| Manufacturer: | JOHNS MANVILLE CORPORATION <br> P.O. Box 5108 <br> Denver, CO 80217 <br> (303) 978-2478 | Issued April 24, 2023 |
| :--- | :--- | :--- |
|  | www.jm.com |  |
| Manufacturing Plants: | Milan, OH |  |
| Quality Assurance: | UL LLC (QUA9625) |  |

## SCOPE

| Category: | Roofing <br> Subcategory: <br> Single Ply Roof System |
| :--- | :--- |
| Code Edition; | Florida Building Code, $7^{\text {th }}$ Edition (2020) including High-Velocity Hurricane Zones (HVHZ) |
| Code Sections: | 1504.3.1, 1504.4, 1507.12.2, |
| Properties: | Wind Resistance, Physical Properties, Impact Resistance |

Product Description

| Products | Specification | Description |
| :--- | :--- | :--- |
| JM EPDM NR - 45 | ASTM D 4637, Type I | Nominal <br> ply roof 45-mil thick ethylene propylene diene monomer, single- |
| JM EPDM NR - 60 | ASTM D 4637, Type I | Nominal 60-mil thick ethylene propylene diene monomer, single- <br> ply roof membrane |
| JM EPDM NR - 90 | ASTM D 4637, Type I | Nominal 90-mil thick ethylene propylene diene monomer, single- <br> ply roof membrane |
| JM EPDM R - 45 | ASTM D 4637, Type II | Nominal 45-mil thick ethylene propylene diene monomer, single- <br> ply roof membrane with denier polyester mat reinforcement |
| JM EPDM R - 60 | ASTM D 4637, Type II | Nominal 60-mil thick ethylene propylene diene monomer, single- <br> ply roof membrane with denier polyester mat reinforcement |
| JM EPDM R - 75 | ASTM D 4637, Type II | Nominal I5-mil thick ethylene propylene diene monomer, single- <br> ply roof membrane with denier polyester mat reinforcement |
| JM EPDM NR FIT - 45 | ASTM D 4637, Type I | Nominal 45-mil thick ethylene propylene diene monomer, single- <br> ply roof membrane with factory inseam tape |
| JM EPDM NR FIT - 60 | ASTM D 4637, Type I | Nominal 60-mil thick ethylene propylene diene monomer, single- <br> ply roof membrane with factory inseam tape |
| JM EPDM NR FIT - 90 | ASTM D 4637, Type I | Nominal 90-mil thick ethyllene propylene diene monomer, single- <br> ply roof membrane with factory inseam tape |
| JM EPDM R FIT - 60 | ASTM D 4637, Type II | Nominal 60-mil thick ethylene propylene diene monomer, single- <br> ply roof membrane with factory inseam tape and denier polyester <br> mat reinforcement |
| JM EPDM R FIT - 75 | ASTM D 4637, Type II | Nominal 75-mil thick ethylene propylene diene monomer, single- <br> ply roof membrane with factory inseam tape and denier polyester <br> mat reinforcement |

This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

## References

## Entity

FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
FM Approvals (TST1867)
PRI Construction Materials Technologies (TST5878)
PRI Construction Materials Technologies (TST5878)
PRI Construction Materials Technologies (TST5878) PRI Construction Materials Technologies (TST5878) PRI Construction Materials Technologies (TST5878) PRI Construction Materials Technologies (TST5878) PRI Construction Materials Technologies (TST5878) PRI Construction Materials Technologies (TST5878) PRI Construction Materials Technologies (TST5878) PRI Construction Materials Technologies (TST5878) PRI Construction Materials Technologies (TST5878)
PRI Construction Materials Technologies (TST5878)
PRI Construction Materials Technologies (TST5878)
PRI Construction Materials Technologies (TST5878)
PRI Construction Materials Technologies (TST5878)
PRI Construction Materials Technologies (TST5878)
PRI Construction Materials Technologies (TST5878)
PRI Construction Materials Technologies (TST5878)
PRI Construction Materials Technologies (TST5878)
PRI Construction Materials Technologies (TST5878)
PRI Construction Materials Technologies (TST5878)
PRI Construction Materials Technologies (TST5878)
PRI Construction Materials Technologies (TST5878)

| Report No. | Standard |
| :---: | :---: |
| 3018732 | FM 4470 (2016) |
| 3043302 | FM 4470 (2016) |
| 3044619 | FM 4470 (2016) |
| 3046790 | FM 4470 (2016) |
| 3052787 | FM 4470 (2016) |
| 3054215 | FM 4470 (2016) |
| 3057904 | FM 4470 (2016) |
| 3058326 | FM 4470 (2016) |
| 3058681 | FM 4470 (2016) |
| 3063526 | FM 4470 (2016) |
| PR450753 | FM 4470 (2016) |
| PR451542 | FM 4470 (2016) |
| PR451795 | FM 4470 (2016) |
| PR452385 | FM 4470 (2016) |
| PR453717 | FM 4470 (2016) |
| PR453769 | FM 4470 (2016) |
| PR454134 | FM 4470 (2016) |
| PR454167 | FM 4470 (2016) |
| PR454361 | FM 4470 (2016) |
| PR454859 | FM 4470 (2016) |
| PR455671 | FM 4470 (2016) |
| PR459758 | FM 4470 (2016) |
| PR460648 | FM 4470 (2016) |
| PR461495 | FM 4470 (2016) |
| RR221434 | FM 4470 (2016) |
| RR224220 | FM 4470 (2016) |
| RR224581 | FM 4470 (2016) |
| RR228007 | FM 4470 (2016) |
| RR228035 | FM 4470 (2016) |
| RR231410 | FM 4470 (2016) |
| RR231509 | FM 4470 (2016) |
| RR231509 | FM 4470 (2016) |
| RR232746 | FM 4470 (2016) |
| RR233094 | FM 4470 (2016) |
| RR460477 | FM 4470 (2016) |
| RR234750 | FM 4470 (2016) |
| RR234751 | FM 4470 (2016) |
| RR236242 | FM 4470 (2016) |
| 3062025 | FM 4470 (2016) |
| JMC-088-02-01 | ASTM D 1876 (2008); TAS 117(A\&B) (1995); TAS 114 (2011); FM 4474 (2011) |
| JMC-246-02-01 | FM 4474(B) (2011); TAS 114(D) (2011) |
| JMC-359-02-01 | FM 4474 (2011); TAS 114(J) (2011) |
| JMC-359-02-02 | ASTM D4637/D4637M (2014e1) |
| JMC-359-02-02 | ASTM D4637/D4637M (2014e1) |
| 507T0004 | FM 4474(D) (2011); TAS 114(J) (2011) |
| $507 T 0009$ | FM 4474(C) (2011) |
| 507T0011 | FM 4474(D) (2011); TAS 114(J) (2011) |
| $507 T 0031$ | FM 4474(C) (2011) |
| 507T0153B | FM 4474(C) (2011) |
| $507 T 0199$ | TAS 114(D) (2011) |
| $507 T 0193$ | FM 4474(D) (2011); TAS 114(J) (2011) |
| 507T0217.1 | FM 4474(D) (2011) |
| $507 T 0218$ | FM 4474(C) (2011) |
| 507T0234.1 | FM 4474 (D)(2011); TAS 114(J) (2011) |
| 507T0256A | FM 4474(C) (2011) |
| 507T0256B | FM 4474(C) (2011) |
| $507 T 0302$ | FM 4474 (D)(2011); TAS 114(J) (2011) |
| 507T0303 | FM 4474 (D)(2011); TAS 114(J) (2011) |
| 507T0306.1 | FM 4474 (D)(2011); TAS 114(J) (2011) |
| 507T0320 | FM 4474(C) (2011) |
| 507T0331 | FM 4474(C) (2011) |
| 507T0339 | FM 4474(D) (2011) |

This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

## LIMITATIONS

1. Fire classification is not within the scope of this evaluation.
2. Foam plastic insulation shall be separated from the building interior in accordance with the FBC 2603.4 and 2603.6.
3. The roof deck and the roof deck attachment information are provided based on testing. FBC requirements for the rational design of the roof deck, including the attachment, are not within the scope of this evaluation.
4. In the HVHZ, fastener spacing for insulation attachment is determined using a Minimum Characteristic Force (F') of 275 lbf as demonstrated via testing to TAS 105. If the field tested fastener value is below 275 lbf , then insulation attachment shall not be acceptable.
5. In the HVHZ, fastener spacing for base sheets or membrane attachment shall meet the minimum fastener resistance value and the MDP for the specified assembly. It is permissible for a qualified professional to submit a revised fastener spacing utilizing the withdrawal resistance value obtained from TAS 105 testing and calculations performed in accordance with RAS 117 and/or RAS 137, when the fastener resistance is found less than required.
6. In the HVHZ, if mechanical attachment through the lightweight insulating concrete to the structural deck is proposed, a field fastener withdrawal test shall be conducted in compliance with TAS 105 to determine equivalent or increased attachment densities. Revised fastener densities shall be submitted utilizing the withdrawal resistance value obtained from TAS 105 testing and calculations performed in accordance with RAS 117 and/or RAS 137.
7. HVHZ: For assemblies containing mechanical attachment, the allowable uplift pressure for the selected assembly shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16. The attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in the periphery zones. Calculations shall be conducted in compliance with RAS 117 and/or RAS 137.
Non-HVHZ: For assemblies containing mechanical attachment or adhered in ribbon-applied adhesive, the allowable uplift pressure for the selected assembly shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16. The attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in the periphery zones. Calculations shall be conducted in compliance with RAS 117, RAS 137, or Section 2.2.10.1 FM LPDS 1-29 (February 2020).
8. Reroofing applications shall be examined in accordance with FBC Section 1511 outside of the HVHZ and FBC Section 1521 within the HVHZ. For mechanically fastened systems, a field withdrawal resistance test (TAS 105 in the HVHZ; ANSI/SPRI FX-1 or TAS 105 in the non-HVHZ) shall be conducted by a qualified professional to ensure the fastener meets the minimum design load requirements of the system. For adhered systems, a field uplift resistance test (TAS 124 in the HVHZ; ASTM E 907, FM LPDS 1-52, ANSI/SPRI IA-1, or TAS 124 in the non-HVHZ) shall be conducted to confirm conformance of the existing to the minimum design loads.
9. HVHZ: For assemblies containing fully adhered or ribbon adhered attachment, or where extrapolation of the assembly is not permitted, the MDP for the selected assembly shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16 without augmentation.
Non-HVHZ: For assemblies adhered in ribbon-applied adhesive, the allowable uplift pressure for the selected assembly shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16. The attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in the periphery zones. Calculations shall be conducted in compliance with Section 2.2.10.1 FM LPDS 1-29 (February 2020).
10. Installation of the evaluated products shall comply with this report, the FBC, and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
11. The minimum roof slope shall be $1 / 4: 12$ for new construction.
12. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

## Compliance Statement

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, $7^{\text {th }}$ Edition (2020) including High-Velocity Hurricane Zones (HVHZ) as evidenced in the referenced documents submitted by the named manufacturer.


CREEK Technical Services, LLC does not have, nor will it acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

CREEK Technical Services, LLC is not owned, operated, or controlled by any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

## Appendices

1. APPENDIX A - Installation (5 pages)
2. APPENDIX B - Nomenclature (5 pages)
3. APPENDIX C - Approved Assemblies for JM EPDM Single-Ply Membranes (22 pages)

CREEK

## Installation

Note - Refer to the APPROVED Assemblies section of this report for specific installation details of a selected assembly.
Unless otherwise specified in this report the following installation details shall be met for the named products:

| Component | Product | Installation Detail |
| :---: | :---: | :---: |
| Fasteners, Battens \& Plates | JM All Purpose Fastener | \#14 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck; Min. 1-inch penetration into concrete deck |
|  | JM APB Plates | 2-inch diameter; Galvalume steel plate with reinforcing ribs and barbs |
|  | JM Extra High Load Fastener | \#21 fastener; Min. 3/4-inch penetration through the top rib of the steel deck |
|  | JM Extra High Load Plates | 3-inch diameter; Galvalume steel plate with eyehooks |
|  | JM High Load Plates | $23 / 8$-inch diameter; Galvalume steel plate with eyehooks |
|  | JM High Load Plus Plates | $23 / 4$-inch diameter; Galvalume steel plate with barbs |
|  | JM High Load Fastener | \#15 fastener; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck |
|  | JM High Load LH Fastener | \#15 fastener with oversized head; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck |
|  | JM Polymer Auger Fastener and Plate (3") | Polymer fastener and 3" diameter galvalume steel plate; Min. 1.5-inch penetration in gypsum deck |
|  | JM UltraFast Fastener | \#12 fastener; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck |
|  | JM UltraFast Metal Plate (Round) or UltraFast Plate Metal Recessed | 3-inch diameter round; Galvalume steel plate; Only for use with the following products: ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, ENRGY 3 FR, ENRGY 3 C1, ENRGY 3 C1 CGF, RetroPlus, Retro-Fit, SeparatoR, SeparatoR CGF, SeparatoR CGF FR, DuraBoard, DuraFoam, Fesco, and Fesco Foam |
|  | JM UltraFast Metal Plate (Square) or UltraFast Plate Metal Flat | 3-inch square; Galvalume steel plate |
|  | JM UltraLok Fastener | Min. 1.8-inch galvanized steel tube and coated-steel locking staple pre-assembled with 2.7-inch diameter Galvalume steel plate |
|  | JM Polymer Membrane Batten | Membrane anchors and plastic strips; Installed perpendicular to steel deck ribs |
|  | JM Purlin Fastener | Min. 3/4-inch penetration through purlin |
|  | JM TPO RhinoPlate | Min. 3-inch diameter for TPO membranes; Induction welded in the field of membrane; welds not permitted at lap seams; For use only with min. 60 mil thick bareback membrane |
|  | OMG 3 in. Ribbed Galvalume Plate (Flat) | 3-inch diameter round; Galvalume steel plate |
|  | OMG \#12 Standard Roofgrip | \#12 fastener; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck |
|  | OMG CR Base Sheet Fastener | Base sheet fastener with 1.75 -inch galvanized steel shank coated with CR-10 and integrated 2.75-inch diameter Galvalume plate. |
|  | OMG XHD | \#15 fastener; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck |
|  | SFS Intec Dekfast DF-\#12-PH3 Fastener | \#12 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck |
|  | SFS Intec Dekfast DF-\#14-PH3 Fastener | \#15 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck; Min. 1-inch penetration into concrete deck |
|  | SFS Intec Dekfast DF-\#15-PH3 Fastener | \#15 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck; Min. 1-inch penetration into concrete deck |
|  | SFS Intec Dekfast PLT-H-2-7/8 | 2-7/8" hexagonal galvalume steel stress plate |
|  | SFS Intec Dekfast PLT-R-3 | 3-inch diameter round; Galvalume steel plate |

