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NEMO EVALUATION REPORT (NER)

Flex Membrane International Corp
5103 A Pottsville Pike
Reading, PA 19605
(610) 916-9500

SUBJECT:	**Flex MF/R PVC, Flex MF/R PVC FB, Flex Tripolymer MF/R Elvaloy KEE and Flex Tripolymer FB Elvaloy KEE Roof Systems**
SCOPE:	This NEMO Evaluation Report (henceforth 'NER') is issued under F.A.C. Rule 61G20-3 and the applicable rules and regulations governing Product Approval of construction materials in the State of Florida and ISO/IEC 17065 via NEMO|cert. NEMO Evaluations has evaluated the product described herein for compliance with the Code sections noted herein.
CODES:	2018 International Building Code 2023 Florida Building Code, 8th Edition TDI Third-Party Evaluation Report acceptance
JURISDICTION:	Non-HVHZ and HVHZ
CATEGORY:	**FBC:** Roofing **NEMO:** Single Ply
SUB-CATEGORY:	**FBC:** Single Ply Roof Systems
CSI DIVISION:	07 00 00 Thermal and Moisture Protection 07 54 00 Thermoplastic Membrane Roofing 07 54 19 Polyvinyl-Chloride Roofing
METHOD:	Method 1, Option C – Codified Material, Evaluation by Evaluation Entity
COMPLIANCE STATEMENT:	**Flex MF/R PVC, Flex MF/R PVC FB, Flex Tripolymer MF/R Elvaloy KEE and Flex Tripolymer FB Elvaloy KEE Roof Systems**, as produced by **Flex Membrane International Corp**, 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 labeling in accordance with the requirements of NEMO|cert.
CONTINUED COMPLIANCE:	This NER is valid until such time the named product(s) change, the referenced Quality Assurance changes, or the evaluated Code provisions change. NEMO Evaluations requires, at minimum, a complete review of this NER with each 3-year Code Cycle.
BUILDING PERMIT REQUIREMENTS:	As required by the Building Official or Authority Having Jurisdiction to evaluate the installation of this product.
ADVERTISEMENT:	"NEMO Evaluated" may be displayed in advertising literature. If any portion of the NER is displayed, it shall be displayed in its entirety.
CERTIFICATION OF INDEPENDENCE:	✓ NEMO CERT, LLC has not, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates. ✓ NEMO CERT, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates. ✓ This is a building code evaluation. NEMO CERT, LLC is not, in any way, the Designer of Record for any project on which this NER, or previous versions thereof, is/was used for permitting or design guidance.

LINK TO TOP OF ATTACHMENT REQUIREMENTS

ISO/IEC 17065 PCA-145

ISO/IEC 17020 AA-779

1. CODES, PROPERTIES AND STANDARDS:

CODE	SECTION	PROPERTY	STANDARD
2018 International Building Code	1504.3.1	Wind resistance	FM 4474 or UL1897
	1504.6	Physical properties	ASTM G154
	1504.7	Impact resistance	FM 4470
	1505.1	Fire classification	UL 790
	1507.11.2	Material standard	ASTM D6163
	1507.13.2	Material standard	ASTM D4434
2023 Florida Building Code, 8th Edition	1504.3.1	Wind resistance	FM 4474 or UL1897
	1504.6	Physical properties	ASTM G154
	1504.7	Impact resistance	FM 4470
	1507.11.2, TAS 110	Material standard	ASTM D6163
	1507.12.2, TAS 110	Material standard	ASTM D4434
	TAS 110	Resistance to Foot Traffic	TAS 114, Section 8.9
	TAS 110	Wind resistance	TAS 114, Appendix C, D or J
	TAS 110	Susceptibility Hail Damage	TAS 114, Appendix F
	TAS 110	Susceptibility to Leakage	TAS 114, Appendix G

2. PRODUCTS:

TABLE 1: EVALUATED MEMBRANES

(NEMO Certified. Consult Directory of Certified Products for production location(s))

TYPE	PRODUCT		MATERIAL STANDARD	
	NAME	THICKNESS	REFERENCE	TYPE
ROOF COVER	Flex MF/R PVC	50, 60, 80-mil	ASTM D4434	III
	Flex Tripolymer MF/R Elvaloy KEE	45, 50, 60, 120-mil	ASTM D4434	III
ROOF COVER OR CAP PLY	Flex MF/R PVC FB	50, 60, 80-mil	ASTM D4434	III
	Flex Tripolymer FB Elvaloy KEE	45, 50, 60, 120-mil	ASTM D4434	III

TABLE 2: COMPONENTS BY OTHERS (4.1.4)

TYPE	PRODUCT	FBC	NOA[1]
ROOFING FASTENERS:	Dekfast DF-#12-PH3	FL20311	22-0913.02
	Dekfast DF-#12-PC-SQ3	FL20311	22-0913.02
	Dekfast DF-#14-PH3	FL20311	22-0913.02
	Dekfast DF-#15-PH3	FL20311	22-0913.02
	Dekfast BS-6.1	FL20311	N/A
	Dekfast PLT-R-3	FL20311	22-0913.02
	Dekfast PLT-R-2-3/8-6B-B	FL20311	22-0913.02
	Dekfast PLT-O-2-3/4-12B	FL20311	22-0913.02
	isoweld F1-P-6.8-PVC Plate	FL20311	22-0913.02
	OMG #12 Standard	FL699	24-0627.03
	OMG Heavy Duty	FL699	24-0627.03
	OMG XHD	FL699	24-0627.03
	OMG Super XHD	FL699	24-0627.03

[1] *Refer to NOA if listed version was superseded to ensure use of latest version.*

TABLE 2: COMPONENTS BY OTHERS (4.1.4)			
TYPE	PRODUCT	FBC	NOA[1]
ROOFING FASTENERS:	OMG RetroDriller	FL699	24-0627.03
	OMG 2 in. Barbed Plate	FL699	24-0627.03
	OMG 2-3/8 XHD Barbed Stress Plates	FL699	24-0627.03
	OMG 2 3/4 Super XHD Barbed Stress Plate	FL699	24-0627.03
	OMG 3 in. Galvalume Steel Plate	FL699	24-0627.03
	RHINOBOND Insulation Plate (PVC)	FL699	24-0627.03
	Trufast #14 HD	FL4500	25-0129.08
	Trufast 3" Metal Insulation Plate	FL4500	25-0129.08
INSULATIONS:	ACFoam-II	FL17989	24-1120.02
	ACFoam-III	FL17989	24-1120.02
	ACFoam-HD Coverboard	FL17989	24-1120.02
	ENRGY 3	FL4205	24-0610.04
	Styrofoam Brand Roofmate	FL38732	23-1121.01
	Styrofoam Brand Highload 60	FL38732	23-1121.01
	DensDeck	FL1250	22-1223.04
	DensDeck Prime	FL1250	22-1223.04
	SECUROCK Gypsum-Fiber Roof Board	FL4264	21-0923.05
	Celcore Cellular Concrete	FL2037	24-0906.02
	Elastizell Lightweight Insulating Concrete	FL4994	23-0817.05
ADHESIVES:	Millennium One Step Foamable Adhesive	FL1800	21-1018.06
	Millennium PG-1 Pump Grade Adhesive	FL1800	21-1018.06
	OlyBond 500	FL1608	24-0422.18
	Polyset Board-Max	FL22256	22-0614.11
	Polyset Commercial Roof Adhesive	FL1365	23-0718.11
	FA636 Water Borne Adhesive	None	24-0711.01
	LA432M Bonding Adhesive	None	24-0711.01
PRIMERS:	Elastocol Stick	FL9779	22-0706.01
	Elastocol Stick Zero	FL9779	22-0706.01
ROLL GOODS:	GAFGLAS Ply 4	FL11946	24-0808.04
	SOPRAVAP'R	None	24-0610.08

3. INSTALLATION:

3.1 **Flex MF/R PVC, Flex MF/R PVC FB, Flex Tripolymer MF/R Elvaloy KEE and Flex Tripolymer FB Elvaloy KEE Roof Systems** shall be installed in accordance with **Flex Membrane International Corp** published installation instructions, subject to the Limitations of Use noted herein.

3.1.1 Fasteners: Fasteners shall be of sufficient length for the following engagements.

TABLE 3: FASTENER REFERENCES		
ROOF DECK	PARTS	FASTENER ENGAGEMENT
WOOD, ENGINEERED SHEATHING OR PLANK	Trufast #14 HD with Trufast 3" Metal Insulation Plate	Min. 0.75-inch penetration (engineered sheathing) or min. 1-inch embedment (plank)
	OMG #12 Standard, OMG Heavy Duty, OMG XHD with OMG 3 in. Galvalume Steel Plate	
	Dekfast DF-#12-PH3, Dekfast DF-#14-PH3, Dekfast DF-#15-PH3 with PLT-R-3	
STEEL	Trufast #14 HD with Trufast 3" Metal Insulation Plate	Min. 0.75-inch penetration
	OMG #12 Standard, OMG Heavy Duty, OMG XHD with OMG 3 in. Galvalume Steel Plate	
	Dekfast DF-#12-PH3, Dekfast DF-#14-PH3, Dekfast DF-#15-PH3 with PLT-R-3	
STRUCTURAL CONCRETE	Trufast #14 HD with Trufast 3" Metal Insulation Plate	Non-HVHZ: Min. 1-inch embedment HVHZ: Min. 1.25-inch embedment
	OMG Heavy Duty with OMG 3 in. Galvalume Steel Plate	
	Dekfast DF-#14-PH3 with PLT-R-3	

3.1.2 Insulation:

(a) Unless otherwise noted, insulation may be any one layer or combination of Approved board(s) that meet IBC, FBC 1505 or FBC HVHZ 1516 and, for foam plastic, IBC 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, FBC 1505 or FBC HVHZ 1516 and, for foam plastic, IBC, 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 Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWIC is referenced, refer to current LWIC Florida Product Approval or NOA for specific deck construction and limitations. Unless otherwise noted, for systems where specific LWIC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWIC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1. For "pre-existent" LWIC references, listings were established through testing over lightweight concrete cast using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Use of these listings in new construction or re-roof (tear-off) applications is at the discretion of the Designer or Record and Authority Having Jurisdiction.

