

Registry No. 29824 17520 Edinburgh Dr Tampa, FL 33647 (813) 480-3421

EVALUATION REPORT

FLORIDA BUILDING CODE, 7TH EDITION (2020)

| Manufacturer: | JOHNS MANVILLE CORPORATION P.O. Box 5108 Denver, CO 80217 (303) 978-2478 www.jm.com | Issued February 14, 2022 |
|--|--|--------------------------|
| Manufacturing Pla | nts: Pawtucket, RI Lancaster, SC | |
| Quality Assurance | UL LLC (QUA9625) | |
| SCOPE | | |
| Category: Subcategory: Code Edition; Code Sections: | Roofing Single Ply Roof System Florida Building Code, 7 th Edition (2020) including High-Velocit 1504.3.1, 1504.6, 1504.7, 1507.13, 1515.1.1, 1515.1.4, 1515.2 1523.6.5.2.9 | , , |

Properties: Wind Resistance, Physical Properties, Impact Resistance

PRODUCT DESCRIPTION

| Products | Specification | Description |
|-----------------------------|---------------|--|
| JM PVC-50 mil | ASTM D 4434 | Nominal 50-mil thick polyvinyl chloride with DuPont [™] Elvaloy |
| | | KEE single-ply roof membrane with polyester scrim reinforcement |
| JM PVC-60 mil | ASTM D 4434 | Nominal 60-mil thick polyvinyl chloride with DuPont [™] Elvaloy |
| | | KEE single-ply roof membrane with polyester scrim reinforcement |
| JM PVC-80 mil | ASTM D 4434 | Nominal 80-mil thick polyvinyl chloride with DuPont [™] Elvaloy |
| | | KEE single-ply roof membrane with polyester scrim reinforcement |
| JM PVC Fleece Backed-50 mil | ASTM D 4434 | Nominal 50-mil thick polyvinyl chloride with DuPont [™] Elvaloy |
| | | KEE single-ply roof membrane with polyester scrim reinforcement |
| | | and polyester fleece backing |
| JM PVC Fleece Backed-60 mil | ASTM D 4434 | Nominal 60-mil thick polyvinyl chloride with DuPont [™] Elvaloy |
| | | KEE single-ply roof membrane with polyester scrim reinforcement |
| | | and polyester fleece backing |
| JM PVC Fleece Backed-80 mil | ASTM D 4434 | Nominal 80-mil thick polyvinyl chloride with DuPont [™] Elvaloy |
| | | KEE single-ply roof membrane with polyester scrim reinforcement |
| | | and polyester fleece backing |
| JM PVC SD Plus-50 mil | ASTM D 4434 | Nominal 50-mil thick polyvinyl chloride single-ply roof membrane |
| | | with polyester scrim reinforcement |
| JM PVC SD Plus-60 mil | ASTM D 4434 | Nominal 60-mil thick polyvinyl chloride single-ply roof membrane |
| | | with polyester scrim reinforcement |
| JM PVC SD Plus-80 mil | ASTM D 4434 | Nominal 80-mil thick polyvinyl chloride single-ply roof membrane |
| | | with polyester scrim reinforcement |
| JM PVC SL-50 mil | ASTM D 4434 | Nominal 50-mil thick polyvinyl chloride single-ply roof membrane |
| | | with polyester scrim reinforcement for mechanically attached |
| | | membrane applications only |
| JM PVC SL-60 mil | ASTM D 4434 | Nominal 60-mil thick polyvinyl chloride single-ply roof membrane |
| | | with polyester scrim reinforcement for mechanically attached |
| | | membrane applications only |
| JM PVC SL-80 mil | ASTM D 4434 | Nominal 80-mil thick polyvinyl chloride single-ply roof membrane |
| | | with polyester scrim reinforcement for mechanically attached |
| | | membrane applications only |

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| This evolution report is provided for State of Eleride | | |



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| | R1 | UL 1897 (2012) |
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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.

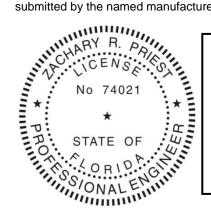
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COMPLIANCE STATEMENT

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



This item has been digitally signed and sealed by Zachary R. Priest, PE, on 2/14/2022.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Zachary R. Priest, P.E. Florida Registration No. 74021 Organization No. ANE9641

CERTIFICATION OF INDEPENDENCE

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) <u>APPENDIX A</u> Installation (7 pages)
- 2) <u>APPENDIX B</u> Nomenclature (6 pages)
- 3) <u>APPENDIX D</u> Approved Assemblies for JM PVC Single-Ply Membranes (56 pages)

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INSTALLATION

Note - Refer to the <u>APPROVED ASSEMBLIES</u> 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:

| | | Installation Detail | | | |
|--------------------|---|--|--|--|--|
| | 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 | 2 3/8-inch diameter; Galvalume steel plate with eyehooks | | | |
| | JM High Load Plus Plates | 2 3/4-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 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 | | | |
| Fasteners, Battens | 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 | | | |
| & Plates | JM Polymer Membrane Batten | Membrane anchors and plastic strips | | | |
| | JM Purlin Fastener | Min. 3/4-inch penetration through purlin | | | |
| | JM PVC RhinoPlate | Min. 3-inch diameter for PVC membranes; Induction welded in the field of membrane; welds not permitted at lap seams; For use only with 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 | | | |
| | SFS Intec FI-P-6.8-PVC | Min. 3-inch diameter for PVC 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 3" Metal Insulation Plate Trufast #12 Purlin Fastener | 3-inch diameter round; Galvalume steel plate | | |
|--------------------|---|---|--|--|
| | Trufast #12 Purlin Fastener | | | |
| T T | | 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; | | |
| Fasteners, Battens | 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 Twin Loc-Nail | Min. 1.4-inch shank; Base sheet fastener with and without integrated 2.7-inch diameter plate. | | |
| | JM MBR Bonding Adhesive | Fully adhered at a rate of 1.5-2.0 gal/100 ft ² | | |
| | JM One-Step Foamable Adhesive | Ribbon adhered in 3/4 to 1-inch wide beads | | |
| | ICP Adhesives CR-20 | Ribboli adhered in 3/4 to 1-inch wide beads | | |
| l T | OMG OlyBond 500 | | | |
| | JM Two Part Urethane Insulation Adhesive Canister or JM Two-Part UIA Canister | Ribbon adhered in 3/4 to 1-inch wide beads | | |
| | 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 $\mbox{lbs}/100\mbox{ ft}^2$ | | |
| | EPS | Min. 0.5-inch, min. 1.8 pcf (HVHZ) or min. 1.5 pcf (non- HVHZ) expanded polystyrene; Adhered boards shall be a maximum 4-ft x 4-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 | | | |
| | JM ENRGY 3 C1 | | | |
| | JM ENRGY 3 AGF | Min. 1/2-inch thick; Min. 20 psi; Adhered boards shall be a | | |
| | JM ENRGY 3 CGF | maximum 4 ft x 4 ft | | |
| | 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 ft x 4 ft | | |
| Boards | JM Invinsa Roof Board | | | |
| F F | JM Invinsa Foam Roof Board | 1/4-inch thick; Adhered boards shall be a maximum | | |
| F | JM Invinsa FR Roof Board | 4 ft x 4 ft | | |
| | JM ProtectoR Foam | Min. 2-inch thick; Min. 80psi top layer; Min. 20psi bottom layer; Adhered boards shall be a maximum 4 ft x 4 ft | | |
| | JM ProtectoR HD | 1/2-inch thick; Min. 80 psi; Adhered boards shall be a | | |
| F | JM ProtectoR HD FR | maximum 4 ft x 4 ft | | |
| F | JM Retro-Fit Board | 1/2-inch thick; Adhered boards shall be a maximum | | |
| F | JM RetroPlus Roof Board | 4 ft x 4 ft | | |
| l F | JM SECUROCK Glass-Mat Roof Board | | | |
| | JM SECUROCK Gypsum-Fiber Roof Board | Min. 1/4-inch thick | | |
| | JM SeparatoR | 1/2-inch thick; Min. 25 psi; Adhered boards shall be a maximum 4 ft x 4 ft | | |

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| Component | Product | Installation Detail | | | | |
|---------------------------|--|---|--|--|--|--|
| | JM SeparatoR CGF | 1/2-inch thick; Min. 25 psi; Adhered boards shall be a | | | | |
| | JM SeparatoR FR | maximum 4 ft x 4 ft | | | | |
| Insulation/Cover | National Gypsum DEXcell Cement Roof Board | Min. 7/16-inch thick; Adhered boards shall be a maximum 4 ft x 4 ft | | | | |
| Boards (Cont'd) | National Gypsum DEXcell Glass Mat Roof Board | Min 1/4 inch thick | | | | |
| | National Gypsum DEXcell FA Glass Mat Roof Board | Min. 1/4-inch thick | | | | |
| | ASTM D 312, Type IV asphalt | Fully adhered within the EVT range at a rate of 25-40 lbs/100 ft ² ; For use only with JM PVC Fleece Backed membranes only | | | | |
| | JM All Season Sprayable Bonding Adhesive | For JM PVC Fleece Backed membranes only; The adhesive is applied both to the substrate and the underside of the membrane at a rate of 0.21-0.23 gal/100ft ² for a tota application rate of 0.41-0.47gal/100ft ² | | | | |
| | JM PVC All Season Sprayable Bonding Adhesive | Fully adhered at rate of 500 ft ² /canister; Applied simultaneously to underside of membrane and substrate; For use with JM PVC smooth backed membranes only | | | | |
| PVC Membrane Adhesives | JM PVC Membrane Adhesive (Low VOC) | Fully adhered at rate of 50-90 ft ² /gal (1.1-2.0 gal/100ft ²); Applied simultaneously to underside of membrane and substrate; For use with JM PVC smooth backed membranes only | | | | |
| | JM PVC Water Based Membrane Adhesive | Bareback PVC shall be fully adhered in one-sided application applied to the substrate at a rate of 0.4-0.5 gal/100ft ² ; Fleeceback PVC shall be fully adhered in one-sided application applied to the substrate at a rate of 0.6-0.8 gal/100ft ² | | | | |
| | JM Roofing System Urethane Adhesive | Ribbon adhered in 1/2 to 3/4-inch wide beads; For use only with JM PVC Fleece Backed membranes only | | | | |
| | JM Two Part Urethane Insulation Adhesive Canister | Applied in spatter pattern at a rate of 0.32 gal/100ft ² or 1/2- inch wide beads; For use only with JM PVC Fleece Backed membranes only | | | | |
| | JM SA Primer Low VOC | Applied at rate of 0.5 gal/sq. | | | | |
| SA Primer | JM SA Primer | Applied 0.75-1.25 gal/100ft ² on porous surfaces and 0.25- 0.75 gal/100ft ² on nonporous surfaces | | | | |
| | JM All Season Sprayable Bonding Adhesive | Applied at rate of 500 ft ² /canister | | | | |
| | JM DynaBase HW | Min. 3-inch wide side-laps; Min. 6-inch end laps; Torch | | | | |
| | JM DynaWeld Base | adhered to primed concrete deck | | | | |
| | JM DynaBase | | | | | |
| | JM DynaBase PR | Min. 3-inch wide side-laps; Min. 6-inch end laps; Applied | | | | |
| | JM DynaLastic 180 S | with hot or cold approved adhesives | | | | |
| Vapor Barriara | JM DynaLastic 250 S | 4 | | | | |
| Vapor Barriers | JM DynaFast 180 S | | | | | |
| | JM DynaGrip Base SD/SA | Min. 3-inch wide side-laps; Min. 6-inch end laps; Self- adhered | | | | |
| | 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 | DynaSet 1k | Min. 4-inch laps sealed at a rate of 1.5-2.0gal/100ft ² ; | | | | |
| Adhesives | DynaSet 2k | Applied to substrate in 0.5-0.75-inch wide continuous ribbons | | | | |
| Base Sheets | JM DynaBase | Min. 3-inch wide side-laps; Min. 6-inch end laps; Applied with hot or cold <i>approved</i> adhesives | | | | |
| | JM DynaBase HW | Min. 3-inch wide side-laps; Min. 6-inch end laps; Torch adhered | | | | |