This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

| Component | Product | Installation Detail |
| :---: | :---: | :---: |
| Fasteners, Battens \& Plates (Cont'd) | SFS Intec FI-P-6.8-TPO | Min. 3-inch diameter for TPO membranes; Induction welded in the field of membrane; welds not permitted at lap seams; For use only with min. 60 mil thick bareback membrane |
|  | SFS Intec isofast PLT-R-2-3/8-BL | 2-3/8-inch diameter; Galvalume steel plate |
|  | Trufast 2.4" Barbed Metal Seam Plate | 2.4-inch diameter; Galvalume steel plate |
|  | Trufast 2.4" Barbed Metal Seam Plate (14-Barb) |  |
|  | Trufast 2.4" Scoop Seam Plate |  |
|  | Trufast 3" Metal Insulation Plate | 3-inch diameter round; Galvalume steel plate |
|  | Trufast \#12 Purlin Fastener | Installed into min. 16ga. steel purlins |
|  | Trufast \#12 DP Fastener | \#12 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck |
|  | Trufast \#14 HD Fastener | \#14 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck; Min. 1-inch penetration into concrete deck |
|  | Trufast \#15 EHD Fastener | \#15 fasteners; Min. 3/4-inch penetration through the top rib of the steel deck or wood deck |
|  | Trufast Fluted Concrete Nails | Concrete deck only |
|  | Trufast Deep Well Batten Bar | Galvalume steel membrane batten with recessed holes |
|  | Trufast Straight Line Batten Bar | Galvalume steel membrane batten for use with Twin-Loc Nail without integrated plate |
|  | Trufast TPO IW Plates | Min. 3-inch diameter for TPO membranes; Induction welded in the field of membrane; welds not permitted at lap seams; For use only with min. 60 mil thick bareback membrane |
|  | Trufast Twin Loc-Nail | Min. 1.4-inch shank; Base sheet fastener with and without integrated 2.7-inch diameter plate |
|  | Trufast VERSA-FAST fastener | Min. 2 1/4-inch length; Min. 3/4-inch penetration through wood deck |
| Insulation Adhesives | JM MBR Bonding Adhesive | Fully adhered at a rate of $1.5-2.0 \mathrm{gal} / 100 \mathrm{ft}^{2}$ |
|  | JM One-Step Foamable Adhesive | Ribbon adhered in $3 / 4$ to 1 -inch wide beads |
|  | ICP Adhesives CR-20 |  |
|  | OMG OlyBond 500 | Ribbon adhered in 3/4 to 1 -inch wide beads |
|  | JM Two Part Urethane Insulation Adhesive Canister or JM Two-Part UIA Canister |  |
|  | JM Two Part Urethane Insulation Adhesive or JM Two-Part UIA |  |
|  | JM Roofing System Urethane Adhesive |  |
|  | JM Urethane Insulation Adhesive | Ribbon adhered in 1/2-inch wide beads |
|  | ASTM D 312, Type IV asphalt | Fully adhered within the EVT range at a rate of 25-40 $\mathrm{lbs} / 100 \mathrm{ft}^{2}$ |
| Insulation/Cover Boards | EPS | Min. 0.5-inch, min. $1.8 \mathrm{pcf}(\mathrm{HVHZ})$ or min. 1.5 pcf (nonHVHZ) expanded polystyrene; Adhered boards shall be a maximum $4-\mathrm{ft} \times 4-\mathrm{ft}$ |
|  | Georgia-Pacific DensDeck | Min. 1/4-inch thick |
|  | Georgia-Pacific DensDeck Prime |  |
|  | Georgia-Pacific DensDeckStorm X Prime | Min. 5/8-inch thick |
|  | JM ENRGY 3 | Min. 1/2-inch thick; Min. 20 psi; Adhered boards shall be a maximum $4 \mathrm{ft} \times 4 \mathrm{ft}$ |
|  | JM ENRGY 3 C1 |  |
|  | JM ENRGY 3 AGF |  |
|  | JM ENRGY 3 CGF |  |
|  | JM ENRGY 3 C1 CGF |  |
|  | JM ENRGY 3 FR |  |
|  | JM Fesco Board | Min. 3/4-inch thick; Min. 20 psi |
|  | JM Fesco Foam | Min. 1.5-inch thick; Min. 20 psi; Adhered boards shall be a maximum $4 \mathrm{ft} \times 4 \mathrm{ft}$ |

JMC22001.3
FL41356-R3
Page 2 of 5
This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

JOHNS MANVILLE CORPORATION EPDM Single Ply Roofing Systems

TECHNICAL SERVICES, LLC
APPENDIX A - INSTALLATION

| Component | Product | Installation Detail |
| :---: | :---: | :---: |
| Insulation/Cover Boards (Cont'd) | JM Invinsa Roof Board | 1/4-inch thick; Adhered boards shall be a maximum $4 \mathrm{ft} \times 4 \mathrm{ft}$ |
|  | JM Invinsa Foam Roof Board |  |
|  | JM Invinsa FR Roof Board | 1/4-inch thick; Adhered boards shall be a maximum $4 \mathrm{ft} \times 4 \mathrm{ft}$ |
|  | JM ProtectoR Foam | Min. 2-inch thick; Min. 80psi top layer; Min. 20psi bottom layer; Adhered boards shall be a maximum $4 \mathrm{ft} \times 4 \mathrm{ft}$ |
|  | JM ProtectoR HD | 1/2-inch thick; Min. 80 psi; Adhered boards shall be a maximum $4 \mathrm{ft} \times 4 \mathrm{ft}$ |
|  | JM ProtectoR HD FR |  |
|  | JM Retro-Fit Board | 1/2-inch thick; Adhered boards shall be a maximum $4 \mathrm{ft} \times 4 \mathrm{ft}$ |
|  | JM RetroPlus Roof Board |  |
|  | JM SECUROCK Glass-Mat Roof Board | Min. 1/4-inch thick |
|  | JM SECUROCK Gypsum-Fiber Roof Board |  |
|  | JM SeparatoR | 1/2-inch thick; Min. 25 psi; Adhered boards shall be a maximum $4 \mathrm{ft} \times 4 \mathrm{ft}$ |
|  | JM SeparatoR CGF |  |
|  | JM SeparatoR FR |  |
|  | National Gypsum DEXcell Cement Roof Board | Min. 7/16-inch thick; Adhered boards shall be a maximum $4 \mathrm{ft} \times 4 \mathrm{ft}$ |
|  | National Gypsum DEXcell Glass Mat Roof Board | Min. 1/4-inch thick |
|  | National Gypsum DEXcell FA Glass Mat Roof Board |  |
| EPDM Single-Ply Membranes | JM EPDM NR - 45 | Min. 3-inch wide side laps are primed with JM EPDM Tape Primer Plus, JM EPDM Tape Primer Plus (Low VOC), or JM Single Ply Primer (Low VOC) and adhered with JM EPDM Seam Tape Plus; Laps shall be installed perpendicular to steel deck ribs for row fastened systems |
|  | JM EPDM NR - 60 |  |
|  | JM EPDM NR - 90 |  |
|  | JM EPDM R - 45 | For in-lap fastened systems, the min. 6-inch wide side laps are primed with JM EPDM Tape Primer Plus, JM EPDM Tape Primer Plus (Low VOC), or JM Single Ply Primer (Low VOC) and adhered with JM EPDM Seam Tape Plus; Laps shall be installed perpendicular to steel deck ribs |
|  | JM EPDM R - 60 |  |
|  | JM EPDM R - 75 |  |
|  | JM EPDM NR FIT - 45 | Min. 3-inch wide side laps are primed with JM EPDM Tape Primer Plus, JM EPDM Tape Primer Plus (Low VOC), or JM Single Ply Primer (Low VOC) and adhered with factory applied seam tape; Laps shall be installed perpendicular to steel deck ribs for row fastened systems |
|  | JM EPDM NR FIT - 60 |  |
|  | JM EPDM NR FIT - 90 |  |
|  | JM EPDM R FIT - 60 | For in-lap fastened systems, the min. 6-inch wide side laps are primed with JM EPDM Tape Primer Plus, JM EPDM Tape Primer Plus (Low VOC), or JM Single Ply Primer (Low VOC) and adhered with factory applied seam tape; Laps shall be installed perpendicular to steel deck ribs |
|  | JM EPDM R FIT - 75 |  |
| EPDM Membrane Adhesives | JM All Season Sprayable Bonding Adhesive | Fully adhered at a total rate of $1,000 \mathrm{ft}^{2} /$ canister; Applied simultaneously to underside of membrane and substrate; |
|  | JM Membrane Bonding Adhesive (TPO \& EPDM) | Fully adhered at rate of $50-90 \mathrm{ft}^{2} / \mathrm{gal}\left(1.1-2.0 \mathrm{gal} / 100 \mathrm{ft}^{2}\right)$; Applied simultaneously to underside of membrane and substrate |
|  | JM LVOC Membrane Adhesive (TPO \& EPDM) | Fully adhered at rate of $50-90 \mathrm{ft}^{2} / \mathrm{gal}\left(1.1-2.0 \mathrm{gal} / 100 \mathrm{ft}^{2}\right.$ ); Applied simultaneously to underside of membrane and substrate |
|  | JM EPDM Water Based Membrane Adhesive | Fully adhered at rate of $140 \mathrm{ft}^{2} / \mathrm{gal}\left(0.5 \mathrm{gal} / 100 \mathrm{ft}^{2}\right)$; Applied simultaneously to underside of membrane and substrate; or <br> Fully adhered at rate of $140-220 \mathrm{ft}^{2} / \mathrm{gal}\left(0.5-0.7 \mathrm{gal} / 100 \mathrm{ft}^{2}\right)$; Applied to substrate only |

This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

| Component | Product | Installation Detail |
| :---: | :---: | :---: |
| EPDM Membrane Accessories | JM EPDM 10" Reinforced Perimeter Strip (RPS) | Self-adhered to membrane primed with JM EPDM Tape Primer Plus, JM EPDM Tape Primer Plus (Low VOC), or JM Single Ply Membrane Primer (Low VOC) |
|  | JM EPDM Peel \& Stick Sealing Strip | Self-adhered to membrane primed with JM Single Ply Membrane Primer (Low VOC) |
|  | JM EPDM Seam Tape Plus | 3-inch or 6-inch wide seam tape |
| EPDM Membrane <br> Primers | JM EPDM Tape Primer Plus | Applied at a rate of $500 \mathrm{ft}^{2} / \mathrm{gal}$ for JM EPDM NR membranes and $375 \mathrm{ft}^{2} /$ gal for JM EPDM R membranes |
|  | JM EPDM Tape Primer Plus (Low VOC) | Applied at a rate of $150-225 \mathrm{ft}^{2} / \mathrm{gal}$ |
|  | JM Single Ply Membrane Primer (Low VOC) | Applied at a rate of $200 \mathrm{ft}^{2} / \mathrm{gal}$ |
| Vapor Barriers | JM DynaBase HW | Min. 3-inch wide side-laps; Min. 6-inch end laps; Torch adhered ; Concrete decks primed prior to torch |
|  | JM DynaWeld Base |  |
|  | JM DynaWeld Cap |  |
|  | JM DynaBase | Min. 3-inch wide side-laps; Min. 6-inch end laps; Applied with hot or cold approved adhesives |
|  | JM DynaBase PR |  |
|  | JM DynaLastic 180 S |  |
|  | JM DynaLastic 250 S |  |
|  | JM DynaFast 180 S | Min. 3-inch wide side-laps; Min. 6-inch end laps; Applied with hot or cold approved adhesives |
|  | JM DynaGrip Base SD/SA | Min. 3-inch wide side-laps; Min. 6-inch end laps; Selfadhered |
|  | JM DynaGrip Base PR SD/SA |  |
|  | JM Vapor Barrier SA | Self-adhered to primed wood, gypsum or concrete decks; Min. 3-inch sides laps; Min. 6-inch end laps |
|  | JM Vapor Barrier SAR | Self-adhered to primed wood, gypsum or concrete decks; Min. 3-inch sides laps; Min. 6-inch end laps |
| Vapor Barrier Adhesives | DynaSet 1k | Min. 4-inch laps sealed at a rate of $1.5-2.0 \mathrm{ga} / / 100 \mathrm{ft}^{2}$; Applied to substrate in $0.5-0.75$-inch wide continuous ribbons |
|  | DynaSet 2k |  |
| Base Sheets | JM DynaBase | Min. 3-inch wide side-laps; Min. 6-inch end laps; Applied with hot or cold approved adhesives |
|  | JM DynaBase HW | Min. 3-inch wide side-laps; Min. 6-inch end laps; Torch adhered |
|  | JM DynaFast 180 S | Min. 3-inch wide side-laps; Min. 6-inch end laps; Side-laps shall be installed perpendicular to the direction of the steel deck ribs and parallel to the direction of the wood trusses for mechanically attached systems |
|  | JM Ventsulation Felt | Min. 4-inch wide side-laps; Min. 6-inch end laps |
| Cellular Lightweight Concrete | Celcore MF with HS Rheology Admixture | Slurry coat min. 1/8-inch thick; 1 -inch thick EPS board (1 lbs/ft ${ }^{3}$ ); Min. 2-inch thick top coat; Celcore PVA curing compound applied at rate of $300 \mathrm{ft}^{2} / \mathrm{gal}$ |
|  | Mearlcrete | Slurry coat min. $1 / 8$-inch thick; $1^{\prime \prime}$ thick EPS board ( $1 \mathrm{lbs} / \mathrm{ft}^{3}$ ); Min. 2-inch thick top coat |
|  | Elastizell |  |
|  | Concrecel |  |
|  | Cellular Lightweight Concrete |  |

This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

JOHNS MANVILLE CORPORATION EPDM Single Ply Roofing Systems
1

This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

## Nomenclature

The following naming conventions are utilized to specify products in the APPROVED Assemblies section of this report. Refer to the nomenclature below when deciphering the allowable products for use in the selected assembly. Installation requirements shall be as noted in the Approved Assemblies section of this report.