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

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

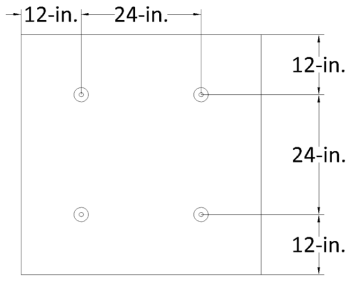
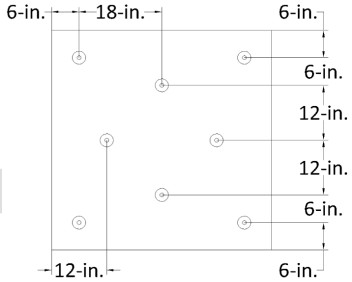
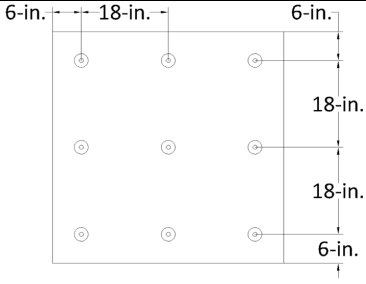
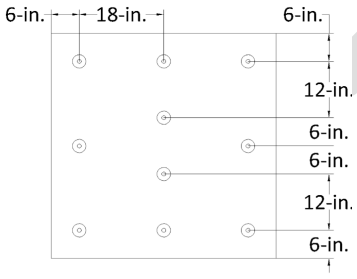
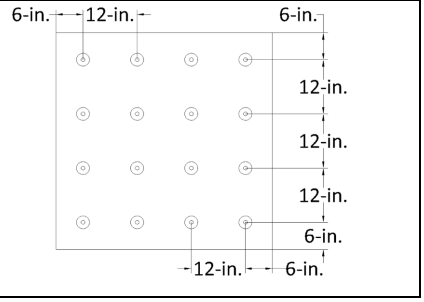
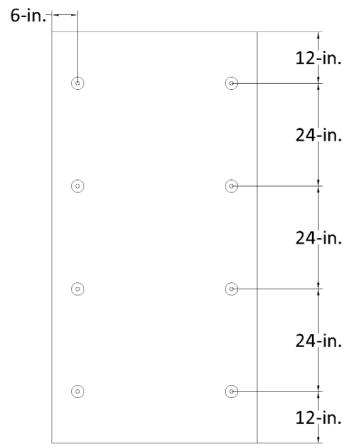
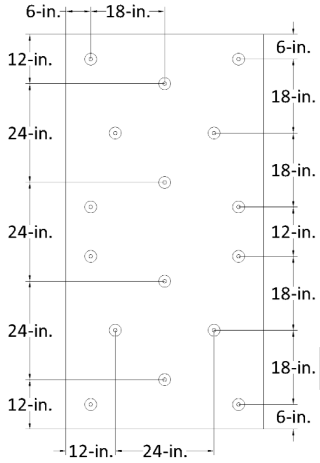
1 per 4.0 ft² (4 per board)	1 per 2.0 ft² (8 per board)	1 per 1.8 ft² (9 per board)
		
1 per 1.6 ft² (10 per board)	**1 per 1.0 ft² (16 per board)**	
		

TABLE 4B: INSULATION ATTACHMENT PATTERNS – 4X8 FT BOARDS

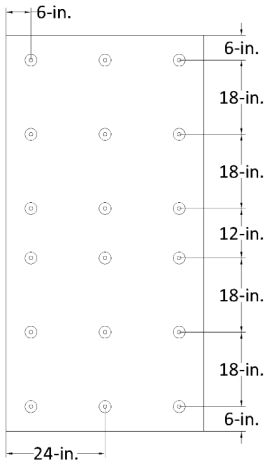
1 per 4.0 ft² (8 per board)



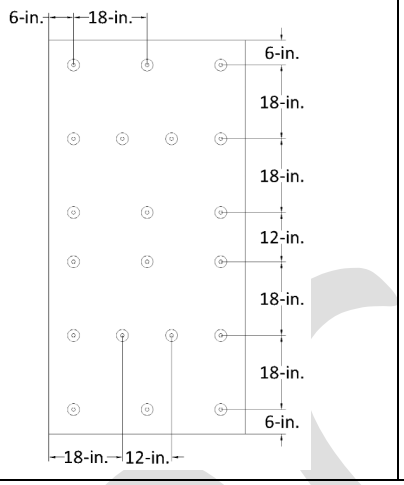
1 per 2.0 ft² (16 per board)



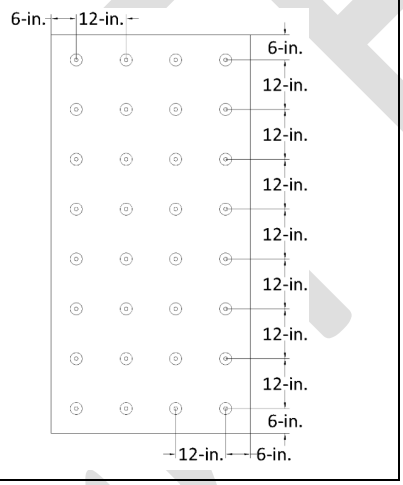
1 per 1.8 ft² (18 per board)



1 per 1.6 ft² (20 per board)



1 per 1.0 ft² (32 per board)



(f) Preliminary insulation attachment:

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

3.1.3 Insulation Adhesives:

(a) Unless otherwise noted, insulation adhesive application rate is continuous ribbons, maximum 12-inch o.c. 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. Concrete deck shall be primed with ASTM D41 primer prior to asphalt-application.

TABLE 5: INSULATION ADHESIVE REFERENCES

BY	ADHESIVE	REFERENCE	RATE
H.B. Fuller Company	Millennium One Step Foamable Adhesive	M-OSFA	Continuous ribbons, max. 12-inch o.c.
	Millennium PG-1 Pump Grade Adhesive	M-PG1	Continuous ribbons, max. 12-inch o.c.
OMG	OlyBond 500	OB500	Continuous ribbons, max. 12-inch o.c.
ICP Construction	Polyset Board-Max	Board-Max	Continuous ribbons, max. 12-inch o.c.
	Polyset Commercial Roof Adhesive	CRA	Continuous ribbons, max. 12-inch o.c.
Generic	ASTM D312, Type IV asphalt	hot asphalt	Full-coverage at 25-30 lbs/square

(b) 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 6: MDP LIMITATIONS FOR TAPERED POLYISOCYANURATE INSULATIONS

ADHESIVE	INSULATION	MIN. TAPERED THICKNESS (IN)	MDP (PSF)
M-OFSA or M-PG1	Any listed polyisocyanurate herein	0.5	-157.5
OB500	Johns Manville "ENRGY 3"	0.5	-315.0
OB500	Atlas Roofing "ACFoam-II"	0.5	-487.5
Board-Max or CRA	Any listed polyisocyanurate herein	1.0	-117.5

(c) Adhered Insulation, Board Size:

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

3.1.4 Roof Covers:

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

TABLE 7: MEMBRANE / ADHESIVE COMBINATIONS

MEMBRANE	ADHESIVE	APPLICATION	RATE
Flex MF/R PVC	Flex Plus Bonding Adhesive	Contact	combined rate of 60 ft²/gal
Flex MF/R PVC	Flex Plus Single Ply Adhesive	Contact	combined rate of 50 ft²/gal
Flex MF/R PVC	Flex Plus WB Substrate Adhesive	Wet lay	130 ft²/gal
Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	Flex Substrate 2375	Contact	combined rate of 55-70 ft²/gal
Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	LA432M Bonding Adhesive	Contact	combined rate of 120 ft²/gal
Flex MF/R PVC FB	Flex 7008 Laminating Adhesive	Wet lay	100 ft²/gal
Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	Flex FB Low Rise Adhesive	Wet lay	FULL: 60 to 83 ft²/gal RIBBONS: Spaced as noted herein
Flex Tripolymer FB Elvaloy KEE	Flex Rubber Emulsion Adhesive	Wet lay	60 ft²/gal
Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	Millennium One Step Foamable Adhesive	Wet lay	Continuous ribbons, max. 4-inch o.c.
Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	Millennium PG-1 Pump Grade Adhesive	Wet lay	"Spatter pattern" at 0.55-0.75 gal/sq.
Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	OlyBond 500 Canister	Wet lay	"Spatter pattern" at 0.32 gal/square.
Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	Polyset CRA	Wet lay	"Spatter pattern" at 3.75 lbs/sq.
Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	FA636 Water Borne Adhesive	Wet lay	100 ft²/gal
Flex Tripolymer FB Elvaloy KEE	hot asphalt	Wet lay	25 lbs/sq
Flex SBS 80s/s Base	hot asphalt	Wet lay	25 lbs/sq
Flex SBS 80s/s Base	Flex MOD-BIT Adhesive	Wet lay	1.5-2.0 gal./sq.

