



# NEMO EVALUATIONS REPORT

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Flex Membrane International Corp  
FL1587-R16

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## NEMO EVALUATION REPORT (NER)



### Flex Membrane International Corp

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|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                              |            |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------|
| SUBJECT:                       | Flex MF/R PVC, Flex MF/R PVC FB, Flex Tripolymer MF/R Elvaloy KEE, Flex Tripolymer FB Elvaloy KEE, Flex KEE XT and Flex KEE XT FB Roof Systems                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                              |            |
| SCOPE:                         | This NEMO Evaluation Report (henceforth 'NER') is issued under F.A.C. <a href="#">Rule 61G20-3</a> and the applicable rules and regulations governing Product Approval of construction materials in the State of Florida and ISO/IEC 17065 via <a href="#">NEMO cert</a> . NEMO Evaluations has evaluated the product described herein for compliance with the <a href="#">Code sections noted herein</a> .                                                                                                                                                                    |                                                              |            |
| CODES:                         | 2024 International Building Code<br>2026 Florida Building Code, 9 <sup>th</sup> Edition<br>2023 Florida Building Code, 8 <sup>th</sup> Edition                                                                                                                                                                                                                                                                                                                                                                                                                                 | TDI <a href="#">Third-Party Evaluation Report</a> acceptance |            |
| FBC 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<br>07 54 00 Thermoplastic Membrane Roofing<br>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, Flex Tripolymer FB Elvaloy KEE, Flex KEE XT and Flex KEE XT FB Roof Systems, as produced by Flex Membrane International Corp, have demonstrated compliance with the <a href="#">Code sections noted herein</a> through testing in accordance with the referenced Standards, rational analysis and an ongoing quality assurance program. Compliance is subject to the <a href="#">Installation Requirements</a> and <a href="#">Limitations of Use</a> set forth herein.                                     |                                                              |            |
| QUALITY ASSURANCE:             | Evidence of current quality assurance shall be listing and/or labeling in accordance with the requirements of <a href="#">NEMO cert</a> .                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                              |            |
| 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: | <ul style="list-style-type: none"><li>✓ 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.</li><li>✓ NEMO CERT, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.</li><li>✓ 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.</li></ul> |                                                              |            |





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## 1. CODES, PROPERTIES AND STANDARDS:

| CODE                                                | SECTION            | PROPERTY                   | STANDARD                    |
|-----------------------------------------------------|--------------------|----------------------------|-----------------------------|
| 2024 International Building Code                    | 1504.4.1           | Wind resistance            | FM 4474 or UL1897           |
|                                                     | 1504.7             | Impact resistance          | FM 4470                     |
|                                                     | 1505.1             | Fire classification        | UL 790                      |
|                                                     | 1507.11.2          | Material standard          | ASTM D6163                  |
|                                                     | 1507.12.2          | Material standard          | ASTM D4434                  |
| 2026 Florida Building Code, 9 <sup>th</sup> Edition | 1504.3.1           | Wind resistance            | FM 4474 or UL1897           |
|                                                     | 1504.7             | Impact resistance          | FM 4470                     |
|                                                     | 1505.1, 1516.1     | Fire classification        | UL 790                      |
|                                                     | 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         |
| 2023 Florida Building Code, 8 <sup>th</sup> Edition | TAS 110            | Susceptibility to Leakage  | TAS 114, Appendix G         |
|                                                     | 1504.3.1           | Wind resistance            | FM 4474 or UL1897           |
|                                                     | 1504.6             | Physical properties        | ASTM G154                   |
|                                                     | 1504.7             | Impact resistance          | FM 4470                     |
|                                                     | 1505.1, 1516.1     | Fire classification        | UL 790                      |
|                                                     | 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<br>(NEMO Certified. Consult <a href="#">Directory of Certified Products</a> for production location(s)) |                                  |                |                   |      |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------|-------------------|------|
| TYPE                                                                                                                                 | PRODUCT                          |                | MATERIAL STANDARD |      |
|                                                                                                                                      | NAME                             |                | REFERENCE         | TYPE |
| ROOF COVER OR CAP PLY                                                                                                                | Flex MF/R PVC                    | 50, 60, 80-mil | ASTM D4434        | III  |
|                                                                                                                                      | Flex Tripolymer MF/R Elvaloy KEE | 50, 60, 80-mil | ASTM D4434        | III  |
|                                                                                                                                      | Flex KEE XT                      | 50, 60, 80-mil | ASTM D4434        | III  |
|                                                                                                                                      | Flex MF/R PVC FB                 | 50, 60, 80-mil | ASTM D4434        | III  |
|                                                                                                                                      | Flex Tripolymer FB Elvaloy KEE   | 50, 60, 80-mil | ASTM D4434        | III  |
|                                                                                                                                      | Flex KEE XT FB                   | 50, 60, 80-mil | ASTM D4434        | III  |

| TABLE 2: COMPONENTS BY OTHERS <a href="#">(4.1.5)</a><br>(Refer to <a href="#">NOA</a> if listed version was superseded to ensure use of latest version) |                       |                            |         |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------|---------|------------|
| TYPE                                                                                                                                                     | FLEX MEMBRANE PRODUCT | ACCEPTABLE ALTERNATE       | FBC     | NOA        |
| ROOFING FASTENERS:                                                                                                                                       | N/A                   | Dekfast DF-#12-PH3         | FL20311 | 22-0913.02 |
|                                                                                                                                                          | N/A                   | Dekfast DF-#12-PC-SQ3      | FL20311 | N/A        |
|                                                                                                                                                          | N/A                   | Dekfast DF-#14-PH3         | FL20311 | 22-0913.02 |
|                                                                                                                                                          | N/A                   | Dekfast DF-#15-PH3         | FL20311 | 22-0913.02 |
|                                                                                                                                                          | N/A                   | Dekfast BS-6.1             | FL20311 | N/A        |
|                                                                                                                                                          | N/A                   | Dekfast PLT-R-3            | FL20311 | 22-0913.02 |
|                                                                                                                                                          | N/A                   | Dekfast PLT-R-2-3/8-6B-B   | FL20311 | 22-0913.02 |
|                                                                                                                                                          | N/A                   | Dekfast PLT-O-2-3/4-12B    | FL20311 | 22-0913.02 |
|                                                                                                                                                          | N/A                   | isoweld F1-P-6.8-PVC Plate | FL20311 | 22-0913.02 |
|                                                                                                                                                          | N/A                   | OMG #12 Standard           | FL699   | 24-0627.03 |



