



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](#).

CODE: 2023 Florida Building Code, 8th Edition

JURISDICTION: Non-HVHZ and HVHZ

NEMO CATEGORY: Single Ply

FBC CATEGORY: Roofing

FBC SUB-CATEGORY: 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: The Florida Product Approval Number (FL#) preceded by the words "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 ETC, 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 ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
- ✓ This is a building code evaluation. NEMO ETC, 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.



1. CODES, PROPERTIES AND STANDARDS:

CODE	SECTION	PROPERTY	STANDARD
2023 Florida Building Code, 8 th Edition	1504.3.1	Wind resistance	FM 4474
	1504.3.1	Wind resistance	UL 1897
	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:

TYPE	PRODUCT		MATERIAL STANDARD		MANUFACTURING LOCATION
	NAME	THICKNESS	REFERENCE	TYPE	
ROOF COVER	Flex MF/R PVC	50, 60, 80-mil	ASTM D4434	III	Hillside, NJ
	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	

TYPE	PRODUCT	FBC	NOA
ROOFING FASTENERS:	Dekfast DF-#12-PH3	FL20311	22-0913.02
	Dekfast DF-#12-PC-SQ3		
	Dekfast DF-#14-PH3		
	Dekfast DF-#15-PH3		
	Dekfast PLT-R-3		
	Dekfast PLT-R-2-3/8-6B-B		
	Dekfast PLT-O-2-3/4-12B		
	isoweld F1-P-6.8-PVC Plate		
	OMG #12 Standard	FL699	23-0718.03
	OMG Heavy Duty		
	OMG XHD		
	OMG Super XHD		
	OMG RetroDriller		
	OMG 2 in. Barbed Plate		
	OMG 2-3/8 XHD Barbed Stress Plates		
	OMG 2 3/4 Super XHD Barbed Stress Plate		
OMG 3 in. Galvalume Steel Plate	FL4500	22-1214.02	
RHINOBOND Insulation Plate (PVC)			
Trufast #14 HD			
Trufast 3" Metal Insulation Plate			
INSULATIONS:	ACFoam-II	FL17989	23-0207.02
	ACFoam-III		
	ACFoam-HD Coverboard		
	ENRGY 3	FL4205	18-0501.05
	Styrofoam Brand Roofmate	FL38732	21-0928.13
	Styrofoam Brand Highload 60		
	DensDeck	FL1250	22-1223.04
	DensDeck Prime		
SECUROCK Gypsum-Fiber Roof Board	FL4264	21-0923.05	



TABLE 2: COMPONENTS BY OTHERS (4.1.3)			
TYPE	PRODUCT	FBC	NOA
INSULATIONS (CONT'D):	Celcore Cellular Concrete	FL2037	23-0718.06
	Elastizell Lightweight Insulating Concrete	FL4994	23-0817.05
ADHESIVES:	Millennium One Step Foamable Adhesive	FL1800	21-1018.06
	Millennium PG-1 Pump Grade Adhesive		
	OlyBond 500	FL1608	22-0519.04
	Polyset Board-Max	FL22256	22-0614.11
	Polyset Commercial Roof Adhesive	FL1365	21-1115.05
	TACC FA-636	None	23-0718.10
	TACC LA-432M		
PRIMERS:	Elastocol Stick	FL9779	22-0706.01
	Elastocol Stick Zero		
ROLL GOODS:	GAFGLAS Ply 4	FL11946	23-1023.04
	SOPRAVAP'R	None	19-0828.01

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.