(b) For single-ply membranes in System Type D-1 steel deck applications, the roof membrane shall be run with its length perpendicular to the steel deck flutes.

(c) For System Type C-2 (induction weld), care shall be taken to ensure that the plates do not line-up with membrane seams. This condition may preclude proper induction welding of the membrane to the plates.

4. LIMITATIONS OF USE:

4.1 General:

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

4.1.2 Roof Decks:

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

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

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

(d) 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 8: 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	8d ring shank nails	6	-60
	Span: 24 Blocking: 48	8d ring shank nails	6	-142.5
23/32-inch APA rated CDX plywood	24	8d ring shank nails	6	-82.5
22 ga., Type B, Grade 33 steel	72	#12 HWH Teks 5	6	-97.5
	72	SFS SD5-#12-HW5/16 with ¾-inch steel washers	6	-82.5
22 ga., Type B, Grade 40 steel	72	#12 HWH Teks 5	6	-90.0
	72	5/8" puddle welds	6	-90.0
22 ga., Type B, Grade 80 steel	72	#12 HWH Teks 5	6	-90.0
	72	5/8" puddle welds	6	-90.0
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 **IBC, FBC 1505, FBC HVHZ 1516, UL TGFU.R9228** and the fire classification certificate for the roof cover manufacturer for requirements and limitations regarding roof assembly fire classification.

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

4.1.4 Quality Assurance:

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

4.2 Jurisdiction Specific:

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

4.3 System Listings and Allowable Design Pressures: See Section 4.2.3

ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
9A	Wood	New, Reroof (Tear-Off), Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	10
9B	Wood	New, Reroof (Tear-Off), Recover	C-2	Induction Welded Roof Cover	11
9C	Wood	New, Reroof (Tear-Off), Recover	D-1	Insulated, Mechanically Attached Roof Cover	11
9D	Wood	New or Reroof (Tear-Off)	G	Optional Insulation, Loose-Laid Roof Cover, Pressure Equalizing Vent	12
10A	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	12
10B	Steel	New, Reroof (Tear-Off)	B-2	Mech. Attached Thermal Barrier, Bonded Temp Roof, Bonded Insulation, Bonded Roof Cover	12
10C	Steel or Structural concrete	New, Reroof (Tear-Off), Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	13
10D	Steel	New, Reroof (Tear-Off) or Recover	C-2	Induction Welded Roof Cover	14
10E	Steel or Structural concrete	New, Reroof (Tear-Off), Recover	D-1	Insulated, Mechanically Attached Roof Cover	16
11A	Structural concrete	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	17
11B	Structural concrete	New, Reroof (Tear-Off)	A-1	Bonded Temp Roof, Bonded Insulation, Bonded Roof Cover	18
11C	Structural concrete	New, Reroof (Tear-Off) or Recover	C-2	Induction Welded Roof Cover	19
11D	Structural concrete	New, Reroof (Tear Off)	F	Non-Insulated, Bonded Roof Cover	20
11E	Structural concrete	New or Reroof (Tear-Off)	G	Optional Insulation, Loose-Laid Roof Cover, Pressure Equalizing Vent	20
12A	Lightweight concrete	New or Reroof (Tear-Off)	A-1	LWC to Deck, Bonded Insulation, Bonded Roof Cover	20
12B	Lightweight concrete	New, Reroof (Tear Off)	F	Non-Insulated, Bonded Roof Cover	21
13A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	23
13B	Steel	Recover	C-2	Induction Welded Roof Cover	25
13C	Various	Recover	F	Non-insulated, Bonded Roof Cover	25

TABLE 9A: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER									
SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER (3.1.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)		MDP (PSF)
			TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH	TYPE	ATTACH	
BARE BACK ROOF COVERS:								
W-1	Min. 15/32-inch APA rated CDX plywood; 24-inch span	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OMG Heavy Duty with OMG 3 in. Galvalume Steel Plate	1 per 1.8 ft^2	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	Flex Substrate 2375 or LA432M Bonding Adhesive	-45.0
W-2	Min. 15/32-inch APA rated CDX plywood; 24-inch span	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Flex ISO II or ACFoam-II	OMG Heavy Duty with OMG 3 in. Galvalume Steel Plate	1 per 1.6 ft^2	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	Flex Substrate 2375 or LA432M Bonding Adhesive	-60.0
FLEECE BACK ROOF COVERS:								
W-3	Min. 15/32-inch APA rated CDX plywood	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Flex ISO II or ACFoam-II	OMG Heavy Duty with OMG 3 in. Galvalume Steel Plate	1 per 1.6 ft^2	Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	Flex FB Low Rise Adhesive, ribbons max. 12” o.c.	-37.5 (NO HVHZ)
W-4	Min. 15/32-inch APA rated CDX plywood	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OMG Heavy Duty with OMG 3 in. Galvalume Steel Plate	1 per 1.8 ft^2	Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	Flex FB Low Rise Adhesive, ribbons max. 12” o.c.	-37.5 (NO HVHZ)
W-5	Min. 15/32-inch APA rated CDX plywood; 24-inch span	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OMG Heavy Duty with OMG 3 in. Galvalume Steel Plate	1 per 1.8 ft^2	Flex MF/R PVC FB	Polyset CRA (spatter) or FA636 Water Borne Adhesive	-45.0
W-6	Min. 15/32-inch APA rated CDX plywood; 24-inch span	One or more layers, min. 1.5-inch, any combination, loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OMG Heavy Duty with OMG 3 in. Galvalume Steel Plate	1 per 1.8 ft^2	Flex Tripolymer FB Elvaloy KEE	Flex Rubber Emulsion Adhesive, Polyset CRA (spatter) or FA636 Water Borne Adhesive	-45.0
W-7	Min. 15/32-inch APA rated CDX plywood; 24-inch span	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Flex ISO II or ACFoam-II	OMG Heavy Duty with OMG 3 in. Galvalume Steel Plate	1 per 1.6 ft^2	Flex MF/R PVC FB	Polyset CRA (spatter) or FA636 Water Borne Adhesive	-60.0
W-8	Min. 15/32-inch APA rated CDX plywood; 24-inch span	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Flex ISO II or ACFoam-II	OMG Heavy Duty with OMG 3 in. Galvalume Steel Plate	1 per 1.6 ft^2	Flex Tripolymer FB Elvaloy KEE	Flex Rubber Emulsion Adhesive, Polyset CRA (spatter) or FA636 Water Borne Adhesive	-60.0

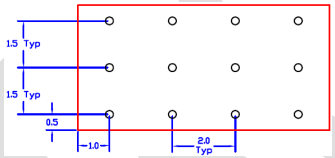
TABLE 9B: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C-2: INDUCTION WELDED MEMBRANE						
SYSTEM NO.	DECK (4.1.2)	INSULATION LAYER (3.1.2)	ATTACHMENT		ROOF COVER (3.1.4)	MDP (PSF)
			FASTENER (3.1.1, 4.2.2)	DENSITY / PATTERN		
W-9	Min. 15/32-inch APA rated CDX plywood	One or more layers, any combination	OMG Heavy Duty with RHINOBOND Insulation Plate (PVC) or Dekfast DF-#14-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	1 per 2.7 ft² 	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded to PVC RHINOBOND Plate with RHINOBOND tool or to SFS *isoweld*® F1-P-6.8-PVC Plate with SFS *isoweld*® tool.	-22.5 (NO HVHZ)
W-10	Min. 15/32-inch APA rated CDX plywood, 24-inch span, blocked 48-inch o.c.	One or more layers, any combination	OMG Heavy Duty with RHINOBOND Insulation Plate (PVC)	36-inch o.c. to engage wood supports, 24-inch o.c.	Min. 60-mil Flex MF/R PVC induction welded with RHINOBOND tool	-52.5
W-11	Min. 15/32-inch APA rated CDX plywood, 24-inch span, blocked 48-inch o.c.	One or more layers, any combination	OMG Heavy Duty with RHINOBOND Insulation Plate (PVC)	18-inch o.c. to engage wood supports, 24-inch o.c.	Min. 60-mil Flex MF/R PVC induction welded with RHINOBOND tool	-105.0
W-12	Min. 15/32-inch APA rated CDX plywood, 24-inch span, blocked 48-inch o.c.	One or more layers, any combination	OMG Heavy Duty with RHINOBOND Insulation Plate (PVC)	9-inch o.c. to engage wood supports, 24-inch o.c.	Min. 60-mil Flex MF/R PVC induction welded with RHINOBOND tool	-142.5