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| TABLE 2 (CONTINUED): COMPONENTS BY OTHERS (4.1.5)<br>(Refer to <a href="#">NOA</a> if listed version was superseded to ensure use of latest version) |                                 |                                            |         |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------|---------|------------|
| TYPE                                                                                                                                                 | FLEX MEMBRANE PRODUCT           | ACCEPTABLE ALTERNATE                       | FBC     | NOA        |
| ROOFING FASTENERS:                                                                                                                                   | N/A                             | OMG Heavy Duty                             | FL699   | 24-0627.03 |
|                                                                                                                                                      | N/A                             | OMG XHD                                    | FL699   | 24-0627.03 |
|                                                                                                                                                      | N/A                             | OMG Super XHD                              | FL699   | 24-0627.03 |
|                                                                                                                                                      | N/A                             | OMG RetroDriller                           | FL699   | 24-0627.03 |
|                                                                                                                                                      | N/A                             | OMG 2 in. Barbed Plate                     | FL699   | 24-0627.03 |
|                                                                                                                                                      | N/A                             | OMG 2-3/8 XHD Barbed Stress Plates         | FL699   | 24-0627.03 |
|                                                                                                                                                      | N/A                             | OMG 2 3/4 Super XHD Barbed Stress Plate    | FL699   | 24-0627.03 |
|                                                                                                                                                      | N/A                             | OMG 3 in. Galvalume Steel Plate            | FL699   | 24-0627.03 |
|                                                                                                                                                      | N/A                             | RHINO BOND Insulation Plate (PVC)          | FL699   | 24-0627.03 |
|                                                                                                                                                      | N/A                             | Trufast #14 HD                             | FL4500  | 25-0129.08 |
|                                                                                                                                                      | N/A                             | Trufast 3" Metal Insulation Plate          | FL4500  | 25-0129.08 |
| INSULATIONS:                                                                                                                                         | N/A                             | ACFoam-II                                  | FL17989 | 24-1120.02 |
|                                                                                                                                                      | N/A                             | ACFoam-III                                 | FL17989 | 24-1120.02 |
|                                                                                                                                                      | N/A                             | ACFoam-HD Coverboard                       | FL17989 | 24-1120.02 |
|                                                                                                                                                      | N/A                             | ENRGY 3                                    | FL4205  | 24-0610.04 |
|                                                                                                                                                      | N/A                             | Styrofoam Brand Roofmate                   | FL38732 | 23-1121.01 |
|                                                                                                                                                      | N/A                             | Styrofoam Brand Highload 60                | FL38732 | 23-1121.01 |
|                                                                                                                                                      | N/A                             | DensDeck                                   | FL1250  | 22-1223.04 |
|                                                                                                                                                      | N/A                             | DensDeck Prime                             | FL1250  | 22-1223.04 |
|                                                                                                                                                      | N/A                             | SECUROCK Gypsum-Fiber Roof Board           | FL4264  | 25-1017.02 |
|                                                                                                                                                      | N/A                             | Celcore Cellular Concrete                  | FL2037  | 24-0906.02 |
|                                                                                                                                                      | N/A                             | Elastizell Lightweight Insulating Concrete | FL4994  | 23-0817.05 |
| ADHESIVES:                                                                                                                                           | Flex Plus Bonding Adhesive      | N/A                                        | N/A     | N/A        |
|                                                                                                                                                      | Flex Plus Single Ply Adhesive   | N/A                                        | N/A     | N/A        |
|                                                                                                                                                      | Flex Plus WB Substrate Adhesive | N/A                                        | N/A     | N/A        |
|                                                                                                                                                      | Flex Substrate 2375             | N/A                                        | N/A     | N/A        |
|                                                                                                                                                      | Flex 7008 Laminating Adhesive   | N/A                                        | N/A     | N/A        |
|                                                                                                                                                      | Flex FB Low Rise Adhesive       | N/A                                        | N/A     | N/A        |
|                                                                                                                                                      | Flex Rubber Emulsion Adhesive   | N/A                                        | N/A     | N/A        |
|                                                                                                                                                      | N/A                             | Millennium One Step Foamable Adhesive      | FL1800  | 25-0908.08 |
|                                                                                                                                                      | N/A                             | Millennium PG-1 Pump Grade Adhesive        | FL1800  | 25-0908.08 |
|                                                                                                                                                      | N/A                             | OlyBond 500 Canister                       | FL1608  | 24-0422.18 |
|                                                                                                                                                      | N/A                             | Polyset Board-Max                          | FL22256 | 22-0614.11 |
|                                                                                                                                                      | N/A                             | Polyset Commercial Roof Adhesive           | FL1365  | 25-1219.04 |
|                                                                                                                                                      | N/A                             | FA636 Water Borne Adhesive                 | N/A     | 26-0319.04 |
|                                                                                                                                                      | N/A                             | LA432M Bonding Adhesive                    | N/A     | 26-0319.04 |
|                                                                                                                                                      | Flex MOD-BIT Adhesive           | N/A                                        | N/A     | N/A        |
| PRIMERS:                                                                                                                                             | N/A                             | Elastocol Stick                            | FL9779  | 23-1130.04 |
|                                                                                                                                                      | N/A                             | Elastocol Stick Zero                       | FL9779  | 23-1130.04 |
| ROLL GOODS:                                                                                                                                          | N/A                             | GAFLAS Ply 4                               | FL11946 | 25-0709.01 |
|                                                                                                                                                      | N/A                             | SOPRAVAP'R                                 | None    | 24-0610.08 |
|                                                                                                                                                      | Flex SBS 80s/s Base             | N/A                                        | N/A     | N/A        |



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## 3. INSTALLATION:

3.1 **Flex MF/R PVC, Flex MF/R PVC FB, Flex Tripolymer MF/R Elvaloy KEE, Flex Tripolymer FB Elvaloy KEE, Flex KEE XT and Flex KEE XT FB 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,<br>ENGINEERED<br>SHEATHING<br>OR PLANK | Trufast #14 HD with Trufast 3" Metal Insulation Plate                          | Min. 0.75-inch penetration<br>(engineered sheathing) or<br>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<br>CONCRETE                       | Trufast #14 HD with Trufast 3" Metal Insulation Plate                          | Non-HVHZ:                                                                                |
|                                              | OMG Heavy Duty with OMG 3 in. Galvalume Steel Plate                            | Min. 1-inch embedment                                                                    |
|                                              | Dekfast DF-#14-PH3 with PLT-R-3                                                | HVHZ:<br>Min. 1.25-inch embedment                                                        |

3.1.2 **Insulation:**

- 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.
- 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, see Section [3.1.2\(f\)](#). 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.
- 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.
- 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.
- Unless otherwise noted, rigid board insulation or coverboard attachment patterns for Type B-1, B-2 and C-1 systems are as outlined below.



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**TABLE 4A: INSULATION ATTACHMENT PATTERNS – 4x4 FT BOARDS**

| 1 per 4.0 ft <sup>2</sup> (4 per board)  | 1 per 3.2 ft <sup>2</sup> (5 per board)  | 1 per 2.7 ft <sup>2</sup> (6 per board)  |
|------------------------------------------|------------------------------------------|------------------------------------------|
|                                          |                                          |                                          |
| 1 per 2.0 ft <sup>2</sup> (8 per board)  | 1 per 1.8 ft <sup>2</sup> (9 per board)  | 1 per 1.6 ft <sup>2</sup> (10 per board) |
|                                          |                                          |                                          |
| 1 per 1.3 ft <sup>2</sup> (12 per board) | 1 per 1.0 ft <sup>2</sup> (16 per board) |                                          |
|                                          |                                          |                                          |



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

| 1 per 5.30 ft <sup>2</sup> (6 per board) | 1 per 4.0 ft <sup>2</sup> (8 per board)   | 1 per 3.2 ft <sup>2</sup> (10 per board) | 1 per 2.7 ft <sup>2</sup> (12 per board) |
|------------------------------------------|-------------------------------------------|------------------------------------------|------------------------------------------|
|                                          |                                           |                                          |                                          |
| 1 per 2.3 ft <sup>2</sup> (14 per board) | 1 per 2.1 ft <sup>2</sup> (15 per board)  | 1 per 2.0 ft <sup>2</sup> (16 per board) | 1 per 1.8 ft <sup>2</sup> (18 per board) |
|                                          |                                           |                                          |                                          |
| 1 per 1.6 ft <sup>2</sup> (20 per board) | 1 per 1.45 ft <sup>2</sup> (22 per board) | 1 per 1.3 ft <sup>2</sup> (24 per board) | 1 per 1.0 ft <sup>2</sup> (32 per board) |
|                                          |                                           |                                          |                                          |



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## (f) Preliminary insulation attachment:

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

## 3.1.3 Insulation Adhesives:

- (a) Unless otherwise noted, insulation adhesive application rate is continuous ribbons, maximum 12-inch o.c. 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 insulations are flat-stock or taper board of the minimum thickness noted. Tapered polyisocyanurate at the following thickness limitations may be substituted with the following Maximum Design Pressure (MDP) limitations. In no case shall these values be used to 'increase' the MDP listings in the tables; rather if MDP listing below meets or exceeds that listed for a particular system in the tables, then the thinner board listed below may be used as a drop-in for the equivalent thicker material listed in the table.