FASTENER REFERENCES	
ROOF DECK	FASTENER ENGAGEMENT
Wood, engineered sheathing	Min. 0.75-inch penetration
Wood, plank	Min. 1-inch embedment
Steel	Min. 0.75-inch penetration
Structural Concrete	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 FBC Approved (Local or Statewide) board(s) that meet FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover.
- (b) For Structural Concrete Deck or Recover Applications using System Type C-1 the base insulation layer is optional and using System Type C-2, D-1 or D-2, the insulation is optional. Alternatively, an FBC Approved (Local or Statewide) insulation board or coverboard may be used as a separation layer. Board products shall be preliminarily attached prior to roof cover installation, see [Section 3.1.2\(d\)](#). The separator component shall be documented as meeting FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover in Recover applications.
- (c) Minimum 200 psi, minimum 2-inch thick FBC Approved (Local or Statewide) lightweight insulating concrete may be substituted for, or installed below, rigid insulation board for System Types B-1, C-1, C-2, D-1 or D-2, whereby fasteners are installed through the lightweight insulating concrete to engage the structural deck. The structural deck shall be of equal or greater type, thickness and strength to the steel and structural concrete deck listings. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. This is a wind uplift resistance allowance and does not purport to address non-wind-uplift-related issues, such as deck venting or moisture levels within the LWIC and the potential effect on overlying components.
- (d) 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.



(e) 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.

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.

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.

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:

- Non-HVHZ: Unless otherwise noted, refer to Section 2.2.10.6.2 of [FM Loss Prevention Data Sheet 1-29](#).
- 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.

MEMBRANE / ADHESIVE COMBINATIONS			
MEMBRANE	ADHESIVE	APPLICATION	RATE
Flex MF/R PVC	Flex Plus Bonding Adhesive	Contact	combined rate of 60 ft ² /gal
Flex MF/R PVC	Flex Plus Single Ply Adhesive	Contact	combined rate of 50 ft ² /gal
Flex MF/R PVC	Flex Plus WB Substrate Adhesive	Wet lay	130 ft ² /gal
Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	Flex Substrate 2375	Contact	combined rate of 55-70 ft ² /gal
Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE	TACC LA-432M	Contact	combined rate of 120 ft ² /gal
Flex MF/R PVC FB	Flex 7008 Laminating Adhesive	Wet lay	100 ft ² /gal



MEMBRANE / ADHESIVE COMBINATIONS			
MEMBRANE	ADHESIVE	APPLICATION	RATE
Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	Flex FB Low Rise Adhesive	Wet lay	FULL: 60 to 83 ft ² /gal RIBBONS: Spaced as noted herein
Flex Tripolymer FB Elvaloy KEE	Flex Rubber Emulsion Adhesive	Wet lay	60 ft ² /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	TACC FA-636	Wet lay	100 ft ² /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 ETC, 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 ETC, 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 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.
- 4.1.3 All components in the roof assembly shall have quality assurance surveillance in accordance with **F.A.C. Rule 61G20-3**. For components listed herein that are produced by a manufacturer other than the report holder on [Page 1](#) of this NER, refer to the [Florida Product Approval](#) or [NOA](#) of the component manufacturer.

4.2 Jurisdiction Specific:

Non-HVHZ	HVHZ
----------	------

- | | |
|--|--|
| <ul style="list-style-type: none"> 4.2.1 This NER does not include evaluation of fire classification. Refer to FBC 1505, UL TGFU.R9228 and the fire classification certificate for the roof cover manufacturer for requirements and limitations regarding roof assembly fire classification. Refer to FBC 2603 for requirements and limitations concerning the use of foam plastic insulation. 4.2.2 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. 4.2.3 Refer to FBC 1511 for requirements and limitations regarding recover installations. | <ul style="list-style-type: none"> This NER does not include evaluation of fire classification. Refer to 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. Refer to FBC 2603 for requirements and limitations concerning the use of foam plastic insulation. 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. Refer to FBC HVHZ 1521 for requirements and limitations regarding recover installations. |
|--|--|



- | | |
|--|--|
| <p>(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.</p> <p>(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.</p> <p>(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.</p> | <p>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.</p> <p>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.</p> <p>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.</p> |
|--|--|

4.2.4 Wind Load Resistance:

- | | |
|---|---|
| <p>(a) Refer to Section 4.3 for a tabulated summary of assembly listings and maximum allowable design pressures.</p> <p>(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 (<i>the 2 to 1 margin of safety per FBC 1504.9 has already been applied</i>). Refer to FBC 1609 for determination of design wind loads.</p> <p>(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.</p> <p>(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.</p> | <p>“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 (<i>the 2 to 1 margin of safety per TAS 114 has already been applied</i>). Refer to FBC HVHZ 1620 or RAS 128 for determination of design wind loads.</p> <p>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.</p> <p>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.</p> |
|---|---|