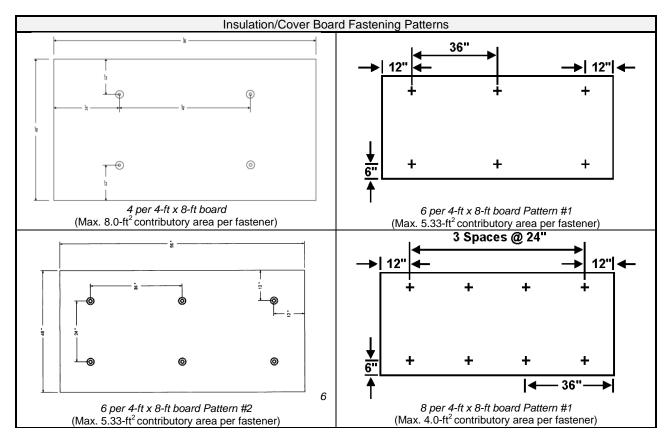
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| Component | Product | Installation Detail | | | | |
|----------------------|---------------------------------------|---|--|--|--|--|
| Base Sheets | JM DynaFast 180 S | Min. 3-inch wide side-laps; Min. 6-inch end laps; Side-laps shall be installed perpendicular to the direction of the steel deck ribs and parallel to the direction of the wood trusses for mechanically attached systems | | | | |
| | JM PVC–50 mil | | | | | |
| | JM PVC-60 mil | Min Q inch wide eide long with min 1 E inch wide heat | | | | |
| | JM PVC-80 mil | Min. 2-inch wide side-laps with min. 1.5-inch wide heat weld for adhered systems; In-lap fastened systems shall | | | | |
| | JM PVC Fleece Backed-50 mil | have min. 6-inch wide side-laps with min. 1.5-inch wide | | | | |
| | JM PVC Fleece Backed-60 mil | heat weld; Side-laps shall be installed perpendicular to the | | | | |
| PVC Single-Ply | JM PVC Fleece Backed-80 mil | direction of the steel deck ribs and parallel to the direction | | | | |
| Membranes | JM PVC SD Plus-50 mil | of the wood trusses for mechanically attached systems | | | | |
| Wernbranes | JM PVC SD Plus-60 mil | | | | | |
| | JM PVC SD Plus-80 mil | | | | | |
| | JM PVC SL-50 mil | Shall have min. 6-inch wide side-laps with min. 1.5-inch | | | | |
| | JM PVC SL-60 mil | wide heat weld; Side-laps shall be installed perpendicular | | | | |
| | JM PVC SV-80 mil | to the direction of the steel deck ribs and parallel to the direction of the wood trusses | | | | |
| | 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 ft ² /gal. | | | | |
| Cellular Lightweight | Mearlcrete | | | | | |
| Concrete | Elastizell | Slurry coat min. 1/8-inch thick; 1" thick EPS board | | | | |
| | Concrecel | (1 lbs/ft ³); Min. 2-inch thick top coat; | | | | |
| | Cellular Lightweight Concrete | | | | | |

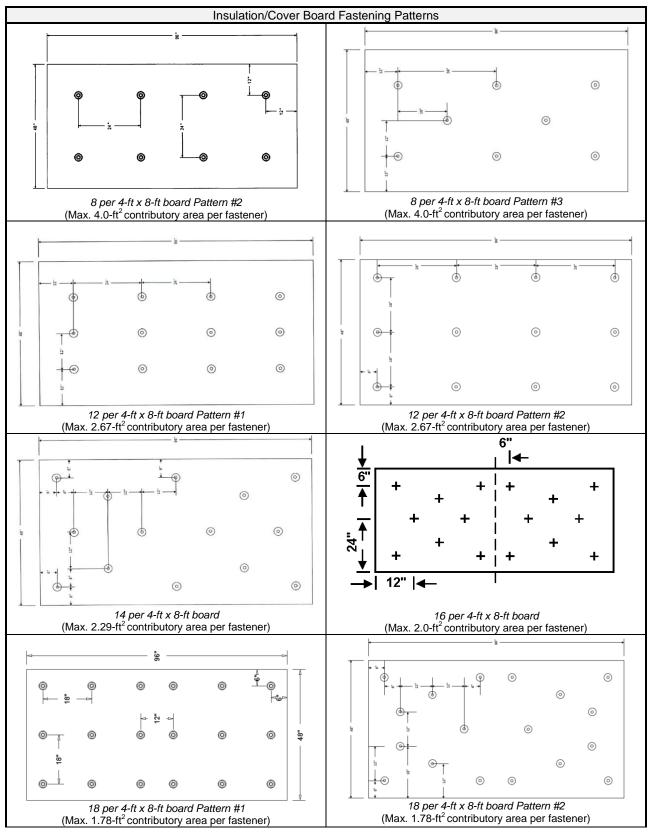


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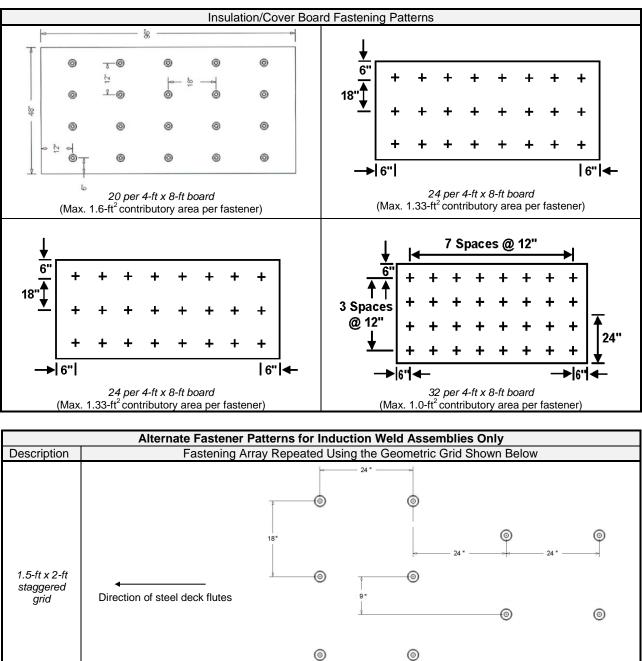
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APPENDIX A - INSTALLATION

| | Alternate Fastener | Patterns | s for Inc | duction | Weld / | Assemblies | Only | | |
|----------------------------------|----------------------------------|----------|-------------|------------|--------|--------------------------|----------|--------|---|
| Description | Fastening A | rray Rep | eated L | Jsing th | e Geon | netric Grid S | nown Bel | ow | |
| 2-ft x 2-ft staggered grid | Direction of steel deck flutes | 24* | - © © | 24* 12* | © © | | 24 * | © © | |
| 2-ft x 3-ft | ▲ Direction of steel deck flutes | 0 | 24 * | | -@ | | @ | 36 ° | 0 |
| staggered grid | | 0 | | | 0 | | © | | ۲ |
| | | | | | | | 0 | | 0 |

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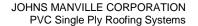
NOMENCLATURE

The following naming conventions are utilized to specify products in the <u>APPROVED ASSEMBLIES</u> 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 <u>APPROVED ASSEMBLIES</u> section of this report.

| Name | Definition | | | |
|--------------------------------|--|--|--|--|
| 1168 | JM 1168 Membrane Adhesive | | | |
| 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 | | | |
| 2-Part UIA-C(S) | JM Two Part Urethane Insulation Adhesive Canister or JM Two-Part UIA Canister applied in spatter application at a rate of 3.5-3.9 lbs/100ft ² | | | |
| AP Fasteners & Plates | All Purpose Fastener, Trufast #14 HD Fastener or Structural Concrete Deck Fastener (concrete only) and UltraFast Metal Plate (Round) or UltraFast Metal Plate (Square) or UltraFast Plate Metal Flat | | | |
| AP Fasteners & Plates (Square) | All Purpose Fastener, Trufast #14 HD Fastener or Structural Concrete Deck Fastener (concrete only) and UltraFast Metal Plate (Square) or UltraFast Plate Metal Flat | | | |
| AP Fasteners & Trufast Plates | All Purpose Fastener, Trufast #14 HD Fastener or Structural Concrete Deck Fastener (concrete only) and Trufast 3" Metal Insulation Plate | | | |
| 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: -Georgia-Pacific DensDeck -Georgia-Pacific DensDeck Prime - Georgia-Pacific DensDeck StormX Prime -JM Invinsa Roof Board -JM Invinsa FR Roof Board -JM ProtectorR HD -JM ProtectorR HD FR -JM SECUROCK Glass-Mat Roof Board -JM SECUROCK Gypsum-Fiber Roof Board -National Gypsum DEXcell FA Glass Mat Roof Board -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 = 2,500 psi at 28 days CWF Deck Min. 2.5-inch thick Tectum I cementitious wood fiber panels | | | |

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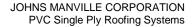
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APPENDIX B – NOMENCLATURE

| Name | Definition | | | | | | |
|--------------------------------|------------------|---|---|--|--|--|--|
| | | | Min. 22 ga, Wide Rib Deck (Type WR) conforming to ANSI/SDI-RD1.0 & FBC; 0.5% Vented for <i>LWIC</i> applications only. The following nomenclature is used to further describe the <i>As Tested</i> 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 | | | | |
| | Steel Deck | Р | Min. 5/8-inch diameter puddle welds at each flute used to secure the deck to the structural supports | | | | |
| | | S<#> | 1/4 "-14 HWH x7/8" self-drilling screws or equivalent fastener secured <#>-inch o.c. along the panel side laps | | | | |
| Deck Detail (Cont'd) | | 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 S0SLC 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 | | | | |
| | | HVHZ: APA Span-Rated sheathing. The following nomenclature is used to further describe the <i>As Tested</i> condition: | | | | | |
| | | T<#>P | Min. <#>-inch thickness of the plywood | | | | |
| | | T<#>0 | Min. <#>-inch thickness of the OSB | | | | |
| | Wood Deck | L<#> | Max. span of <#> inches | | | | |
| | | N<#> | Min. 0.113-inch diameter x 2-3/8-inch ring shank nails spaced <#>-inch o.c. at all intermediate supports and at the perimeter of each board | | | | |
| | | 16S<#> | Min. 16 ga. staples, 1.5-inch x 1-inch crown spaced <#>-inch o.c. at all intermediate supports and at the perimeter of each board | | | | |
| Dekfast Fasteners & Plates | Dekfast DF-#12- | PH3, DF-#14-PH | H3, or DF-#15-DH3 fasteners and Dekfast PLT-H-2-7/8 or Dekfast PLT-R-3 plates | | | | |
| Dekfast #12 Fasteners & Plates | Dekfast DF-#12- | PH3 fasteners a | nd Dekfast PLT-H-2-7/8 or Dekfast PLT-R-3 plates | | | | |
| Dekfast #14 Fasteners & Plates | Dekfast DF-#14- | PH3 fasteners a | nd Dekfast PLT-H-2-7/8 or Dekfast PLT-R-3 plates | | | | |
| DensDeck | Min. 1/4-inch Ge | orgia-Pacific Dei | nsDeck | | | | |
| DensDeck Prime | Min. 1/4-inch Ge | orgia-Pacific Der | nsDeck Prime; or DensDeck StormX Prime | | | | |
| DEXcell CB | Min. 1/4-inch Na | tional Gypsum D | EXcell Cement Roof Board | | | | |
| DEXcell FA | Min. 1/4-inch Na | tional Gypsum D | EXcell FA Glass Mat Roof Board | | | | |
| E3 | JM ENRGY 3, JM | I ENRGY 3 AG | F, JM ENRGY 3 CGF or JM ENRGY 3 FR | | | | |
| E3 C1 | JM ENRGY 3 C1 | or JM ENRGY | 3 C1 CGF | | | | |
| EPS | ASTM C 578 exp | anded polystyre | ene insulation board, min. Type IX in HVHZ | | | | |
| Extra HL Fasteners & Plates | JM Extra High Lo | bad Fasteners (V | Nood Deck or Steel Deck) or JM All Purpose Fasteners (Concrete Deck) and JM Extra High Load Plates | | | | |

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APPENDIX B – NOMENCLATURE

| Name | Definition | | | | | | | |
|-----------------------|---|--|--|---------------------|--|--|--|--|
| | Choose one of the following faste | ener and plate combinations for the given condi | itions: | | | | | |
| | Board or Base Sheet | Fastener | Plate | Roof Deck | | | | |
| | Any | JM All Purpose Fastener, JM Structural Concrete Deck Fastener, Dekfast DF-#14- PH3, 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-#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 | Plywood | | | | |
| Fasteners & Plates | ENRGY 3, ENRGY 3 C1, SeparatoR CGF, Invinsa, Invinsa FR, DensDeck Prime | Dekfast DP-#14-PH3 | Dekfast PLT-R-3 | Concrete | | | | |
| Pasteners & Plates | ENRGY 3, ENRGY 3 C1, SeparatoR CGF, Invinsa, Invinsa FR, DensDeck Prime | Dekfast DP-#15-PH3 | Dekfast PLT-R-3 | Steel | | | | |
| | ENRGY 3, ENRGY 3 C1, Separator CGF, Invinsa, Invinsa FR, DensDeck Prime | Dekfast DF-#12-PH3, Dekfast DF-#14- PH#, or Dekfast DF-#15-PH3 | Dekfast PLT-R-3 | Plywood | | | | |
| | ENRGY 3, SeparatoR CGF, DensDeck Prime, DEXcell FA, or SECUROCK | 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 | | | | |
| | ENRGY 3, SeparatoR CGF, DensDeck Prime, DEXcell FA, or SECUROCK | Trufast #12 DP Fastener or Trufast #15 EHD Fastener | Trufast 3" Metal Insulation Plates | Steel or Plywood | | | | |
| HL Fasteners & Plates | JM High Load Fasteners (Wood I Deck) and JM High Load Plates | Deck or Steel Deck), Trufast #15 EHD Fastene | rs (Steel Deck) or JM All Purpose Fastener | rs (Concrete | | | | |