TABLE 9C: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER											
SYSTEM NO.	DECK (4.1.2)	INSULATION LAYER (3.1.2)		ROOF COVER (3.1.4)						MDP (PSF)
		TYPE	ATTACH	MEMBRANE	FASTENER (3.1.1, 4.2.2)	FASTENER SPACING	LAP WIDTH	ROW SPACING	SEAM WELD	
W-13	Min. 15/32-inch APA rated CDX plywood	One or more layers, any combination	Preliminarily attached	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	Dekfast DF-#14-PH3 with Dekfast PLT-R-2-3/8-6B-B	6-inch o.c.	5-inch	76-inch o.c.	1.5-inch	-22.5 (NO HVHZ)
W-14	Min. 23/32-inch APA rated CDX plywood; 24-inch span	One or more layers, any combination	Preliminarily attached	Flex MF/R PVC	Dekfast DF-#15-PH3 with Dekfast PLT-R-2-3/8-6B-B	6-inch o.c.	6-inch	75-inch o.c.	1.5-inch	-52.5
W-15	Min. 23/32-inch APA rated CDX plywood; 24-inch span	One or more layers, any combination	Preliminarily attached	Flex MF/R PVC	Dekfast DF-#15-PH3 with Dekfast PLT-R-2-3/8-6B-B	6-inch o.c.	5-inch	55-inch o.c.	1.5-inch	-82.5

TABLE 9D: WOOD DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE G: OPTIONAL INSULATION, LOOSE-LAID ROOF COVER, PRESSURE EQUALIZING VENT NOT FOR USE IN FBC HVHZ JURISDICTIONS							
SYSTEM NO.	DECK (4.1.2)	AIR BARRIER	INSULATION	UNDERLAYMENT	ROOF COVER		MDP (PSF)
					TYPE	ATTACH	
W-16	Min. 15/32-inch, Type B-C plywood	All joints and penetrations sealed with 0.5-inch thick bead of urethane caulk and covered with 2-inch wide duct tape or bituminous sealing tape.	(Optional) Any fire classified roof insulation and/or coverboard combination, any thickness, loose-laid with staggered joints	12-inch wide strips of polypropylene, air permeable filter fabric, loose laid in a crossing pattern, connecting the V2T vents	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	Acrylife V2T installed in accordance with Acrylife instructions, spaced maximum 50 ft o.c.	-97.5 (NO HVHZ)

TABLE 10A: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER									
SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER		ROOF COVER (3.1.4)		MDP (PSF)
		TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH	TYPE	ATTACH (3.1.3)	BASE PLY	CAP PLY	
SC-1	Min. 22 ga., Type B, Grade 33 steel, 6 ft span	Min. two (2) layers, min. 1.5-inch Flex ISO II or ACFoam-II	Top layer attached with OMG #12 Standard RoofGrip Fastener with OMG 3 in. Ribbed Galvalume Plate	1 per 2.0 ft²	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1, OB500, Polyset Board-Max or Polyset CRA	Flex SBS 80s/s Base in Flex MOD-BIT Adhesive	Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE in Millennium PG-1, OB500 or Polyset CRA, spatter pattern	-52.5
SC-2	Min. 22 ga., Type B, Grade 33 steel, 6 ft span or structural concrete	Min. 1.5-inch Flex ISO II, Flex ISO III, ACFoam-II, ACFoam-III or ENRGY 3	OMG #12 Standard (steel only) or OMG Heavy Duty with OMG 3 in. Galvalume Steel Plate	1 per 1.0 ft²	Min. 0.5-inch ACFoam-HD Coverboard	OB500	None	Flex Tripolymer FB Elvaloy KEE in Flex FB Low Rise Adhesive, full coverage	-97.5

TABLE 10B: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER										
SYS NO.	DECK (4.1.2)	THERMAL BARRIER			TEMP ROOF	INSULATION LAYER(S)		ROOF COVER (3.1.4)		MDP (PSF)
		TYPE	FASTEN (3.1.1, 4.2.2)	ATTACH		TYPE	ATTACH (3.1.3)	TYPE	ATTACH	
BARE BACK ROOF COVERS:										
SC-3	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Dekfast DF-#14-PH3-P3 with Dekfast PLT-R-3, OMG Heavy Duty with OMG 3 in. Galvanized Steel Plate or Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 4.0 ft²	Soprema Elastocol Stick or Elastocol Stick Zero at 0.5 gal/sq. followed by Soprema Sopravap'r, self-adhering	Min. 2-inch Styrofoam Brand Roofmate or Highload 60 followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1 or OB500	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	Flex Substrate 2375 or LA432M Bonding Adhesive	-45.0*
SC-4	Min. 22 ga., Type B, Grade 33 steel, 6 ft span	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Dekfast DF-#14-PH3-P3 with Dekfast PLT-R-3, OMG Heavy Duty with OMG 3 in. Galvanized Steel Plate or Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 2.0 ft²	Soprema Elastocol Stick or Elastocol Stick Zero at 0.5 gal/sq. followed by Soprema Sopravap'r, self-adhering	Min. 1.5-inch Flex ISO II or ACFoam-II followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1 or OB500	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	Flex Substrate 2375 or LA432M Bonding Adhesive	-45.0

TABLE 10B: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION, BONDED ROOF COVER									
SYS NO.	DECK (4.1.2)	THERMAL BARRIER			TEMP ROOF	INSULATION LAYER(S)		ROOF COVER (3.1.4)		MDP (PSF)
		TYPE	FASTEN (3.1.1, 4.2.2)	ATTACH		TYPE	ATTACH (3.1.3)	TYPE	ATTACH	
FLEECE BACK ROOF COVERS:										
SC-5	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Dekfast DF-#14-PH3-P3 with Dekfast PLT-R-3, OMG Heavy Duty with OMG 3 in. Galvanized Steel Plate or Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 4.0 ft²	Soprema Elastocol Stick or Elastocol Stick Zero at 0.5 gal/sq. followed by Soprema Sopravap'r, self-adhering	Min. 2-inch Styrofoam Brand Roofmate or Highload 60 followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1 or OB500	Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	FA636 Water Borne Adhesive	-45.0*
SC-6	Min. 22 ga., Type B, Grade 33 steel, 6 ft span	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Dekfast DF-#14-PH3-P3 with Dekfast PLT-R-3, OMG Heavy Duty with OMG 3 in. Galvanized Steel Plate or Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 2.0 ft²	Soprema Elastocol Stick or Elastocol Stick Zero at 0.5 gal/sq. followed by Soprema Sopravap'r, self-adhering	Min. 1.5-inch Flex ISO II or ACFoam-II followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1 or OB500	Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	FA636 Water Borne Adhesive	-45.0
SC-7	Min. 22 ga., Type B, Grade 33 steel, 6 ft span	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Dekfast DF-#14-PH3-P3 with Dekfast PLT-R-3, OMG Heavy Duty with OMG 3 in. Galvanized Steel Plate or Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 4.0 ft²	Soprema Elastocol Stick or Elastocol Stick Zero at 0.5 gal/sq. followed by Soprema Sopravap'r, self-adhering	Min. 2-inch Styrofoam Brand Roofmate or Highload 60 followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1 or OB500	Flex Tripolymer FB Elvaloy KEE	Flex Rubber Emulsion Adhesive or Polyset CRA (spatter)	-45.0*
SC-8	Min. 22 ga., Type B, Grade 33 steel, 6 ft span	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Dekfast DF-#14-PH3-P3 with Dekfast PLT-R-3, OMG Heavy Duty with OMG 3 in. Galvanized Steel Plate or Trufast #14 HD with Trufast 3" Metal Insulation Plate	1 per 2.0 ft²	Soprema Elastocol Stick or Elastocol Stick Zero at 0.5 gal/sq. followed by Soprema Sopravap'r, self-adhering	Min. 1.5-inch Flex ISO II or ACFoam-II followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1 or OB500	Flex Tripolymer FB Elvaloy KEE	Flex Rubber Emulsion Adhesive or Polyset CRA (spatter)	-45.0

TABLE 10C: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER									
SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER (3.1.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)		MDP (PSF)
			TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH	BASE PLY	CAP PLY	
BARE BACK ROOF COVERS:								
SC-9	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch DensDeck	Dekfast DF-#12-PH3 or DF-#14-PH3 fasteners and Dekfast PLT-R-3	1 per 2.0 ft²	None	Flex Tripolymer MF/R Elvaloy KEE in Flex Substrate 2375	-45.0*
SC-10	Min. 22 ga., type B, Grade 33 steel or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Flex ISO II, Flex ISO III, ACFoam-II or ACFoam-III	OMG #12 Standard (steel only) or OMG Heavy Duty with OMG 3 in. Galvalume Steel Plate	1 per 2.0 ft²	None	Flex MF/R PVC in Flex Plus Single Ply Adhesive, Flex Plus Bonding Adhesive or Flex Plus WB Substrate Adhesive	-45.0*