| TABLE 6: MDP LIMITATIONS FOR TAPERED POLYISOCYANURATE INSULATIONS |                                    |                             |           |
|-------------------------------------------------------------------|------------------------------------|-----------------------------|-----------|
| ADHESIVE                                                          | INSULATION                         | MIN. TAPERED THICKNESS (IN) | MDP (PSF) |
| M-OSFA 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 |                                                   |                                 |             |                                             |
|-------------------------------------------|---------------------------------------------------|---------------------------------|-------------|---------------------------------------------|
| REFERENCE                                 | MEMBRANE                                          | ADHESIVE                        | APPLICATION | RATE                                        |
| SB-BA                                     | Flex MF/R PVC                                     | Flex Plus Bonding Adhesive      | Contact     | combined rate of 60 ft <sup>2</sup> /gal    |
| SB-SPA                                    | Flex MF/R PVC                                     | Flex Plus Single Ply Adhesive   | Contact     | combined rate of 50 ft <sup>2</sup> /gal    |
| SB-WBSA                                   | Flex MF/R PVC                                     | Flex Plus WB Substrate Adhesive | Wet lay     | 130 ft <sup>2</sup> /gal                    |
| SB-FA636                                  | Flex MF/R PVC                                     | FA636 Water Borne Adhesive      | Wet lay     | 100 ft <sup>2</sup> /gal                    |
| SB1-S2375                                 | Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE | Flex Substrate 2375             | Contact     | combined rate of 55-70 ft <sup>2</sup> /gal |
| SB2-S2375                                 | Flex Tripolymer MF/R Elvaloy KEE                  | Flex Substrate 2375             | Contact     | combined rate of 55-70 ft <sup>2</sup> /gal |
| SB-LA432                                  | Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE | LA432M Bonding Adhesive         | Contact     | combined rate of 120 ft <sup>2</sup> /gal   |





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**TABLE 7: MEMBRANE / ADHESIVE COMBINATIONS**

| REFERENCE   | MEMBRANE                                           | ADHESIVE                              | APPLICATION | RATE                                                                   |
|-------------|----------------------------------------------------|---------------------------------------|-------------|------------------------------------------------------------------------|
| SB-F7008    | Flex Tripolymer MF/R Elvaloy KEE                   | Flex 7008 Laminating Adhesive         | Wet lay     | 100 ft <sup>2</sup> /gal                                               |
| FB-F7008    | Flex MF/R PVC FB                                   | Flex 7008 Laminating Adhesive         | Wet lay     | 100 ft <sup>2</sup> /gal                                               |
| FB-FBLRA    | Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE | Flex FB Low Rise Adhesive             | Wet lay     | FULL: 60 to 83 ft <sup>2</sup> /gal<br>RIBBONS: Spaced as noted herein |
| FB1-FBLRA   | Flex Tripolymer FB Elvaloy KEE                     | Flex FB Low Rise Adhesive             | Wet lay     | FULL: 60 to 83 ft <sup>2</sup> /gal<br>RIBBONS: Spaced as noted herein |
| FB2-FBLRA   | Flex MF/R PVC FB                                   | Flex FB Low Rise Adhesive             | Wet lay     | FULL: 60 to 83 ft <sup>2</sup> /gal<br>RIBBONS: Spaced as noted herein |
| FB-REA      | Flex Tripolymer FB Elvaloy KEE                     | Flex Rubber Emulsion Adhesive         | Wet lay     | 60 ft <sup>2</sup> /gal                                                |
| FB-M-OSFA   | 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.                                   |
| FB-M-PG1    | 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.                                 |
| FB1-M-PG1   | Flex KEE XT FB                                     | Millennium PG-1 Pump Grade Adhesive   | Wet lay     | Continuous ribbons, max. 4-inch o.c.                                   |
| FB-OB500    | Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE | OlyBond 500 Canister                  | Wet lay     | "Spatter pattern" at 0.32 gal/square.                                  |
| FB1-CRA     | Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE | Polyset Commercial Roof Adhesive      | Wet lay     | "Spatter pattern" at 3.75 lbs/sq.                                      |
| FB2-CRA     | Flex MF/R PVC FB                                   | Polyset Commercial Roof Adhesive      | Wet lay     | "Spatter pattern" at 3.75 lbs/sq.                                      |
| FB3-CRA     | Flex Tripolymer FB Elvaloy KEE                     | Polyset Commercial Roof Adhesive      | Wet lay     | "Spatter pattern" at 3.75 lbs/sq.                                      |
| FB4-CRA     | Flex KEE XT FB                                     | Polyset Commercial Roof Adhesive      | Wet lay     | "Spatter pattern" at 3.75 lbs/sq.                                      |
| FB1-FA636   | Flex MF/R PVC FB or Flex Tripolymer FB Elvaloy KEE | FA636 Water Borne Adhesive            | Wet lay     | 100 ft <sup>2</sup> /gal                                               |
| FB2-FA636   | Flex MF/R PVC FB                                   | FA636 Water Borne Adhesive            | Wet lay     | 100 ft <sup>2</sup> /gal                                               |
| FB3-FA636   | Flex Tripolymer FB Elvaloy KEE                     | FA636 Water Borne Adhesive            | Wet lay     | 100 ft <sup>2</sup> /gal                                               |
| FB-HA       | Flex Tripolymer FB Elvaloy KEE                     | hot asphalt                           | Wet lay     | 25 lbs/sq                                                              |
| SBS-HA      | Flex SBS 80s/s Base                                | hot asphalt                           | Wet lay     | 25 lbs/sq                                                              |
| SBS-MOD-BIT | 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. For membrane attachment using batten-strips, batten-strip end laps shall be spliced with sufficient dimension to allow for minimum 2-fasteners at each batten-strip lap.
- (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.





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## 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<br>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 Tek 5                                  | 6                   | -97.5     |
|                                                                                                                           | 72                       | SFS SD5-#12-HW5/16 with 3/4-inch steel washers | 6                   | -82.5     |
| 22 ga., Type B, Grade 40 steel                                                                                            | 72                       | #12 HWH Tek 5                                  | 6                   | -90.0     |
|                                                                                                                           | 72                       | 5/8" puddle welds                              | 6                   | -90.0     |
| 22 ga., Type B, Grade 80 steel                                                                                            | 72                       | #12 HWH Tek 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 Corrosion Resistance – Saltwater Environments:

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

### 4.1.5 Quality Assurance:

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



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## 4.2 Jurisdiction Specific:

|       | IBC, FBC Non-HVHZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FBC HVHZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4.2.1 | This NER does not include evaluation of roof edge termination. Refer to <b>IBC 1504.6</b> or <b>FBC 1504.5</b> for requirements and limitations regarding edge securement for low-slope roofs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | This NER does not include evaluation of roof edge termination. Refer to <b>RAS 111</b> for requirements and limitations regarding edge securement for low-slope roofs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4.2.2 | Refer to <b>IBC 1512</b> or <b>FBC 1511</b> for requirements and limitations regarding recover installations. <ul style="list-style-type: none"> <li>(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 <a href="#">ANSI/SPRI FX-1</a> or <b>TAS 105</b>.</li> <li>(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 <a href="#">ANSI/SPRI IA-1</a>, <a href="#">FM Loss Prevention Data Sheet 1-52</a> or <b>TAS 124</b> shall be conducted on mock-ups of the proposed interface.</li> <li>(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 <a href="#">FM Loss Prevention Data Sheet 1-52</a> or <b>TAS 124</b>.</li> </ul>                                                                                                                                                    | Refer to <b>FBC HVHZ 1521</b> for requirements and limitations regarding recover installations. <ul style="list-style-type: none"> <li>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 <b>TAS 105</b>.</li> <li>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 <b>TAS 124</b> shall be conducted on mock-ups of the proposed interface.</li> <li>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 <b>TAS 124</b>.</li> </ul> |
| 4.2.3 | <b>Wind Load Resistance:</b> <ul style="list-style-type: none"> <li>(a) Refer to <a href="#">Section 4.3</a> for a tabulated summary of assembly listings and maximum allowable design pressures.</li> <li>(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 <b>FBC 1504.9</b> has already been applied</i>). Refer to <b>FBC 1609</b> for determination of design wind loads.</li> <li>(c) The MDP for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with <b>FBC Chapter 16</b>. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are <a href="#">ANSI/SPRI WD1</a>, <a href="#">FM Loss Prevention Data Sheet 1-29</a>, <b>RAS 117</b> and <b>RAS 137</b>. Assemblies marked with an asterisk* carry the limitations set forth in <b>Section 2.2.10.1 of <a href="#">FM Loss Prevention Data Sheet 1-29</a></b> for Zone 2/3 enhancements.</li> <li>(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.</li> </ul> | <ul style="list-style-type: none"> <li>“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 <b>TAS 114</b> has already been applied</i>). Refer to <b>FBC HVHZ 1620</b> or <b>RAS 128</b> for determination of design wind loads.</li> <li>The MDP for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with <b>FBC HVHZ 1620</b> or <b>RAS 128</b>. 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 <b>RAS 117</b> or <b>RAS 137</b>.</li> <li>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.</li> </ul>                                                              |