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| Name | Definition |
|------------------------|---|
| INSULATION | One of more layers in any combination of the following products: -Approved EPS -ENRGY 3 -ENRGY 3 AGF -ENRGY 3 CGF -ENRGY 3 C1 -ENRGY 3 C1 -ENRGY 3 C1 -ENRGY 3 C1 -ENRGY 3 C1 -Fesco Board -Fesco Foam -Invinsa FR Roof Board -Invinsa FR Roof Board -ProtectoR Foam -ProtectoR HD -ProtectoR HD FR -Retro-Fit Board -Retro-Fit Board -SECUROCK Glass-Mat Roof Board -SECUROCK Glass-Mat Roof Board -SECUROCK Glass-Mat Roof Board |
| INVINSA | JM Invinsa or JM Invinsa FR Roof Board |
| ISOWELD -#15 | isoweld FI-P-6.8-PVC plates and DEKFAST DF-#15-PH3 Fasteners |
| ISOWELD-#12 | isoweld FI-P-6.8-PVC plates and DEKFAST DF-#12-PH3 Fasteners |
| JM PVC | One ply of any one of the following products: JM PVC-50 mil, JM PVC-60 mil, or JM PVC-80 mil |
| JM PVC FB | One ply of any one of the following products: JM PVC Fleece Backed-50 mil, JM PVC Fleece Backed-60 mil or JM PVC Fleece Backed-80 mil |
| JM PVC FB/DynaFast | One ply of JM PVC Fleece Backed-50 mil or JM PVC Fleece Backed-60 mil fully adhered in ASTM D 312 Type asphalt over DynaFast 180 S. DynaFast 180 S fastened to deck as described in <i>Approved Assembly</i> |
| JM PVC SD Plus | One ply of any one of the following products: JM PVC SD Plus-50 mil, JM PVC SD Plus-60 mil, or JM PVC SD Plus-80 mil |
| JM PVC SL | One ply of any one of the following products: JM PVC SL-50 mil, JM PVC SL-60 mil, or JM PVC SL-80 mil |
| LWIC | Poured-in-place Cellular Lightweight Concrete with encapsulated insulation board |
| MCRF | Minimum Characteristic Resistance Force as determined by TAS 105 for the named fastener in the selected assembly |
| MDP | Maximum Design Pressure |
| OMG Fasteners & Plates | OMG XHD fasteners and 3 in. Ribbed Galvalume Plates (Flat) |
| OSFA | JM One-Step Foamable Adhesive |
| Preliminarily Secured | Fastened at minimum rate of 5 per 4 ft x 8 ft board or 4 per 4 ft x 4 ft board. |
| ProtectoR | JM ProtectoR HD or JM ProtectoR HD FR Roof Board |
| PVC ASSBA | JM PVC All Season Sprayable Bonding Adhesive |
| PVC MA (LowVOC) | JM PVC Membrane Adhesive (Low VOC) |
| PVC WBMA | JM PVC Water Based Membrane Adhesive |

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| Name | Definition |
|---------------------------------------|---|
| 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. |
| Retro-Fit | JM Retro-Fit Board |
| RetroPlus | JM RetroPlus Roof Board |
| RhinoPlates | JM High Load Fasteners or Trufast #15 EHD Fasteners and JM PVC RhinoPlates |
| RSUA | JM Roofing System Urethane Adhesive |
| SECUROCK | Min. 1/4-inch JM SECUROCK Gypsum-Fiber Roof Board |
| StormX | DensDeck StormX Prime |
| UIA | JM Urethane Insulation Adhesive |
| UltraFast Fasteners & Plates | JM UltraFast Fasteners (<i>Steel Deck</i> and <i>Wood Deck</i>), Trufast #12 DP Fasteners, JM All Purpose Fasteners (<i>Concrete Deck</i>), or Trufast #14 HD Fasteners and UltraFast Metal Plate (Square), UltraFast Plate Metal Flat, UltraFast Metal Plates (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 |
| UltraFast Fasteners & Trufast Plates | JM UltraFast Fasteners (Steel Deck and Wood Deck), Trufast #12 DP Fasteners, JM All Purpose Fasteners (Concrete Deck), or Trufast #14 HD Fasteners and Trufast 3" Metal Insulation Plates |
| UltraFast Plates | UltraFast Metal Plate (Square), UltraFast Plate Metal Flat, UltraFast Metal Plates (Round), or UltraFast Plate Metal Recessed |
| Vapor Barrier | One of the following vapor barriers installed over the deck: -4mil or 6mil Polyethylene, loose laid -JM Vapor Barrier SA or JM Vapor Barrier SAR, self-adhered to minimum 0.5-inch thick SECUROCK Gypsum-Fiber Roof Board, DEXcell FA Glass Mat Roof Board or DEXcell Cement Roof Board. The thermal barrier may be primed with JM SA Primer Low VOC, or SA Primer -DynaGrip Base SD/SA, self-adhered to minimum 0.5-inch thick SECUROCK Gypsum-Fiber Roof Board or DEXcell FA Glass Mat Roof Board -DynaBase HW, torch applied to minimum 0.5-inch thick DEXcell FA Glass Mat Roof Board |

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| Name | Definition | | | | | | | | | |
|---|---|--|---|------------|-------------------------|------------------------|---|-----------|--|--|
| | 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 | Vapor Barrier V | | VB App | lication | Insulation Adhesive | MDP (psf) | | |
| | None | DynaBase HW | | | Torch a | dhered | OSFA 12-inch o.c. | -172.5 | | |
| | None | DynaBase HW | | | Torch a | dhered | 2-Part UIA 12-inch o.c. | -135 | | |
| | None | DynaBase HW | | | Torch a | dhered | RSUA 12-inch o.c. | -195 | | |
| | ASTM D 41 | DynaGrip Base | SD/SA | | Self-adh | ered | OSFA 12-inch o.c. | -90 | | |
| Vapor Barriers for Adhered Assemblies over Concrete Deck | ASTM D 41 | DynaGrip Base | SD/SA | | Self-adł | ered | 2-Part UIA 12-inch o.c. | -97.5 | | |
| | ASTM D 41 | DynaGrip Base | SD/SA | | Self-adł | ered | RSUA 12-inch o.c. | -82.5 | | |
| | None | DynaFast 180 S | DynaLastic 180 S, DynaLastic 250 S, DynaFast 180 S, or DynaBase PR; Laps sealed with DynaSet 1k | | DynaSet 1k 12-inch o.c. | | <i>OSFA, 2-Part UIA,</i> or <i>RSUA</i> 12-inch o.c. | -232.5 | | |
| | None | DynaFast 180 S | DynaLastic 180 S, DynaLastic 250 S DynaFast 180 S, or DynaBase PR; L sealed with DynaSet 1k | | DynaSe | t 1k 12-inch o.c. | ASTM D 312, Type IV Asphalt | -337.5 | | |
| | ASTM D 41 | DynaWeld Base | | | Torch adhered | | OSFA 12-inch o.c. | -150 | | |
| | ASTM D 41 | DynaWeld Base | | Тс | | dhered | 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 JM Vapor Barrie | r SA or SAR | | Self-adhered | | OSFA or RSUA 12-inch o.c. | -135 | | |
| | JM SA Primer Low | VOC JM Vapor Barrie | r SA or SAR | | Self-adł | ered | 2-Part UIA 12-inch o.c. | -82.5 | | |
| Vapor Barriers for Adhered | | g options may be utilized ly and the MDP for the ch | | | embly. T | he <i>MDP</i> shall be | imited to the lesser of rating | of the | | |
| Assemblies over CWF Deck | Thermal Barrier | TB Adhesive | Primer | Vapor Barr | rier | /B Application | Insulation Adhesive | MDP (psf) | | |
| | SECUROCK | RSUA 12-inch o.c. | ASTM D 41 | DynaWeld (| Cap [·] | Forch adhered | RSUA 12-inch o.c. | -250 | | |

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APPROVED ASSEMBLIES FOR JM PVC 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-#, G-M-#, LC-M-#, LS-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.

| | Assembly System Numbers and Definitions |
|---------------|--|
| <u>C-A-#</u> | Adhered Assemblies over Concrete Deck (New or Existing) |
| <u>C-AM-#</u> | Assemblies with Adhered Membranes over Insulated Concrete Deck (New, Existing or Recover) |
| <u>C-M-#</u> | Mechanically Fastened Assemblies over Concrete Deck |
| <u>C-W-#</u> | Induction Welded Assemblies over Concrete Deck |
| <u>CW-A-#</u> | Adhered Assemblies over CWF Deck (New or Existing) |
| CW-AM-# | Assemblies with Adhered Membranes over Cementitious Wood Fiber Decks (New or Existing) |
| <u>CW-M-#</u> | Mechanically Fastened Assemblies over CWF Deck (New, Existing, or Recover) |
| <u>G-A-#</u> | Adhered Assemblies over Poured Gypsum Deck (New or Existing) |
| <u>G-AM-#</u> | Assemblies with Adhered Membranes over Poured Gypsum Deck (New or Existing) |
| <u>G-M-#</u> | Mechanically Fastened Assemblies over Poured Gypsum Deck (New, Existing or Recover) |
| <u>LC-A-#</u> | Adhered Lightweight Concrete Assemblies over Concrete Deck (New or Existing) |
| LC-AM-# | Lightweight Concrete Assemblies with Adhered Membranes over Concrete Deck (New or Existing) |
| <u>LC-M-#</u> | Mechanically Fastened Lightweight Concrete Assemblies over Concrete Deck (New, Existing, or Recover) |
| <u>LS-A-#</u> | Adhered Lightweight Concrete Assemblies over Steel Deck (New or Existing) |
| LS-AM-# | Lightweight Concrete Assemblies with Adhered Membranes over Steel Deck (New or Existing) |
| <u>LS-M-#</u> | Mechanically Fastened Lightweight Concrete Assemblies over Steel Deck (New, Existing, or Recover) |
| <u>R-A-#</u> | Adhered Recover Assemblies |
| <u>R-M-#</u> | Mechanically Fastened Recover Assemblies |
| <u>R-W-#</u> | Induction Welded Recover Assemblies |
| <u>S-AM-#</u> | Assemblies with Adhered Membranes over Insulated Steel Deck (New, Existing or Recover) |
| <u>S-M-#</u> | Mechanically Fastened Assemblies over Steel Deck (New, Existing or Recover) |
| <u>S-W-#</u> | Induction Welded Assemblies over Steel Deck |
| <u>W-AM-#</u> | Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing or Recover) |
| <u>W-M-#</u> | Mechanically Fastened Assemblies over Wood Deck (New or Existing) |
| <u>W-W-#</u> | Induction Welded Assemblies over <i>Wood Deck</i> (New or Existing) |

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| | | Adhered Assem | blies over Concrete Deck | (New or Existing) | | |
|---------------|--|---|--|-----------------------------|---|--------------------|
| System No. | Vapor Barrier | Base Insulation | Top Insulation or Base Ply | Membrane | Membrane Attachment | MDP (psf) |
| C-A-1 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch ENRGY 3 adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | <i>DensDeck Prime</i> adhered with <i>2-Part UIA</i> at 12-inch o.c. | JM PVC JM PVC SD Plus | PVC WBMA or PVC ASSBA | -45 (Lim. 9) |
| C-A-2 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch <i>E</i> 3 in <i>RSUA</i> or <i>2-Part UIA</i> applied12-inch o.c. | OPTIONAL SECUROCK, RetroPlus, or JM Invinsa in RSUA or 2-Part UIA applied 12-inch o.c. | JM PVC FB | RSUA applied 12-inch o.c. | -67.5 (Lim. 9) |
| C-A-3 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch <i>E</i> 3 in <i>RSUA</i> applied 12-inch o.c. | SECUROCK in OSFA, RSUA, or 2-Part UIA applied 12-inch o.c. | JM PVC FB | RSUA applied 12-inch o.c. | -67.5 (Lim. 9) |
| C-A-4 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch <i>E3</i> (no FR) in <i>UIA</i> , 2- <i>Part UIA</i> , <i>OSFA</i> or <i>RSUA</i> applied 12-inch o.c. | OPTIONAL JM Invinsa or ProtectoR HD in UIA or 2-Part UIA applied 12-inch o.c. | JM PVC | PVC MA (LowVOC) | -105 (Lim. 9) |
| C-A-5 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch <i>E3</i> (no FR) in <i>UIA, 2-Part UIA, OSFA</i> or <i>RSUA</i> applied 12-inch o.c. | OPTIONAL JM Invinsa or ProtectoR HD in UIA or 2-Part UIA applied 12-inch o.c. | JM PVC SD Plus | PVC MA (LowVOC) | -105 (Lim. 9) |
| C-A-6 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch <i>E3</i> (no FR) in <i>UIA, 2-Part UIA, OSFA</i> or <i>RSUA</i> applied 12-inch o.c. | OPTIONAL ProtectoR HD in UIA or 2- Part UIA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC ASSBA | -105 (Lim. 9) |
| C-A-7 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch E3 (no FR) adhered with UIA, or 2-Part UIA, OSFA or RSUA at 12- inch o.c. | JM Invinsa or ProtectoR HD adhered with <i>UIA</i> at 12-inch o.c. | JM PVC | <i>PVC MA (LowVOC)</i> applied at 0.83 gal/100ft ² | -112.5 (Lim. 9) |
| C-A-8 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch E3 (no FR) adhered with UIA, or 2-Part UIA, OSFA or RSUA at 12- inch o.c. | JM Invinsa or ProtectoR HD adhered with UIA at 12-inch o.c. | JM PVC SD Plus | <i>PVC MA (LowVOC)</i> applied at 0.83 gal/100ft ² | -112.5 (Lim. 9) |
| C-A-9 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch E3 (no FR) adhered with UIA, or 2-Part UIA, OSFA or RSUA at 12- inch o.c. | ProtectoR HD adhered with UIA at 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC ASSBA | -112.5 (Lim. 9) |
| C-A-10 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch <i>E3</i> (no FR) or ProtectoR Foam applied in <i>RSUA, OSFA</i> or <i>2-Part UIA</i> applied 12-inch o.c. | - | JM PVC FB | RSUA applied 4-inch o.c. | -112.5 (Lim 9) |