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TABLE 10C: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER								
SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER (3.1.2)	TOP INSULATION LAYER			ROOF COVER (3.1.4)		MDP (PSF)
			TYPE	FASTENER (3.1.1, 4.2.2)	ATTACH	BASE PLY	CAP PLY	
FLEECE BACK ROOF COVERS:								
SC-11	Min. 22 ga., type B, Grade 33 steel, 6 ft span or structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch Flex ISO II, Flex ISO III, ACFoam-II, ACFoam-III or ENRGY 3	OMG #12 Standard (steel only) or OMG Heavy Duty with OMG 3 in. Galvalume Steel Plate	1 per 1.0 ft²	None	Flex MF/R PVC FB in Flex 7008 Laminating Adhesive	-82.5
SC-12	Min. 22 ga., type B, Grade 33 steel, 6 ft span	One or more layers, any combination, min. 1.5-inch thick loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	OMG XHD with OMG 3 in. Galvalume Steel Plate	1 per 1.6 ft²	None	Flex Tripolymer FB Elvaloy KEE in Flex Rubber Emulsion Adhesive	-90.0
SC-13	Min. 22 ga., type B, Grade 33 steel, 6 ft span	One or more layers, any combination, min. 1.5-inch thick loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OMG #12 Standard with OMG 3 in. Galvalume Steel Plate	1 per 1.0 ft²	Flex SBS 80s/s Base in hot asphalt	Flex Tripolymer FB Elvaloy KEE in hot asphalt	-90.0

TABLE 10D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C-2: INDUCTION WELDED MEMBRANE						
SYSTEM NO.	DECK (4.1.2)	INSULATION LAYER (3.1.2)	ATTACHMENT		ROOF COVER (3.1.4)	MDP (PSF)
			FASTENER (3.1.1, 4.2.2)	DENSITY		
OMG RHINOBOND:						
SC-14	Min. 22 ga., type B, Grade 33 steel, 6 ft span	One or more layers, any combination	OMG Super XHD with RHINOBOND Insulation Plate (PVC)	1 per 6.0 ft² 2 x 3-ft grid	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with RHINOBOND tool	-45.0*
SC-15	Min. 22 ga., type B, Grade 80 steel, 6 ft span	One or more layers, any combination, min. 1.5-inch, preliminarily attached	OMG XHD with RHINOBOND Insulation Plate (PVC)	Max. 12-inch o.c. in rows max. 60-inch o.c.	Min. 50-mil Flex MF/R PVC or min. 60-mil Flex Tripolymer MF/R Elvaloy KEE induction welded with RHINOBOND tool	-45.0
SC-16	Min. 22 ga., type B, Grade 33 steel, 6 ft span	One or more layers, any combination	OMG Super XHD with RHINOBOND Insulation Plate (PVC)	1 per 4.0 ft² 2 x 2-ft grid	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with RHINOBOND tool	-75.0
SFS *ISOWELD*:						
SC-17	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	1 per 8 ft² 2 x 4-ft grid	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-30.0* (NO HVHZ)
SC-18	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	1 per 8 ft² 2 x 4-ft grid	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-37.5* (NO HVHZ)
SC-19	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#12-PH3 or DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	1 per 5.3 ft²	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-37.5* (NO HVHZ)

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TABLE 10D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C-2: INDUCTION WELDED MEMBRANE						
SYSTEM NO.	DECK (4.1.2)	INSULATION LAYER (3.1.2)	ATTACHMENT		ROOF COVER (3.1.4)	MDP (PSF)
			FASTENER (3.1.1, 4.2.2)	DENSITY		
SC-20	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	12-inch o.c. in rows 60-inch o.c.	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-37.5 (NO HVHZ)
SC-21	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	1 per 6 ft^2 2x3-ft grid, staggered	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-37.5 (NO HVHZ)
SC-22	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#12-PH3, DF-#15-PH3 or BS 6.1 Fastener with SFS *isoweld*® F1-P-6.8-PVC Plate	1 per 6 ft^2 2x3-ft grid, staggered	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-37.5 (NO HVHZ)
SC-23	Min. 22 ga., type B, Grade 33 steel	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	1 per 5.3 ft^2	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-45.0*
SC-24	Min. 22 ga., type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	2 x 2-ft grid pattern with first row of fasteners spaced 1-ft from corner edges	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-45.0*
SC-25	Min. 22 ga., type B, Grade 40 steel, 6 ft span	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	Max. 12-inch o.c. in rows max. 60-inch o.c.	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-45.0
SC-26	Min. 22 ga., type B, Grade 80 steel, 6 ft span	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#12-PH3, DF-#15-PH3 or BS 6.1 Fastener with SFS *isoweld*® F1-P-6.8-PVC Plate	Max. 12-inch o.c. in rows max. 60-inch o.c.	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-45.0
SC-27	Min. 22 ga., type B, Grade 40 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	1 per 4.0 ft^2 2x2-ft grid, staggered	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-52.5
SC-28	Min. 22 ga., type B, Grade 80 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#12-PH3, DF-#15-PH3 or BS 6.1 Fastener with SFS *isoweld*® F1-P-6.8-PVC Plate	1 per 4.0 ft^2 2x2-ft grid, staggered	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-52.5
SC-29	Min. 22 ga., type B, Grade 40 steel, 6 ft span	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	1 per 6.0 ft^2 2 x 3-ft grid, staggered	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-52.5
SC-30	Min. 22 ga., type B, Grade 80 steel, 6 ft span	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#12-PH3 or DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	1 per 6.0 ft^2 2 x 3-ft grid, staggered	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-52.5
SC-31	Min. 22 ga., type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	6-inch o.c. in rows 60-inch o.c.	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-60.0
SC-32	Min. 22 ga., type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	1.5 x 2-ft grid pattern with first row of fasteners spaced 0.5-ft from the long edge and 1-ft from the short edge	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-67.5

TABLE 10D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C-2: INDUCTION WELDED MEMBRANE						
SYSTEM NO.	DECK (4.1.2)	INSULATION LAYER (3.1.2)	ATTACHMENT		ROOF COVER (3.1.4)	MDP (PSF)
			FASTENER (3.1.1, 4.2.2)	DENSITY		
SC-33	Min. 22 ga., type B, Grade 33 steel; 6 ft span	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	1.5 x 1.5-ft grid pattern with first row of fasteners spaced 0.5-ft from the long edge and 1-ft from the short edge	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-82.5
SC-34	Min. 22 ga., type B, Grade 40 steel, 6 ft span	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	1 per 3.0 ft² 1.5 x 2-ft grid, staggered	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-82.5
SC-35	Min. 22 ga., type B, Grade 80 steel, 6 ft span	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#12-PH3 or DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	1 per 3.0 ft² 1.5 x 2-ft grid, staggered	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-82.5
SC-36	Min. 22 ga., type B, Grade 40 steel, 6 ft span	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	Max. 6-inch o.c. in rows max. 60-inch o.c.	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-90.0
SC-37	Min. 22 ga., type B, Grade 80 steel, 6 ft span	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#12-PH3, DF-#15-PH3 or BS 6.1 Fastener with SFS *isoweld*® F1-P-6.8-PVC Plate	Max. 6-inch o.c. in rows max. 60-inch o.c.	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-90.0

TABLE 10E: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER										
SYSTEM NO.	DECK (4.1.2)	INSULATION LAYER (3.1.2)		ROOF COVER (3.1.4)						MDP (PSF)
		TYPE	ATTACH	MEMBRANE	FASTENER (3.1.1, 4.2.2)	FASTENER SPACING	LAP WIDTH	ROW SPACING	SEAM WELD	
SC-38	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	OMG XHD with OMG 2-3/8 XHD Barbed Stress Plates	6-inch o.c.	5.5-inch	114.5-inch o.c.	2-inch	-37.5 (NO HVHZ)
SC-39	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	OMG Super XHD with OMG 2 3/4 Super XHD Barbed Stress Plates	12-inch o.c.	6-inch	114-inch o.c.	2-inch	-37.5 (NO HVHZ)
SC-40	Min. 22 ga., type B, Grade 33 steel, 6 ft span or structural concrete	One or more layers, any combination	Preliminarily attached	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	OMG Heavy Duty screws with OMG 2 in. Barbed Plate	6-inch o.c.	4-inch	55-inch o.c.	2-inch	-45.0
SC-41	Min. 22 ga., type B, Grade 80 steel, 6 ft span	One or more layers, any combination	Preliminarily attached	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	OMG XHD with OMG 2-3/8 XHD Barbed Stress Plates	6-inch o.c.	5.5-inch	75.5-inch o.c.	2-inch	-45.0
SC-42	Min. 22 ga., type B, Grade 80 steel, 6 ft span	One or more layers, any combination	Preliminarily attached	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	OMG Super XHD with OMG 2 3/4 Super XHD Barbed Stress Plates	12-inch o.c.	6-inch	75-inch o.c.	2-inch	-45.0

TABLE 10E: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER										
SYSTEM NO.	DECK (4.1.2)	INSULATION LAYER (3.1.2)		ROOF COVER (3.1.4)						MDP (PSF)
		TYPE	ATTACH	MEMBRANE	FASTENER (3.1.1, 4.2.2)	FASTENER SPACING	LAP WIDTH	ROW SPACING	SEAM WELD	
SC-43	Min. 22 ga., type B, Grade 80 steel, 6 ft span	One or more layers, any combination	Preliminarily attached	Flex MF/R PVC or min. 50-mil Flex Tripolymer MF/R Elvaloy KEE	OMG XHD with OMG 2-3/8 XHD Barbed Stress Plates or SFS Dekfast DF-#15-PH3 with Dekfast PLT-O-2-3/4-12B.	6-inch o.c.	5-inch	115-inch o.c.	1.5-inch	-45.0