4.3 System Listings and Allowable Design Pressures: See [Section 4.2.4](#)

ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE					
TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
1A	Wood	New, Reroof (Tear-Off), Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	8
1B	Wood	New, Reroof (Tear-Off), Recover	C-2	Induction Welded Roof Cover	9
1C	Wood	New, Reroof (Tear-Off), Recover	D-1	Insulated, Mechanically Attached Roof Cover	9
1D	Wood	New or Reroof (Tear-Off)	G	Optional Insulation, Loose-Laid Roof Cover, Pressure Equalizing Vent	9
2A	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	B-1	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	10
2B	Steel	New, Reroof (Tear-Off)	B-2	Mech. Attached Thermal Barrier, Bonded Temp Roof, Bonded Insulation, Bonded Roof Cover	10
2C	Steel or Structural concrete	New, Reroof (Tear-Off), Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	11
2D	Steel	New, Reroof (Tear-Off) or Recover	C-2	Induction Welded Roof Cover	12
2E	Steel or Structural concrete	New, Reroof (Tear-Off), Recover	D-1	Insulated, Mechanically Attached Roof Cover	13
3A	Structural concrete	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	13
3B	Structural concrete	New, Reroof (Tear-Off)	A-1	Bonded Temp Roof, Bonded Insulation, Bonded Roof Cover	14
3C	Structural concrete	New, Reroof (Tear-Off) or Recover	C-2	Induction Welded Roof Cover	15
3D	Structural concrete	New, Reroof (Tear Off)	F	Non-Insulated, Bonded Roof Cover	16
3E	Structural concrete	New or Reroof (Tear-Off)	G	Optional Insulation, Loose-Laid Roof Cover, Pressure Equalizing Vent	16
4A	Lightweight concrete	New or Reroof (Tear-Off)	A-1	LWC to Deck, Bonded Insulation, Bonded Roof Cover	16
4B	Lightweight concrete	New, Reroof (Tear Off)	F	Non-Insulated, Bonded Roof Cover	17
5A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	19
5B	Steel	Recover	C-2	Induction Welded Roof Cover	21
5C	Various	Recover	F	Non-insulated, Bonded Roof Cover	21



**TABLE 1A: 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, 4.2.3)	ATTACH	TYPE	ATTACH	
BARE BACK ROOF COVERS:								
W-1	Min. 15/32-inch APA rated CDX plywood; 8d ring shank nails, 6" o.c.	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 TACC LA-432M	-45.0
W-2	Min. 15/32-inch APA rated CDX plywood; 8d ring shank nails, 6" o.c.	(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 TACC LA-432M	-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; 8d ring shank nails, 6" o.c.	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 TACC FA-636	-45.0
W-6	Min. 15/32-inch APA rated CDX plywood; 8d ring shank nails, 6" o.c.	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 TACC FA-636	-45.0
W-7	Min. 15/32-inch APA rated CDX plywood; 8d ring shank nails, 6" o.c.	(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 TACC FA-636	-60.0
W-8	Min. 15/32-inch APA rated CDX plywood; 8d ring shank nails, 6" o.c.	(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 TACC FA-636	-60.0



TABLE 1B: 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, 4.2.3)	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 <i>isoweld</i> ® F1-P-6.8-PVC Plate		Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded to PVC RHINOBOND Plate with RHINOBOND tool or to SFS <i>isoweld</i> ® F1-P-6.8-PVC Plate with SFS <i>isoweld</i> ® tool.	-22.5 (NO HVHZ)
W-10	Min. 15/32-inch APA rated CDX plywood, 24-inch span, blocked 48-inch o.c. 8d ring shank nails, 6" 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. 8d ring shank nails, 6" 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. 8d ring shank nails, 6" 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 1c: 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, 4.2.3)	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; 8d ring shank nails, 6" o.c.	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; 8d ring shank nails, 6" o.c.	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 1d: 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 2A: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER