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| | | Adhered Assem | blies over Concrete Deck | (New or Existing) | | |
|---------------|--|--|---|--------------------------|---|--------------------|
| System No. | Vapor Barrier | Vapor Barrier Base Insulation | | Membrane | Membrane Attachment | MDP (psf) |
| C-A-11 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch ENRGY 3 adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | Min. 1-inch ENRGY 3 adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | JM PVC JM PVC SD Plus | PVC WBMA, PVC MA (LowVOC) , or PVC ASSBA | -127.5 (Lim. 9) |
| C-A-12 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch ENRGY 3 adhered with <i>OSFA</i> or <i>RSUA</i> at 12-inch o.c. | Min. 1-inch ENRGY 3 adhered with OSFA or RSUA at 12-inch o.c. | JM PVC JM PVC SD Plus | PVC WBMA, PVC MA (LowVOC) , or PVC ASSBA | -127.5 (Lim. 9) |
| C-A-13 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch ENRGY 3 adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | ProtectoR HD adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | JM PVC FB | PVC WBMA | -142.5 (Lim. 9) |
| C-A-14 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch ENRGY 3 adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | DensDeck Prime adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | JM PVC FB | I PVC FB PVC WBMA or ASBA | |
| C-A-15 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch ENRGY 3 adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | Separator CGF adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | JM PVC FB | PVC WBMA | -150 (Lim. 9) |
| C-A-16 | - | Min. 1.5-inch <i>E3</i> (no FR), min. 1-inch Fesco, min. 1.5-inch Fesco Foam, or Retro-Fit in ASTM D 312 Type asphalt | - | JM PVC FB | ASTM D 312 Type IV Asphalt | -150 (Lim. 9) |
| C-A-17 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch ENRGY 3 adhered with <i>OSFA</i> or <i>RSUA</i> at 12-inch o.c. | Min. 1-inch ENRGY 3 adhered with OSFA or RSUA at 12-inch o.c. | JM PVC FB | ASBA | -157.5 (Lim. 9) |
| C-A-18 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch ENRGY 3 adhered with <i>OSFA</i> or <i>RSUA</i> at 12-inch o.c. | Min. 1-inch ENRGY 3 adhered with OSFA or RSUA at 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) or PVC WBMA | -180 (Lim. 9) |
| C-A-19 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch ENRGY 3 adhered with <i>OSFA</i> or <i>RSUA</i> at 12-inch o.c. | Min. 1-inch ENRGY 3 adhered with <i>OSFA</i> or <i>RSUA</i> at 12-inch o.c. | JM PVC SD Plus | PVC ASSBA | -180 (Lim. 9) |
| C-A-20 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch <i>E</i> 3 (no FR) adhered with <i>OSFA</i> or <i>RSUA</i> at 12-inch o.c. | ProtectoR HD adhered with RSUA at 12-inch o.c. | JM PVC JM PVC SD Plus | PVC WBMA or PVC MA (LowVOC) | -180 (Lim. 9) |

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| | Adhered Assemblies over <i>Concrete Deck</i> (New or Existing) | | | | | | | | | | |
|---------------|--|---|---|--------------------------|--|--------------------|--|--|--|--|--|
| System No. | Vapor Barrier | Base Insulation | Top Insulation or Base Ply | Membrane | Membrane Attachment | MDP (psf) | | | | | |
| C-A-21 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch <i>E</i> 3 (no FR) adhered with <i>OSFA</i> or <i>RSUA</i> at 12-inch o.c. | ProtectoR HD adhered with RSUA at 12-inch o.c. | JM PVC SD Plus | PVC ASSBA | -180 (Lim. 9) | | | | | |
| C-A-22 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch <i>E</i> 3 (no FR) adhered with <i>OSFA</i> or <i>RSUA</i> at 12-inch o.c. | ProtectoR HD adhered with RSUA at 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) or PVC WBMA | -180 (Lim. 9) | | | | | |
| C-A-23 | Vapor Barriers for Adhered Assemblies over Concrete Deck | Adhered Assemblies RSUA applied 12-inch o.c. over Concrete Deck | | JM PVC FB | 2-Part UIA-C(S) | -180 (Lim. 9) | | | | | |
| C-A-24 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch ENRGY 3 adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | ProtectoR HD adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | JM PVC JM PVC SD Plus | PVC WBMA | -180 (Lim. 9) | | | | | |
| C-A-25 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch ENRGY 3 adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | ProtectoR HD adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | JM PVC SD Plus | PVC ASSBA | -180 (Lim. 9) | | | | | |
| C-A-26 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch ENRGY 3 adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | Min. 1-inch ENRGY 3 adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | JM PVC FB | PVC WBMA | -187.5 (Lim. 9) | | | | | |
| C-A-27 | OPTIONAL Min. 1.5-inch E3 (no FR Vapor Barriers for Adhered Assemblies over Concrete Deck (Not applied 12-inch o.c. o Astronomic of the sector | | - | JM PVC | PVC MA (LowVOC) | -217.5 (Lim. 9) | | | | | |
| C-A-28 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck (Not for use with hot asphalt) | Min. 1.5-inch <i>E3</i> (no FR) in 2-Part UIA, OSFA or RSUA applied 12-inch o.c. or ASTM D 312 Type IV Asphalt | - | JM PVC FB | ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S) | -217.5 (Lim. 9) | | | | | |
| C-A-29 | - | - | - | JM PVC FB | PVC WBMA | -217.5 (Lim. 9) | | | | | |
| C-A-30 | DynaBase HW | SECUROCK in RSUA applied 12-inch o.c. | DynaBase HW | JM PVC FB | RSUA applied 12-inch o.c. | -217.5 (Lim. 9) | | | | | |
| C-A-31 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch ENRGY 3 adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | Separator CGF adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | JM PVC JM PVC SD Plus | PVC WBMA | -225 (Lim. 9) | | | | | |

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| | | Adhered Assem | blies over Concrete Deck | (New or Existing) | | |
|---------------|---|---|---|--------------------------|---------------------|-----------------------------------|
| System No. | Vapor Barrier | Base Insulation | Top Insulation or Base Ply | Membrane | Membrane Attachment | MDP (psf) |
| C-A-32 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 1.5-inch ENRGY 3 adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | Separator CGF adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | JM PVC SD Plus | PVC ASSBA | -225 (Lim. 9) |
| C-A-33 | OPTIONAL Vapor Barriers for Adhered Assemblies over Concrete Deck | Min. 0.5-inch ENRGY 3 adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | Invinsa adhered with OSFA, RSUA or 2-Part UIA at 12-inch o.c. | JM PVC SD Plus | PVC ASSBA | -225 (Lim. 9; Non- HVHZ) |
| C-A-34 | Min. 1.5-inch ENRGY 3 or ProtectoR Foam in <i>2-Part UIA-C(B)</i> applied 12-inch o.c. | | - | JM PVC FB | 2-Part UIA-C(S) | -277.5 (Lim. 9) |
| C-A-35 | DynaBase HW torch adhered over deck primed with ASTM D 41 primer | Min. 1.5-inch ENRGY 3 CGF in <i>RSUA</i> applied 12-inch o.c. | SECUROCK in RSUA applied 12-inch o.c. | JM PVC JM PVC SD Plus | PVC MA (Low VOC) | -292.5 (Lim. 9) |
| C-A-36 | DynaBase HW torch adhered over deck primed with ASTM D 41 primer | Min. 1.5-inch ENRGY 3 CGF in <i>RSUA</i> applied 12-inch o.c. | SECUROCK in RSUA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -292.5 (Lim. 9) |
| C-A-37 | - | Min. 1-inch <i>E3 C1 or E3</i> (less ENRGY 3 FR) in <i>2-Part UIA</i> applied 12-inch o.c. | DensDeck Prime in 2-Part UIA, OSFA or RSUA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -337.5 (Lim. 9) |
| C-A-38 | - | DEXcell CB or DEXcell FA in 2-Part UIA or OlyBond 500 applied 12-inch o.c. | - | JM PVC JM PVC SD Plus | PVC MA (Low VOC) | -390 (Lim. 9) |
| C-A-39 | - | DEXcell FA in 2-Part UIA or OlyBond 500 applied 12-inch o.c. | - | JM PVC FB | 2-Part UIA-C(S) | -390 (Lim. 9) |

| | 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-1 | OPTIONAL Vapor Barrier | Min. 1.5-inch <i>E</i> 3 | Simultaneously secured with top layer | ProtectoR | <i>Fastener & Plates</i> secured 1 fastener per 2.67ft ² | JM PVC | PVC MA (LowVOC) or PVC ASSBA | -30 (Lim. 7; Non- HVHZ) | | | |

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JOHNS MANVILLE CORPORATION PVC Single Ply Roofing Systems

APPENDIX D – APPROVED ASSEMBLIES FOR JM PVC SINGLE-PLY MEMBRANES

| | | Assemblies | with Adhered Me | mbranes over Insu | lated Concrete Deck (N | ew, Existing, or F | 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 | <i>MDP</i> (psf) |
| C-AM-2 | OPTIONAL Vapor Barrier | Min. 1.5-inch E3 | Simultaneously secured with top layer | ProtectoR | <i>Fastener & Plates</i> secured 1 fastener per 2.67ft ² | JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -30 (Lim. 7; Non- HVHZ) |
| C-AM-3 | OPTIONAL Vapor Barrier | Min. 1.5-inch E3 | Simultaneously secured with top layer | ProtectoR | Fastener & Plates secured 1 fastener per 2.67ft ² | JM PVC FB | <i>RSUA</i> applied 12-inch o.c. or 2-Part UIA-C(S) | -30 (Lim. 7; Non- HVHZ) |
| C-AM-4 | OPTIONAL Vapor Barrier | Min. 1.5-inch E3 | Simultaneously secured with top layer | ProtectoR | <i>Fastener & Plates</i> secured 1 fastener per 4ft ² | JM PVC | PVC MA (LowVOC) or PVC ASSBA | -45 (Lim. 7; Non- HVHZ) |
| C-AM-5 | OPTIONAL Vapor Barrier | Min. 1.5-inch E3 | Simultaneously secured with top layer | ProtectoR | <i>Fastener & Plates</i> secured 1 fastener per 4ft ² | JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -45 (Lim. 7; Non- HVHZ) |
| C-AM-6 | OPTIONAL Vapor Barrier | Min. 1.5-inch E3 | Simultaneously secured with top layer | ProtectoR | Fastener & Plates secured 1 fastener per 4ft ² | JM PVC FB | <i>RSUA</i> applied 12-inch o.c. or 2-Part UIA-C(S) | -45 (Lim. 7; Non- HVHZ) |
| C-AM-7 | OPTIONAL Vapor Barrier | Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or <i>E3 C1</i> | Fastener & Plates secured 1 fastener per 1ft ² | Min. 1.5-inch ENRGY 3 | OSFA, RSUA or 2-Part UIA applied 4-inch o.c. | JM PVC or PVC SD Plus | PVC WBMA or PVC ASSBA | -45 (Lim. 7) |
| C-AM-8 | OPTIONAL Vapor Barrier | Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or <i>E3 C1</i> | Fastener & Plates secured 1 fastener per 1ft ² | Min. 1.5-inch ENRGY 3 | OSFA, RSUA or 2-Part UIA applied 4-inch o.c. | JM PVC FB | RSUA applied 12-inch o.c., or PVC WBMA or ASBA | -45 (Lim. 7) |
| C-AM-9 | OPTIONAL Vapor Barrier | Min. 2-inch <i>E3</i> or <i>E3 C1</i> | Fastener & Plates secured 1 fastener per 1.6ft ² | Min. 1.5-inch <i>E3</i> or <i>E3 C1</i> | OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c. | JM PVC FB | RSUA 12-inch o.c. | -45 (Lim. 7) |
| C-AM-10 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch ENRGY 3 | Fastener & Plates secured 8 per 4-ft x 8-ft board Pattern #2 | JM PVC or JM PVC SD Plus | PVC ASSBA | -45 (Lim. 7; Non- HVHZ) |
| C-AM-11 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | SECUROCK | Dekfast #14 Fasteners & Plates or Fastener & Plates secured 1 fastener per 1.33ft ² | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) applied at 1-1.1 gal/100ft ² or PVC ASSBA | -52.5 (Lim. 7) |