TABLE 11A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER										
SYSTEM NO.	DECK (4.1.2)	PRIMER	BASE INSULATION LAYER		TOP INSULATION LAYER		ROOF COVER (3.1.4)			MDP (PSF)
			TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	CAP PLY	APPLICATION	
BARE BACK ROOF COVERS:										
C-1	Structural concrete	ASTM D41	One or more layers Flex ISO II, ACFoam-II, ENRGY 3	hot asphalt	(Optional) Additional layer(s) base insulation	hot asphalt	None	Flex MF/R PVC	Flex Plus Single Ply Adhesive, Flex Plus Bonding Adhesive or Flex Plus WB Substrate Adhesive	-45.0
FLEECE BACK ROOF COVERS:										
C-2	Structural concrete	ASTM D41	ENRGY 3	hot asphalt	(Optional) Additional layer(s) base insulation	hot asphalt	None	Flex Tripolymer FB Elvaloy KEE	Flex Rubber Emulsion Adhesive	-45.0
C-3	Structural concrete	None	Min. 2-inch Styrofoam Brand Roofmate or Highload 60	OB500	Min. 0.5-inch DensDeck	OB500	None	Flex Tripolymer FB Elvaloy KEE	Flex Rubber Emulsion Adhesive	-150.0
C-4	Structural concrete	ASTM D41	One or more min. 1.5-inch Flex ISO II or ACFoam-II	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	Two (2) plies GAFGLAS Ply 4 or one ply Flex SBS 80s/s Base in hot asphalt	Flex Tripolymer FB Elvaloy KEE	hot asphalt	-225.0

TABLE 11B: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED TEMP ROOF, BONDED INSULATION, BONDED ROOF COVER										
SYSTEM NO.	DECK (4.1.2)	PRIMER	VAPOR BARRIER / TEMPORARY ROOF	BASE INSULATION LAYER(S)		TOP INSULATION LAYER		ROOF COVER (3.1.4)		MDP (PSF)
				TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	CAP PLY	
BARE BACK ROOF COVERS:										
C-5	Structural concrete	Soprema Elastocol Stick or Elastocol Stick Zero	Soprema Sopravap'r, self-adhering	Min. 1.5-inch Flex ISO II or ACFoam-II	M-OSFA, M-PG1 or OB500	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1 or OB500	None	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE in Flex Substrate 2375 or LA432M Bonding Adhesive	-67.5
C-6	Structural concrete	Soprema Elastocol Stick or Elastocol Stick Zero	Soprema Sopravap'r, self-adhering	Min. 2-inch Styrofoam Brand Roofmate or Highload 60	M-OSFA, M-PG1 or OB500	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1 or OB500	None	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE in Flex Substrate 2375 or LA432M Bonding Adhesive	-75.0
C-7	Structural concrete	Soprema Elastocol 600c	Soprema Sopralene Stick, self-adhering	2-inch Flex ISO II or ACFoam-II	OB500, 6-inch o.c.	2-inch Flex ISO II or ACFoam-II	OB500, 6-inch o.c.	None	Flex Tripolymer MF/R Elvaloy KEE in Flex 7008 Laminating Adhesive	-217.5
FLEECE BACK ROOF COVERS:										
C-8	Structural concrete	Soprema Elastocol Stick or Elastocol Stick Zero	Soprema Sopravap'r, self-adhering	Min. 1.5-inch Flex ISO II or ACFoam-II or min. 2-inch Styrofoam Brand Roofmate or Highload 60	M-OSFA, M-PG1 or OB500	Min. 0.25-inch DensDeck Prime	M-OSFA, M-PG1 or OB500	None	Flex MF/R PVC FB in FA636 Water Borne Adhesive	-45.0
C-9	Structural concrete	Soprema Elastocol Stick or Elastocol Stick Zero	Soprema Sopravap'r, self-adhering	Min. 1.5-inch Flex ISO II or ACFoam-II	M-OSFA, M-PG1 or OB500	Min. 0.25-inch DensDeck Prime	M-OSFA, M-PG1 or OB500	None	Flex Tripolymer FB Elvaloy KEE in Flex Rubber Emulsion Adhesive or FA636 Water Borne Adhesive	-67.5
C-10	Structural concrete	Soprema Elastocol Stick or Elastocol Stick Zero	Soprema Sopravap'r, self-adhering	Min. 1.5-inch Flex ISO II or ACFoam-II	M-OSFA, M-PG1 or OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1 or OB500	None	Flex Tripolymer FB Elvaloy KEE in Flex Rubber Emulsion Adhesive, Polyset CRA (spatter) or FA636 Water Borne Adhesive	-67.5
C-11	Structural concrete	Soprema Elastocol Stick or Elastocol Stick Zero	Soprema Sopravap'r, self-adhering	Min. 1.5-inch Flex ISO II or ACFoam-II	M-OSFA, M-PG1 or OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1 or OB500	None	Flex MF/R PVC FB in FA636 Water Borne Adhesive	-67.5
C-12	Structural concrete	Soprema Elastocol Stick or Elastocol Stick Zero	Soprema Sopravap'r, self-adhering	Min. 2-inch Styrofoam Brand Roofmate or Highload 60	M-OSFA, M-PG1 or OB500	Min. 0.25-inch DensDeck Prime	M-OSFA, M-PG1 or OB500	None	Flex Tripolymer FB Elvaloy KEE in Flex Rubber Emulsion Adhesive or FA636 Water Borne Adhesive	-75.0

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TABLE 11B: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED TEMP ROOF, BONDED INSULATION, BONDED ROOF COVER										
System No.	Deck (4.1.2)	Primer	Vapor Barrier / Temporary Roof	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover (3.1.4)		MDP (psf)
				Type	Attach (3.1.3)	Type	Attach (3.1.3)	Base Ply	Cap Ply	
C-13	Structural concrete	Soprema Elastocol Stick or Elastocol Stick Zero	Soprema Sopravap'r, self-adhering	Min. 2-inch Styrofoam Brand Roofmate or Highload 60	M-OSFA, M-PG1 or OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1 or OB500	None	Flex Tripolymer FB Elvaloy KEE in Flex Rubber Emulsion Adhesive, Polyset CRA (spatter) or FA636 Water Borne Adhesive	-75.0
C-14	Structural concrete	Soprema Elastocol Stick or Elastocol Stick Zero	Soprema Sopravap'r, self-adhering	Min. 2-inch Styrofoam Brand Roofmate or Highload 60	M-OSFA, M-PG1 or OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1 or OB500	None	Flex MF/R PVC FB in FA636 Water Borne Adhesive	-75.0
C-15	Structural concrete	ASTM D41	GAFGLAS Ply 4 in hot asphalt	One or more min. 1.5-inch Flex ISO II or ACFoam-II	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	Two (2) plies GAFGLAS Ply 4, in hot asphalt	Flex Tripolymer FB Elvaloy KEE in hot asphalt	-225.0
C-16	Structural concrete	ASTM D41	Flex SBS 80 s/s Base in hot asphalt	One or more min. 1.5-inch Flex ISO II or ACFoam-II	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	Flex SBS 80 s/s Base in hot asphalt	Flex Tripolymer FB Elvaloy KEE in hot asphalt	-255.0

TABLE 11C: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C-2: INDUCTION WELDED MEMBRANE						
System No.	Deck (4.1.2)	Insulation Layer (3.1.2)	Attachment		Roof Cover (3.1.4)	MDP (psf)
			Fastener (3.1.1, 4.2.2)	Density		
C-17	Structural concrete	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#14-PH3 or DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	Max. 12-inch o.c. in rows max. 60-inch o.c.	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-45.0
C-18	Structural concrete	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#14-PH3 or DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	1 per 6 ft^2 2 x 3-ft grid, staggered	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-52.5
C-19	Structural concrete	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#14-PH3 or DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	1 per 3 ft^2 1.5 x 2-ft grid, staggered	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-82.5
C-20	Structural concrete	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#14-PH3 or DF-#15-PH3 with SFS *isoweld*® F1-P-6.8-PVC Plate	Max. 6-inch o.c. in rows max. 60-inch o.c.	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool	-90.0

TABLE 11D: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER					
SYSTEM NO.	DECK (4.1.2)	PRIMER	ROOF COVER (3.1.4)		MDP (PSF)
			TYPE	ATTACH	
C-21	Structural concrete	Flex Asphalt Cutback Primer	Flex Tripolymer FB Elvaloy KEE	hot asphalt	-307.5
C-22	Structural concrete	None	Flex Tripolymer FB Elvaloy KEE	Flex FB Low Rise Adhesive, full coverage	-382.5

TABLE 11E: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE G: OPTIONAL INSULATION, LOOSE-LAID ROOF COVER, PRESSURE EQUALIZING VENT NOT FOR USE IN FBC HVHZ JURISDICTIONS							
SYSTEM NO.	DECK (4.1.2)	AIR BARRIER	INSULATION	UNDERLAYMENT	ROOF COVER		MDP (PSF)
					TYPE	ATTACH	
C-23	Structural concrete	One or two plies, ASTM D4601 base sheet, applied in full mopping of hot asphalt	(Optional) Any fire classified roof insulation and/or coverboard combination, any thickness, loose-laid with staggered joints	12-inch wide strips of polypropylene, air permeable filter fabric, loose laid in a crossing pattern, connecting the V2T vents	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	Acyrlife V2T installed in accordance with Acrylife instructions, spaced maximum 50 ft o.c.	-97.5 (NO HVHZ)