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**4.3 System Listings and Allowable Design Pressures:** See [Section 4.2.3](#)**4.3.1 Roof Assemblies:**

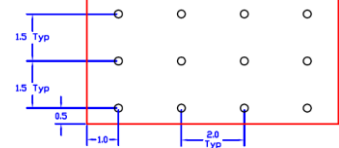
| APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE |                                |                                   |      |                                                                                           |      |
|----------------------------------------------------------------|--------------------------------|-----------------------------------|------|-------------------------------------------------------------------------------------------|------|
| TABLE                                                          | DECK                           | APPLICATION                       | TYPE | DESCRIPTION                                                                               | PAGE |
| <a href="#">9A</a>                                             | Wood                           | New, Reroof (Tear-Off), Recover   | C-1  | Mechanically Attached Insulation, Bonded Roof Cover                                       | 12   |
| <a href="#">9B</a>                                             | Wood                           | New, Reroof (Tear-Off), Recover   | C-2  | Mechanically Attached Insulation, Induction-Welded Roof Cover                             | 12   |
| <a href="#">9C</a>                                             | Wood                           | New, Reroof (Tear-Off), Recover   | D-1  | Insulated, Mechanically Attached Roof Cover                                               | 13   |
| <a href="#">9D</a>                                             | Wood                           | New or Reroof (Tear-Off)          | G    | Optional Insulation, Loose-Laid, Perimeter Attached Roof Cover, Pressure Equalizing Vent  | 13   |
| <a href="#">10A</a>                                            | Steel or Structural concrete   | New, Reroof (Tear-Off) or Recover | B-1  | Mech. Attached Base Insulation, Bonded Top Insulation(s), Bonded Roof Cover               | 13   |
| <a href="#">10B</a>                                            | Steel                          | New, Reroof (Tear-Off)            | B-2  | Mech. Attached Thermal Barrier, Bonded Temp Roof, Bonded Insulation(s), Bonded Roof Cover | 14   |
| <a href="#">10C</a>                                            | Steel or Structural concrete   | New, Reroof (Tear-Off), Recover   | C-1  | Mechanically Attached Insulation, Bonded Roof Cover                                       | 15   |
| <a href="#">10D</a>                                            | Steel                          | New, Reroof (Tear-Off) or Recover | C-2  | Mechanically Attached Insulation, Induction-Welded Roof Cover                             | 16   |
| <a href="#">10E</a>                                            | Steel or Structural concrete   | New, Reroof (Tear-Off), Recover   | D-1  | Insulated, Mechanically Attached Roof Cover                                               | 18   |
| <a href="#">11A</a>                                            | Structural concrete            | New, Reroof (Tear-Off)            | A-1  | Bonded Insulation(s), Bonded Roof Cover                                                   | 19   |
| <a href="#">11B</a>                                            | Structural concrete            | New, Reroof (Tear-Off)            | A-1  | Bonded Temp Roof, Bonded Insulation(s), Bonded Roof Cover                                 | 20   |
| <a href="#">11C</a>                                            | Structural concrete            | New, Reroof (Tear-Off) or Recover | C-2  | Mechanically Attached Insulation, Induction-Welded Roof Cover                             | 21   |
| <a href="#">11D</a>                                            | Structural concrete            | New, Reroof (Tear Off)            | F    | Non-Insulated, Bonded Roof Cover                                                          | 21   |
| <a href="#">11E</a>                                            | Structural concrete            | New or Reroof (Tear-Off)          | G    | Optional Insulation, Loose-Laid, Perimeter Attached Roof Cover, Pressure Equalizing Vent  | 22   |
| <a href="#">12A</a>                                            | Deck with Lightweight concrete | New or Reroof (Tear-Off)          | A-1  | Bonded Insulation(s), Bonded Roof Cover                                                   | 22   |
| <a href="#">12B</a>                                            | Deck with Lightweight concrete | New, Reroof (Tear Off)            | F    | LWC-To-Deck, Bonded Roof Cover                                                            | 23   |
| <a href="#">13A</a>                                            | Various                        | Recover                           | A-1  | Bonded Insulation(s), Bonded Roof Cover                                                   | 24   |
| <a href="#">13B</a>                                            | Steel                          | Recover                           | C-2  | Mechanically Attached Insulation, Induction-Welded Roof Cover                             | 27   |
| <a href="#">13C</a>                                            | Various                        | Recover                           | F    | Non-Insulated, Bonded Roof Cover                                                          | 27   |



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

| SYSTEM NO.               | DECK<br>(4.1.2)                                     | BASE INSULATION LAYER<br>(3.1.2)                               | TOP INSULATION LAYER                                              |                                                     |                           | ROOF COVER (3.1.4)            | MDP<br>(PSF)       |
|--------------------------|-----------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------|---------------------------|-------------------------------|--------------------|
|                          |                                                     |                                                                | TYPE                                                              | FASTENER (3.1.1, 4.2.2)                             | 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 <sup>2</sup> | SB1-S2375 or SB-LA432         | -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 <sup>2</sup> | SB1-S2375 or SB-LA432         | -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 <sup>2</sup> | FB-FBLRA (RIBBON, 12)         | -37.5<br>(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 <sup>2</sup> | FB-FBLRA (RIBBON, 12)         | -37.5<br>(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 <sup>2</sup> | FB2-CRA, FB4-CRA or FB2-FA636 | -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 <sup>2</sup> | FB-REA, FB3-CRA or FB3-FA636  | -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 <sup>2</sup> | FB2-CRA or FB2-FA636          | -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 <sup>2</sup> | FB-REA, FB3-CRA or FB3-FA636  | -60.0              |

**TABLE 9B: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
 SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, INDUCTION-WELDED ROOF COVER**

| SYSTEM No. | DECK<br>(4.1.2)                       | INSULATION LAYER (3.1.2)            | ATTACHMENT                                                                                                              |                                                                                                                    | ROOF COVER (3.1.4)                                                                                                                                                                           | MDP<br>(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 <i>isoweld</i> ® F1-P-6.8-PVC Plate | 1 per 2.7 ft <sup>2</sup><br> | Flex MF/R PVC or Flex Triopolymer 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<br>(NO HVHZ) |



**TABLE 9B: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, INDUCTION-WELDED ROOF COVER**

| SYSTEM No. | DECK<br>(4.1.2)                                                           | INSULATION LAYER (3.1.2)            | ATTACHMENT                                            |                                                    | ROOF COVER (3.1.4)                                              | MDP<br>(PSF) |
|------------|---------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------|--------------|
|            |                                                                           |                                     | FASTENER (3.1.1, 4.2.2)                               | DENSITY / PATTERN                                  |                                                                 |              |
| 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 RHINO BOND 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 RHINO BOND 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 RHINO BOND 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 RHINO BOND 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 RHINO BOND 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 RHINO BOND 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<br>(4.1.2)                                     | INSULATION LAYER (3.1.2)            |                        | ROOF COVER (3.1.4)                                |                                                  |                  |           |              |           | MDP<br>(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<br>(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, PERIMETER ATTACHED ROOF COVER, PRESSURE EQUALIZING VENT**  
**NOT FOR USE IN FBC HVHZ JURISDICTIONS**

| SYSTEM No. | DECK<br>(4.1.2)                   | AIR BARRIER                                                                                                                                      | INSULATION                                                                                                                    | UNDERLAYMENT                                                                                                                  | ROOF COVER                                        |                                                                                            | MDP<br>(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<br>(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(S), BONDED ROOF COVER**