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PVC Single Ply Roofing Systems APPENDIX D – APPROVED ASSEMBLIES FOR JM PVC SINGLE-PLY MEMBRANES

JOHNS MANVILLE CORPORATION

| | | Assemblies | with Adhered Me | mbranes over Insu | lated Concrete Deck (N | ew, Existing, or F | 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 | <i>MDP</i> (psf) |
| C-AM-12 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | SECUROCK | Dekfast #14 Fasteners & Plates or Fastener & Plates secured 1 fastener per 1.33ft ² | JM PVC FB | 2-Part UIA-C(S) | -52.5 (Lim. 7) |
| C-AM-13 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | SECUROCK | Dekfast #14 Fasteners & Plates or Fastener & Plates secured 1 fastener per 1.33ft ² | Base Ply: DynaBase HW Membrane: <i>JM PVC FB</i> | Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c. | -52.5 (Lim. 7) |
| C-AM-14 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch ENRGY 3 | Fastener & Plates secured 1 fastener per 1.33ft ² | SECUROCK | OSFA, RSUA or 2-Part UIA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) applied 1-1.1 gal/100ft ² or PVC ASSBA | -52.5 (Lim. 7) |
| C-AM-15 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch ENRGY 3 | Fastener & Plates secured 1 fastener per 1.33ft ² | SECUROCK | OSFA, RSUA or 2-Part UIA applied 12-inch o.c. | Base Ply: DynaBase HW Membrane: <i>JM PVC FB</i> | Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c. | -52.5 (Lim. 7) |
| C-AM-16 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 1.5-inch <i>E</i> 3 | Fastener & Plates secured 1 fastener per 1.78ft ² | JM PVC FB | ASTM D 312 Type IV Asphalt | -52.5 (Lim. 7) |
| C-AM-17 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | DensDeck Prime | Fastener & Platessecured 1 fastener per 1.78ft ² | JM PVC or JM PVC SD Plus | PVC MA (LowVOC), PVC WBMA, or PVC ASSBA | -52.5 (Lim. 7) |
| C-AM-18 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | DensDeck Prime | Fastener & Platessecured 1 fastener per 1.78ft ² | JM PVC FB | ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S) | -52.5 (Lim. 7) |
| C-AM-19 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | SECUROCK | Dekfast #14 Fasteners & Plates or AP Fasteners & Plates (Square) secured 1 fastener per 1.00ft ² | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) applied at 1-1.1 gal/100ft ² | -60 (Lim. 7) |
| C-AM-20 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | SECUROCK | Dekfast #14 Fasteners & Plates or AP Fasteners & Plates (Square) secured 1 fastener per 1.00ft ² | JM PVC FB | 2-Part UIA-C(S) | -60 (Lim. 7) |

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JOHNS MANVILLE CORPORATION PVC Single Ply Roofing Systems

APPENDIX D – APPROVED ASSEMBLIES FOR JM PVC SINGLE-PLY MEMBRANES

| | | Assemblies | with Adhered Me | mbranes over Insu | lated Concrete Deck (N | ew, Existing, or <i>I</i> | 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-21 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch ENRGY 3 | Fastener & Plates secured at a rate of 1 fastener per 1.78ft ² | Min 1/2-inch SECUROCK | <i>OSFA</i> , <i>RSUA</i> or 2-Part UIA applied 12-inch o.c. | Base Ply: DynaBase HW Membrane: <i>JM PVC FB</i> | Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c. | -60 (Lim. 7) |
| C-AM-22 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch ENRGY 3 | Fastener & Plates secured at a rate of 1 fastener per 1.78ft ² | Min 1/2-inch SECUROCK | OSFA, RSUA or 2-Part UIA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) applied at 1-1.1 gal/100ft ² | -60 (Lim. 7) |
| C-AM-23 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch ENRGY 3 | Fastener & Plates secured at a rate of 1 fastener per 1.78ft ² | Min 1/2-inch SECUROCK | OSFA, RSUA or 2-Part UIA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -60 (Lim. 7) |
| C-AM-24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch ENRGY 3 | Simultaneously secured with top layer | SECUROCK | Dekfast #14 Fasteners & Plates or Fastener & Plates secured 1 fastener per 1.78ft ² | Base Ply: DynaBase HW Membrane: <i>JM PVC FB</i> | Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c. | -60 (Lim. 7) |
| C-AM-25 | OPTIONAL Vapor Barrier | Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or <i>E3 C1</i> | Fastener & Plates secured 1 fastener per 1ft ² | Min. 1.5-inch ENRGY 3 | OSFA, RSUA or 2-Part UIA applied 4-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -60 (Lim. 7) |
| C-AM-26 | OPTIONAL Vapor Barrier | Min. 2-inch <i>E3</i> or <i>E3 C1</i> | Fastener & Plates secured 1 fastener per 1.6ft ² | Min. 1.5-inch <i>E3</i> or <i>E3 C1</i> | OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -60 (Lim. 7) |
| C-AM-27 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch ENRGY 3 or ProtectoR Foam | Fastener & Plates secured 1 fastener per 1.6ft ² | JM PVC FB | 2-Part UIA-C(S) | -60 (Lim. 7) |
| C-AM-28 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | <i>Fastener & Plates</i> secured 1 fastener per 1ft ² | SECUROCK, RetroPlus, or JM Invinsa | RSUA or 2-Part UIA applied 6-inch o.c. | JM PVC FB | RSUA applied 12-inch o.c. | -67.5 (Lim. 7) |
| C-AM-29 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Fastener & Plates secured 1 fastener per 1ft ² | SECUROCK | <i>OSFA, RSUA</i> or <i>2-Part</i> <i>UIA</i> applied 6-inch o.c. | Base Ply: DynaBase HW Membrane: <i>JM PVC FB</i> | Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c. | -67.5 (Lim. 7) |

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APPENDIX D – APPROVED ASSEMBLIES FOR JM PVC SINGLE-PLY MEMBRANES

| | | Assemblies | with Adhered Me | mbranes over Insu | lated Concrete Deck (N | ew, Existing, or <i>F</i> | 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-30 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR | <i>Fastener & Plates</i> secured 1 fastener per 2.0ft ² | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -67.5 (Lim. 7) |
| C-AM-31 | OPTIONAL Vapor Barrier | Min. 2-inch <i>E</i> 3 or <i>E</i> 3 C1 | Fastener & Plates secured 1 fastener per 1.6ft ² | Min. 0.5-inch ProtectoR HD, DEXcell FA, or SECUROCK | OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c. | JM PVC FB | RSUA 12-inch o.c. | -67.5 (Lim. 7) |
| C-AM-32 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | Min 0.5-inch DensDeck Prime | Fastener & Plates secured 1 fastener per 1.78ft ² | JM PVC or JM PVC SD Plus | PVC MA (LowVOC), PVC WBMA, or PVC ASSBA | -67.5 (Lim. 7) |
| C-AM-33 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | Min 0.5-inch DensDeck Prime | Fastener & Plates secured 1 fastener per 1.78ft ² | JM PVC FB | ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S) | -67.5 (Lim. 7) |
| C-AM-34 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch E3 (no AGF), E3 C1, or ProtectoR Foam | <i>Fastener & Plates</i> secured 1 fastener per 1.6ft ² | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -75 (Lim. 7) |
| C-AM-35 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch E3 (<i>no AGF</i>) orE3 C1 | Fastener & Plates secured 1 fastener per 1.6ft ² | JM PVC FB | ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S) | -75 (Lim. 7) |
| C-AM-36 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch Invinsa Foam | Fastener & Plates secured 1 fastener per 2.0ft ² | JM PVC SD Plus | PVC MA (LowVOC) | -75 (Lim. 7) |
| C-AM-37 | OPTIONAL Vapor Barrier | Min. 1.5-inch <i>E</i> 3 | Simultaneously secured with top layer | Min. 0.5-inch SECUROCK | Fastener & Plates secured 1 fastener per 1.6ft ² | JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -75 (Lim. 7) |
| C-AM-38 | OPTIONAL Vapor Barrier | Min. 2-inch <i>E</i> 3 or <i>E</i> 3 <i>C1</i> | Fastener & Plates secured 1 fastener per 1.6ft ² | Min. 0.5-inch ProtectoR HD, DensDeck Prime, or SECUROCK | OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c. | JM PVC or PVC SD Plus | PVC ASSBA | -82.5 (Lim. 7) |
| C-AM-39 | OPTIONAL Vapor Barrier | Min. 2-inch E3 or E3 C1 | Fastener & Plates secured 1 fastener per 1.6ft ² | Min. 0.5-inch ProtectoR HD, DensDeck Prime, DEXcell FA, or SECUROCK | OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c. | JM PVC or PVC SD Plus | PVC MA (LowVOC) | -82.5 (Lim. 7) |
| C-AM-40 | OPTIONAL Vapor Barrier | Min. 2-inch <i>E3</i> or <i>E3</i> C1 | Fastener & Plates secured 1 fastener per 1.6ft ² | Min. 0.5-inch ProtectoR HD, DEXcell FA, or SECUROCK | OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -82.5 (Lim. 7) |

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| | - | Assemblies | with Adhered Me | mbranes over Insu | lated Concrete Deck (N | ew, Existing, or <i>F</i> | 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-41 | OPTIONAL Vapor Barrier | Min. 2-inch <i>E3</i> or <i>E3 C1</i> | Fastener & Plates secured 1 fastener per 1.6ft ² | Min. 1.5-inch <i>E</i> 3 or <i>E</i> 3 <i>C1</i> | OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c. | JM PVC or PVC SD Plus | PVC MA (LowVOC) | -82.5 (Lim. 7) |
| C-AM-42 | OPTIONAL Vapor Barrier | Min. 2-inch <i>E</i> 3 or <i>E</i> 3 <i>C1</i> | Fastener & Plates secured 1 fastener per 1.6ft ² | Min. 1.5-inch <i>E</i> 3 (no AGF) or <i>E</i> 3 <i>C1</i> | OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c. | JM PVC or PVC SD Plus | PVC ASSBA | -82.5 (Lim. 7) |
| C-AM-43 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | Min 0.625-inch DensDeck Prime | <i>Fastener & Plates</i> secured 1 fastener per 1.33ft ² | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) or PVC WBMA | -90 (Lim. 7) |
| C-AM-44 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | Min 0.625-inch DensDeck Prime | Fastener & Plates secured 1 fastener per 1.33ft ² | JM PVC FB | ASTM D 312 Type IV Asphalt | -90 (Lim. 7) |
| C-AM-45 | OPTIONAL Vapor Barrier | Min. 1.5-inch <i>E</i> 3 | Simultaneously secured with top layer | Min. 0.5-inch DEXcell FA | Fastener & Plates or Dekfast #14 Fasteners & Plates secured 1 fastener per 1.0ft ² | JM PVC or JM PVC SD Plus | <i>PVC MA (LowVOC)</i> <i>a</i> pplied at 1.0 gal/100ft ² | -105 (Lim. 7) |
| C-AM-46 | OPTIONAL Vapor Barrier | Min. 1.5-inch <i>E</i> 3 | Simultaneously secured with top layer | Min. 0.5-inch DEXcell FA | Fastener & Plates or Dekfast #14 Fasteners & Plates secured 1 fastener per 1.0ft ² | JM PVC FB | ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S) | -105 (Lim. 7) |
| C-AM-47 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR | Fastener & Plates secured 1 fastener per 1.33ft ² | JM PVC SD Plus | PVC MA (LowVOC) | -105 (Lim. 7) |
| C-AM-48 | OPTIONAL Vapor Barrier | Min. 1.5-inch <i>E</i> 3 | Simultaneously secured with top layer | Min. 0.5-inch DensDeck Prime | Fastener & Plates secured 1 fastener per 1.0ft ² | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -112.5 (Lim. 7) |
| C-AM-49 | OPTIONAL Vapor Barrier | Min. 1.5-inch <i>E3</i> | Simultaneously secured with top layer | Min. 0.5-inch DensDeck Prime | Fastener & Plates secured 1 fastener per 1.0ft ² | JM PVC FB | ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S) | -112.5 (Lim. 7) |
| C-AM-50 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch E3 (no AGF), E3 C1, or ProtectoR Foam | Fastener & Plates secured 1 fastener per 1.0ft ² | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -120 (Lim. 7) |
| C-AM-51 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch <i>E3 (no AGF)</i> or <i>E</i> 3 C1 | Fastener & Plates secured 1 fastener per 1.0ft ² | JM PVC FB | ASTM D 312 Type IV Asphalt or <i>2-Part UIA-C(S)</i> | -120 (Lim. 7) |

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JOHNS MANVILLE CORPORATION PVC Single Ply Roofing Systems