SYSTEM NO.	DECK (4.1.2)	BASE INSULATION LAYER			TOP INSULATION LAYER		ROOF COVER (3.1.4)		MDP (PSF)
		TYPE	FASTENER (3.1.1, 4.2.3)	ATTACH	TYPE	ATTACH (3.1.3)	BASE PLY	CAP PLY	
SC-1	Min. 22 ga., Type B, Grade 33 steel, 6 ft span; #12 HWH Teks 5, 6" o.c.	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 ft ²	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; #12 HWH Teks 5, 6" o.c. or min. 2,500 psi 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 ft ²	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 2B: 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, 4.2.3)	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 ft ²	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 TACC LA-432M	-45.0*
SC-4	Min. 22 ga., Type B, Grade 33 steel, 6 ft span; #12 HWH Teks 5, 6" o.c.	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 ft ²	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 TACC LA-432M	-45.0
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 ft ²	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	TACC FA-636	-45.0*
SC-6	Min. 22 ga., Type B, Grade 33 steel, 6 ft span; #12 HWH Teks 5, 6" o.c.	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 ft ²	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	TACC FA-636	-45.0



TABLE 2B: 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, 4.2.3)	ATTACH		TYPE	ATTACH (3.1.3)	TYPE	ATTACH	
SC-7	Min. 22 ga., Type B, Grade 33 steel, 6 ft span; #12 HWH Tek 5, 6" o.c.	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 ft ²	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; #12 HWH Tek 5, 6" o.c.	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 ft ²	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 2C: 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, 4.2.3)	ATTACH	BASE PLY	CAP PLY			
BARE BACK ROOF COVERS:										
SC-9	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. 0.5-inch DensDeck	Dekfast DF-#12-PH3 or DF-#14-PH3 fasteners and Dekfast PLT-R-3	1 per 2.0 ft ²	None	Flex Tripolymer MF/R Elvaloy KEE in Flex Substrate 2375	-45.0*		
SC-10	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 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 ft ²	None	Flex MF/R PVC in Flex Plus Single Ply Adhesive, Flex Plus Bonding Adhesive or Flex Plus WB Substrate Adhesive	-45.0*		
FLEECE BACK ROOF COVERS:										
SC-11	Min. 22 ga., type B, Grade 33 steel, 6 ft span; #12 HWH Tek 5, 6" o.c. or min. 2,500 psi 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 ft ²	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; #12 HWH Tek 5, 6" o.c.	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 ft ²	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; #12 HWH Tek 5, 6" o.c.	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 ft ²	Flex SBS 80s/s Base in hot asphalt	Flex Tripolymer FB Elvaloy KEE in hot asphalt	-90.0		