| Name | Definition |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2-Part UIA | JM Two Part Urethane Insulation Adhesive, JM Two-Part UIA, JM Two Part Urethane Insulation Adhesive Canister, or JM Two-Part UIA Canister |  |  |  |  |
| 2-Part UIA-C(B) | JM Two Part Urethane Insulation Adhesive Canister or JM Two-Part UIA Canister applied in 1/2-inch wide beads |  |  |  |  |
| APB Fasteners \& Plates | JM APB Plates and JM High Load Fasteners (Wood Deck or Steel Deck) or JM All Purpose Fasteners (Concrete Deck) |  |  |  |  |
| As Tested | Information provided to the report user based on the as tested condition of the roof system |  |  |  |  |
| ASBA | JM All Season Sprayable Bonding Adhesive |  |  |  |  |
| Cover Board | One layer of any of the following products: <br> -Georgia-Pacific DensDeck <br> -Georgia-Pacific DensDeck Prime <br> -Georgia-Pacific DensDeck StorrmX Prime <br> -JM Invinsa Roof Board <br> -JM Invinsa FR Roof Board <br> -JM ProtectorR HD <br> -JM ProtectorR HD FR <br> -JM SECUROCK Glass-Mat Roof Board <br> -JM SECUROCK Gypsum-Fiber Roof <br> Board <br> -JM SeparatoR <br> -JM SeparatoR CGF |  |  |  | -JM SeparatoR FR <br> -National Gypsum DEXcell FA Glass Mat Roof Board <br> -National Gypsum DEXcell Glass Mat Roof Board <br> -National Gypsum DEXcell Cement Roof Board |
| Deck Detail | All decks shall be designed by others in accordance with FBC requirements. As Tested deck construction details are described as follows: |  |  |  |  |
|  | Concrete Deck | Min. $f_{c}^{\prime}=2,500$ psi at 28 days |  |  |  |
|  | CWF Deck | Min. 2.5-inch thick Tectum I cementitious wood fiber panels |  |  |  |
|  | Steel Deck | Min. 22 ga, Wide Rib Deck (Type WR) conforming to ANSI/SDI-RD1.0 \& FBC; 0.5\% Vented for LWIC applications only. The following nomenclature is used to further describe the As Tested condition. |  |  |  |
|  |  | $F<\#>$ | <\#> of \#12-24 HWH self-drilling screws or equivalent fasteners at each flute used to secure the deck to the structural supports; Min. 1/4-inch penetration |  |  |
|  |  | G<\#> | Min. Grade <\#> of Steel Deck |  |  |
|  |  | H<\#> | <\#> of Hilti X-HSN 24 fastener or equivalent fasteners at each flute used to secure the deck to the structural supports; Min. 1/4-inch penetration |  |  |
|  |  | L<\#> | Max. span of <\#> ft |  |  |
|  |  | $P$ | Min. 5/8-inch diameter puddle welds at each flute used to secure the deck to the structural supports |  |  |
|  |  | S<\#> | $1 / 4$ "-14 HWH $\times 7 / 8$ " self-drilling screws or equivalent fastener secured <\#>-inch o.c. along the panel side laps |  |  |
|  |  | SD<\#> | <\#> of SFS Intec SD5-\#12-HW5/16 Fasteners at each flute used to secure the deck to the structural supports; Min. 1/4-inch penetration |  |  |
|  |  | SDL<\#> | SDL-\#14-HW5/16 secured <\#>-inch o.c. along the panel side laps |  |  |
|  |  | HS<\#> | Hilti S-SLC 01M fastener or equivalent fastener secured <\#>-inch o.c. along the panel side laps |  |  |
|  |  | W | 3/4-inch O.D. flat washer used with indicated fastener |  |  |

JOHNS MANVILLE CORPORATION

TECHNICAL SERVICES, LLC


| Name | Definition |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Fasteners \& Plates | Choose one of the following fastener and plate combinations for the given conditions: |  |  |  |
|  | Any | JM All Purpose Fastener, JM Structural Concrete Deck Fastener, Dekfast DF-\#14PH3, or Trufast \#14 HD Fastener | JM UltraFast Metal Plate (Square), UltraFast Plate Metal Flat, UltraFast Metal Plate (Round), or UltraFast Plate Metal Recessed | Concrete |
|  | Any | JM UltraFast Fastener, Trufast \#12 DP Fastener, Trufast \#14 HD Fastener, JM High Load Fastener, Dekfast DP-\#15-PH3, or Trufast \#15 EHD Fastener | JM UltraFast Metal Plate (Square), UltraFast Plate Metal Flat, UltraFast Metal Plate (Round), or UltraFast Plate Metal Recessed | Steel |
|  | Any | JM UltraFast Fastener, Trufast \#12 DP Fastener, Dekfast DF-\#12-PH3, JM All Purpose Fastener, Dekfast DF-\#14-PH\#, JM High Load Fastener, Dekfast DF-\#15PH3, or Trufast \#15 EHD Fastener | JM UltraFast Metal Plate (Square), UltraFast Plate Metal Flat, UltraFast Metal Plate (Round), or UltraFast Plate Metal Recessed | Plywood |
|  | Any | Dekfast DF-\#14-PH3 | Dekfast PLT-R-3 | Concrete |
|  | Any | Dekfast DF-\#12-PH3 or Dekfast DP-\#15PH3 | Dekfast PLT-R-3 | Steel |
|  | Any | Dekfast DF-\#12-PH3, Dekfast DF-\#14PH\#, or Dekfast DF-\#15-PH3 | Dekfast PLT-R-3 | Plywood |
|  | Any | JM All Purpose Fastener, JM Structural Concrete Deck Fastener, or Trufast \#14 HD Fastener | Trufast 3" Metal Insulation Plates | Concrete |
|  | ENRGY 3, SeparatoR CGF, DensDeck Prime, DEXcell FA, or SECUROCK | JM UltraFast Fastener or JM High Load Fastener | Trufast 3" Metal Insulation Plates | Steel |
|  | ENRGY 3, SeparatoR CGF, DensDeck Prime, DEXcell FA, or SECUROCK | JM UltraFast Fastener, JM All Purpose Fastener or JM High Load Fastener | Trufast 3" Metal Insulation Plates | Plywood |
|  | Any | Trufast \#12 DP Fastener, Trufast \#14 HD Fastener, or Trufast \#15 EHD Fastener | Trufast 3" Metal Insulation Plates | Steel |
|  | Any | Trufast \#12 DP Fastener or Trufast \#15 EHD Fastener | Trufast 3" Metal Insulation Plates | Plywood |
| INSULATION | One of more layers in any <br> -Approved EPS board <br> -ENRGY 3 <br> -ENRGY 3 AGF <br> -ENRGY 3 CGF <br> -ENRGY 3 FR <br> -ENRGY 3 C1 <br> -ENRGY 3 C1 CGF | mbination of the following products: <br> -Fesco Board <br> -Fesco Foam <br> -Invinsa Roof Board <br> -Invinsa FR Roof Board <br> -ProtectoR Foam <br> -ProtectoR HD <br> -ProtectoR HD FR | -Retro-Fit Board <br> -RetroPlus Roof Board <br> -SECUROCK Glass-Mat Ro <br> -SECUROCK Gypsum-Fiber <br> -SeparatoR <br> -SeparatoR CGF <br> -SeparatoR FR | oard f Board |
| LVOC | JM LVOC Membrane Adhesive (TPO \& EPDM) |  |  |  |
| LWIC | Poured-in-place Cellular Lightweight Concrete with encapsulated insulation board |  |  |  |
| JMC22001.3 | FL41356-R3 Page 3 of 5 |  |  |  |

[^0]JOHNS MANVILLE CORPORATION

| Name | Definition |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MBA | JM Membrane Bonding Adhesive (TPO \& EPDM) |  |  |  |  |
| MCRF | Minimum Characteristic Resistance Force as determined by TAS 105 for the named fastener in the selected assembly |  |  |  |  |
| MDP | Maximum Design Pressure |  |  |  |  |
| OSFA | JM One-Step Foamable Adhesive |  |  |  |  |
| Preliminarily Secured | Fastened at minimum rate of 5 per $4 \mathrm{ft} \times 8 \mathrm{ft}$ board or 4 per $4 \mathrm{ft} \times 4 \mathrm{ft}$ board. |  |  |  |  |
| ProtectoR | JM ProtectoR HD or JM ProtectoR HD FR Roof Board |  |  |  |  |
| Recover | Where assemblies are used to recover an existing roof, the existing roof shall consist of only one layer of roofing, i.e. recovering a previously recovered roof is not permitted. Recover roofing shall be conducted in compliance with FBC Section 1511 outside of the HVHZ and FBC Section 1521 within the HVHZ. For mechanically fastened roof assemblies and induction welded assemblies, i.e. systems $x-M-\#$ and $x-W-\#$, the insulation layer is optional, or any INSULATION board or slip sheet may be used as separation layer prior to installing the approved roof assembly. |  |  |  |  |
| RSUA | JM Roofing System Urethane Adhesive |  |  |  |  |
| SECUROCK | Min. 1/4-inch JM SECUROCK Gypsum-Fiber Roof Board |  |  |  |  |
| TF | Trufast \#12 DP Fastener (Steel Deck or Wood Deck), Trufast \#14 HD Fastener (Concrete Deck, Steel Deck, or Wood Deck), or Trufast \#15 EHD Fasteners (Concrete Deck, Steel Deck or Wood Deck) with Trufast 3" Metal Insulation Plate |  |  |  |  |
| UF | JM UltraFast Fasteners (Steel Deck or Wood Deck), JM All Purpose Fasteners (Concrete Deck, Steel Deck, or Wood Deck), or JM High Load Fasteners (Wood Deck or Steel Deck) with JM UltraFast Metal Plate (Square), UltraFast Plate Metal Flat, UltraFast Metal Plate (Round), or UltraFast Plate Metal Recessed |  |  |  |  |
| UltraFast Fasteners \& Plates (Square) | JM UltraFast Fasteners (Steel Deck and Wood Deck), Trufast \#12 DP Fastener (Steel Deck), JM All Purpose Fasteners (Concrete Deck), or Trufast \#14 HD Fasteners (Concrete Deck) and UltraFast Metal Plate (Square) or UltraFast Plate Metal Flat |  |  |  |  |
| Vapor Barrier | Any Approved vapor barrier |  |  |  |  |
| Vapor Barriers for Adhered Assemblies over Concrete Deck | One of the following options may be utilized as allowed by the Approved Assembly. The MDP shall be limited to the lesser of rating of the Approved Assembly and the MDP for the chosen vapor barrier. |  |  |  |  |
|  | Primer | Vapor Barrier | VB Application | Insulation Adhesive | DP (psf) |
|  | None | DynaBase HW | Torch adhered | OSFA 12-inch o.c. | -172.5 |
|  | None | DynaBase HW | Torch adhered | 2-Part UIA 12-inch o.c. | -135 |
|  | ASTM D 41 | DynaBase HW | Torch adhered | 2-Part UIA 12-inch o.c. | -172.5 |
|  | None | DynaBase HW | Torch adhered | $R S U A$ 12-inch o.c. | -195 |
|  | ASTM D 41 | DynaGrip Base SD/SA | Self-adhered | OSFA 12-inch o.c. | -90 |
|  | ASTM D 41 | DynaGrip Base SD/SA | Self-adhered | 2-Part UIA 12-inch o.c. | -97.5 |
|  | ASTM D 41 | DynaGrip Base SD/SA | Self-adhered | $R S \cup A$ 12-inch o.c. | -82.5 |
|  | ASTM D 41 | DynaGrip Base PR SD/SA | Self-adhered | $R S \cup A$ 12-inch o.c. | -202.5 |
|  | ASTM D 41 | DynaGrip Base PR SD/SA | Self-adhered | 2-Part UIA 12-inch 0.c | -262.5 |
|  | None | DynaLastic 180 S, DynaLastic 250 S, DynaFast 180 S, or DynaBase PR; Laps sealed with DynaSet 1k | DynaSet 1k 12-inch o.c. | OSFA, 2-Part UIA, or RSUA 12-inch o.c. | -232.5 |
|  | None | DynaLastic 180 S, DynaLastic 250 S, DynaFast 180 S, or DynaBase PR; Laps sealed with DynaSet 1k | DynaSet 1k 12-inch o.c. | ASTM D 312, Type IV Asphalt | -337.5 |
|  | None | DynaLastic 180 S, DynaLastic 250 S, DynaFast 180 S, or DynaBase PR; Laps sealed with DynaSet $2 k$ | DynaSet 2k 12-inch o.c. | OSFA, 2-Part UIA, or RSUA 12-inch o.c. | -97.5 |
|  | None | DynaLastic 180 S, DynaLastic 250 S, DynaFast 180 S, or DynaBase PR; Laps sealed with DynaSet 2k | DynaSet $2 k$ 12-inch o.c. | ASTM D 312, Type IV Asphalt | -75 |
|  | ASTM D 41 | DynaWeld Base | Torch adhered | OSFA 12-inch o.c. | -150 |

This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

| Name | Definition |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Vapor Barriers for Adhered Assemblies over Concrete Deck (Cont'd) | Primer | Vapor Barrier | VB Application | Insulation Adhesive | MDP (psf) |
|  | ASTM D 41 | DynaWeld Base | Torch adhered | 2-Part UIA 12-inch o.c. | -120 |
|  | ASTM D 41 | DynaWeld Base | Torch adhered | RSUA 12-inch o.c. | -285 |
|  | JM SA Primer Low VOC or SA Primer | JM Vapor Barrier SA or SAR | Self-adhered | OSFA or RSUA 12-inch o.c. | -135 |
|  | JM SA Primer Low VOC or SA Primer | JM Vapor Barrier SA or SAR | Self-adhered | 2-Part UIA 12-inch o.c. | -82.5 |
| WBMA | JM EPDM Water Based Membrane Adhesive |  |  |  |  |

## Approved Assemblies for JM EPDM Single-Ply Membranes

The following notes shall be observed when using the assembly tables below.
1 Allowable pressures were calculated using a 2:1 margin of safety per FBC Section 1504.9
2 Refer to Limitations and Nomenclature sections of this evaluation when using the table(s) below.
3 Refer to InSTALLATION section of this report for installation detail when the information is not explicitly stated for the selected assembly.
4 The on-center (o.c.) spacing given is the maximum allowable attachment spacing for the rated system.
5 JM Vapor Barrier SA or JM Vapor Barrier SAR may be installed direct to deck prior to installing the roof assembly components for the following assembly types: C-M-\#, C-W-\#, LC-M-\#, LC-W-\#, LS-M-\#, LS-W-\#, S-M-\#, S-W-\#, W-M-\#, and W-W-\#
6 As Tested information for roof deck construction is provided for information only. The addition of the As Tested deck information does not obviate the requirement for rational design of the roof deck and roof deck attachment in accordance with FBC requirements.
7 Base Insulation in assemblies with All Layers Adhered may be installed in one or more layers.