APPENDIX D – APPROVED ASSEMBLIES FOR JM PVC SINGLE-PLY MEMBRANES

| | | Assemblies | with Adhered Me | mbranes over Insu | lated Concrete Deck (Ne | ew, Existing, or <i>F</i> | 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 | <i>MDP</i> (psf) |
| C-AM-52 | OPTIONAL Vapor Barrier | Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or <i>E</i> 3 <i>C1</i> | Fastener & Plates secured 1 fastener per 1ft ² | Min. 1.5-inch ENRGY 3 | OSFA, RSUA or 2-Part UIA applied 4-inch o.c. | JM PVC or PVC SD Plus | PVC MA (LowVOC) | -120 (Lim. 7) |
| C-AM-53 | OPTIONAL Vapor Barrier | Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or <i>E3 C1</i> | Fastener & Plates secured 1 fastener per 1ft ² | Min. 1.5-inch ENRGY 3 | OSFA, RSUA or 2-Part UIA applied 4-inch o.c. | JM PVC FB | ASTM D 312 Type IV Asphalt | -120 (Lim. 7) |
| C-AM-54 | OPTIONAL Vapor Barrier | Min. 2-inch <i>E</i> 3 or <i>E</i> 3 C1 | Fastener & Plates secured 1 fastener per 1ft ² | ProtectoR HD | OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 4-inch o.c. | JM PVC or PVC SD Plus | PVC MA (LowVOC) | -120 (Lim. 7) |
| C-AM-55 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | Min. 0.5-inch DEXcell FA | Fastener & Plates or Dekfast #14 Fasteners & Plates secured 1 fastener per 1ft ² | JM PVC FB | 2-Part UIA-C(S) | -135 (Lim. 7) |

| | | Mechani | ically Fastened Asse | emblies over Concrete | Deck (New or E | Existing) | |
|---------------|---|---|-------------------------|------------------------------|---|---|------------------------------------|
| System No. | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) |
| C-M-1 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC | Attached in-lap 6-inch o.c. with Extra HL Fastener & Plates; Fastener rows max. 114-inch o.c. | -37.5 (Lim. 7; Non- HVHZ) |
| C-M-2 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC | Attached in-lap 12-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 5-inch wide side laps; Fastener rows max. 73-inch o.c. | -45 (Lim. 7) |
| С-М-3 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC, JM PVC SD Plus, or JM PVC SL | Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 6-inch wide side laps; Fastener rows max. 114-inch o.c. | -45 (Lim. 7) |
| C-M-4 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC SD Plus | Attached in-lap 12-inch o.c. with HL Fasteners & Plates; Min. 6-inch wide side laps; Fastener rows max. 54-inch o.c. | -45 (Lim. 7) |

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| | | Mechani | cally Fastened Asse | emblies over Concrete | Deck (New or I | Existing) | - |
|---------------|---|---|-------------------------|------------------------------|-----------------------------------|---|-------------------|
| System No. | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) |
| C-M-5 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC | Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Fastener rows max. 72-inch o.c. | -45 (Lim. 7) |
| C-M-6 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | <i>JM PVC</i> (Min. 60 mil) | Attached in-lap 12-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 5-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 73-inch o.c. | -52.5 (Lim. 7) |
| C-M-7 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC FB/ DynaFast | HL Fasteners & Plates spaced 6-inch o.c within each min. 4-inch heat welded side laps in rows max. 70-inch o.c. | -52.5 (Lim. 9) |
| C-M-8 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC | Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 5-inch wide side laps; Fastener rows max. 73-inch o.c. | -60 (Lim. 7) |
| C-M-9 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC SD Plus or JM PVC SL | Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 6-inch wide side laps; Fastener rows max. 54-inch o.c. | -60 (Lim. 7) |
| C-M-10 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC or JM PVC FB | Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Min. 4.5-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 114-inch o.c. | -60 (Lim. 7) |
| C-M-11 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC | Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Min. 5.5-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 114-inch o.c. | -60 (Lim. 7) |
| C-M-12 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC | Attached in-lap 6-inch o.c. with Extra High Load Fasteners & OMG Super XHD 2-3/4 Barbed Plates; Min. 5.5-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 114-inch o.c. | -60 (Lim. 7) |
| C-M-13 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC FB/ DynaFast | APB Fasteners & Plates spaced 6-inch o.c within each min. 4-inch heat welded side lap. | -60 (Lim. 9) |
| C-M-14 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC FB/ DynaFast | HL Fasteners & Plates spaced 12-inch o.c within each min. 4-inch heat welded side lap. | -60 (Lim. 9) |

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| | | Mechani | ically Fastened Asse | emblies over Concrete | Deck (New or I | Existing) | |
|---------------|---|---|-------------------------|------------------------------|--------------------------------|---|---------------------|
| System No. | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | <i>MDP</i> (psf) |
| C-M-15 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC FB/ DynaFast | High Load LH Fasteners and Polymer Membrane Batten OR High Load Fasteners and Deep Well Batten strip spaced 6-inch o.c. within min. 4-inch heat welded side laps in rows max. 71-inch o.c. | -60 (Lim. 9) |
| C-M-16 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | <i>JM PVC</i> (Min. 60 mil) | Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 6-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 72-inch o.c. | -75 (Lim. 7) |

| | | Indu | ction Welded A | Assemblies over <i>Concrete Deck</i> (N | lew, Existing, | or Recover) | |
|---------------|---|--|-------------------------|---|--|--|------------------------------------|
| System No. | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) |
| C-W-1 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | <i>JM PVC SD</i> <i>Plus</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates with All Purpose Fasteners placed max. 12" o.c. in rows max. 72" o.c. | -37.5 (Lim. 7; Non- HVHZ) |
| C-W-2 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with ISOWELD-#14 or ISOWELD-#15 spaced 12" o.c. in rows 60" o.c. | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -37.5 (Lim. 7; Non- HVHZ) |
| C-W-3 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with ISOWELD-#14 or ISOWELD-#15 spaced in a 2-ft x 3-ft staggered grid | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -37.5 (Lim. 7; Non- HVHZ) |
| C-W-4 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with ISOWELD-#14 or ISOWELD-#15 spaced in a 2-ft x 3-ft staggered grid | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -37.5 (Lim. 7; Non- HVHZ) |
| C-W-5 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | <i>JM PVC SD Plus</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates with All Purpose Fasteners placed max. 12" o.c. in rows max. 60" o.c. | -45 (Lim. 7) |
| C-W-6 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with ISOWELD-#14 or ISOWELD-#15 spaced 24" o.c. in rows 24" o.c. | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -45 (Lim. 7) |

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| | | | ction Welded | Assemblies over Concrete Deck (N | lew, Existing, | or Recover) | |
|---------------|---|--|-------------------------|---|--|---|-------------------|
| System No. | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) |
| C-W-7 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with ISOWELD-#14 or ISOWELD-#15 spaced 12" o.c. in rows 60" o.c. | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -45 (Lim. 7) |
| C-W-8 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with All Purpose Fasteners and JM PVC RhinoPlates in a 2-ft x 2-ft staggered grid pattern | <i>JM PVC SD Plus</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates | -52.5 (Lim. 7) |
| C-W-9 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with ISOWELD-#14 or ISOWELD-#15 spaced 6" o.c. in rows 60" o.c. | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -60 (Lim. 7) |
| C-W-10 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with All Purpose Fasteners and JM PVC RhinoPlates at a rate of 8 per 4-ft x 8-ft board Pattern #1 (1 fastener per 4.0-ft ²) | <i>JM PVC</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates | -67.5 (Lim. 7) |
| C-W-11 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with ISOWELD-#14 or ISOWELD-#15 spaced 18" o.c. in rows 24" o.c. | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -67.5 (Lim. 7) |
| C-W-12 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | <i>JM PVC SD Plus</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates with All Purpose Fasteners placed max. 6" o.c. in rows max. 72" o.c. | -82.5 (Lim. 7) |
| C-W-13 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with ISOWELD-#14 or ISOWELD-#15 spaced in a 1.5-ft x 2- ft staggered grid | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -82.5 (Lim. 7) |
| C-W-14 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with ISOWELD-#14 or ISOWELD-#15 spaced 18" o.c. in rows 18" o.c. | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -82.5 (Lim. 7) |
| C-W-15 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC SD Plus (Min. 60 mil) | Induction welded to JM PVC RhinoPlates with All Purpose Fasteners placed max. 6" o.c. in rows max. 60" o.c. | -90 (Lim. 7) |
| C-W-16 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with All Purpose Fasteners and JM PVC RhinoPlates at a rate of 15 per 4-ft x 8-ft board (1 fastener per 2.13-ft ²) | <i>JM PVC</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates | -90 (Lim. 7) |

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| | Induction Welded Assemblies over Concrete Deck (New, Existing, or Recover) | | | | | | | | | | | |
|---------------|--|--|-------------------------|--|--|---------------------------------------|-----------------|--|--|--|--|--|
| System No. | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) | | | | | |
| C-W-17 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with ISOWELD-#14 or ISOWELD-#15 spaced 6" o.c. in rows 60" o.c. | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -90 (Lim. 7) | | | | | |

| | | | Adhered Asse | mblies over CW | /F Deck (New or Ex | xisting) | | |
|---------------|--|---|---|-------------------------------|--|-----------------------------|--|--------------------|
| System No. | Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) |
| CW-A-1 | - | OPTIONAL Min. 1-inch ENRGY 3 | <i>OSFA</i> applied 12-inch o.c. | JM Invinsa or ProtectoR HD | OSFA or 2-Part UIA applied 12-inch o.c. | JM PVC | <i>PVC MA (LowVOC)</i> applied at 0.83 gal/100ft ² or <i>PVC WBMA</i> | -112.5 (Lim. 9) |
| CW-A-2 | - | OPTIONAL Min. 1-inch ENRGY 3 | <i>OSFA</i> applied 12-inch o.c. | JM Invinsa or ProtectoR HD | OSFA or 2-Part UIA applied 12-inch o.c. | JM PVC SD Plus | <i>PVC MA (LowVOC)</i> applied at 0.83 gal/100ft ² or <i>PVC WBMA</i> | -112.5 (Lim. 9) |
| CW-A-3 | - | OPTIONAL Min. 1-inch ENRGY 3 | <i>OSFA</i> applied 12-inch o.c. | SECUROCK | RSUA, OSFA, or 2-Part UIA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -140 (Lim. 9) |
| CW-A-4 | OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck | Min. 1.5-inch ENRGY 3 | RSUA applied 12-inch o.c. | - | - | JM PVC | <i>PVC MA (LowVOC)</i> applied at 0.83 gal/100ft ² | -150 (Lim. 9) |
| CW-A-5 | OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck | Min. 1.5-inch ENRGY 3 | RSUA applied 12-inch o.c. | - | - | JM PVC SD Plus | <i>PVC MA (LowVOC)</i> applied at 0.83 gal/100ft ² | -150 (Lim. 9) |
| CW-A-6 | - | Min. 1-inch ENRGY 3 or ProtectoR Foam | OSFA applied 12-inch o.c. | - | - | JM PVC | <i>PVC MA (LowVOC)</i> applied at 0.83 gal/100ft ² | -157.5 (Lim. 9) |
| CW-A-7 | - | Min. 1.5-inch ENRGY 3 | OSFA applied 12-inch o.c. | - | - | JM PVC SD Plus | PVC MA (LowVOC) applied at 0.83 gal/100ft ² | -157.5 (Lim. 9) |
| CW-A-8 | OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck | Min. 1.5-inch ENRGY 3 | <i>OSFA</i> or <i>RSUA</i> applied 12-inch o.c. | Protector R HD | OSFA or RSUA applied 12-inch o.c. | JM PVC JM PVC SD Plus | PVC WBMA or PVC MA (LowVOC) | -157.5 (Lim. 9) |

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| Adhered Assemblies over CWF Deck (New or Existing) | | | | | | | | |
|--|--|---|---|-------------------|---|-----------------------------|--------------------------------|-----------------------------------|
| System No. | Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) |
| CW-A-9 | OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck | Min. 1.5-inch ENRGY 3 | OSFA or RSUA applied 12-inch o.c. | Protector R HD | OSFA or RSUA applied 12-inch o.c. | JM PVC SD Plus | PVC ASSBA | -157.5 (Lim. 9) |
| CW-A-10 | OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck | Min. 1.5-inch ENRGY 3 | OSFA or RSUA applied 12-inch o.c. | Protector R HD | OSFA or RSUA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) or PVC WBMA | -157.5 (Lim. 9) |
| CW-A-11 | OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck | Min. 1.5-inch ENRGY 3 | OSFA or RSUA applied 12-inch o.c. | DensDeck Prime | OSFA or RSUA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -157.5 (Lim. 9) |
| CW-A-12 | - | Min. 475 psi Celcore MF with HS Rheology Admixture installed | Poured-in-place | - | - | JM PVC FB | RSUA applied 12-inch o.c. | -167.5 (Lim. 9) |
| CW-A-13 | - | Min. 475 psi Celcore MF with HS Rheology Admixture installed | Poured-in-place | - | - | JM PVC FB | RSUA applied 4-inch o.c. | -197.5 (Lim. 9) |
| CW-A-14 | OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck | Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF | RSUA applied 12-inch o.c. | - | - | JM PVC FB | 2-Part UIA-C(S) | -255 (Lim. 9; HVHZ only) |
| CW-A-15 | OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck | Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF | <i>RSUA a</i> pplied 12-inch o.c. | - | - | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -255 (Lim. 9; HVHZ only) |
| CW-A-16 | OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck | Min. 1.5-inch ENRGY 3 CGF | <i>RSUA a</i> pplied 12-inch o.c. | SECUROCK | RSUA applied 12-inch o.c. | JM PVC JM PVC SD Plus | PVC MA (Low VOC) | -255 (Lim. 9; HVHZ only) |
| CW-A-17 | OPTIONAL Vapor Barriers for Adhered Assemblies over CWF Deck | Min. 1.5-inch ENRGY 3 CGF | RSUA applied 12-inch o.c. | SECUROCK | <i>RSUA a</i> pplied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -255 (Lim. 9; HVHZ only) |