| SYSTEM No. | DECK<br>(4.1.2)                                                       | BASE INSULATION LAYER                                                     |                                                                                                  |                           | TOP INSULATION LAYER                           |                                                        | ROOF COVER (3.1.4) |                               | MDP<br>(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 ft <sup>2</sup> | Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board | M-OSFA, M-PG1, OB500, Polyset Board-Max or Polyset CRA | SBS-MOD-BIT        | FB-M-PG1, FB-OB500 or FB1-CRA | -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 ft <sup>2</sup> | Min. 0.5-inch ACFoam-HD Coverboard             | OB500                                                  | None               | FB1-FBLRA (FULL)              | -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(S), BONDED ROOF COVER**

| Sys No.                  | DECK<br><a href="#">(4.1.2)</a>                | THERMAL BARRIER                                                  |                                                                                                                                                           |               | TEMP ROOF                                                                                                    | INSULATION LAYER(S)                                                                                                               |                                | ROOF COVER <a href="#">(3.1.4)</a> | <a href="#">MDP</a><br><a href="#">(PSF)</a> |
|--------------------------|------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------|----------------------------------------------|
|                          |                                                | TYPE                                                             | FASTEN <a href="#">(3.1.1, 4.2.2)</a>                                                                                                                     | ATTACH        |                                                                                                              | TYPE                                                                                                                              | ATTACH <a href="#">(3.1.3)</a> |                                    |                                              |
| 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         | SB1-S2375 or SB-LA432              | -45.0*                                       |
| SC-4                     | Min. 22 ga., Type B, Grade 33 steel            | Min. 0.2-inch DensDeck Prime                                     | Dekfast DF-#12-PH3-P3 with Dekfast PLT-R-3                                                                                                                | 1 per 2.0 ft² | Soprema Elastocol Stick at 0.25 gal/sq. followed by Soprema Sopravap’r, self-adhering                        | Min. 1.5-inch Flex ISO II or AC Foam-II followed by Min. 0.25-inch DensDeck Prime                                                 | CRA                            | FB2-CRA or FB4-CRA                 | -45.0*                                       |
| SC-5                     | 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 AC Foam-II followed by Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board             | M-OSFA, M-PG1 or OB500         | SB1-S2375 or SB-LA432              | -45.0                                        |
| FLEECE BACK ROOF COVERS: |                                                |                                                                  |                                                                                                                                                           |               |                                                                                                              |                                                                                                                                   |                                |                                    |                                              |



**TABLE 10b: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF)**  
**SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED TEMP ROOF, BONDED TOP INSULATION(S), BONDED ROOF COVER**

| Sys No. | DECK<br>(4.1.2)                                | THERMAL BARRIER                                                  |                                                                                                                                                           |                           | TEMP ROOF                                                                                                    | INSULATION LAYER(S)                                                                                                               |                        | ROOF COVER (3.1.4) | MDP<br>(PSF) |
|---------|------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|--------------|
|         |                                                | TYPE                                                             | FASTEN (3.1.1, 4.2.2)                                                                                                                                     | ATTACH                    |                                                                                                              | TYPE                                                                                                                              | ATTACH (3.1.3)         |                    |              |
| SC-6    | 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 <sup>2</sup> | 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 | FB1-FA636          | -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 2.0 ft <sup>2</sup> | 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 | FB1-FA636          | -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 4.0 ft <sup>2</sup> | 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 | FB-REA or FB3-CRA  | -45.0*       |
| SC-9    | 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 ft <sup>2</sup> | 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 | FB-REA or FB3-CRA  | -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<br>(4.1.2)                                            | BASE INSULATION LAYER<br>(3.1.2)                           | TOP INSULATION LAYER                                             |                                                                                      |               | ROOF COVER (3.1.4) |                          | MDP<br>(PSF) |
|--------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------|--------------------|--------------------------|--------------|
|                          |                                                            |                                                            | TYPE                                                             | FASTENER (3.1.1, 4.2.2)                                                              | ATTACH        | BASE PLY           | CAP PLY                  |              |
| BARE BACK ROOF COVERS:   |                                                            |                                                            |                                                                  |                                                                                      |               |                    |                          |              |
| SC-10                    | 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               | SB2-S2375                | -45.0*       |
| SC-11                    | 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               | SB-SPA, SB-BA or SB-WBSA | -45.0*       |
| FLEECE BACK ROOF COVERS: |                                                            |                                                            |                                                                  |                                                                                      |               |                    |                          |              |



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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<br>(4.1.2)                                                       | BASE INSULATION LAYER<br>(3.1.2)                                    | TOP INSULATION LAYER                                                      |                                                                                      |                           | ROOF COVER (3.1.4) |          | MDP<br>(PSF) |
|------------|-----------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------|--------------------|----------|--------------|
|            |                                                                       |                                                                     | TYPE                                                                      | FASTENER (3.1.1, 4.2.2)                                                              | ATTACH                    | BASE PLY           | CAP PLY  |              |
| SC-12      | 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 ft <sup>2</sup> | None               | FB-F7008 | -82.5        |
| 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. 0.5-inch SECUROCK Gypsum-Fiber Roof Board                            | OMG XHD with OMG 3 in. Galvalume Steel Plate                                         | 1 per 1.6 ft <sup>2</sup> | None               | FB-REA   | -90.0        |
| SC-14      | 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 ft <sup>2</sup> | SBS-HA             | FB-HA    | -90.0        |

**TABLE 10d: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, INDUCTION-WELDED ROOF COVER**

| SYSTEM NO.     | DECK<br>(4.1.2)                                | INSULATION LAYER (3.1.2)                                                   | ATTACHMENT                                              |                                             | ROOF COVER (3.1.4)                                                                                              | MDP<br>(psf)        |
|----------------|------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------|
|                |                                                |                                                                            | FASTENER (3.1.1, 4.2.2)                                 | DENSITY                                     |                                                                                                                 |                     |
| OMG RHINOBOND: |                                                |                                                                            |                                                         |                                             |                                                                                                                 |                     |
| SC-15          | 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<br>2 x 3-ft grid              | Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with RHINOBOND tool                          | -45.0*              |
| SC-16          | 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-17          | Min. 22 ga., type B, Grade 33 steel, 6 ft span | One or more layers, any combination, min. 1.5-inch, preliminarily attached | OMG XHD with RHINOBOND Insulation Plate (PVC)           | 1 per 4.0 ft²<br>2 x 2-ft grid              | Min. 50-mil Flex KEE XT, Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with RHINOBOND tool | -60.0               |
| SC-18          | 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<br>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-19          | 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<br>2 x 4-ft grid                | Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool                        | -30.0*<br>(NO HVHZ) |
| SC-20          | 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<br>2 x 4-ft grid                | Flex MF/R PVC or Flex Tripolymer MF/R Elvaloy KEE induction welded with SFS isoweld tool                        | -37.5*<br>(NO HVHZ) |

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**TABLE 10D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, INDUCTION-WELDED ROOF COVER**