| Assembly System Numbers and Definitions |  |
| :--- | :--- |
| C-A-\# | Adhered Assemblies over Concrete Deck (New or Existing) |
| C-AM-\# | Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing, or Recover) |
| C-M-\# | Mechanically Fastened Assemblies over Concrete Deck (New, Existing, or Recover) |
| CW-A-\# | Adhered Assemblies over Cementitious Wood Fiber Decks (New or Existing) |
| CW-AM-\# | Assemblies with Adhered Membranes over Cementitious Wood Fiber Decks (New or Existing) |
| G-A-\# | Assemblies with All Layers Adhered over Gypsum Deck (New or Existing) |
| G-AM-\# | Assemblies with Adhered Membranes over Insulated Gypsum Deck (New or Existing) |
| LC-AM-\# | Lightweight Concrete Assemblies with Adhered Membranes over Concrete Deck (New or Existing) |
| LS-AM-\# | Lightweight Concrete Assemblies with Adhered Membranes over Steel Deck (New or Existing) |
| R-A-\# | Adhered Recover Assemblies |
| R-M-\# | Mechanically Fastened Recover Assemblies |
| S-A-\# | Adhered Assemblies over Steel Deck (New or Existing) |
| S-AM-\# | Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover) |
| S-M-\# | Mechanically Fastened Assemblies over Steel Deck (New, Existing or Recover) |
| W-A-\# | Adhered Assemblies over Wood Deck (New or Existing) |
| $\underline{\text { W-AM-\# }}$ | Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing, or Recover) |


| Adhered Assemblies over Concrete Deck (New or Existing) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Vapor Barrier | Base Insulation (Note 7) | Top Insulation | Membrane | Membrane Attachment | MDP <br> (psf) |
| C-A-1 | OPTIONAL <br> Vapor Barriers for Adhered Assemblies over Concrete Deck | OPTIONAL <br> Min. 0.5-inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12 -inch o.c. | ProtectoR HD in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | WBMA | $\stackrel{-60}{(\text { Lim. 9) }}$ |
| C-A-2 | OPTIONAL Vapor Barriers for Adhered Assemblies ver Concrete Deck | OPTIONAL Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | Invinsa in OSFA applied 12 -inch o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \\ \hline \end{gathered}$ | ASBA | $\begin{gathered} -142.5 \\ (\text { Lim. 9) } \end{gathered}$ |
| C-A-3 | Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch ENRGY 3 in 2-Part UIA applied 12 -inch o.c. | - | $\begin{gathered} E P D M N R, \\ E P D M N R \text { FIT, } \\ E P D M \text {, or } \\ E P D M R F I T \\ \hline \text { ГDNMAID } \end{gathered}$ | ASBA | $\begin{gathered} -142.5 \\ (\text { Lim. } 9) \end{gathered}$ |
| C-A-4 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch ENRGY 3 in 2-Part UIA applied 12 -inch o.c. | - | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \\ \hline \end{gathered}$ | WBMA | $\begin{gathered} -165 \\ (\text { Lim. } 9) \end{gathered}$ |
| C-A-5 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | OPTIONAL Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | DEXCell FA in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \end{gathered}$ | WBMA | $\stackrel{-165}{(\operatorname{Lim} .9)}$ |
| C-A-6 |  | OPTIONAL <br> Min. 0.5-inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | Invinsa in OSFA applied 12-inch o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \\ \hline \end{gathered}$ | WBMA | $\begin{gathered} -172.5 \\ (\text { Lim. } 9) \end{gathered}$ |
| C-A-7 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | - | SeparatoR CGF in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | WBMA | $\begin{aligned} & -172.5 \\ & \text { (Lim. } 9 \text { ) } \end{aligned}$ |
| C-A-8 |  | Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | SeparatoR CGF in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | WBMA | $\begin{aligned} & -172.5 \\ & (\text { Lim. 9) } \end{aligned}$ |
| C-A-9 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | OPTIONAL Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | DensDeck Prime or SECUROCK in 2-Part UIA, RSUA, or OSFA applied 12 -inch o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \\ \hline \end{gathered}$ | ASBA, MBA, LVOC, or WBMA | $\stackrel{-180}{(\operatorname{Lim} .9)}$ |
| C-A-10 | Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | Invinsa in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. |  | WBMA | $\begin{aligned} & -187.5 \\ & (\operatorname{Lim.~9)} \end{aligned}$ |


| Adhered Assemblies over Concrete Deck (New or Existing) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Vapor Barrier | Base Insulation (Note 7) | Top Insulation | Membrane | Membrane Attachment | $\begin{aligned} & M D P \\ & (\mathrm{psf}) \end{aligned}$ |
| C-A-11 | OPTIONAL <br> Vapor Barriers for Adhered Assemblies over Concrete Deck | OPTIONAL <br> Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12 -inch o.c. | DEXcell FA in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA | $\stackrel{-195}{(\text { Lim. 9) }}$ |
| C-A-12 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | OPTIONAL <br> Min. 0.5-inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | SeparatoR CGF, ProtectoR HD in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA | $\begin{gathered} -210 \\ (\operatorname{Lim} .9) \end{gathered}$ |
| C-A-13 | Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | SeparatoR CGF in WB2-Part UIA, RSUA, or OSFA applied 12 -inch o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \end{gathered}$ | WBMA | $\begin{gathered} -210 \\ (\text { Lim. 9) } \end{gathered}$ |
| C-A-14 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | - | SECUROCK in RSUA, or OSFA, or 2-Part UIA applied 12-inch o.c. | $\qquad$ | ASBA | $\begin{gathered} -210 \\ (\operatorname{Lim.~9)} \end{gathered}$ |
| C-A-15 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | OPTIONAL Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | DEXcell FA in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \end{gathered}$ | MBA or LVOC | $\begin{aligned} & -217.5 \\ & (\text { Lim. 9) } \end{aligned}$ |
| C-A-16 | Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | Invinsa in 2-Part UIA, RSUA, or OSFA applied 12 -inch o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \end{gathered}$ | ASBA | $\begin{aligned} & -217.5 \\ & (\text { Lim. } 9) \end{aligned}$ |
| C-A-17 | Vapor Adhered Assemblies over Concrete Deck | OPTIONAL Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | ProtectoR HD in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | MBA or LVOC | $\stackrel{-225}{(\text { Lim. } 9)}$ |
| C-A-18 | Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | Invinsa in 2-Part UIA, RSUA, or OSFA applied 12 -inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | MBA or LVOC | $\begin{aligned} & -232.5 \\ & (\text { Lim. } 9) \end{aligned}$ |
| C-A-19 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12 -inch o.c. | SeparatoR CGF in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | $\qquad$ | MBA or LVOC | $\begin{aligned} & -247.5 \\ & (\text { Lim. 9) } \end{aligned}$ |
| C-A-20 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | Invinsa in OSFA applied 12-inch o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ E P D M \text {, or } \\ \text { EPDM R FIT } \end{gathered}$ | MBA or LVOC | $\begin{aligned} & -247.5 \\ & (\text { Lim. } 9) \end{aligned}$ |


| Adhered Assemblies over Concrete Deck (New or Existing) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Vapor Barrier | Base Insulation (Note 7) | Top Insulation | Membrane | Membrane Attachment | MDP <br> (psf) |
| C-A-21 | OPTIONAL <br> Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch E3 in 2-Part UIA applied 12-inch o.c. | - | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | MBA or LVOC | $\begin{gathered} -315 \\ (\text { Lim. 9) } \end{gathered}$ |
| C-A-22 | OPTIONAL <br> Vapor Barriers for Adhered Assemblies over Concrete Deck | - | SeparatoR CGF in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | MBA or LVOC | $\begin{gathered} -330 \\ \text { (Lim. 9) } \end{gathered}$ |
| C-A-23 | OPTIONAL <br> Vapor Barriers for Adhered Assemblies over Concrete Deck | - | Invinsa in OSFA applied 12 -inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | MBA or LVOC | $\begin{gathered} -465 \\ (\text { Lim. 9) } \end{gathered}$ |
| C-A-24 | OPTIONAL <br> Vapor Barriers for Adhered Assemblies over Concrete Deck | - | SECUROCK in RSUA, or OSFA, or 2-Part UIA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | MBA or LVOC | $\begin{gathered} -495 \\ (\text { Lim. 9) } \end{gathered}$ |


| Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing, or Recover) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Base Sheet | Top Insulation or Base Sheet Attachment | Membrane | Membrane Attachment | $\begin{aligned} & \text { MDP } \\ & \text { (psf) } \end{aligned}$ |
| C-AM-1 | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 1-inch ENRGY 3 CGF | UltraFast Fasteners \& Plates (Square) secured 1 fastener per $4 \mathrm{ft}^{2}$ | EPDM NR, <br> EPDM NR FIT, <br> EPDM R, or <br> EPDM R FIT <br> EPD | ASBA, MBA, LVOC, or WBMA |  |
| C-AM-2 | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch ENRGY 3 CGF | Fasteners \& Plates secured 15 per 4-ft x 8-ft board | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA |  |
| C-AM-3 | Optional Vapor Barrier | OPTIONAL INSULATION under Min. $0.5-\mathrm{inch}$ E3 or E3 C1 | Simultaneously secured with top layer | ProtectoR | Fasteners \& Plates secured 1 fastener per $4 \mathrm{ft}^{2}$ | Min. 60mil EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{gathered} -37.5 \\ \text { (Lim. 7; } \\ \text { Non- } \\ \text { HVHZZ) } \end{gathered}$ |
| C-AM-4 | Optional Vapor Barrier | OPTIONAL INSULATION under Min. 1.5-inch E3 or E3 C1 | Simultaneously secured with top layer | DensDeck Prime | Fasteners \& Plates secured 12 per 4-ft x 8-ft board Pattern \#2 | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{aligned} & -37.5 \\ & \text { (Lim. } 7 \text {; } \\ & \text { Non- } \\ & \text { HVHZ) } \end{aligned}$ |


| Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing, or Recover) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Base Sheet | Top Insulation or Base Sheet Attachment | Membrane | Membrane Attachment | MDP (psf) |
| C-AM-5 | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 1.5-inch E3 or E3 C1 | Fasteners \& Plates secured 1 fastener per $2.67 \mathrm{ft}^{2}$ |  | ASBA, MBA, LVOC, or WBMA |  |
| C-AM-6 | Optional Vapor Barrier | OPTIONAL INSULATION under Min. 0.5 -inch E3 or E3 C1 | Simultaneously secured with top layer | Invinsa or Min. 0.5-inch SECUROCK | Fasteners \& Plates secured 1 fastener per $2 \mathrm{ft}^{2}$ | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{aligned} & \text {-45 } \\ & \text { (Lim. 7; } \\ & \text { Non- } \\ & \text { HVHZ) } \end{aligned}$ |
| C-AM-7 | Optional Vapor Barrier | Min. 1.5-inch E3 or E3 C1 | Fasteners \& Plates secured 1 fastener per $2.67 \mathrm{ft}^{2}$ | DensDeck Prime over OPTIONAL layer of Min. 1.5 -inch E3 or E3 C1 | 2-Part UIA, OSFA, or RSUA applied 12" o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{aligned} & \text {-45 } \\ & \text { (Lim. 7; } \\ & \text { Non- } \\ & \text { HVHZZ) } \end{aligned}$ |
| C-AM-8 | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch ENRGY 3 CGF | UltraFast Fasteners \& Plates (Square) secured 12 per 4-ft x 8-ft board Pattern \#1 | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{gathered} -45 \\ (\text { Lim. } 7 \text { ) } \end{gathered}$ |
| C-AM-9 | Optional Vapor Barrier | OPTIONAL INSULATION under Min. 1.5-inch E3 or E3 C1 | Simultaneously secured with top layer | Min. 0.5 -inch DensDeck Prime | DF or TF secured <br> 1 fastener per $4 \mathrm{ft}^{2}$ | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \end{gathered}$ | ASBA, MBA, LVOC, or WBMA | $\begin{aligned} & -45 \\ & \text { (Lim. } 7 \text {; } \\ & \text { Non- } \\ & \text { HVHZZ) } \end{aligned}$ |
| C-AM-10 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under <br> Min. 1.5-inch E3 or E3 C1 | Simultaneously secured with top layer | ProtectoR | Fasteners \& Plates secured 1 fastener per $4 \mathrm{ft}^{2}$ | Min. 60 mil EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{gathered} \text {-45 } \\ \text { (Lim. 7; } \\ \text { Non- } \\ \text { HVHZ) } \end{gathered}$ |
| C-AM-11 | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch ENRGY 3 or ENRGY 3 C1 | Fasteners \& Plates secured 1 fastener per $1.6 \mathrm{ft}^{2}$ | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \\ \hline \end{gathered}$ | WBMA | $\stackrel{-60}{(\text { Lim. 7) }}$ |
| C-AM-12 | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | $\begin{gathered} \text { Min. 2-inch } \\ \text { ENRGY 3 CGF } \\ \text { or ENRGY } 3 \text { C1 } \\ \text { CGF } \end{gathered}$ | Fasteners \& Plates secured 1 fastener per $1.6 \mathrm{ft}^{2}$ | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | WBMA | $\begin{gathered} -75 \\ \text { (Lim. 7) } \end{gathered}$ |
| C-AM-13 | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch E3 or E3 C1 | Fasteners \& Plates secured 1 fastener per $1.6 \mathrm{ft}^{2}$ | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \\ \hline \end{gathered}$ | ASBA, MBA, LVOC, or WBMA | $\begin{gathered} -75 \\ \text { (Lim. 7) } \end{gathered}$ |


| Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing, or Recover) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Base Sheet | Top Insulation or Base Sheet Attachment | Membrane | Membrane Attachment | $\begin{aligned} & M D P \\ & (\mathrm{psf}) \end{aligned}$ |
| C-AM-14 | Optional Vapor Barrier | Min. 2-inch E3 or E3 C1 | Fasteners \& Plates secured 1 fastener per $1 \mathrm{ft}^{2}$ | Min. 1.5-inch ENRGY 3 | 2-Part UIA, OSFA, or RSUA applied 4" o.c. |  | ASBA, MBA, LVOC, or WBMA | $\begin{gathered} -82.5 \\ (\text { Lim. 7) } \end{gathered}$ |
| C-AM-15 | Optional Vapor Barrier | Min. 2-inch E3 or E3 C1 | Fasteners \& Plates secured 1 fastener per $1.6 \mathrm{ft}^{2}$ | Min. 1.5-inch E3 or E3 C1 | 2-Part UIA, OSFA, or RSUA applied 6" o.c. | $\begin{gathered} E P D M \text { NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \\ \hline \end{gathered}$ | ASBA, MBA, LVOC, or WBMA | $\begin{gathered} -82.5 \\ (\text { Lim. } 7) \end{gathered}$ |
| C-AM-16 | Optional Vapor Barrier | Min. 2-inch E3 or E3 C1 | Fasteners \& Plates secured 1 fastener per $1.6 \mathrm{ft}^{2}$ | ProtectoR HD, or Min 0.5-inch DEXcell FA, SECUROCK, or DensDeck Prime | 2-Part UIA, OSFA, or RSUA applied 6" o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{gathered} -82.5 \\ (\text { Lim. } 7) \end{gathered}$ |
| C-AM-17 | Optional Vapor Barrier | $\begin{aligned} & \text { Min. 2-inch } \\ & E 3 \end{aligned}$ | Fasteners \& Plates secured 1 fastener per $1 \mathrm{ft}^{2}$ | Min. 1.5-inch ENRGY 3 | 2-Part UIA or RSUA applied 6" o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \\ \hline \end{gathered}$ | ASBA, MBA, LVOC, or WBMA | $\begin{aligned} & -90 \\ & (\text { Lim. 7) } \end{aligned}$ |
| C-AM-18 | Optional Vapor Barrier | OPTIONAL insulation under <br> Min. 1.5-inch <br> E3 or E3 C1 | Simultaneously secured with top layer | Min. 0.5 -inch SECUROCK | Fasteners \& Plates secured 1 fastener per $1 \mathrm{ft}^{2}$ | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | WBMA | $\begin{gathered} -105 \\ (\text { Lim. 7) } \end{gathered}$ |
| C-AM-19 | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch ENRGY 3 CGF or ENRGY 3 C1 CGF | Fasteners \& Plates secured 1 fastener per $1 \mathrm{ft}^{2}$ | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \\ \hline \end{gathered}$ | WBMA | $\begin{gathered} -120 \\ (\text { Lim. 7) } \end{gathered}$ |
| C-AM-20 | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch E3 or E3 C1 | Fasteners \& Plates secured 1 fastener per $1 \mathrm{ft}^{2}$ | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA or LVOC | $\begin{gathered} -120 \\ (\text { Lim. 7) } \end{gathered}$ |
| C-AM-21 | Optional Vapor Barrier | Min. 2-inch <br> E3 or E3 C1 | Fasteners \& Plates secured 1 fastener per $1 \mathrm{ft}^{2}$ | ProtectoR HD | 2-Part UIA, OSFA, or RSUA applied 4" o.c. |  | ASBA, MBA, LVOC, or WBMA | $\stackrel{-120}{(\text { Lim. } 7)}$ |
| C-AM-22 | Optional Vapor Barrier | Min. 2-inch E3 or E3 C1 | Fasteners \& Plates secured 1 fastener per $1 \mathrm{ft}^{2}$ | Min. 1.5-inch ENRGY 3 | 2-Part UIA, OSFA, or RSUA applied 4" o.c. |  | ASBA | $\begin{aligned} & -127.5 \\ & (\operatorname{Lim} .7) \end{aligned}$ |

[^1]| Mechanically Fastened Assemblies over Concrete Deck (New or Existing) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System <br> No. | Base <br> Insulation | Base Insulation <br> Attachment | Top Insulation | Top Insulation <br> Attachment | Membrane | Membrane Attachment |  |
| C-M-1 | OPTIONAL <br> INSULATION <br> under min. <br> 1.5-inch E3 | Preliminarily Secured <br> or secured with top <br> layer | OPTIONAL <br> Cover Board | Preliminarily Secured | EPDM R |  <br> Plates with High Load Fasteners spaced <br> 6" o.c.; Laps spaced 114-inch o.c. | -45 <br> (Lim. 7) |


| Assemblies with Adhered Membranes over Cementitious Wood Fiber Deck (New or Existing) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Base Insulation/Sheet Base Insulation/Sheet Attachment | Insulation | Cover Board | Membrane | Membrane Attachment | $\begin{aligned} & M D P \\ & \text { (psf) } \end{aligned}$ |
| CW-AM-1 | DynaBase or Ventsulation Felt secured with JM UltraLok Fasteners spaced 9-inch o.c. at the min. 4 -inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll | - | Min. 2-inch ENRGY 3 or ENRGY 3 CGF adhered in RSUA applied 12 -inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{aligned} & \text {-30 } \\ & \text { (Lim. 7; } \\ & \text { Non- } \\ & \text { HVHZ) } \end{aligned}$ |
| CW-AM-2 | DynaBase or Ventsulation Felt secured with JM UltraLok <br> Fasteners spaced 9-inch o.c. at the min. 2 -inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll | - | Min. 0.5 -inch <br> E3, E3 C1, SeparatoR, or SeparatoR CGF adhered in 2-Part UIA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{aligned} & \text {-45 } \\ & \text { (Lim. } 7 \text {; } \\ & \text { Non- } \\ & \text { HVHZ) } \end{aligned}$ |
| CW-AM-3 | DynaBase or Ventsulation Felt secured with JM UltraLok <br> Fasteners spaced 9-inch o.c. at the min. 2 -inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll | - | DensDeck Prime, Invinsa, ProtectoR HD, or SECUROCK adhered in 2-Part UIA applied 12 -inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{aligned} & \text {-45 } \\ & \text { (Lim. 7; } \\ & \text { Non- } \\ & \text { HVHZ) } \end{aligned}$ |
| CW-AM-4 | DynaBase or Ventsulation Felt secured with JM UltraLok <br> Fasteners spaced 9-inch o.c. at the min. 2 -inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll | Min. 0.5-inch E3 or E3 C1 adhered in 2-Part UIA applied 12-inch o.c. | SeparatoR CGF adhered in 2-Part UIA or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA |  |
| CW-AM-5 | DynaBase or Ventsulation Felt secured with JM UltraLok <br> Fasteners spaced 9-inch o.c. at the min. 2 -inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll | Min. 0.5-inch E3 or E3 C1 adhered in 2-Part UIA applied 12-inch o.c. | DEXcell $F A$ adhered in RSUA or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{aligned} & \text {-45 } \\ & \text { (Lim. } 7 \text {; } \\ & \text { Non- } \\ & \text { HVHZ) } \end{aligned}$ |

[^2]| Assemblies with Adhered Membranes over Cementitious Wood Fiber Deck (New or Existing) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Base Insulation/Sheet Base Insulation/Sheet Attachment | Insulation | Cover Board | Membrane | Membrane Attachment | $\begin{aligned} & M D P \\ & \text { (psf) } \end{aligned}$ |
| CW-AM-6 | DynaBase or Ventsulation Felt secured with JM UltraLok <br> Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18-inch o.c. in two staggered rows in the field of the roll | Min. 0.5-inch E3 or E3 C1 adhered in 2-Part UIA applied 12-inch o.c. | DensDeck Prime, Invinsa, ProtectoR HD, or SECUROCK adhered in 2-Part UIA, RSUA or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA |  |


| Assemblies with All Layers Adhered over Gypsum Deck (New or Existing) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Vapor Barrier | Base Insulation (Note 7) | Cover Board | Membrane | Membrane Attachment | $\begin{aligned} & \hline M D P \\ & \text { (psf) } \\ & \hline \end{aligned}$ |
| G-A-1 | OPTIONAL <br> GlasPly IV, GlasPly Premier, PermaPly 28, or DynaBase in ASTM D 312, Type IV asphalt | OPTIONAL Min. 1.5-inch E3 adhered in 2-Part UIA applied 12-inch o.c. | ProtectoR HD adhered in 2-Part UIA, RSUA or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA |  |


| Assemblies with Adhered Membranes over Insulated Gypsum Deck (New or Existing) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Base Sheet | Insulation | Cover Board | Membrane | Membrane Attachment | $\begin{aligned} & \hline \text { MDP } \\ & \text { (psf) } \\ & \hline \end{aligned}$ |
| G-AM-1 | - | Min. 1.5-inch E3 attached with JM Polymer Auger <br> Fasteners and Plates ( $3^{\prime \prime}$ ) at a rate of 1 fastener per $2 \mathrm{ft}^{2}$ | - | EPDM NR, <br> EPDM NR FIT, <br> EPDM R, or <br> EPDM R FIT | ASBA, MBA, LVOC, or WBMA |  |
| G-AM-2 | DynaBase or Ventsulation Felt secured with JM UltraLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18 -inch o.c. in two staggered rows in the field of the roll | Min. 0.5-inch E3 or E3 C1 adhered in 2-Part UIA applied 12-inch o.c. | SeparatoR CGF adhered in 2-Part UIA or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA |  |
| G-AM-3 | DynaBase or Ventsulation Felt secured with JM UltraLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18 -inch o.c. in two staggered rows in the field of the roll | Min. 0.5-inch E3 or E3 C1 adhered in 2-Part UIA applied 12-inch o.c. | DEXcell FA adhered in RSUA or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA |  |


| Assemblies with Adhered Membranes over Insulated Gypsum Deck (New or Existing) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Base Sheet | Insulation | Cover Board | Membrane | Membrane Attachment | $\begin{aligned} & \hline M D P \\ & \text { (psf) } \\ & \hline \end{aligned}$ |
| G-AM-4 | DynaBase or Ventsulation Felt secured with JM UltraLok Fasteners spaced 9-inch o.c. at the min. 2-inch wide laps and 18 -inch o.c. in two staggered rows in the field of the roll | Min. 0.5-inch <br> E3 or E3 C1 adhered in 2-Part UIA applied 12-inch o.c. | DensDeck Prime, Invinsa, ProtectoR HD, or SECUROCK adhered in 2-Part UIA, RSUA or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{aligned} & \text {-45 } \\ & \text { (Lim. } 7 \text {; } \\ & \text { Non- } \\ & \text { HVHZ) } \end{aligned}$ |


| Lightweight Concrete Assemblies with Adhered Membranes over Concrete Deck (New or Existing) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | LWIC | Base Sheet | Insulation | Cover Board | Membrane | $\begin{aligned} & \hline M D P \\ & (\mathrm{psf}) \\ & \hline \end{aligned}$ |
| LC-AM-1 | Min. 350psi Celcore MF with HS Rheology Admixture | DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with min. 1.7-inch LWC CR Base Sheet <br> Fasteners secured 7-inch o.c. at the 3 -inch lap and 7 -inch o.c. in two (2) equally spaced staggered rows in the field | Min. 0.5-inch E3, E3 C1, SeparatoR, or SeparatoR CGF in 2-Part UIA applied 12-inch o.c. | SeparatoR CGF in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT adhered in $A S B A, M B A$, LVOC, or WBMA | $\begin{gathered} -45 \\ (\text { Lim. 7) } \end{gathered}$ |
| LC-AM-2 | Min. 350psi Celcore MF with HS Rheology Admixture | DynaLastic 180 S, GlasBase <br> Plus, or Ventsulation Felt secured with min. 1.7-inch LWC CR Base Sheet <br> Fasteners secured 7-inch o.c. at the 3 -inch lap and 7 -inch o.c. in two (2) equally spaced staggered rows in the field | Min. 0.5-inch E3, E3 C1, SeparatoR, or SeparatoR CGF in <br> 2-Part UIA applied 12-inch o.c. | DEXcell $F A$ in RSUA or OSFA applied 12 -inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT adhered in $A S B A, M B A$, LVOC, or WBMA | $\stackrel{-45}{(\text { Lim. } 7)}$ |
| LC-AM-3 | Min. 350psi Celcore MF with HS Rheology Admixture | DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with min. 1.7-inch LWC CR Base Sheet <br> Fasteners secured 7-inch o.c. at the 3 -inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field | Min. 0.5-inch E3, E3 C1, SeparatoR, or SeparatoR CGF in <br> 2-Part UIA applied 12 -inch o.c. | DensDeck Prime, SECUROCK, Invinsa, or ProtectoR HD in RSUA, 2-Part UIA, or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT adhered in ASBA, MBA, LVOC, or WBMA | $\begin{gathered} -45 \\ (\text { Lim. } 7 \text { ) } \end{gathered}$ |

[^3]| Lightweight Concrete Assemblies with Adhered Membranes over Steel Deck (New or Existing) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Deck Detail | LWIC | Base Sheet | Insulation | Cover Board | Membrane | $\begin{aligned} & \hline M D P \\ & \text { (psf) } \\ & \hline \end{aligned}$ |
| LS-AM-1 | $\begin{aligned} & \text { G33, P, } \\ & L 6, S 24 \end{aligned}$ | Min. 350psi Celcore <br> MF with HS <br> Rheology Admixture | DynaLastic 180 S, GlasBase <br> Plus, or Ventsulation Felt secured with min. 1.7-inch LWC CR Base Sheet <br> Fasteners secured 7 -inch o.c. at the 3 -inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field | Min. 0.5-inch E3, E3 C1, SeparatoR, or SeparatoR CGF in 2-Part UIA applied 12-inch o.c. | SeparatoR CGF in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT adhered in ASBA, MBA, LVOC, or WBMA | $\stackrel{-45}{(\text { Lim. } 7)}$ |
| LS-AM-2 | $\begin{aligned} & \text { G33, P, } \\ & L 6, S 24 \end{aligned}$ | Min. 350psi Celcore MF with HS Rheology Admixture | DynaLastic 180 S, GlasBase <br> Plus, or Ventsulation Felt secured with min. 1.7-inch LWC CR Base Sheet <br> Fasteners secured 7-inch o.c. at the 3 -inch lap and 7-inch o.c. in two (2) equally spaced staggered rows in the field | Min. 0.5-inch E3, E3 C1, SeparatoR, or SeparatoR CGF in 2-Part UIA applied 12-inch o.c. | DEXcell $F A$ in RSUA or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT adhered in ASBA, MBA, LVOC, or WBMA | $\stackrel{-45}{(\text { Lim. } 7)}$ |
| LS-AM-3 | $\begin{aligned} & \text { G33, P, } \\ & \text { L6, S24 } \end{aligned}$ | Min. 350psi Celcore <br> MF with HS <br> Rheology Admixture | DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with min. 1.7-inch LWC CR Base Sheet <br> Fasteners secured 7-inch o.c. at the 3 -inch lap and 7 -inch o.c. in two (2) equally spaced staggered rows in the field | Min. 0.5-inch E3, E3 C1, SeparatoR, or SeparatoR CGF in 2-Part UIA applied 12-inch o.c. | DensDeck Prime, SECUROCK, Invinsa, or ProtectoR HD in RSUA, 2-Part UIA, or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT adhered in ASBA, MBA, LVOC, or WBMA | $\stackrel{-45}{(\text { Lim. 7) }}$ |