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| | | Assemblies with Adh | ered Membranes | over Cementitious Wood | d Fiber Deck (Ne | w or Existing) | |
|---------------|----------------------------------|---|------------------------------------|--|-----------------------------|--------------------------------------|----------------------------------|
| System No. | Base Insulation/Sheet | Base Insulation/Sheet Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) |
| CW-AM-1 | DynaBase or Ventsulation Felt | OlyLok 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 (no AGF) or E3 | 2 <i>-Part UIA</i> , applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -45 (Lim. 7; Non- HVHZ) |
| CW-AM-2 | DynaBase or Ventsulation Felt | OlyLok 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 | 2-Part UIA, applied 12-inch o.c. | JM PVC FB | RSUA 12-inch o.c. or 2-Part UIA-C(S) | -45 (Lim. 7; Non- HVHZ) |

| | Mechanically Fastened Assemblies over CWF Deck (New or Existing) | | | | | | | | | |
|---------------|--|-------------------------------|----------------|------------------------------|------------------------|---|-----------------|--|--|--|
| System No. | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) | | | |
| CW-M-1 | - | - | - | - | JM PVC FB/ DynaFast | 1.8" Twin Loc-Nail without integrated plate fastened 6-inch o.c. along Straight Line Batten Bar within min. 4-inch heat welded side laps and in one intermediate row centered between side laps | -60 (Lim. 9) | | | |

| | | Adhei | red Assemblies ove | er Poured Gypsum | Deck (New or Existi | ng) | |
|---------------|--|---------------------------------|-------------------------------|---------------------------------|---------------------|---|-----------------|
| System No. | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) |
| G-A-1 | Min. 1.5-inch <i>E</i> 3 (no FR) or ProtectoR Foam | 2-Part UIA applied 12-inch o.c. | - | - | JM PVC | PVC MA (LowVOC) or PVC ASSBA (E3 only, no AGF) | -60 (Lim. 9) |
| G-A-2 | Min. 1.5-inch <i>E</i> 3 (no FR) or ProtectoR Foam | 2-Part UIA applied 12-inch o.c. | - | - | JM PVC FB | RSUA applied 12-inch o.c. | -60 (Lim. 9) |
| G-A-3 | Min. 1.5-inch <i>E3</i> (no FR) | 2-Part UIA applied 12-inch o.c. | JM Invinsa or ProtectoR HD | 2-Part UIA applied 12-inch o.c. | JM PVC | PVC MA (LowVOC) applied at 0.83 gal/100ft ² , PVC WBMA or PVC ASSBA (no Invinsa) | -60 (Lim. 9) |
| G-A-4 | Min. 1.5-inch <i>E</i> 3 (no FR) | 2-Part UIA applied 12-inch o.c. | JM Invinsa or ProtectoR HD | 2-Part UIA applied 12-inch o.c. | JM PVC SD Plus | PVC MA (LowVOC) applied at 0.83 gal/100ft ² , PVC WBMA or PVC ASSBA (no Invinsa) | -60 (Lim. 9) |

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| | | Adhe | red Assemblies ov | er Poured Gypsum | Deck (New or Exist | ing) | |
|---------------|---|----------------------------------|-------------------------------|---|-----------------------------|--|-------------------------------------|
| System No. | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) |
| G-A-5 | Min. 1.5-inch <i>E</i> 3 (no FR) | 2-Part UIA applied 12-inch o.c. | SECUROCK | RSUA or 2-Part UIA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC), PVC WBMA or PVC ASSBA | -60 (Lim. 9) |
| G-A-6 | Min. 1-inch ENRGY 3 or ProtectoR Foam | OSFA applied 12-inch o.c. | - | - | JM PVC or JM PVC SD Plus | PVC MA (LowVOC); Applied 1.67 gal/100ft ² , PVC WBMA or PVC ASSBA (no ProtectoR Foam) | -77.5 (Lim. 9) |
| G-A-7 | Min. 1-inch ENRGY 3 | <i>OSFA</i> applied 12-inch o.c. | JM Invinsa or ProtectoR HD | OSFA applied 12-inch o.c. | JM PVC | PVC MA (LowVOC) applied at 0.83 gal/100ft ² , PVC WBMA or PVC ASSBA (no Invinsa) | -77.5 (Lim. 9) |
| G-A-8 | Min. 1-inch ENRGY 3 | <i>OSFA</i> applied 12-inch o.c. | JM Invinsa or ProtectoR HD | OSFA applied 12-inch o.c. | JM PVC SD Plus | PVC MA (LowVOC) applied at 0.83 gal/100ft ² , PVC WBMA or PVC ASSBA (no Invinsa) | -77.5 (Lim. 9) |
| G-A-9 | Min. 1-inch ENRGY 3 | OSFA applied 12-inch o.c. | JM Invinsa or ProtectoR HD | OSFA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) or PVC WBMA | -77.5 (Lim. 9) |
| G-A-10 | Min. 1-inch ENRGY 3 | OSFA applied 12-inch o.c. | JM Invinsa | OSFA applied 12-inch o.c. | JM PVC FB | ASBA | -77.5 (Lim. 9) |
| G-A-11 | OPTIONAL Min. 1-inch ENRGY 3 | OSFA applied 12-inch o.c. | SECUROCK | RSUA or OSFA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -77.5 (Lim. 9) |
| G-A-12 | OPTIONAL Min. 1-inch ENRGY 3 | OSFA applied 12-inch o.c. | SECUROCK | RSUA or OSFA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -77.5 (Lim. 9) |
| G-A-13 | JM Invinsa | OSFA applied 12-inch o.c. | - | - | JM PVC | PVC MA (LowVOC) applied at 0.83 gal/100ft ² or PVC WBMA | -92.5 (Lim. 9) |
| G-A-14 | JM Invinsa | OSFA applied 12-inch o.c. | - | - | JM PVC SD Plus | PVC MA (LowVOC) applied at 0.83 gal/100ft ² or PVC WBMA | -92.5 (Lim. 9) |
| G-A-15 | Min. 1.5-inch <i>E3</i> (no FR) | UIA at 12-inch o.c. | JM Invinsa or ProtectoR HD | UIA applied 12-inch o.c. | JM PVC | PVC MA (LowVOC) applied at 0.83 gal/100ft ² or PVC WBMA | -112.5 (Lim. 9) |
| G-A-16 | Min. 1.5-inch <i>E3</i> (no FR) | UIA at 12-inch o.c. | ProtectoR HD | UIA applied 12-inch o.c. | JM PVC | PVC ASSBA | -112.5 (Lim. 9) |
| G-A-17 | Min. 1.5-inch <i>E3</i> (no FR) | UIA at 12-inch o.c. | JM Invinsa or ProtectoR HD | UIA applied 12-inch o.c. | JM PVC SD Plus | PVC MA (LowVOC) applied at 0.83 gal/100ft ² or PVC WBMA | -112.5 (Lim. 9) |
| G-A-18 | Min. 1.5-inch <i>E3</i> (no FR) | UIA at 12-inch o.c. | ProtectoR HD | UIA applied 12-inch o.c. | JM PVC SD Plus | PVC ASSBA | -112.5 (Lim. 9) |
| G-A-19 | Min. 1.5-inch ENRGY 3 or ProtectoR Foam | OSFA applied 12-inch o.c. | - | - | JM PVC SD Plus | PVC ASSBA | -142.5 (Lim. 9; Non- HVHZ) |
| G-A-20 | Min. 1.5-inch <i>E3</i> or ProtectoR Foam | OSFA applied 12-inch o.c. | - | - | JM PVC FB | 2-Part UIA-C(S) | -150 (Lim. 9; Non- HVHZ) |

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| | | Adhe | red Assemblies ove | er Poured Gypsum | Deck (New or Existi | ng) | |
|---------------|---|-------------------------------|--------------------|------------------------------|-----------------------------|---|-----------------------------------|
| System No. | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) |
| G-A-21 | Min. 1.5-inch ENRGY 3 or ProtectoR Foam | OSFA applied 12-inch o.c. | - | - | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -150 (Lim. 9; Non- HVHZ) |
| G-A-22 | Min. 1.5-inch ENRGY 3 or ProtectoR Foam | OSFA applied 12-inch o.c. | - | - | JM PVC SD Plus | PVC ASSBA | -150 (Lim. 9; Non- HVHZ) |
| G-A-23 | OPTIONAL Min. 1.5-inch ENRGY 3 | OSFA applied 12-inch o.c. | ProtectoR | OSFA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -150 (Lim. 9; Non- HVHZ) |
| G-A-24 | OPTIONAL Min. 1.5-inch ENRGY 3 | OSFA applied 12-inch o.c. | ProtectoR | OSFA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC WBMA or PVC MA (LowVOC) | -150 (Lim. 9; Non- HVHZ) |
| G-A-25 | OPTIONAL Min. 1.5-inch ENRGY 3 | OSFA applied 12-inch o.c. | ProtectoR | OSFA applied 12-inch o.c. | JM PVC SD Plus | PVC ASSBA | -150 (Lim. 9; Non- HVHZ) |
| G-A-26 | OPTIONAL Min. 1.5-inch ENRGY 3 | OSFA applied 12-inch o.c. | DensDeck Prime | OSFA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -150 (Lim. 9; Non- HVHZ) |
| G-A-27 | OPTIONAL Min. 1.5-inch ENRGY 3 | OSFA applied 12-inch o.c. | DensDeck Prime | OSFA applied 12-inch o.c. | JM PVC SD Plus | PVC ASSBA | -150 (Lim. 9; Non- HVHZ) |
| G-A-28 | OPTIONAL Min. 1.5-inch ENRGY 3 | OSFA applied 12-inch o.c. | DensDeck Prime | OSFA applied 12-inch o.c. | JM PVC FB | <i>2-Part UIA-C(S)</i> or ASTM D 312, Type IV Asphalt | -150 (Lim. 9; Non- HVHZ) |
| G-A-29 | OPTIONAL Min. 1.5-inch ENRGY 3 | OSFA applied 12-inch o.c. | SECUROCK | OSFA applied 12-inch o.c. | JM PVC FB | RSUA applied 12-inch o.c. after DynaBase HW torched adhered | -150 (Lim. 9; Non- HVHZ) |
| G-A-30 | OPTIONAL Min. 1.5-inch ENRGY 3 | OSFA applied 12-inch o.c. | SECUROCK | OSFA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -150 (Lim. 9; Non- HVHZ) |

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| | | Adhe | red Assemblies over | er Poured Gypsum | Deck (New or Existi | ng) | |
|---------------|--|-------------------------------|---------------------|------------------------------|-----------------------------|---|-----------------------------------|
| System No. | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) |
| G-A-31 | OPTIONAL Min. 1.5-inch ENRGY 3 | OSFA applied 12-inch o.c. | SECUROCK | OSFA applied 12-inch o.c. | JM PVC SD Plus | PVC ASSBA | -150 (Lim. 9; Non- HVHZ) |
| G-A-32 | OPTIONAL Min. 1.5-inch ENRGY 3 | OSFA applied 12-inch o.c. | SECUROCK | OSFA applied 12-inch o.c. | JM PVC FB | <i>2-Part UIA-C(S)</i> or ASTM D 312, Type IV Asphalt | -150 (Lim. 9; Non- HVHZ) |
| G-A-33 | OPTIONAL Min. 1.5-inch ENRGY 3 | OSFA applied 12-inch o.c. | DEXcell CB | OSFA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -150 (Lim. 9; Non- HVHZ) |
| G-A-34 | OPTIONAL Min. 1.5-inch ENRGY 3 | OSFA applied 12-inch o.c. | DEXcell CB | OSFA applied 12-inch o.c. | JM PVC SD Plus | PVC ASSBA | -150 (Lim. 9; Non- HVHZ) |
| G-A-35 | OPTIONAL Min. 1.5-inch ENRGY 3 | OSFA applied 12-inch o.c. | DEXcell FA | OSFA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -150 (Lim. 9; Non- HVHZ) |
| G-A-36 | OPTIONAL Min. 1.5-inch ENRGY 3 | OSFA applied 12-inch o.c. | DEXcell FA | OSFA applied 12-inch o.c. | JM PVC FB | <i>2-Part UIA-C(S)</i> or ASTM D 312, Type IV Asphalt | -150 (Lim. 9; Non- HVHZ) |
| G-A-37 | Min. 1.5-inch <i>E3</i> or ProtectoR Foam | RSUA applied 12-inch o.c. | - | - | JM PVC FB | 2-Part UIA-C(S) | -180 (Lim. 9; Non- HVHZ) |
| G-A-38 | OPTIONAL Min. 1.5-inch ENRGY 3 | RSUA applied 12-inch o.c. | ProtectoR | RSUA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -180 (Lim. 9; Non- HVHZ) |
| G-A-39 | OPTIONAL Min. 1.5-inch ENRGY 3 | RSUA applied 12-inch o.c. | ProtectoR | RSUA applied 12-inch o.c. | JM PVC SD Plus | PVC ASSBA | -180 (Lim. 9; Non- HVHZ) |
| G-A-40 | OPTIONAL Min. 1.5-inch ENRGY 3 | RSUA applied 12-inch o.c. | ProtectoR | RSUA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -180 (Lim. 9; Non- HVHZ) |