| SYSTEM No. | DECK<br>(4.1.2)                                | INSULATION LAYER (3.1.2)                                                   | ATTACHMENT                                                                                     |                                                                                 | ROOF COVER (3.1.4)                                                                               | MDP<br>(PSF)        |
|------------|------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------|
|            |                                                |                                                                            | FASTENER (3.1.1, 4.2.2)                                                                        | DENSITY                                                                         |                                                                                                  |                     |
| SC-21      | 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 <i>isoweld</i> ® F1-P-6.8-PVC Plate                  | 1 per 5.3 ft <sup>2</sup>                                                       | Flex MF/R PVC or Flex Triopolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> tool | -37.5*<br>(NO HVHZ) |
| SC-22      | 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 <i>isoweld</i> ® F1-P-6.8-PVC Plate                                | 12-inch o.c. in rows 60-inch o.c.                                               | Flex MF/R PVC or Flex Triopolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> tool | -37.5<br>(NO HVHZ)  |
| SC-23      | Min. 22 ga., type B, Grade 40 steel            | 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 ft <sup>2</sup><br>2x3-ft grid, staggered                               | Flex MF/R PVC or Flex Triopolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> tool | -37.5<br>(NO HVHZ)  |
| SC-24      | 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 <i>isoweld</i> ® F1-P-6.8-PVC Plate | 1 per 6 ft <sup>2</sup><br>2x3-ft grid, staggered                               | Flex MF/R PVC or Flex Triopolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> tool | -37.5<br>(NO HVHZ)  |
| SC-25      | 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 <i>isoweld</i> ® F1-P-6.8-PVC Plate                                | 1 per 5.3 ft <sup>2</sup>                                                       | Flex MF/R PVC or Flex Triopolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> tool | -45.0*              |
| SC-26      | 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 <i>isoweld</i> ® 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 Triopolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> 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, 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 Triopolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> tool | -45.0               |
| SC-28      | 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 <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 Triopolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> tool | -45.0               |
| 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 <i>isoweld</i> ® F1-P-6.8-PVC Plate                                | 1 per 4.0 ft <sup>2</sup><br>2x2-ft grid, staggered                             | Flex MF/R PVC or Flex Triopolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> 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, DF-#15-PH3 or BS 6.1 Fastener with SFS <i>isoweld</i> ® F1-P-6.8-PVC Plate | 1 per 4.0 ft <sup>2</sup><br>2x2-ft grid, staggered                             | Flex MF/R PVC or Flex Triopolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> tool | -52.5               |
| SC-31      | 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 <i>isoweld</i> ® F1-P-6.8-PVC Plate                                | 1 per 6.0 ft <sup>2</sup><br>2 x 3-ft grid, staggered                           | Flex MF/R PVC or Flex Triopolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> tool | -52.5               |
| SC-32      | 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 <i>isoweld</i> ® F1-P-6.8-PVC Plate                  | 1 per 6.0 ft <sup>2</sup><br>2 x 3-ft grid, staggered                           | Flex MF/R PVC or Flex Triopolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> tool | -52.5               |
| 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 <i>isoweld</i> ® F1-P-6.8-PVC Plate                                | 6-inch o.c. in rows 60-inch o.c.                                                | Flex MF/R PVC or Flex Triopolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> tool | -60.0               |

**TABLE 10D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, INDUCTION-WELDED ROOF COVER**

| SYSTEM No. | DECK<br>(4.1.2)                                | INSULATION LAYER (3.1.2)                                                   | ATTACHMENT                                                                                     |                                                                                                                     | ROOF COVER (3.1.4)                                                                               | MDP<br>(PSF) |
|------------|------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------|
|            |                                                |                                                                            | FASTENER (3.1.1, 4.2.2)                                                                        | DENSITY                                                                                                             |                                                                                                  |              |
| SC-34      | 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 <i>isoweld</i> ® 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 Triopolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> tool | -67.5        |
| SC-35      | 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 <i>isoweld</i> ® 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 Triopolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> 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                         | Dekfast DF-#15-PH3 with SFS <i>isoweld</i> ® F1-P-6.8-PVC Plate                                | 1 per 3.0 ft²<br>1.5 x 2-ft grid, staggered                                                                         | Flex MF/R PVC or Flex Triopolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> tool | -82.5        |
| SC-37      | 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 <i>isoweld</i> ® F1-P-6.8-PVC Plate                  | 1 per 3.0 ft²<br>1.5 x 2-ft grid, staggered                                                                         | Flex MF/R PVC or Flex Triopolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> tool | -82.5        |
| SC-38      | 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 <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 Triopolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> tool | -90.0        |
| SC-39      | 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 <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 Triopolymer MF/R Elvaloy KEE induction welded with SFS <i>isoweld</i> 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<br>(4.1.2)                                                       | INSULATION LAYER (3.1.2)            |                        | ROOF COVER (3.1.4)                                              |                                                             |                  |           |                 |           | MDP<br>(PSF)       |
|------------|-----------------------------------------------------------------------|-------------------------------------|------------------------|-----------------------------------------------------------------|-------------------------------------------------------------|------------------|-----------|-----------------|-----------|--------------------|
|            |                                                                       | TYPE                                | ATTACH                 | MEMBRANE                                                        | FASTENER (3.1.1, 4.2.2)                                     | FASTENER SPACING | LAP WIDTH | ROW SPACING     | SEAM WELD |                    |
| SC-40      | Min. 22 ga., type B, Grade 80 steel                                   | One or more layers, any combination | Preliminarily attached | Flex MF/R PVC, Flex Triopolymer MF/R Elvaloy KEE or Flex KEE XT | 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<br>(NO HVHZ) |
| SC-41      | Min. 22 ga., type B, Grade 80 steel                                   | One or more layers, any combination | Preliminarily attached | Flex MF/R PVC or Flex Triopolymer 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<br>(NO HVHZ) |
| SC-42      | 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 Triopolymer 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-43      | Min. 22 ga., type B, Grade 80 steel, 6 ft span                        | One or more layers, any combination | Preliminarily attached | Flex MF/R PVC, Flex Triopolymer MF/R Elvaloy KEE, Flex KEE XT   | 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              |



**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<br>(4.1.2)                                | INSULATION LAYER (3.1.2)            |                        | ROOF COVER (3.1.4)                                                         |                                                                                                         |                  |           |               |           | MDP<br>(PSF) |
|------------|------------------------------------------------|-------------------------------------|------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------|-----------|---------------|-----------|--------------|
|            |                                                | TYPE                                | ATTACH                 | MEMBRANE                                                                   | FASTENER (3.1.1, 4.2.2)                                                                                 | FASTENER SPACING | LAP WIDTH | ROW SPACING   | SEAM WELD |              |
| SC-44      | 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        |
| SC-45      | 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        |
| SC-46      | Min. 22 ga., type B, Grade 80 steel, 6 ft span | One or more layers, any combination | Preliminarily attached | Flex MF/R PVC, min. 50-mil Flex Tripolymer MF/R Elvaloy KEE or Flex KEE XT | OMG XHD with OMG 2-3/8 XHD Barbed Stress Plates                                                         | 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(S), BONDED ROOF COVER**

| SYSTEM<br>No.            | DECK<br><a href="#">(4.1.2)</a> | PRIMER   | BASE INSULATION LAYER                               |                                   | TOP INSULATION LAYER                                 |                                   | ROOF COVER <a href="#">(3.1.4)</a>            |                                |                          | <a href="#">MDP</a><br><a href="#">(PSF)</a> |
|--------------------------|---------------------------------|----------|-----------------------------------------------------|-----------------------------------|------------------------------------------------------|-----------------------------------|-----------------------------------------------|--------------------------------|--------------------------|----------------------------------------------|
|                          |                                 |          | TYPE                                                | ATTACH<br><a href="#">(3.1.3)</a> | TYPE                                                 | ATTACH<br><a href="#">(3.1.3)</a> | 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)<br>Additional layer(s)<br>base insulation | hot asphalt                       | None                                          | Flex MF/R PVC                  | SB-SPA, SB-BA or SB-WBSA | -45.0                                        |
| FLEECE BACK ROOF COVERS: |                                 |          |                                                     |                                   |                                                      |                                   |                                               |                                |                          |                                              |
| C-2                      | Structural concrete             | ASTM D41 | ENRGY 3                                             | hot asphalt                       | (Optional)<br>Additional layer(s)<br>base insulation | hot asphalt                       | None                                          | Flex Tripolymer FB Elvaloy KEE | FB-REA                   | -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 | FB-REA                   | -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 SBS-HA | Flex Tripolymer FB Elvaloy KEE | FB-HA                    | -225.0                                       |
| C-5                      | Structural concrete             | None     | One or more min. 1.5-inch Flex ISO II or ACfoam-II  | M-PG1                             | Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board      | M-PG1                             | None                                          | Flex KEE XT FB                 | FB1-M-PG1                | -255.0                                       |