| Adhered Recover Assemblies |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Existing Roof | Base Insulation (Note 7) | Top Insulation or Base Ply | Membrane | Membrane Attachment | $\begin{aligned} & M D P \\ & (\mathrm{psf}) \end{aligned}$ |
| R-A-1 | Granule Mod-Bit or BUR over Steel Deck, cementitious panel, gypsum, or treated wood | OPTIONAL <br> Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | SeparatoR CGF in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{gathered} -45 \\ \text { (Lim. 9) } \end{gathered}$ |
| R-A-2 | Granule Mod-Bit or BUR over gypsum | OPTIONAL <br> Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | ProtectoR HD, DEXcell FA, DensDeck Prime, or SECUROCK in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{gathered} -45 \\ (\text { Lim. 9) } \end{gathered}$ |


| Adhered Recover Assemblies |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Existing Roof | Base Insulation (Note 7) | Top Insulation or Base Ply | Membrane | Membrane Attachment | MDP <br> (psf) |
| R-A-3 | Smooth APP or SBS Mod-Bit, Granule Mod-Bit, or BUR over over Steel Deck, cementitious panel, gypsum, or treated wood | OPTIONAL <br> Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | DensDeck Prime in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{gathered} -45 \\ (\text { Lim. 9) } \end{gathered}$ |
| R-A-4 | Smooth APP or SBS Mod-Bit, Granule Mod-Bit, or BUR over over Steel Deck, cementitious panel, gypsum, or treated wood | OPTIONAL <br> Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | Invinsa in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{gathered} -45 \\ (\text { Lim. } 9) \end{gathered}$ |
| R-A-5 | Smooth APP or SBS <br> Mod-Bit, Granule Mod-Bit, or BUR over over Steel Deck, cementitious panel, gypsum, or treated wood | OPTIONAL <br> Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12 -inch o.c. | ProtectoR HD or SECUROCK in 2-Part UIA, RSUA, or OSFA applied 12 -inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, LVOC or WBMA | $\begin{gathered} -45 \\ \text { (Lim. 9) } \end{gathered}$ |
| R-A-6 | Smooth APP or SBS Mod-Bit, Granule Mod-Bit, or BUR over over Steel Deck, cementitious panel, gypsum, or treated wood | OPTIONAL <br> Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | DEXcell FA in RSUA or OSFA applied 12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, or LVOC | $\begin{gathered} -45 \\ (\text { Lim. 9) } \end{gathered}$ |
| R-A-7 | Granule Mod-Bit or BUR over Steel Deck or Concrete Deck | OPTIONAL <br> Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | ProtectoR HD in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \\ \hline \end{gathered}$ | WBMA | $\begin{gathered} -60 \\ (\operatorname{Lim} .9) \end{gathered}$ |
| R-A-8 | Granule Mod-Bit or BUR over Steel Deck, cementitious panel, or treated wood | OPTIONAL <br> Min. 0.5-inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | DEXcell FA, DensDeck Prime, or SECUROCK in 2-Part UIA, RSUA, or OSFA applied 12 -inch o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ E P D M R F I T \end{gathered}$ | ASBA, MBA, LVOC, or WBM | $\begin{gathered} -105 \\ (\text { Lim. 9) } \end{gathered}$ |
| R-A-9 | Smooth APP or SBS Mod-Bit, Granule Mod-Bit, or BUR over Concrete Deck | Min. 1.5-inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | DensDeck Prime in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \\ \hline \end{gathered}$ | ASBA, MBA,LVOC, or WBMA | $\begin{aligned} & -127.5 \\ & (\text { Lim. } 9) \end{aligned}$ |


| Adhered Recover Assemblies |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Existing Roof | Base Insulation (Note 7) | Top Insulation or Base Ply | Membrane | Membrane Attachment | MDP <br> (psf) |
| R-A-10 | Smooth APP or SBS Mod-Bit, Granule Mod-Bit, or BUR over Concrete Deck | Min. 1.5-inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | SECUROCK in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | EPDM NR EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, LVOC, or WBMA | $\begin{aligned} & -127.5 \\ & \text { (Lim. 9) } \end{aligned}$ |
| R-A-11 | Granule Mod-Bit or BUR over Concrete Deck | OPTIONAL <br> Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | DEXcell FA in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \\ \hline \end{gathered}$ | WBMA | $\begin{gathered} -165 \\ (\text { Lim. 9) } \end{gathered}$ |
| R-A-12 | Granule Mod-Bit or BUR over Concrete Deck | OPTIONAL <br> Min. 0.5-inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | SeparatoR CGF in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. |  | WBMA | $\begin{aligned} & -172.5 \\ & \text { (Lim. 9) } \end{aligned}$ |
| R-A-13 | Smooth APP or SBS <br> Mod-Bit, Granule Mod-Bit, or BUR over Concrete Deck | Min. 1.5-inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | Invinsa in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \\ \hline \end{gathered}$ | ASBA, MBA, LVOC, or WBMA | $\begin{aligned} & -172.5 \\ & \text { (Lim. 9) } \end{aligned}$ |
| R-A-14 | Smooth APP Mod-Bit, Granule Mod-Bit or BUR over Concrete Deck | OPTIONAL <br> Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | DensDeck Prime or SECUROCK in 2-Part UIA, RSUA, or OSFA applied 12 -inch o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \\ \hline \end{gathered}$ | ASBA, MBA, LVOC, or WBMA | $\stackrel{-180}{(\text { Lim. 9) }}$ |
| R-A-15 | Smooth APP or SBS Mod-Bit, Granule Mod-Bit, or BUR over Concrete Deck | Min. 1.5-inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | ProtectoR HD in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | $\begin{gathered} E P D M \text { NR, } \\ \text { EPDM NR FIT, } \\ E P D M \text {, or } \\ E P D M R F I T \\ \hline \text { PODOI } \end{gathered}$ | LVOC or WBMA | $\begin{aligned} & -187.5 \\ & \text { (Lim. 9) } \end{aligned}$ |
| R-A-16 | Smooth APP or SBS <br> Mod-Bit, Granule Mod-Bit, or BUR over Concrete Deck | Min. 1.5-inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | DEXcell $F A$ in RSUA or OSFA applied 12 -inch o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \end{gathered}$ | ASBA | $\begin{aligned} & -195 \\ & \text { (Lim. 9) } \end{aligned}$ |
| R-A-17 | Granule Mod-Bit or BUR over Concrete Deck | OPTIONAL <br> Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | ProtectoR HD in 2-Part UIA, RSUA, or OSFA applied 12 -inch o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \\ \hline \text { PDOD } \end{gathered}$ | ASBA | $\begin{aligned} & -210 \\ & \text { (Lim. 9) } \end{aligned}$ |
| R-A-18 | Smooth APP or SBS <br> Mod-Bit, Granule Mod-Bit, or BUR over Concrete Deck | Min. 1.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | SeparatoR CGF in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \\ \hline \end{gathered}$ | ASBA, LVOC, or WBMA | $\begin{aligned} & -210 \\ & (\text { Lim. 9) } \end{aligned}$ |
| R-A-19 | Granule Mod-Bit or BUR over Concrete Deck | OPTIONAL <br> Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | DEXcell FA in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \\ \hline \end{gathered}$ | ASBA | $\begin{aligned} & -217.5 \\ & \text { (Lim. 9) } \end{aligned}$ |


| Adhered Recover Assemblies |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Existing Roof | Base Insulation (Note 7) | Top Insulation or Base Ply | Membrane | Membrane Attachment | MDP <br> (psf) |
| R-A-20 | Granule Mod-Bit or BUR over Concrete Deck | OPTIONAL Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | DEXcell FA in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. |  | MBA or LVOC | $\begin{aligned} & -217.5 \\ & \text { (Lim. 9) } \end{aligned}$ |
| R-A-21 | Granule Mod-Bit or BUR over Concrete Deck | OPTIONAL <br> Min. 0.5-inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | ProtectoR HD in 2-Part UIA, RSUA, or OSFA applied 12 -inch o.c. | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ E P D M \text {, or } \\ \text { EPDM R FIT } \end{gathered}$ | MBA or LVOC | $\begin{aligned} & -225 \\ & \text { (Lim. 9) } \end{aligned}$ |
| R-A-22 | Granule Mod-Bit or BUR over Concrete Deck | Min. 0.5 -inch ENRGY 3 in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | SeparatoR CGF in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. |  | MBA or LVOC | $\begin{aligned} & -247.5 \\ & \text { (Lim. 9) } \end{aligned}$ |
| R-A-23 | Granule Mod-Bit or BUR over Concrete Deck | - | SeparatoR CGF in 2-Part UIA, RSUA, or OSFA applied 12-inch o.c. | EPDM NR EPDM NR FIT, EPDM R, or EPDM R FIT | MBA or LVOC | $\begin{aligned} & -315 \\ & \text { (Lim. 9) } \end{aligned}$ |


| Mechanically Fastened Recover Assemblies |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Deck Detail | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | $\begin{aligned} & M D P \\ & \text { (psf) } \end{aligned}$ |
| R-M-1 | Existing Metal Roof over Min. 16ga. steel purlins | OPTIONAL INSULATION under Min. 1-inch E3 or E3 C1 | Preliminarily Secured or secured with top layer | Cover Board or Min. 1-inch E3 or E3 C1 | Preliminarily Secured | $\begin{gathered} \text { EPDM R or } \\ \text { EPDM R } \\ \text { FIT } \end{gathered}$ | Attached in-lap with JM Purlin Fasteners installed <br> 12-inch o.c. along the Polymer Membrane Batten through existing roof into purlins; Laps spaced 114-inch o.c.; Min. 6-inch wide laps sealed with min . 3-inch wide seam tape |  |
| R-M-2 | Existing Metal Roof over Min. 16ga. steel purlins | OPTIONAL INSULATION under Min. 1-inch E3 or E3 C1 | Preliminarily Secured or secured with top layer | Cover Board or Min. 1-inch E3 or E3 C1 | Preliminarily Secured | EPDM NR or EPDM NR FIT 60 or 90 | Attached with JM Purlin Fasteners installed 6-inch o.c. along the Polymer Membrane Batten through the membrane in the field (not in the lap); Battens spaced 72 -inch o.c.; Battens covered with JM EPDM Peel \& Stick Sealing Strip | $\begin{gathered} -37.5 \\ \text { (Lim. } 7 \text {; } \\ \text { Non- } \\ \text { HVHZ) } \end{gathered}$ |

[^4]| Mechanically Fastened Recover Assemblies |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Deck Detail | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | $\begin{aligned} & \text { MDP } \\ & \text { (psf) } \end{aligned}$ |
| R-M-3 | Existing Metal Roof over Min. 16 ga . steel purlins | OPTIONAL INSULATION under Min. 1-inch E3 or E3 C1 | Preliminarily Secured or secured with top layer | Cover Board or Min. 1-inch E3 or E3 C1 | Preliminarily Secured | $\begin{gathered} E P D M R \text { or } \\ E P D M R \\ \text { FIT } \end{gathered}$ | Attached in-lap with JM Purlin Fasteners installed <br> 12-inch o.c. along the Polymer Membrane Batten through existing roof into purlins; Laps spaced 114-inch o.c.; Min. 6-inch wide laps sealed with min. 3-inch wide seam tape; JM EPDM 10" RPS attached with JM Purlin Fasteners installed 12-inch o.c. along the Polymer Membrane Batten through existing roof into purlins; JM EPDM 10" RPS spaced 114 -inch o.c. and centered between laps; <br> Membrane adhered to JM EPDM 10" RPS | $\stackrel{-45}{(\text { Lim. } 7)}$ |
| R-M-4 | Existing Metal Roof over Min. 16 ga . steel purlins | OPTIONAL INSULATION under Min. 1-inch E3 or E3 C1 | Preliminarily Secured or secured with top layer | Cover Board or Min. 1-inch E3 or E3 C1 | Preliminarily Secured | $\begin{gathered} E P D M R \text { or } \\ E P D M R \\ \text { FIT } \end{gathered}$ | Attached in-lap with JM Purlin Fasteners installed <br> 6 -inch o.c. along the Polymer Membrane Batten or with High Load Plates through existing roof into purlins; Laps spaced 114-inch o.c.; Min. 6-inch wide laps sealed with min. 3-inch wide seam tape | $\begin{gathered} -45 \\ (\text { Lim. } 7) \end{gathered}$ |
| R-M-5 | Existing Metal Roof over Min. 16 ga . steel purlins | OPTIONAL <br> INSULATION under <br> Min. 1-inch E3 or E3 C1 | Preliminarily Secured or secured with top layer | Cover Board or Min. 1-inch E3 or E3 C1 | Preliminarily Secured | $\begin{gathered} \text { EPDM } R \text { or } \\ E P D M R \\ \text { FIT } \end{gathered}$ | JM EPDM 10" RPS attached with JM Purlin Fasteners and High Load Plates installed 6-inch o.c. through existing roof into purlins; JM EPDM 10" RPS spaced 114-inch o.c.; Membrane adhered to JM EPDM 10" RPS | $\begin{gathered} -52.5 \\ (\text { Lim. } 7) \end{gathered}$ |