TABLE 12A: LIGHTWEIGHT CONCRETE DECKS - 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)		MDP (PSF)
			TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	TYPE	ATTACH	
BARE BACK ROOF COVERS:									
LWC-1	Structural concrete	Min. 350 psi Celcore Cellular Concrete	Min. 1.5-inch Flex ISO II or ACFoam-II	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	(Optional) Additional layers base insulation	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	Flex MF/R PVC	FA636 Water Borne Adhesive	-165.0
LWC-2	Structural concrete	Min. 350 psi Celcore Cellular Concrete	Min. 1.5-inch Flex ISO II or ACFoam-II	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or 0.5-inch ACFoam-HD Coverboard	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	Flex MF/R PVC	FA636 Water Borne Adhesive	-210.0
LWC-3	Structural concrete	Min. 350 psi Celcore Cellular Concrete	0.5-inch ACFoam-HD Coverboard	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	None	N/A	Flex MF/R PVC	FA636 Water Borne Adhesive	-240.0
FLEECE BACK ROOF COVERS:									
LWC-4	Structural concrete	Min. 350 psi Celcore Cellular Concrete	Min. 1.5-inch Flex ISO II or ACFoam-II	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	(Optional) Additional layers base insulation	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	Millennium One Step Foamable Adhesive, ribbons 4” o.c. or FA636 Water Borne Adhesive	-165.0

TABLE 12A: LIGHTWEIGHT CONCRETE DECKS - 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)		MDP (PSF)
			TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	TYPE	ATTACH	
LWC-5	Structural concrete	Min. 350 psi Celcore Cellular Concrete	Min. 1.5-inch Flex ISO II or ACFoam-II	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or 0.5-inch ACFoam-HD Coverboard	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	Millennium One Step Foamable Adhesive, ribbons 4” o.c. or FA636 Water Borne Adhesive	-210.0
LWC-6	Structural concrete	Min. 350 psi Celcore Cellular Concrete	0.5-inch ACFoam-HD Coverboard	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	None	N/A	Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	Millennium One Step Foamable Adhesive, ribbons 4” o.c. or FA636 Water Borne Adhesive	-240.0

TABLE 12B: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE F: LWC-TO-DECK, BONDED ROOF COVER						
SYSTEM NO.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2)	PRIMER	ROOF COVER (3.1.4)		MDP (PSF)
				TYPE	ATTACH	
LWC-7	Min. 22 ga, type BV, Grade 40 steel; 6 ft span; 5/8” puddle welds, 6” o.c.	Min. 350 psi, min. 2” thick Celcore Cellular Concrete	None	Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	OlyBond 500 Canister (spatter-applied) or Polyset CRA (spatter-applied)	-52.5
LWC-8	Min. 22 ga, type B, Grade 33 steel; 6 ft span; 5/8” puddle welds with washers or #12 HWH Teks 5, 6” o.c.	Min. 200 psi, min. 2” thick Celcore Cellular Concrete	None	Flex Tripolymer FB Elvaloy KEE	Flex Rubber Emulsion Adhesive	-60.0
LWC-9	Min. 22 ga, type BV, Grade 33 steel; 6 ft span; 5/8” puddle welds with washers or #12 HWH Teks 5, 6” o.c.	Min. 200 psi, min. 2” thick Celcore Cellular Concrete	ASTM D41 primer	Flex Tripolymer FB Elvaloy KEE	hot asphalt	-60.0
LWC-10	Min. 22 ga, type B, Grade 33 steel; 5 ft span; 5/8” puddle welds with washers or #12 HWH Teks 5, 6” o.c.	Min. 200 psi, min. 2” thick Celcore Cellular Concrete	None	Flex Tripolymer FB Elvaloy KEE	Flex Rubber Emulsion Adhesive	-75.0
LWC-11	Min. 22 ga, type B, Grade 33 steel; 5 ft span; 5/8” puddle welds with washers or #12 HWH Teks 5, 6” o.c.	Min. 200 psi, min. 2” thick Celcore Cellular Concrete	ASTM D41 primer	Flex Tripolymer FB Elvaloy KEE	hot asphalt	-75.0
LWC-12	Min. 22 ga, type B, Grade 33 steel; 5 ft span; #12 HWH Teks 5, 6” o.c.	Min. 200 psi, min. 2” thick Celcore Cellular Concrete	None	Flex Tripolymer FB Elvaloy KEE	Flex Rubber Emulsion Adhesive	-82.5
LWC-13	Min. 22 ga, type B, Grade 33 steel; 5 ft span; #12 HWH Teks 5, 6” o.c.	Min. 200 psi, min. 2” thick Celcore Cellular Concrete	ASTM D41 primer	Flex Tripolymer FB Elvaloy KEE	hot asphalt	-82.5
LWC-14	Min. 22 ga, type B, Grade 33 steel; 4 ft span; #12 HWH Teks 5, 6” o.c.	Min. 200 psi, min. 2” thick Celcore Cellular Concrete	None	Flex Tripolymer FB Elvaloy KEE	Flex Rubber Emulsion Adhesive	-90.0

TABLE 12B: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE F: LWC-TO-DECK, BONDED ROOF COVER						
SYSTEM NO.	DECK (4.1.2)	LIGHTWEIGHT CONCRETE (3.1.2)	PRIMER	ROOF COVER (3.1.4)		MDP (PSF)
				TYPE	ATTACH	
LWC-15	Min. 22 ga, type B, Grade 33 steel; 5 ft span; #12 HWH Teks 5, 6" o.c.	Min. 200 psi, min. 2" thick Celcore Cellular Concrete	ASTM D41 primer	Flex Tripolymer FB Elvaloy KEE	hot asphalt	-90.0
LWC-16	Structural concrete	Min. 200 psi, min. 2" thick Celcore Cellular Concrete	None	Flex Tripolymer FB Elvaloy KEE	Flex Rubber Emulsion Adhesive	-105.0
LWC-17	Structural concrete	Min. 200 psi, min. 2" thick Celcore Cellular Concrete	ASTM D41 primer	Flex Tripolymer FB Elvaloy KEE	hot asphalt	-135.0
LWC-18	Structural concrete	Min. 350 psi, min. 2" thick Celcore Cellular Concrete	None	Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	OlyBond 500 Canister (spatter-applied) or Polyset CRA (spatter-applied)	-386.0
LWC-19	Min. 22 ga, type B, Grade 33 steel; 5 ft span; 5/8" puddle welds with washers or #12 HWH Teks 5, 6" o.c.	Min. 300 psi, min. 2" thick Elastizell Lightweight Insulating Concrete	None	Flex Tripolymer FB Elvaloy KEE	Flex Rubber Emulsion Adhesive	-97.5
LWC-20	Structural concrete	Min. 160 psi, min. 2" thick Elastizell Lightweight Insulating Concrete	None	Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	FA636 Water Borne Adhesive	-245.0
LWC-21	Structural concrete	Min. 160 psi, min. 2" thick Elastizell Lightweight Insulating Concrete	None	Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	OlyBond 500 Canister (spatter-applied) or Polyset CRA (spatter-applied)	-270.0
LWC-22	Structural concrete.	Min. 300 psi, min. 2" thick Elastizell Lightweight Insulating Concrete	None	Flex Tripolymer FB Elvaloy KEE	Flex Rubber Emulsion Adhesive	-465.0
LWC-23	Structural concrete	Min. 370 psi, min. 2" thick Elastizell Lightweight Insulating Concrete	None	Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	FA636 Water Borne Adhesive	-582.5