**TABLE 11B: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
 SYSTEM TYPE A-1: BONDED TEMP ROOF, BONDED INSULATION(S), BONDED ROOF COVER**

| SYSTEM NO.               | DECK<br><a href="#">(4.1.2)</a> | PRIMER                                          | VAPOR BARRIER /<br>TEMPORARY ROOF      | BASE INSULATION LAYER(S)                                                                      |                                   | TOP INSULATION LAYER                                              |                                   | ROOF COVER <a href="#">(3.1.4)</a> |                              | <a href="#">MDP</a><br><a href="#">(PSF)</a> |
|--------------------------|---------------------------------|-------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------|-----------------------------------|------------------------------------|------------------------------|----------------------------------------------|
|                          |                                 |                                                 |                                        | TYPE                                                                                          | ATTACH<br><a href="#">(3.1.3)</a> | TYPE                                                              | ATTACH<br><a href="#">(3.1.3)</a> | BASE PLY                           | CAP PLY                      |                                              |
| BARE BACK ROOF COVERS:   |                                 |                                                 |                                        |                                                                                               |                                   |                                                                   |                                   |                                    |                              |                                              |
| C-6                      | 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                               | SB1-S2375 or SB-LA432        | -67.5                                        |
| C-7                      | 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                               | SB1-S2375 or SB-LA432        | -75.0                                        |
| C-8                      | 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                               | SB-F7008                     | -217.5                                       |
| FLEECE BACK ROOF COVERS: |                                 |                                                 |                                        |                                                                                               |                                   |                                                                   |                                   |                                    |                              |                                              |
| 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 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                               | FB2-FA636                    | -45.0                                        |
| 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 DensDeck Prime                                     | M-OSFA, M-PG1 or OB500            | None                               | FB-REA or FB3-FA636          | -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                               | FB-REA, FB3-CRA or FB3-FA636 | -67.5                                        |
| C-12                     | 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                               | FB2-FA636                    | -67.5                                        |
| 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 DensDeck Prime                                     | M-OSFA, M-PG1 or OB500            | None                               | FB-REA or FB3-FA636          | -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                               | FB-REA, FB3-CRA or FB3-FA636 | -75.0                                        |



**TABLE 11B: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
 SYSTEM TYPE A-1: BONDED TEMP ROOF, BONDED INSULATION(S), BONDED ROOF COVER**

| SYSTEM NO. | DECK <a href="#">(4.1.2)</a> | PRIMER                                          | VAPOR BARRIER / TEMPORARY ROOF      | BASE INSULATION LAYER(S)                            |                                | TOP INSULATION LAYER                            |                                | ROOF COVER <a href="#">(3.1.4)</a>          |                    | MDP <a href="#">(PSF)</a> |
|------------|------------------------------|-------------------------------------------------|-------------------------------------|-----------------------------------------------------|--------------------------------|-------------------------------------------------|--------------------------------|---------------------------------------------|--------------------|---------------------------|
|            |                              |                                                 |                                     | TYPE                                                | ATTACH <a href="#">(3.1.3)</a> | TYPE                                            | ATTACH <a href="#">(3.1.3)</a> | BASE PLY                                    | CAP PLY            |                           |
| C-15       | Structural concrete          | Soprema Elastocol Stick or Elastocol Stick Zero | Soprema Soprapav'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                                        | FB2-FA636          | -75.0                     |
| C-16       | Structural concrete          | Soprema Elastocol Stick                         | Soprema Soprapav'r, self-adhering   | Min. 1.5-inch Flex ISO II or AC Foam-II             | CRA                            | Min. 0.25-inch DensDeck Prime                   | CRA                            | None                                        | FB2-CRA or FB4-CRA | -150.0                    |
| C-17       | 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 | FB-HA              | -225.0                    |
| C-18       | 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                    | SBS-HA                                      | FB-HA              | -255.0                    |

**TABLE 11C: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
 SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, INDUCTION-WELDED ROOF COVER**

| SYSTEM NO. | DECK <a href="#">(4.1.2)</a> | INSULATION LAYER <a href="#">(3.1.2)</a>           | ATTACHMENT                                                                    |                                             | ROOF COVER <a href="#">(3.1.4)</a>                                                              | MDP <a href="#">(PSF)</a> |
|------------|------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------|
|            |                              |                                                    | FASTENER <a href="#">(3.1.1, 4.2.2)</a>                                       | DENSITY                                     |                                                                                                 |                           |
| C-19       | 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-20       | 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 ft²<br>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-21       | 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 ft²<br>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                     |
| C-22       | 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 <i>isoweld</i> 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 <a href="#">(4.1.2)</a> | PRIMER                      | ROOF COVER <a href="#">(3.1.4)</a> | MDP <a href="#">(PSF)</a> |
|------------|------------------------------|-----------------------------|------------------------------------|---------------------------|
| C-23       | Structural concrete          | Flex Asphalt Cutback Primer | FB-HA                              | -307.5                    |





**TABLE 11D: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

| SYSTEM No. | DECK <a href="#">(4.1.2)</a> | PRIMER | ROOF COVER <a href="#">(3.1.4)</a> | MDP <a href="#">(PSF)</a> |
|------------|------------------------------|--------|------------------------------------|---------------------------|
| C-24       | Structural concrete          | None   | FB1-FBLRA                          | -382.5                    |
| C-25       | Structural concrete          | None   | FB1-M-PG1                          | -495.0                    |

**TABLE 11E: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE G: OPTIONAL INSULATION, LOOSE-LAID ROOF COVER, PERIMETER ATTACHED ROOF COVER, PRESSURE EQUALIZING VENT**  
**NOT FOR USE IN FBC HVHZ JURISDICTIONS**

| SYSTEM No. | DECK <a href="#">(4.1.2)</a> | AIR BARRIER                                                                     | INSULATION                                                                                                                    | UNDERLAYMENT                                                                                                                  | ROOF COVER                                        |                                                                                            | MDP <a href="#">(PSF)</a> |
|------------|------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------|
|            |                              |                                                                                 |                                                                                                                               |                                                                                                                               | TYPE                                              | ATTACH                                                                                     |                           |
| C-26       | 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<br>(NO HVHZ)        |

**TABLE 12A: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION(S), BONDED ROOF COVER**

| SYSTEM No.               | DECK<br><a href="#">(4.1.2)</a> | LIGHTWEIGHT CONCRETE <a href="#">(3.1.2)</a> | BASE INSULATION LAYER                   |                                                        | COVERBOARD                                                                                          |                                                        | ROOF COVER <a href="#">(3.1.4)</a> | <a href="#">MDP</a><br><a href="#">(PSF)</a> |
|--------------------------|---------------------------------|----------------------------------------------|-----------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------|----------------------------------------------|
|                          |                                 |                                              | TYPE                                    | ATTACH <a href="#">(3.1.3)</a>                         | TYPE                                                                                                | ATTACH <a href="#">(3.1.3)</a>                         |                                    |                                              |
| BARE BACK ROOF COVERS:   |                                 |                                              |                                         |                                                        |                                                                                                     |                                                        |                                    |                                              |
| LWC-1                    | 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 | SB-FA636                           | -165.0                                       |
| LWC-2                    | 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 | SB-FA636                           | -210.0                                       |
| LWC-3                    | 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                                                    | SB-FA636                           | -240.0                                       |
| FLEECE BACK ROOF COVERS: |                                 |                                              |                                         |                                                        |                                                                                                     |                                                        |                                    |                                              |
| LWC-4                    | 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 | FB-M-OSFA or FB1-FA636             | -165.0                                       |