[^5]| Adhered Assemblies over Steel Deck (New or Existing) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Deck | Vapor Barrier | Base Insulation (Note 7) | Middle Insulation | Top Insulation/ Cover Board | Membrane | Membrane Attachment | $\begin{aligned} & \text { MDP } \\ & \text { (psf) } \end{aligned}$ |
| S-A-1 | G33 | Optional JM Vapor Barrier SA | Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF applied in 2-Part UIA or RSUA spaced12-inch o.c. | OPTIONAL <br> Min. 1-inch ENRGY 3 or ENRGY 3 CGF applied in 2-Part UIA or RSUA spaced12-inch o.c. | Min. 1-inch ENRGY 3 or ENRGY 3 CGF applied in 2-Part UIA or RSUA spaced12-inch o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{aligned} & -45 \\ & \text { (Lim. } 9 \text {; } \\ & \text { Non- } \\ & \text { HVHZ) } \end{aligned}$ |
| S-A-2 | G33 | Optional JM Vapor Barrier SA | Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF applied in 2-Part UIA or RSUA spaced 12 -inch o.c. | OPTIONAL <br> Min. 1-inch ENRGY 3 or ENRGY 3 CGF applied in 2-Part UIA or RSUA spaced12-inch o.c. | DensDeck Prime applied in 2-Part UIA, OSFA, or RSUA spaced 12" o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{aligned} & -45 \\ & \text { (Lim. } 9 \text {; } \\ & \text { Non- } \\ & \text { HVHZ) } \end{aligned}$ |
| S-A-3 | G33 | Optional JM Vapor Barrier SA | Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF applied in 2-Part UIA or RSUA spaced 12 -inch o.c. | OPTIONAL <br> Min. 1-inch ENRGY 3 or ENRGY 3 CGF applied in 2-Part UIA or RSUA spaced12-inch o.c. | ProtectoR HD, DEXcell $F A$, <br> or SECUROCK applied in 2-Part UIA, OSFA, or RSUA spaced 12" o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | -45 (Lim. 9 ; NonHVHZ) |


| Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Deck <br> Detail | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | $\begin{aligned} & M D P \\ & \text { (psf) } \end{aligned}$ |
| S-AM-1 | G33 | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 1-inch <br> ENRGY 3 CGF | UltraFast Fasteners \& Plates (Square) secured 1 fastener per $4 \mathrm{ft}^{2}$ | $E P D M$ NR, <br> EPDM NR FIT, <br> EPDM R, or <br> EPDM R FIT | ASBA, MBA, LVOC, or WBMA |  |
| S-AM-2 | $\begin{aligned} & \text { G33, F1, } \\ & \text { L6, S24 } \end{aligned}$ | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch <br> ENRGY 3 CGF | Fasteners \& Plates secured 15 per 4-ft x 8-ft board | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA |  |
| S-AM-3 | G33 | Optional Vapor Barrier | OPTIONAL INSULATION under <br> Min. 0.5 -inch E3 or E3 C1 | Simultaneously secured with top layer | ProtectoR | Fasteners \& Plates secured 1 fastener per $4 \mathrm{ft}^{2}$ | Min. 60mil EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{aligned} & -37.5 \\ & \text { (Lim. } 7 \text {; } \\ & \text { Non- } \\ & \text { HVHZZ) } \end{aligned}$ |
| S-AM-4 | G33 | Optional Vapor Barrier | OPTIONAL INSULATION under Min. 1.5-inch E3 or E3 C1 | Simultaneously secured with top layer | DensDeck Prime | Fasteners \& Plates secured 12 per 4-ft x 8-ft board Pattern \#2 | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{gathered} -37.5 \\ \text { (Lim. } 7 \text {; } \\ \text { Non- } \\ \text { HVHZ) } \end{gathered}$ |
| S-AM-5 | G33 | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 1.5-inch E3 or E3 C1 | Fasteners \& Plates secured 1 fastener per $2.67 \mathrm{ft}^{2}$ | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA |  |

[^6]| Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Deck <br> Detail | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane <br> Attachment | $\begin{aligned} & M D P \\ & (\mathrm{psf}) \end{aligned}$ |
| S-AM-6 | G33 | Optional Vapor Barrier | OPTIONAL INSULATION under <br> Min. 0.5-inch <br> E3 or E3 C1 | Simultaneously secured with top layer | Invinsa or Min. 0.5-inch SECUROCK | Fasteners \& Plates secured 1 fastener per $2 \mathrm{ft}^{2}$ | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{aligned} & -45 \\ & \text { (Lim. 7; } \\ & \text { Non- } \\ & \text { HVHZ) } \end{aligned}$ |
| S-AM-7 | G33 | Optional Vapor Barrier | Min. 1.5-inch E3 or E3 C1 | Fasteners \& Plates secured 1 fastener per $2.67 \mathrm{ft}^{2}$ | DensDeck Prime over OPTIONAL layer of Min. 1.5-inch E3 or E3 C1 | 2-Part UIA, OSFA, or RSUA applied 12" o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{aligned} & \text {-45 } \\ & \text { (Lim. 7; } \\ & \text { Non- } \\ & \text { HVHZ) } \end{aligned}$ |
| S-AM-8 | G33 | Min. 0.5-inch DensDeck Prime secured with $D F$ or $T F$ at 1 fastener per 4 $\mathrm{ft}^{2}$ over OPTIONAL Vapor Barrier | Min. 1.5-inch ENRGY 3 | 2-Part UIA, OSFA, or RSUA applied 12" o.c. | OPTIONAL <br> ProtectoR HD, DEXcell FA, SECUROCK, or DensDeck Prime | 2-Part UIA, OSFA, or RSUA applied 12" o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{aligned} & \text {-45 } \\ & \text { (Lim. 7; } \\ & \text { Non- } \\ & \text { HVHZ) } \end{aligned}$ |
| S-AM-9 | G33 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under Min. 1.5-inch E3 or E3 C 1 | Simultaneously secured with top layer | ProtectoR | Fasteners \& Plates secured 1 fastener per $4 \mathrm{ft}^{2}$ | Min. 60 mil EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{aligned} & -45 \\ & \text { (Lim. 7; } \\ & \text { Non- } \\ & \text { HVHZ) } \end{aligned}$ |
| S-AM-10 | G33 | Optional Vapor Barrier | $\begin{aligned} & \text { Min. } 1.5 \text {-inch } \\ & E 3 \end{aligned}$ | Fasteners \& Plates secured 1 fastener per $2.67 \mathrm{ft}^{2}$ | $\begin{aligned} & \text { Min. 1-inch } \\ & E 3 \end{aligned}$ | 2-Part UIA or RSUA applied 12" o.c. | EPDM NR, <br> EPDM NR FIT, <br> EPDM R, or <br> EPDM R FIT | ASBA, MBA, LVOC, or WBMA |  |
| S-AM-11 | G33 | Optional Vapor Barrier | $\begin{aligned} & \text { Min. 2-inch } \\ & E 3 \end{aligned}$ | Fasteners \& Plates secured 1 fastener per $4 \mathrm{tt}^{2}$ | $\begin{aligned} & \text { Min. 1-inch } \\ & E 3 \end{aligned}$ | 2-Part UIA or RSUA applied 12" o.c. | EPDM NR, <br> EPDM NR FIT, <br> EPDM R, or <br> EPDM R FIT <br> EPD | ASBA, MBA, LVOC, or WBMA |  |
| S-AM-12 | $\begin{aligned} & \text { G33, F1, } \\ & \text { L6, S24 } \end{aligned}$ | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch ENRGY 3 CGF | UltraFast Fasteners \& Plates (Square) secured 12 per 4-ft x 8-ft board Pattern \#1 | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\stackrel{-45}{(\operatorname{Lim} .7)}$ |
| S-AM-13 | $\begin{gathered} \text { 22GA } \\ \text { Type N, } \\ \text { G80, } \\ \text { H1, L12, } \\ \text { HS24 } \end{gathered}$ | Optional Vapor Barrier | OPTIONAL insulation | Simultaneously secured with top layer | $\begin{aligned} & \text { Min. 2-inch } \\ & E 3 \end{aligned}$ | Fasteners \& Plates secured 16 per 4-ft x 8-ft board Type $N$ | $\begin{gathered} E P D M \text { NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ E P D M ~ R ~ F I T ~ \end{gathered}$ | ASBA, MBA, LVOC, or WBMA | $\stackrel{-45}{(\text { Lim. } 7)}$ |


| Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Deck <br> Detail | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane <br> Attachment | $\begin{aligned} & M D P \\ & (\mathrm{psf}) \end{aligned}$ |
| S-AM-14 | $\begin{aligned} & \text { G33, F1, } \\ & \text { L6, S24 } \end{aligned}$ | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch ENRGY 3 or ENRGY 3 C1 | Fasteners \& Plates secured 1 fastener per $1.6 \mathrm{ft}^{2}$ | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | WBMA | $\begin{gathered} -60 \\ (\text { Lim. 7) } \end{gathered}$ |
| S-AM-15 | $\begin{aligned} & \text { G33, F1, } \\ & \text { L6, S24 } \end{aligned}$ | JM Vapor Barrier SA or SAR adhered to min. 0.5-inch DEXcell FA secured with UF at 1 fastener per $2.0 \mathrm{ft}^{2}$ and primed with JM SA Primer Low VOC | Min. 1.5-inch ENRGY 3 | 2-Part UIA or RSUA applied 6 " o.c. | Min. 0.5-inch ProtectoR HD or DEXcell FA | 2-Part UIA, OSFA, or RSUA applied 6" o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\stackrel{-60}{(\operatorname{Lim} .7)}$ |
| S-AM-16 | $\begin{aligned} & \text { G33, F1, } \\ & \text { L6, S24 } \end{aligned}$ | DynaBase HW adhered to min. 0.5 -inch DEXcell FA secured with UF at 1 fastener per $2.0 \mathrm{ft}^{2}$ | Min. 1.5-inch ENRGY 3 | 2-Part UIA or RSUA applied 6 " o.c. | Min. 0.5-inch ProtectoR HD or DEXcell FA | 2-Part UIA, OSFA, or RSUA applied 6" o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\stackrel{-60}{(\operatorname{Lim} .7)}$ |
| S-AM-17 | $\begin{aligned} & \text { G33, F1, } \\ & \text { L6, S24 } \end{aligned}$ | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch ENRGY 3 CGF or ENRGY 3 C1 CGF | Fasteners \& Plates secured 1 fastener per $1.6 \mathrm{ft}^{2}$ | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | WBMA | $\stackrel{-75}{(\operatorname{Lim} .7)}$ |
| S-AM-18 | $\begin{aligned} & \text { G33, F1, } \\ & \text { L6, S24 } \end{aligned}$ | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch E3 or E3 C1 | Fasteners \& Plates secured 1 fastener per $1.6 \mathrm{ft}^{2}$ | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\stackrel{-75}{(\text { Lim. 7) }}$ |
| S-AM-19 | $\begin{aligned} & \text { G33, F2, } \\ & \text { L6, S18 } \end{aligned}$ | Optional Vapor Barrier | OPTIONAL INSULATION under Min. 1.5-inch E3 or E3 C1 | Simultaneously secured with top layer | Min. 0.5-inch SECUROCK | Fasteners \& Plates secured 1 fastener per $1 \mathrm{ft}^{2}$ | $E P D M$ NR, $E P D M$ NR FIT, $E P D M$ R, or $E P D M$ RIT | WBMA | $\begin{aligned} & -82.5 \\ & \text { (Lim. 7) } \end{aligned}$ |
| S-AM-20 | $\begin{aligned} & \text { G33, F2, } \\ & L 6, S 24 \end{aligned}$ | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch E3 or E3 C1 | Fasteners \& Plates secured 1 fastener per $1 \mathrm{ft}^{2}$ | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \\ \hline \end{gathered}$ | ASBA, MBA, LVOC, or WBMA | $\begin{aligned} & -82.5 \\ & \text { (Lim. 7) } \end{aligned}$ |

[^7]| Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Deck <br> Detail | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | $\begin{aligned} & \text { MDP } \\ & \text { (psf) } \end{aligned}$ |
| S-AM-21 | $\begin{aligned} & \text { G33, F2, } \\ & \text { L6, S24 } \end{aligned}$ | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | $\begin{gathered} \text { Min. 2-inch } \\ \text { ENRGY } 3 \text { CGF } \\ \text { or ENRGY } 3 \text { C1 } \\ \text { CGF } \\ \hline \end{gathered}$ | Fasteners \& Plates secured 1 fastener per $1 \mathrm{ft}^{2}$ | EPDM NR, <br> EPDM NR FIT, <br> EPDM R, or <br> EPDM R FIT | WBMA | $\begin{gathered} -82.5 \\ (\text { Lim. } 7 \text { ) } \end{gathered}$ |
| S-AM-22 | $\begin{aligned} & \text { G33, F2, } \\ & \text { L6, S24 } \end{aligned}$ | Optional Vapor Barrier | Min. 2-inch <br> E3 or E3 C1 | Fasteners \& Plates secured 1 fastener per $1 \mathrm{ft}^{2}$ | Min. 1.5-inch ENRGY 3 | 2-Part UIA, OSFA, or RSUA applied 4" o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{gathered} -82.5 \\ (\text { Lim. } 7) \end{gathered}$ |
| S-AM-23 | $\begin{aligned} & \text { G33, F1, } \\ & \text { L6, S24 } \end{aligned}$ | Optional Vapor Barrier | Min. 2-inch E3 or E3 C1 | Fasteners \& Plates secured 1 fastener per $1.6 \mathrm{ft}^{2}$ | Min. 1.5-inch E3 or E3 C1 | 2-Part UIA, OSFA, or RSUA applied 6 " o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{gathered} -82.5 \\ (\text { Lim. } 7) \end{gathered}$ |
| S-AM-24 | $\begin{aligned} & \text { G33, F1, } \\ & \text { L6, S24 } \end{aligned}$ | Optional Vapor Barrier | Min. 2-inch E3 or E3 C1 | Fasteners \& Plates secured 1 fastener per $1.6 \mathrm{ft}^{2}$ | ProtectoR HD, or Min. 0.5-inch DEXcell FA, SECUROCK, or DensDeck Prime | 2-Part UIA, OSFA, or RSUA applied 6" o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{gathered} -82.5 \\ (\text { Lim. } 7 \text { ) } \end{gathered}$ |
| S-AM-25 | $\begin{aligned} & \text { G33, F1, } \\ & \text { L6, S24 } \end{aligned}$ | JM Vapor Barrier SA or SAR adhered to min. 0.5-inch DEXcell FA secured with UF at 1 fastener per $1.33 \mathrm{ft}^{2}$ and primed with JM SA Primer Low VOC | Min. 1.5-inch ENRGY 3 | 2-Part UIA or RSUA applied 6 " o.c. | Min. 0.5-inch ProtectoR HD or DEXcell FA | 2-Part UIA, OSFA, or RSUA applied 6" o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{gathered} -82.5 \\ (\text { Lim. } 7) \end{gathered}$ |
| S-AM-26 | $\begin{aligned} & \text { G33, P, } \\ & \text { L6, S24 } \end{aligned}$ | Optional Vapor Barrier | $\begin{aligned} & \text { Min. 2-inch } \\ & E 3 \end{aligned}$ | Fasteners \& Plates secured 1 fastener per $1 \mathrm{ft}^{2}$ | Min. 1.5-inch ENRGY 3 | 2-Part UIA or RSUA applied 6" o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\stackrel{-90}{(\text { Lim. 7) }}$ |
| S-AM-27 | $\begin{aligned} & \text { G80, F2, } \\ & \text { L6, S18 } \end{aligned}$ | Optional Vapor Barrier | OPTIONAL INSULATION under Min. 1.5-inch E3 or E3 C1 | Simultaneously secured with top layer | Min. 0.5-inch SECUROCK | Fasteners \& Plates secured 1 fastener per $1 \mathrm{ft}^{2}$ | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | WBMA | $\begin{gathered} -105 \\ (\text { Lim. 7) } \end{gathered}$ |
| S-AM-28 | $\begin{aligned} & \text { G80, F2, } \\ & \text { L6, S24 } \end{aligned}$ | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | $\begin{gathered} \text { Min. 2-inch } \\ \text { ENRGY } 3 \text { CGF } \\ \text { or ENRRY } 3 \mathrm{C} 1 \\ \text { CGF } \\ \hline \end{gathered}$ | Fasteners \& Plates secured 1 fastener per $1 \mathrm{ft}^{2}$ | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | WBMA | $\stackrel{-120}{(\text { Lim. } 7)}$ |

