSF)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
R-5.	Existing granule surface modified bitumen	Min. 1-inch ISOGARD CG	I.S.O. Twin Pack	(Optional) Additional layers of base insulation and/or min. 0.5-inch Tapered ISOGARD CG	I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-52.5
R-6.	Existing granule surface modified bitumen	Min. 1-inch ISOGARD GL or ISOGARD CG	I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch Tapered ISOGARD GL or Tapered ISOGARD CG; Min. 0.5-inch ISOGARD HD	I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-67.5
R-7.	Existing granule surface modified bitumen	Min. 1-inch ISOGARD GL or ISOGARD CG	I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch Tapered ISOGARD GL or Tapered ISOGARD CG; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	SBS-CA	(Optional) SBS-CA	SBS-CA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-37.5 (NO FBC HVHZ)
ASPHALT AND/OR TORCH APPLIED BASE:										
R-8.	Existing asphalt BUR	Min. 1.5-inch ISOGARD GL	Hot Asphalt	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	Hot Asphalt	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-225.0
R-9.	Existing asphalt BUR	Min. 1.5-inch ISOGARD GL	Hot Asphalt	Min. 0.5-inch Structodek High Density Fiberboard	Hot Asphalt	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-520.0
R-10.	Existing asphalt BUR	Min. 1.5-inch ISOGARD GL	I.S.O. Twin Pack	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Twin Pack	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-157.5
R-11.	Existing asphalt BUR	Min. 1.5-inch ISOGARD GL	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-TA	None	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-120.0
R-12.	Existing asphalt BUR	Min. 1.5-inch ISOGARD GL	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	I.S.O. Stick, Twin Jet, or Twin Jet Y (RIBBON-1)	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-120.0

TABLE 15A: 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 4.1.2) or performance of the substrate (See 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)			OVERBURDEN (3.1.6)	MDP (PSF)
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	PLY	CAP PLY		
R-13.	Existing granule surface modified bitumen	Min. 1-inch ISOGARD GL or ISOGARD CG	I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch Tapered ISOGARD GL or Tapered ISOGARD CG; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	SBS-TA	(Optional) SBS-TA	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-127.5
R-14.	Existing granule surface modified bitumen	Min. 1-inch ISOGARD GL or ISOGARD CG	I.S.O. Twin Pack	Additional layers of base insulation or min. 0.5-inch Tapered ISOGARD GL or Tapered ISOGARD CG; Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	I.S.O. Twin Pack	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-157.5
R-15.	Existing asphalt BUR	Min. 1.5-inch, min. 1.25 pcf Insulfoam	Twin Jet Y (RIBBON-2)	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	Twin Jet Y (RIBBON-2)	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-87.5
R-16.	Existing asphalt BUR	Min. 1.5-inch ISOGARD GL	Twin Jet Y (RIBBON-2)	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum Fiber Roof Board	Twin Jet Y (RIBBON-2)	SBS-TA	None	SBS-TA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-127.5
R-17.	Existing asphalt BUR	Min. 1.5-inch, min. 1.5 pcf Insulfoam	Twin Jet Y (RIBBON-2)	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	Twin Jet Y (RIBBON-2)	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-180.0
R-18.	Existing asphalt BUR	Min. 1.5-inch ISOGARD GL	Twin Jet Y (RIBBON-2)	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	Twin Jet Y (RIBBON-2)	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-225.0
R-19.	Existing asphalt BUR	Min. 1.5-inch, min. 2.0 pcf Insulfoam	Twin Jet Y (RIBBON-2)	Min. 0.25-inch Dens Deck or SECUROCK Gypsum-Fiber Roof Board	Twin Jet Y (RIBBON-2)	SBS-AA	(Optional) One or more SBS-AA	SBS-AA	As specified by the Designer of Record and acceptable to the Authority Having Jurisdiction	-225.0