**TABLE 2d: 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, 4.2.3)	DENSITY		
OMG RHINOBOND:						
SC-14	Min. 22 ga., type B, Grade 33 steel, 6 ft span; #12 HWH TekS 5, 6" o.c.	One or more layers, any combination	OMG Super XHD with RHINOBOND Insulation Plate (PVC)	1 per 6.0 ft ² 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; #12 HWH TekS 5, 6" o.c.	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; #12 HWH TekS 5, 6" o.c.	One or more layers, any combination	OMG Super XHD with RHINOBOND Insulation Plate (PVC)	1 per 4.0 ft ² 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 40 steel, 6 ft span; 5/8" puddle welds or #12 HWH TekS 5, 6" o.c.	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#15-PH3 with SFS <i>isoweld</i> ® 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 <i>isoweld</i> tool	-45.0
SC-18	Min. 22 ga., type B, Grade 80 steel, 6 ft span; 5/8" puddle welds or #12 HWH TekS 5, 6" o.c.	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#12-PH3 or DF-#15-PH3 with SFS <i>isoweld</i> ® 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 <i>isoweld</i> tool	-45.0
SC-19	Min. 22 ga., type B, Grade 40 steel, 6 ft span; 5/8" puddle welds or #12 HWH TekS 5, 6" o.c.	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#15-PH3 with SFS <i>isoweld</i> ® 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 <i>isoweld</i> tool	-52.5
SC-20	Min. 22 ga., type B, Grade 80 steel, 6 ft span; 5/8" puddle welds or #12 HWH TekS 5, 6" o.c.	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#12-PH3 or DF-#15-PH3 with SFS <i>isoweld</i> ® 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 <i>isoweld</i> tool	-52.5
SC-21	Min. 22 ga., type B, Grade 40 steel, 6 ft span; 5/8" puddle welds or #12 HWH TekS 5, 6" o.c.	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#15-PH3 with SFS <i>isoweld</i> ® F1-P-6.8-PVC Plate	1 per 3.0 ft ² 1.5 x 2-ft grid, staggered	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> tool	-82.5
SC-22	Min. 22 ga., type B, Grade 80 steel, 6 ft span; 5/8" puddle welds or #12 HWH TekS 5, 6" o.c.	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#12-PH3 or DF-#15-PH3 with SFS <i>isoweld</i> ® F1-P-6.8-PVC Plate	1 per 3.0 ft ² 1.5 x 2-ft grid, staggered	Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> tool	-82.5
SC-23	Min. 22 ga., type B, Grade 40 steel, 6 ft span; 5/8" puddle welds or #12 HWH TekS 5, 6" o.c.	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#15-PH3 with SFS <i>isoweld</i> ® 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 <i>isoweld</i> tool	-90.0
SC-24	Min. 22 ga., type B, Grade 80 steel, 6 ft span; 5/8" puddle welds or #12 HWH TekS 5, 6" o.c.	One or more layers, any combination, min. 1.5-inch, preliminarily attached	Dekfast DF-#12-PH3 or DF-#15-PH3 with SFS <i>isoweld</i> ® 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 <i>isoweld</i> tool	-90.0



**TABLE 2E: 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, 4.2.3)	FASTENER SPACING	LAP WIDTH	ROW SPACING	SEAM WELD	
SC-25	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-26	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-27	Min. 22 ga., type B, Grade 33 steel, 6 ft span; #12 HWH Tekes 5, 6" o.c. or min. 2,500 psi 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-28	Min. 22 ga., type B, Grade 80 steel, 6 ft span; #12 HWH Tekes 5, 6" o.c.	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-29	Min. 22 ga., type B, Grade 80 steel, 6 ft span; #12 HWH Tekes 5, 6" o.c.	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
SC-30	Min. 22 ga., type B, Grade 80 steel, 6 ft span; #12 HWH Tekes 5, 6" o.c.	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 3A: 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	Min. 2,500 psi 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	Min. 2,500 psi 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



**TABLE 3A: 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	
C-3	Min. 2,500 psi 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	Min. 2,500 psi 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 3B: 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	Min. 2,500 psi 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 TACC LA-432M	-67.5
C-6	Min. 2,500 psi 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 TACC LA-432M	-75.0
C-7	Min. 2,500 psi 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	Min. 2,500 psi 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 TACC FA-636	-45.0
C-9	Min. 2,500 psi 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 TACC FA-636	-67.5



**TABLE 3B: 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-10	Min. 2,500 psi structural concrete	Soprema Elastocol Stick or Elastocol Stick Zero	Soprema Sopravap'r, self-adhering	Min. 1.5-inch Flex ISO II or AC Foam-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 TACC FA-636	-67.5
C-11	Min. 2,500 psi structural concrete	Soprema Elastocol Stick or Elastocol Stick Zero	Soprema Sopravap'r, self-adhering	Min. 1.5-inch Flex ISO II or AC Foam-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 TACC FA-636	-67.5
C-12	Min. 2,500 psi 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 TACC FA-636	-75.0
C-13	Min. 2,500 psi 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 TACC FA-636	-75.0
C-14	Min. 2,500 psi 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 TACC FA-636	-75.0
C-15	Min. 2,500 psi structural concrete	ASTM D41	GAFGLAS Ply 4 in hot asphalt	One or more min. 1.5-inch Flex ISO II or AC Foam-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	Min. 2,500 psi structural concrete	ASTM D41	Flex SBS 80 s/s Base in hot asphalt	One or more min. 1.5-inch Flex ISO II or AC Foam-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 3C: 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, 4.2.3)	DENSITY		
C-17	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#14-PH3 or DF-#15-PH3 with SFS <i>isoweld</i> ® 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 <i>isoweld</i> tool	-45.0
C-18	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#14-PH3 or DF-#15-PH3 with SFS <i>isoweld</i> ® 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 <i>isoweld</i> tool	-52.5
C-19	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#14-PH3 or DF-#15-PH3 with SFS <i>isoweld</i> ® 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 <i>isoweld</i> tool	-82.5