[^8]| Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing, or Recover) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Deck <br> Detail | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | $\begin{aligned} & M D P \\ & \text { (psf) } \end{aligned}$ |
| S-AM-29 | $\begin{aligned} & \text { G80, F2, } \\ & L 6, S 24 \end{aligned}$ | Optional Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch E3 or E3 C1 | Fasteners \& Plates secured 1 fastener per $1 \mathrm{ft}^{2}$ | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA or LVOC | $\stackrel{-120}{(\operatorname{Lim} .7)}$ |
| S-AM-30 | $\begin{gathered} \text { G80, } \\ \text { F1W, L6, } \\ \text { S24 } \end{gathered}$ | Optional Vapor Barrier | Min. 2-inch E3 or E3 C1 | Fasteners \& Plates secured 1 fastener per $1 \mathrm{ft}^{2}$ | ProtectoR HD | 2-Part UIA, OSFA, or RSUA applied 4" o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | ASBA, MBA, LVOC, or WBMA | $\begin{gathered} -120 \\ (\text { Lim. } 7) \end{gathered}$ |
| S-AM-31 | $\begin{gathered} \text { G80, } \\ \text { F1W, L6, } \\ \text { S24 } \end{gathered}$ | Optional Vapor Barrier | Min. 2-inch E3 or E3 C1 | Fasteners \& Plates secured 1 fastener per $1 \mathrm{ft}^{2}$ | Min. 1.5-inch ENRGY 3 | 2-Part UIA, OSFA, or RSUA applied 4" o.c. | $\begin{aligned} & \text { EPDM NR, } \\ & \text { EPDM NR FIT, } \\ & \text { EPDM R, or } \\ & \text { EPDM R FIT } \\ & \hline \end{aligned}$ | ASBA | $\begin{aligned} & -127.5 \\ & (\operatorname{Lim.~7)} \end{aligned}$ |


| Mechanically Fastened Assemblies over Steel Deck (New, Existing, or Recover) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | De-ck Detail | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | $\begin{aligned} & M D P \\ & \text { (psf) } \end{aligned}$ |
| S-M-1 | $\begin{aligned} & \text { G33, F1, } \\ & \text { L6, S24 } \end{aligned}$ | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | EPDM NR | JM EPDM 10" RPS attached with High Load Fasteners installed 12-inch o.c. along the Polymer Membrane Batten; JM EPDM 10" RPS spaced 72-inch o.c.; Membrane adhered to JM EPDM 10" RPS | $\begin{aligned} & -30 \\ & \text { (Lim. 7; } \\ & \text { Non- } \\ & \text { HVHZ } \end{aligned}$ |
| S-M-2 | $\begin{aligned} & \text { G33, F1, } \\ & \text { L6, S24 } \end{aligned}$ | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily <br> Secured | $\begin{aligned} & \text { EPDM NR - } \\ & 60 \text { or } 90 \end{aligned}$ | Attached with High Load Fasteners installed 12 -inch o.c. along the Polymer Membrane Batten; Battens spaced 114-inch o.c.; Battens covered with JM EPDM Peel \& Stick Sealing Strip | $\begin{gathered} -37.5 \\ \text { (Lim. 7; } \\ \text { Non- } \\ \text { HVHZ } \end{gathered}$ |
| S-M-3 | $\begin{gathered} \text { 22GA } \\ \text { Type N, } \\ \text { G80, } \\ \text { H1, L12, } \\ \text { HS24 } \end{gathered}$ | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | EPDM R | Attached with High Load Fasteners and High Load Plates installed 8-inch o.c.; Laps spaced 114-inch o.c.; | $\begin{aligned} & -37.5 \\ & \text { (Lim. } 7 \text {; } \\ & \text { Non- } \\ & \text { HVHZ) } \end{aligned}$ |
| S-M-4 | $\begin{aligned} & \text { G33, F1, } \\ & \text { L6, S24 } \end{aligned}$ | OPTIONAL INSULATION under min. 2-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | EPDM NR | Attached with UltraFast Fasteners installed 6 -inch o.c. along the Polymer Membrane Batten through the membrane in the field (not in the laps); Battens spaced 72-inch o.c.; Battens covered with JM EPDM Peel \& Stick Sealing Strip | $\stackrel{-45}{(\text { Lim. } 7)}$ |
| S-M-5 | $\begin{aligned} & \text { G80, F1, } \\ & \text { L6, S24 } \end{aligned}$ | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | EPDM R | Attached in-lap with APB Fastener \& Plates with High Load Fasteners spaced 6 " o.c.; Laps spaced 114 -inch o.c. | $\begin{gathered} -45 \\ (\text { Lim. } 7 \text { ) } \end{gathered}$ |

[^9]| Mechanically Fastened Assemblies over Steel Deck (New, Existing, or Recover) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | De-ck Detail | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | $\begin{aligned} & M D P \\ & \text { (psf) } \end{aligned}$ |
| S-M-6 | $\begin{aligned} & \text { G33, F1, } \\ & \text { L6, S24 } \end{aligned}$ | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | EPDM R | Attached in-lap with High Load Fasteners installed 6 -inch o.c. along the Polymer Membrane Batten; Laps spaced 114-inch o.c.; 6 -inch wide seam tape | $\begin{gathered} -52.5 \\ (\text { Lim. } 7) \end{gathered}$ |
| S-M-7 | $\begin{aligned} & \text { G33, F1, } \\ & \text { L6, S24 } \end{aligned}$ | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily <br> Secured | EPDM R FIT | Attached in-lap with High Load Fasteners installed 6 -inch o.c. along the Polymer Membrane Batten; Laps spaced 116-inch o.c. | $\stackrel{-60}{(\text { Lim. 7) }}$ |


| Adhered Assemblies over Wood Deck (New or Existing) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Deck Detail | Base Insulation (Note 7) | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | $\begin{aligned} & M D P \\ & \text { (psf) } \end{aligned}$ |
| W-A-1 | 7/160, L24 | - | - | ProtectoR HD | 2-Part UIA or RSUA 12-inch o.c. | EPDM NR EPDM NR FIT, EPDM R, or EPDM R FIT | MBA, LVOC, WBMA, or ASBA | $\begin{gathered} -45 \\ \text { (Lim. 9; } \\ \text { Non- } \\ \text { HVHZ) } \\ \hline \end{gathered}$ |
| W-A-2 | 7/160, L24 | - | - | ProtectoR HD | RSUA <br> 6 -inch o.c. | $\qquad$ | MBA, LVOC, WBMA, or ASBA |  |


| Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing, or Recover) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Deck <br> Detail | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | $\begin{aligned} & M D P \\ & \text { (psf) } \end{aligned}$ |
| W-AM-1 | $\begin{gathered} T 7 / 160, \\ L 24 \end{gathered}$ | Optional INSULATION and/or Vapor Barrier | Preliminarily Secured or secured with top layer | Min. 1.5-inch E3 or E3 C1 | Trufast VERSA-FAST fastener and UltraFast Metal Plate (Round) secured 12 per 4-ft x 8-ft board Pattern \#2 | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | MBA, LVOC, WBMA, or ASBA |  |
| W-AM-2 | $\begin{gathered} \mathrm{T} 19 / 32 P, \\ L 24 \end{gathered}$ | Optional INSULATION and/or Vapor Barrier | Preliminarily Secured or secured with top layer | $\begin{aligned} & \text { Min. } 1.5 \text {-inch } \\ & \text { ENRGY } 3 \text { CGF or } \\ & \text { ENRGY } 3 \text { FR } \end{aligned}$ | $D F, T F$ or UF secured 1 fastener per $4 \mathrm{ft}^{2}$ | $\begin{gathered} \text { EPDM NR, } \\ \text { EPDM NR FIT, } \\ \text { EPDM R, or } \\ \text { EPDM R FIT } \end{gathered}$ | MBA, LVOC, WBMA, or ASBA |  |

[^10]| Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing, or Recover) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System <br> No. | Deck Detail | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | $\begin{aligned} & \text { MDP } \\ & \text { (psf) } \end{aligned}$ |
| W-AM-3 | $\begin{gathered} T 7 / 16 O, \\ L 24 \end{gathered}$ | Optional INSULATION and/or Vapor Barrier | Preliminarily Secured or secured with top layer | DensDeck Prime | Trufast VERSA-FAST fastener and UltraFast Metal Plate (Square) secured 12 per 4-ft x 8-ft board Pattern \#2 | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | MBA, LVOC, WBMA, or ASBA | $\begin{aligned} & \text {-37.5 } \\ & \text { (Lim. 7; } \\ & \text { Non- } \\ & \text { HVHZ) } \end{aligned}$ |
| W-AM-4 | $\begin{gathered} T 19 / 32 P, \\ L 24 \end{gathered}$ | Optional INSULATION and/or Vapor Barrier | Preliminarily Secured or secured with top layer | Min. 1.5-inch E3 or E3 C1 | DF or TF secured 12 per 4-ft x 8-ft board Pattern \#2 | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | MBA, LVOC, WBMA, or ASBA | $\begin{gathered} \text {-45 } \\ \text { (Lim. 7; } \\ \text { Non- } \\ \text { HVHZ) } \\ \hline \end{gathered}$ |
| W-AM-5 | $\begin{aligned} & \text { T15/32P, } \\ & \text { L24, N6 } \end{aligned}$ | Optional INSULATION and/or Vapor Barrier | Preliminarily Secured or secured with top layer | Min. 2-inch E3 | Fasteners \& Plates secured 16 per 4-ft x 8-ft board | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | MBA, LVOC, WBMA, or ASBA | $\begin{gathered} -52.5 \\ (\text { Lim. 7) } \end{gathered}$ |
| W-AM-6 | $\begin{aligned} & T 15 / 32 P, \\ & L 24, N 6 \end{aligned}$ | Min. 2-inch E3 | Fasteners \& Plates secured 16 per 4-ft x 8-ft board | Min. 1.5-inch E3 or E3 C1 | 2-Part UIA, OSFA, or RSUA applied 6" o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | MBA, LVOC, WBMA, or ASBA | $\begin{gathered} -52.5 \\ (\text { Lim. 7) } \end{gathered}$ |
| W-AM-7 | $\begin{aligned} & T 15 / 32 P, \\ & L 24, N 6 \end{aligned}$ | Min. 2-inch E3 | Fasteners \& Plates secured 16 per 4-ft x 8 -ft board | ProtectoR HD, or Min. 0.5-inch DEXcell FA, SECUROCK, or DensDeck Prime | 2-Part UIA, OSFA, or RSUA applied 6" o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | MBA, LVOC, WBMA, or ASBA | $\begin{gathered} -52.5 \\ (\text { Lim. 7) } \end{gathered}$ |
| W-AM-8 | $\begin{aligned} & T 15 / 32 P, \\ & L 24, N 6 \end{aligned}$ | Optional INSULATION and/or Vapor Barrier | Preliminarily Secured or secured with top layer | Min. 0.5 -inch DEXcell FA | JM UltraFast Plate Metal <br> Flat and All Purpose <br> Fastener secured <br> 24 per 4 -ft x 8 -ft board | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | MBA, LVOC, WBMA, or ASBA | $\begin{gathered} -75 \\ (\operatorname{Lim} .7) \end{gathered}$ |
| W-AM-9 | $\begin{aligned} & T 19 / 32 P, \\ & L 24, N 6 \end{aligned}$ | Optional INSULATION and/or Vapor Barrier | Preliminarily Secured or secured with top layer | Min. 0.5 -inch DEXcell FA | JM UltraFast Plate Metal <br> Flat and All Purpose Fastener secured 24 per 4 -ft $x$-ft board | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | MBA, LVOC, WBMA, or ASBA | $\begin{gathered} -82.5 \\ (\text { Lim. 7) } \end{gathered}$ |
| W-AM-10 | $\begin{aligned} & T 15 / 32 P, \\ & L 24, N 6 \end{aligned}$ | Optional INSULATION and/or Vapor Barrier | Preliminarily Secured or secured with top layer | Min. 2-inch E3 | Fasteners \& Plates secured 24 per 4-ft x 8-ft board | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | MBA, LVOC, WBMA, or ASBA | $\begin{gathered} -82.5 \\ (\text { Lim. 7) } \end{gathered}$ |
| W-AM-11 | $\begin{aligned} & T 15 / 32 P, \\ & L 24, N 6 \end{aligned}$ | Min. 2-inch E3 | Fasteners \& Plates secured 24 per 4-ft x 8-ft board | Min. 1.5-inch E3 or E3 C1 | 2-Part UIA, OSFA, or RSUA applied 6" o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | MBA, LVOC, WBMA, or ASBA | $\begin{gathered} -82.5 \\ (\text { Lim. } 7) \end{gathered}$ |


| Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing, or Recover) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| System No. | Deck <br> Detail | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | $\begin{aligned} & M D P \\ & (\mathrm{psf}) \end{aligned}$ |
| W-AM-12 | $\begin{aligned} & \text { T15/32P, } \\ & \text { L24, N6, } \end{aligned}$ | Min. 2-inch E3 | Fasteners \& Plates secured 24 per 4 -ft x 8 -ft board | ProtectoR HD, or Min. 0.5 -inch DEXcell FA, SECUROCK, or DensDeck Prime | 2-Part UIA, OSFA, or $R S U A$ applied 6 " o.c. | EPDM NR, EPDM NR FIT, EPDM R, or EPDM R FIT | MBA, $\angle V O C$, WBMA, or ASBA | $\begin{gathered} -82.5 \\ (\operatorname{Lim} .7) \end{gathered}$ |

End of Report


[^0]:    This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

[^1]:    This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

[^2]:    This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

[^3]:    This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

[^4]:    This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

[^5]:    This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

[^6]:    This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

[^7]:    This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein

[^8]:    This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

[^9]:    This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

[^10]:    This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