TABLE 13A: 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, coverboard and roof cover when adhered to the substrate, irrespective of the deck type or performance of the substrate. The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.									
System No.	Substrate (4.1.2, 4.2.2)	Base Insulation Layer		Top Insulation Layer		Roof Cover (3.1.4)			MDP (PSF)[A]
		Type	Attach (3.1.3)	Type	Attach (3.1.3)	Base Ply	Cap Ply	Application	
Bare Back Roof Cover:									
R-1	Existing asphaltic built-up roof (BUR) or mineral surface cap sheet	One or more layers, min. 1.5-inch Flex ISO II, ACFoam-II or ENRGY 3	OB500	(Optional) Additional layer(s) base insulation	OB500	None	Flex MF/R PVC	Flex Plus Single Ply Adhesive, Flex Plus Bonding Adhesive or Flex Plus WB Substrate Adhesive	-45.0
R-2	Existing smooth-surface built-up roof (BUR), gravel-surface built-up roof (BUR) with loose gravel removed or granule-surface SBS modified bitumen	One or more layers, min. 1.5-in Flex ISO II or ACFoam-II	M-PG1, OB500, Polyset CRA or Polyset Board-Max	(Optional) Additional layers of base insulation	M-PG1, OB500, Polyset CRA or Polyset Board-Max	None	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	Flex Substrate 2375 or LA432M Bonding Adhesive	-157.5
R-3	Existing smooth-surface built-up roof (BUR), gravel-surface built-up roof (BUR) with loose gravel removed or granule-surface SBS modified bitumen	One or more layers, min. 1.5-in Flex ISO II or ACFoam-II	M-OSFA	(Optional) Additional layers of base insulation	M-OSFA	None	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	Flex Substrate 2375 or LA432M Bonding Adhesive	-195.0
R-4	Existing smooth-surface built-up roof (BUR), gravel-surface built-up roof (BUR) with loose gravel removed or granule-surface SBS modified bitumen	One or more layers, min. 1.5-in Insulfoam I (non-HVHZ) or Insulfoam IX (non-HVHZ or HVHZ)	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	Min. 0.25 in. DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	None	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	Flex Substrate 2375 or LA432M Bonding Adhesive	-237.5
R-5	Existing smooth-surface built-up roof (BUR), gravel-surface built-up roof (BUR) with loose gravel removed or granule-surface SBS modified bitumen	One or more layers, min. 1.5-in Flex ISO II or ACFoam-II	M-PG1	Min. 0.25 in. DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	None	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	Flex Substrate 2375 or LA432M Bonding Adhesive	-237.5
Fleece Back Roof Covers:									
R-6	Existing smooth-surface built-up roof (BUR), gravel-surface built-up roof (BUR) with loose gravel removed or granule-surface SBS modified bitumen	One or more layers, min. 1.5-in Flex ISO II or ACFoam-II	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	(Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	None	Flex MF/R PVC FB	Flex FB Low Rise Adhesive, ribbons max. 12” o.c., Polyset CRA (spatter) or FA636 Water Borne Adhesive	-45.0
R-7	Existing smooth-surface built-up roof (BUR), gravel-surface built-up roof (BUR) with loose gravel removed or granule-surface SBS modified bitumen	One or more layers, min. 1.5-in Flex ISO II or ACFoam-II	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	(Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	None	Flex Tripolymer FB Elvaloy KEE	Flex FB Low Rise Adhesive, ribbons max. 12” o.c., Flex Rubber Emulsion Adhesive, Polyset CRA (spatter) or FA636 Water Borne Adhesive	-45.0

TABLE 13A: 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, coverboard and roof cover when adhered to the substrate, irrespective of the deck type or performance of the substrate. The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.									
SYSTEM NO.	SUBSTRATE (4.1.2, 4.2.2)	BASE INSULATION LAYER		TOP INSULATION LAYER		ROOF COVER (3.1.4)			MDP (PSF)[A]
		TYPE	ATTACH (3.1.3)	TYPE	ATTACH (3.1.3)	BASE PLY	CAP PLY	APPLICATION	
R-8	Existing smooth-surface built-up roof (BUR), gravel-surface built-up roof (BUR) with loose gravel removed or granule-surface SBS modified bitumen	One or more layers, min. 1.5-in Flex ISO II or ACFoam-II	M-PG1, OB500, Polyset CRA or Polyset Board-Max	(Optional) Additional layers of base insulation	M-PG1, OB500, Polyset CRA or Polyset Board-Max	None	Flex MF/R PVC FB	Polyset CRA (spatter) or FA636 Water Borne Adhesive	-157.5
R-9	Existing smooth-surface built-up roof (BUR), gravel-surface built-up roof (BUR) with loose gravel removed or granule-surface SBS modified bitumen	One or more layers, min. 1.5-in Flex ISO II or ACFoam-II	M-PG1, OB500, Polyset CRA or Polyset Board-Max	(Optional) Additional layers of base insulation	M-PG1, OB500, Polyset CRA or Polyset Board-Max	None	Flex Tripolymer FB Elvaloy KEE	Flex Rubber Emulsion Adhesive, Polyset CRA (spatter) or FA636 Water Borne Adhesive	-157.5
R-10	Existing smooth-surface built-up roof (BUR), gravel-surface built-up roof (BUR) with loose gravel removed or granule-surface SBS modified bitumen	One or more layers, min. 1.5-in Flex ISO II or ACFoam-II	M-OSFA	(Optional) Additional layers of base insulation	M-OSFA	None	Flex MF/R PVC FB	Polyset CRA (spatter) or FA636 Water Borne Adhesive	-195.0
R-11	Existing smooth-surface built-up roof (BUR), gravel-surface built-up roof (BUR) with loose gravel removed or granule-surface SBS modified bitumen	One or more layers, min. 1.5-in Flex ISO II or ACFoam-II	M-OSFA	(Optional) Additional layers of base insulation	M-OSFA	None	Flex Tripolymer FB Elvaloy KEE	Flex Rubber Emulsion Adhesive, Polyset CRA (spatter) or FA636 Water Borne Adhesive	-195.0
R-12	Existing smooth-surface asphalt built-up roof (BUR)	One or more min. 1.5-inch Flex ISO II or ACFoam-II	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	Two (2) plies GAFGLAS Ply 4 in hot asphalt	Flex Tripolymer FB Elvaloy KEE	hot asphalt	-225.0
R-13	Existing smooth-surface built-up roof (BUR), gravel-surface built-up roof (BUR) with loose gravel removed or granule-surface SBS modified bitumen	One or more layers, min. 1.5-in Insulfoam I (non-HVHZ) or Insulfoam IX (non-HVHZ or HVHZ)	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	Min. 0.25 in. DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	None	Flex MF/R PVC FB	Polyset CRA (spatter) or FA636 Water Borne Adhesive	-237.5
R-14	Existing smooth-surface built-up roof (BUR), gravel-surface built-up roof (BUR) with loose gravel removed or granule-surface SBS modified bitumen	One or more layers, min. 1.5-in Flex ISO II or ACFoam-II	M-PG1	Min. 0.25 in. DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	None	Flex MF/R PVC FB	Polyset CRA (spatter) or FA636 Water Borne Adhesive	-237.5
R-15	Existing smooth-surface built-up roof (BUR), gravel-surface built-up roof (BUR) with loose gravel removed or granule-surface SBS modified bitumen	One or more layers, min. 1.5-in Insulfoam I (non-HVHZ) or Insulfoam IX (non-HVHZ or HVHZ)	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	Min. 0.25 in. DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	None	Flex Tripolymer FB Elvaloy KEE	Flex Rubber Emulsion Adhesive, Polyset CRA (spatter) or FA636 Water Borne Adhesive	-237.5

TABLE 13A: 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, coverboard and roof cover when adhered to the substrate, irrespective of the deck type or performance of the substrate. The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

System No.	Substrate (4.1.2, 4.2.2)	Base Insulation Layer		Top Insulation Layer		Roof Cover (3.1.4)			MDP (psf)[A]
		Type	Attach (3.1.3)	Type	Attach (3.1.3)	Base Ply	Cap Ply	Application	
R-16	Existing smooth-surface built-up roof (BUR), gravel-surface built-up roof (BUR) with loose gravel removed or granule-surface SBS modified bitumen	One or more layers, min. 1.5-in Flex ISO II or ACFoam-II	M-PG1	Min. 0.25 in. DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	None	Flex Tripolymer FB Elvaloy KEE	Flex Rubber Emulsion Adhesive, Polyset CRA (spatter) or FA636 Water Borne Adhesive	-237.5
R-17	Existing smooth-surface SBS modified bitumen	One or more min. 1.5-inch Flex ISO II or ACFoam-II	hot asphalt	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	hot asphalt	Flex SBS 80 s/s Base in hot asphalt	Flex Tripolymer FB Elvaloy KEE	hot asphalt	-255.0

TABLE 13B: STEEL - RECOVER
SYSTEM TYPE C-2: INDUCTION WELDED ROOF COVER
(All areas where the existing metal panels do not lay flush on the underlying purlin shall have a 0.25-inch diameter pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin.)

System No.	Substrate (4.1.2)	Insulation Layer (3.1.2)	Attachment		Roof Cover (3.1.4)	MDP (psf)
			Fastener (3.1.1, 4.2.2)	Spacing		
OMG RHINOBOND:						
R-18	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi steel purlins spaced **max. 60-inch o.c.**	One or more layers, any combination, preliminarily fastened	OMG RetroDriller with RHINOBOND Insulation Plate (PVC)	12-inch o.c. along purlins	Min. 50-mil Flex MF/R PVC or min. 60-mil Flex Tripolymer MF/R Elvaloy KEE, induction welded with RHINOBOND tool	-45.0
SFS *ISOWELD*:						
R-19	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi steel purlins spaced **max. 60-inch o.c.**	One or more layers, any combination, preliminarily fastened	Dekfast DF-#12-PC-SQ3 with SFS *isoweld*® F1-P-6.8-PVC Plate are fastened through to purlins	12-inch o.c. along purlins	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE, induction welded with SFS isoweld tool	-45.0
R-20	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi steel purlins spaced **max. 60-inch o.c.**	One or more layers, any combination, preliminarily fastened	Dekfast DF-#12-PC-SQ3 with SFS *isoweld*® F1-P-6.8-PVC Plate are fastened through to purlins	6-inch o.c. along purlins	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE, induction welded with SFS isoweld tool	-90.0

TABLE 13C: RECOVER APPLICATIONS
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER

[A] The reported MDP documents the allowable maximum design pressure of the new roof cover when adhered to the substrate, irrespective of the deck type or performance of the substrate). 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)	Primer	Roof Cover (3.1.4)		MDP (psf)[A]
			Type	Attach	
R-21	Existing smooth-surface built-up roof (BUR) or granule-surface SBS modified bitumen	None	Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	Flex FB Low Rise Adhesive, ribbons max. 6” o.c. or Polyset CRA (spatter)	-60.0