**TABLE 3C: 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, 4.2.3)	DENSITY		
C-20	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#14-PH3 or DF-#15-PH3 with SFS <i>isoweld</i> ® 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 3D: 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	Min. 2,500 psi structural concrete	Flex Asphalt Cutback Primer	Flex Tripolymer FB Elvaloy KEE	hot asphalt	-307.5
C-22	Min. 2,500 psi structural concrete	None	Flex Tripolymer FB Elvaloy KEE	Flex FB Low Rise Adhesive, full coverage	-382.5

**TABLE 3E: 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	Min. 2,500 psi 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	Acrylife V2T installed in accordance with Acrylife instructions, spaced maximum 50 ft o.c.	-97.5 (NO HVHZ)

**TABLE 4A: 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	Min. 2,500 psi structural concrete	Min. 350 psi Celcore Cellular Concrete	Min. 1.5-inch Flex ISO II or AC Foam-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	TACC FA-636	-165.0
LWC-2	Min. 2,500 psi structural concrete	Min. 350 psi Celcore Cellular Concrete	Min. 1.5-inch Flex ISO II or AC Foam-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 AC Foam-HD Coverboard	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	Flex MF/R PVC	TACC FA-636	-210.0
LWC-3	Min. 2,500 psi structural concrete	Min. 350 psi Celcore Cellular Concrete	0.5-inch AC Foam-HD Coverboard	M-OSFA, M-PG1, OB500, Polyset CRA or Polyset Board-Max	None	N/A	Flex MF/R PVC	TACC FA-636	-240.0



**TABLE 4A: 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	
FLEECE BACK ROOF COVERS:									
LWC-4	Min. 2,500 psi 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 TACC FA-636	-165.0
LWC-5	Min. 2,500 psi 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 TACC FA-636	-210.0
LWC-6	Min. 2,500 psi 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 TACC FA-636	-240.0

**TABLE 4B: 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 Tek 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 Tek 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 Tek 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 Tek 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 Tek 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 Tek 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 Tek 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 4B: 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 Tek 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	Min. 2,500 psi 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	Min. 2,500 psi 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	Min. 2,500 psi 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 Tek 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	Min. 2,500 psi structural concrete.	Min. 160 psi, min. 2" thick Elastizell Lightweight Insulating Concrete	None	Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	TACC FA-636	-245.0
LWC-21	Min. 2,500 psi 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	Min. 2,500 psi 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	Min. 2,500 psi structural concrete.	Min. 370 psi, min. 2" thick Elastizell Lightweight Insulating Concrete	None	Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE	TACC FA-636	-582.5



**TABLE 5A: 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 , 4.2.3)	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 TACC LA-432M	-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 TACC LA-432M	-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 TACC LA-432M	-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 TACC LA-432M	-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 TACC FA-636	-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 TACC FA-636	-45.0
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 TACC FA-636	-157.5



TABLE 5A: 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, 4.2.3)	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-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 TACC FA-636	-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 TACC FA-636	-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 TACC FA-636	-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 TACC FA-636	-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 TACC FA-636	-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 TACC FA-636	-237.5
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 TACC FA-636	-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 5b: 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, 4.2.3)	SPACING		
OMG RHINO BOND:						
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 RHINO BOND 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 RHINO BOND 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 <i>isoweld</i> ® 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 <i>isoweld</i> 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 <i>isoweld</i> ® 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 <i>isoweld</i> tool	-90.0

TABLE 5c: 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, 4.2.3)	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