**TABLE 12A: LIGHTWEIGHT CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-1: BONDED INSULATION(S), BONDED ROOF COVER**

| SYSTEM NO. | DECK <a href="#">(4.1.2)</a> | LIGHTWEIGHT CONCRETE <a href="#">(3.1.2)</a> | BASE INSULATION LAYER                  |                                                        | COVERBOARD                                                                                         |                                                        | ROOF COVER <a href="#">(3.1.4)</a> | MDP <a href="#">(PSF)</a> |
|------------|------------------------------|----------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------|---------------------------|
|            |                              |                                              | TYPE                                   | ATTACH <a href="#">(3.1.3)</a>                         | TYPE                                                                                               | ATTACH <a href="#">(3.1.3)</a>                         |                                    |                           |
| 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 | FB-M-OSFA or FB1-FA636             | -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                                                    | FB-M-OSFA or FB1-FA636             | -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 <a href="#">(4.1.2)</a>                                                                             | LIGHTWEIGHT CONCRETE <a href="#">(3.1.2)</a>          | PRIMER          | ROOF COVER <a href="#">(3.1.4)</a> | MDP <a href="#">(PSF)</a> |
|------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------|------------------------------------|---------------------------|
| 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            | FB-OB500 or FB1-CRA                | -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            | FB-REA                             | -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 | FB-HA                              | -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            | FB-REA                             | -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 | FB-HA                              | -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            | FB-REA                             | -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 | FB-HA                              | -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            | FB-REA                             | -90.0                     |
| 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 | FB-HA                              | -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 <a href="#">(4.1.2)</a>                                                                            | LIGHTWEIGHT CONCRETE <a href="#">(3.1.2)</a>                           | PRIMER          | ROOF COVER <a href="#">(3.1.4)</a> | MDP (PSF) |
|------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------|------------------------------------|-----------|
| LWC-16     | Structural concrete                                                                                     | Min. 200 psi, min. 2" thick Celcore Cellular Concrete                  | None            | FB-REA                             | -105.0    |
| LWC-17     | Structural concrete                                                                                     | Min. 200 psi, min. 2" thick Celcore Cellular Concrete                  | ASTM D41 primer | FB-HA                              | -135.0    |
| LWC-18     | Structural concrete                                                                                     | Min. 350 psi, min. 2" thick Celcore Cellular Concrete                  | None            | FB-OB500 or FB1-CRA                | -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            | FB-REA                             | -97.5     |
| LWC-20     | Structural concrete                                                                                     | Min. 160 psi, min. 2" thick Elastizell Lightweight Insulating Concrete | None            | FB1-FA636                          | -245.0    |
| LWC-21     | Structural concrete                                                                                     | Min. 160 psi, min. 2" thick Elastizell Lightweight Insulating Concrete | None            | FB-OB500 or FB1-CRA                | -270.0    |
| LWC-22     | Structural concrete.                                                                                    | Min. 300 psi, min. 2" thick Elastizell Lightweight Insulating Concrete | None            | FB-REA                             | -465.0    |
| LWC-23     | Structural concrete                                                                                     | Min. 370 psi, min. 2" thick Elastizell Lightweight Insulating Concrete | None            | FB1-FA636                          | -582.5    |

**TABLE 13A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION(S), BONDED ROOF COVER**

<sup>A</sup> 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 (See 4.1.2) or performance of the substrate (See 4.2.2). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| SYSTEM<br>No.         | SUBSTRATE<br>(4.1.2, 4.2.2)                                         | BASE INSULATION LAYER                                                |                | TOP INSULATION LAYER                           |                | ROOF COVER (3.1.4) |               |                          | MDP<br>(PSF) <sup>A</sup> |
|-----------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|----------------|------------------------------------------------|----------------|--------------------|---------------|--------------------------|---------------------------|
|                       |                                                                     | 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, AC Foam-II or ENRGY 3 | OB500          | (Optional) Additional layer(s) base insulation | OB500          | None               | Flex MF/R PVC | SB-SPA, SB-BA or SB-WBSA | -45.0                     |

**TABLE 13A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION(S), BONDED ROOF COVER**

<sup>A</sup> 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 (See 4.1.2) or performance of the substrate (See 4.2.2). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| SYSTEM No.                      | SUBSTRATE<br>(4.1.2, 4.2.2)                                                                                                                       | BASE INSULATION LAYER                                                                     |                                                        | TOP INSULATION LAYER                                                         |                                                        | ROOF COVER (3.1.4) |                                                   |                                                       | MDP<br>(PSF) <sup>A</sup> |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------|--------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------|
|                                 |                                                                                                                                                   | TYPE                                                                                      | ATTACH (3.1.3)                                         | TYPE                                                                         | ATTACH (3.1.3)                                         | BASE PLY           | CAP PLY                                           | APPLICATION                                           |                           |
| 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 | SB1-S2375 or SB-LA432                                 | -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 | SB1-S2375 or SB-LA432                                 | -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 | SB1-S2375 or SB-LA432                                 | -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 | SB1-S2375 or SB-LA432                                 | -237.5                    |
| <b>FLEECE BACK ROOF COVERS:</b> |                                                                                                                                                   |                                                                                           |                                                        |                                                                              |                                                        |                    |                                                   |                                                       |                           |
| 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                                  | FB2-FBLRA (RIBBON, 12), FB2-CRA, FB4-CRA or FB2-FA636 | -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                    | FB1-FBLRA (RIBBON, 12), FB3-CRA or FB3-FA636          | -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                                  | FB2-CRA or FB2-FA636                                  | -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                    | FB-REA, FB3-CRA or FB3-FA636                          | -157.5                    |

**TABLE 13A: RECOVER APPLICATIONS**  
**SYSTEM TYPE A-1: BONDED INSULATION(S), BONDED ROOF COVER**

<sup>A</sup> 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 (See 4.1.2) or performance of the substrate (See 4.2.2). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| SYSTEM No. | SUBSTRATE<br>(4.1.2, 4.2.2)                                                                                                                       | BASE INSULATION LAYER                                                                     |                                                        | TOP INSULATION LAYER                                             |                                                        | ROOF COVER (3.1.4)                         |                                |                               | MDP<br>(PSF) <sup>A</sup> |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|--------------------------------|-------------------------------|---------------------------|
|            |                                                                                                                                                   | TYPE                                                                                      | ATTACH (3.1.3)                                         | TYPE                                                             | ATTACH (3.1.3)                                         | BASE PLY                                   | CAP PLY                        | APPLICATION                   |                           |
| 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 AC Foam-II                                 | M-OSFA                                                 | (Optional) Additional layers of base insulation                  | M-OSFA                                                 | None                                       | Flex MF/R PVC FB               | FB2-CRA or FB2-FA636          | -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 AC Foam-II                                 | M-OSFA                                                 | (Optional) Additional layers of base insulation                  | M-OSFA                                                 | None                                       | Flex Tripolymer FB Elvaloy KEE | FB-REA, FB3-CRA or FB3-FA636  | -195.0                    |
| R-12       | Existing smooth-surface asphalt built-up roof (BUR)                                                                                               | 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 | FB-HA                         | -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               | FB2-CRA, FB4-CRA or FB2-FA636 | -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 AC Foam-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               | FB2-CRA, FB4-CRA or FB2-FA636 | -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 | FB-REA, FB3-CRA or FB3-FA636  | -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 AC Foam-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 | FB-REA, FB3-CRA or FB3-FA636  | -237.5                    |
| R-17       | Existing smooth-surface SBS modified bitumen                                                                                                      | 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                                            | SBS-HA                                     | Flex Tripolymer FB Elvaloy KEE | FB-HA                         | -255.0                    |



**TABLE 13b: STEEL - RECOVER**

**SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, INDUCTION-WELDED ROOF COVER**

*Note: 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<br>(4.1.2)                                                                                                                          | INSULATION LAYER<br>(3.1.2)                                 | ATTACHMENT                                                                                         |                            | ROOF COVER (3.1.4)                                                                                               | MDP<br>(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 <b>max. 60-inch o.c.</b> | 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 Triopolymer 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 <b>max. 60-inch o.c.</b> | 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 Triopolymer 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 <b>max. 60-inch o.c.</b> | 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 Triopolymer MF/R Elvaloy KEE, induction welded with SFS isoweld tool                       | -90.0        |

**TABLE 13c: RECOVER APPLICATIONS**

**SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

<sup>A</sup> The reported MDP documents the allowable maximum design pressure of the new roof cover when adhered to the substrate, irrespective of the deck type (See 4.1.2) or performance of the substrate (See 4.2.2).  
 The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.

| SYSTEM No. | SUBSTRATE<br>(4.1.2, 4.2.2)                                                         | PRIMER | ROOF COVER (3.1.4)              | MDP<br>(psf) <sup>A</sup> |
|------------|-------------------------------------------------------------------------------------|--------|---------------------------------|---------------------------|
| R-21       | Existing smooth-surface built-up roof (BUR) or granule-surface SBS modified bitumen | None   | FB-FBLRA (RIBBON, 6) or FB1-CRA | -60.0                     |