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| | | Adhe | red Assemblies ove | er Poured Gypsum | Deck (New or Existin | ng) | |
|---------------|--------------------------------------|-------------------------------|--------------------|------------------------------|-----------------------------|--|-----------------------------------|
| System No. | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) |
| G-A-41 | OPTIONAL Min. 1.5-inch ENRGY 3 | RSUA applied 12-inch o.c. | DensDeck Prime | RSUA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -210 (Lim. 9; Non- HVHZ) |
| G-A-42 | OPTIONAL Min. 1.5-inch ENRGY 3 | RSUA applied 12-inch o.c. | DensDeck Prime | RSUA applied 12-inch o.c. | JM PVC SD Plus | PVC ASSBA | -210 (Lim. 9; Non- HVHZ) |
| G-A-43 | OPTIONAL Min. 1.5-inch ENRGY 3 | RSUA applied 12-inch o.c. | DensDeck Prime | RSUA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) or ASTM D 312, Type IV Asphalt | -210 (Lim. 9; Non- HVHZ) |
| G-A-44 | OPTIONAL Min. 1.5-inch ENRGY 3 | RSUA applied 12-inch o.c. | SECUROCK | RSUA applied 12-inch o.c. | JM PVC FB | <i>RSUA</i> applied 12-inch o.c. after DynaBase HW torched adhered | -210 (Lim. 9; Non- HVHZ) |
| G-A-45 | OPTIONAL Min. 1.5-inch ENRGY 3 | RSUA applied 12-inch o.c. | SECUROCK | RSUA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -210 (Lim. 9; Non- HVHZ) |
| G-A-46 | OPTIONAL Min. 1.5-inch ENRGY 3 | RSUA applied 12-inch o.c. | SECUROCK | RSUA applied 12-inch o.c. | JM PVC SD Plus | PVC ASSBA | -210 (Lim. 9; Non- HVHZ) |
| G-A-47 | OPTIONAL Min. 1.5-inch ENRGY 3 | RSUA applied 12-inch o.c. | SECUROCK | RSUA applied 12-inch o.c. | JM PVC FB | <i>2-Part UIA-C(S)</i> or ASTM D 312, Type IV Asphalt | -210 (Lim. 9; Non- HVHZ) |
| G-A-48 | OPTIONAL Min. 1.5-inch ENRGY 3 | RSUA applied 12-inch o.c. | DEXcell CB | RSUA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -210 (Lim. 9; Non- HVHZ) |
| G-A-49 | OPTIONAL Min. 1.5-inch ENRGY 3 | RSUA applied 12-inch o.c. | DEXcell CB | RSUA applied 12-inch o.c. | JM PVC SD Plus | PVC ASSBA | -210 (Lim. 9; Non- HVHZ) |
| G-A-50 | OPTIONAL Min. 1.5-inch ENRGY 3 | RSUA applied 12-inch o.c. | DEXcell FA | RSUA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -210 (Lim. 9; Non- HVHZ) |

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| | | Adhe | red Assemblies ove | er Poured Gypsum | Deck (New or Exist | ing) | |
|---------------|---|-------------------------------|--------------------|------------------------------|-----------------------------|--|-----------------------------------|
| System No. | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) |
| G-A-51 | OPTIONAL Min. 1.5-inch ENRGY 3 | RSUA applied 12-inch o.c. | DEXcell FA | RSUA applied 12-inch o.c. | JM PVC FB | <i>2-Part UIA-C</i> (S), or ASTM D 312, Type IV Asphalt | -210 (Lim. 9; Non- HVHZ) |
| G-A-52 | Min. 1.5-inch ENRGY 3 or ProtectoR Foam | RSUA applied 12-inch o.c. | - | - | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -210 (Lim. 9; Non- HVHZ) |
| G-A-53 | Min. 1.5-inch ENRGY 3 or ProtectoR Foam | RSUA applied 12-inch o.c. | - | - | JM PVC SD Plus | PVC ASSBA | -210 (Lim. 9; Non- HVHZ) |
| G-A-54 | Min. 1.5-inch ENRGY 3 | RSUA applied 12-inch o.c. | - | - | JM PVC FB | ASTM D 312 Type IV Asphalt | -210 (Lim. 9; Non- HVHZ) |

| | | Assemblie | es with Adhered M | lembranes over Insulated Gypsu | m Deck (New or | Existing) | |
|---------------|-------------------------------------|---|--|---|--------------------------------|--|----------------------------------|
| System No. | Base Insulation | Base Insulation Attachment | Top Insulation or Base Sheet | Top Insulation or Base Sheet Attachment | Membrane | Membrane Attachment | MDP (psf) |
| G-AM-1 | DynaBase or Ventsulation Felt | OlyLok 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 <i>E3 (no AGF)</i> or <i>E3 C1</i> | <i>2-Part UIA,</i> applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -45 (Lim. 7; Non- HVHZ) |
| G-AM-2 | DynaBase or Ventsulation Felt | OlyLok 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 <i>E3</i> or <i>E3 C1</i> | 2- <i>Part UIA,</i> applied 12-inch o.c. | JM PVC FB | RSUA 12-inch o.c. or 2-Part UIA- C(S) | -45 (Lim. 7; Non- HVHZ) |

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| | Mechanically Attached Assemblies over Poured Gypsum Deck (New, Existing, or Recover) | | | | | | | | | |
|------------|--|--------------------|-------------------------------|----------------|------------------------------|------------------------|---|-----------------|--|--|
| Syst No | | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) | | |
| G-N | <i>I</i> I-1 | - | - | - | - | JM PVC FB/ DynaFast | 1.8" Twin Loc-Nail without integrated plate fastened 6- inch o.c. along Straight Line Batten Bar within min. 4-inch heat welded side laps and in one intermediate row centered between side laps | -60 (Lim. 9) | | |

| | Adhered Ligh | tweight Concrete A | ssemblies over Concrete D | Deck (New or Exist | ing) | |
|---------------|--|---|--|-----------------------------|---|-------------------|
| System No. | LWIC | Insulation/Cover Board | Insulation/Cover Board Attachment | Membrane | Membrane Attachment | MDP (psf) |
| LC-A-1 | Min. 250 psi Elastizell with Zell-Crete Fibers installed over DynaBase HW over ASTM D 41 primed concrete | - | - | JM PVC FB | RSUA applied 6-inch o.c. | -75 (Lim. 9) |
| LC-A-2 | Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1 | Min. 1.5-inch ENRGY 3 or ProtectoR Foam | RSUA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC),PVC WBMA or PVC ASSBA | -77.5 (Lim. 9) |
| LC-A-3 | Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1 | Min. 1.5-inch ENRGY 3 or ProtectoR Foam | RSUA applied 12-inch o.c. | JM PVC FB | RSUA applied 4-inch o.c. | -77.5 (Lim. 9) |
| LC-A-4 | Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1 | Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF Top Layer: SECUROCK | Base and Top layer in <i>RSUA</i> applied 12-inch o.c. | JM PVC | PVC MA (LowVOC) or PVC ASSBA | -77.5 (Lim. 9) |
| LC-A-5 | Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1 | Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF Top Layer: SECUROCK | Base and Top layer in <i>RSUA</i> applied 12-inch o.c. | JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -77.5 (Lim. 9) |
| LC-A-6 | Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1 | Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF Top Layer: SECUROCK | Base and Top layer in <i>RSUA</i> applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -77.5 (Lim. 9) |
| LC-A-7 | Min. 300 psi <i>LWIC</i> | Min. 1.5-inch ENRGY 3 | 2-Part UIA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC), PVC WBMA or PVC ASSBA | -80 (Lim. 9) |

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| | Adhered Ligh | tweight Concrete A | ssemblies over Concrete L | Deck (New or Exist | ing) | |
|---------------|---|--|--|--------------------|--|--------------------|
| System No. | LWIC | Insulation/Cover Board | Insulation/Cover Board Attachment | Membrane | Membrane Attachment | MDP (psf) |
| LC-A-8 | Min. 300 psi <i>LWIC</i> | Min. 1.5-inch ENRGY 3 | 2 <i>-Part UIA</i> applied 12-inch o.c. | JM PVC FB | PVC WBMA or ASBA | -80 (Lim. 9) |
| LC-A-9 | Min. 300 psi <i>LWIC</i> | Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: SECUROCK | 2-Part UIA applied 12-inch o.c. | JM PVC | PVC MA (LowVOC) or PVC ASSBA | -80 (Lim. 9) |
| LC-A-10 | Min. 300 psi <i>LWIC</i> | Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: SECUROCK | 2- <i>Part UIA</i> applied 12-inch o.c. | JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -80 (Lim. 9) |
| LC-A-11 | Min. 250 psi Elastizell with Zell-Crete Fibers installed over DynaBase HW over ASTM D 41 primed concrete | - | - | JM PVC FB | RSUA applied 12-inch o.c. | -85 (Lim. 9) |
| LC-A-12 | Min. 330 psi <i>LWIC</i> | - | - | JM PVC FB | PVC WBMA | -90 (Lim. 9) |
| LC-A-13 | Min. 383.5 psi Celcore MF with HS Rheology Admixture installed over OPTIONAL JM Vapor Barrier SA, DynaBase HW, DynaWeld 180 S over ASTM D 41 primed concrete | - | - | JM PVC FB | PVC WBMA or RSUA applied 6-inch o.c. | -92.5 (Lim. 9) |
| LC-A-14 | Min. 383.5 psi Celcore MF with HS Rheology Admixture installed over OPTIONAL JM Vapor Barrier SA, DynaBase HW, DynaWeld 180 S over ASTM D 41 primed concrete | - | - | JM PVC FB | <i>PVC WBMA</i> or <i>RSUA</i> applied 12-inch o.c. | -102.5 (Lim. 9) |
| LC-A-15 | Min. 160 psi Elastizell | Base Layer: Min. 1.5-inch <i>E3</i> (no FR) Top Layer: JM Invinsa or ProtectoR HD | Base Layer: <i>UIA</i> applied 6-inch o.c. or 2- <i>Part UIA</i> applied 12-inch o.c. Top Layer: <i>UIA</i> applied 12-inch o.c. | JM PVC | <i>PVC MA (LowVOC)</i> applied at 0.83 gal/100ft ² or <i>PVC WBMA</i> | -112.5 (Lim. 9) |

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| | Adhered Ligh | tweight Concrete A | ssemblies over Concrete L | Deck (New or Exist | ing) | |
|---------------|---|---|---|-----------------------------|--|--------------------|
| System No. | LWIC | Insulation/Cover Board | Insulation/Cover Board Attachment | Membrane | Membrane Attachment | MDP (psf) |
| LC-A-16 | Min. 160 psi Elastizell | Base Layer: Min. 1.5-inch <i>E3</i> (no FR) | Base Layer: <i>UIA</i> applied 6-inch o.c. or 2- <i>Part UIA</i> applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC ASSBA | -112.5 (Lim. 9) |
| | | Top Layer: ProtectoR HD | Top Layer: <i>UIA</i> applied 12-inch o.c. | | | |
| LC-A-17 | Min. 160 psi Elastizell | Base Layer: Min. 1.5-inch <i>E</i> 3 (no FR) | Base Layer: <i>UIA</i> applied 6-inch o.c. or 2- <i>Part UIA</i> applied 12-inch o.c. | JM PVC SD Plus | PVC MA (LowVOC) applied at 0.83 gal/100ft ² or PVC WBMA | -112.5 (Lim. 9) |
| | | Top Layer: JM Invinsa or ProtectoR HD | Top Layer: <i>UIA</i> applied 12-inch o.c. | | | (-) |
| LC-A-18 | Min. 250 psi Elastizell with Zell-Crete Fibers | - | - | JM PVC FB | RSUA applied 12-inch o.c. | -117.5 (Lim. 9) |
| LC-A-19 | Min. 310 psi Elastizell with Zell-Crete Fibers | Min. 1.5-inch ENRGY 3 or ProtectoR Foam | 2-Part UIA applied 12-inch o.c | JM PVC or JM PVC SD Plus | PVC MA (LowVOC), PVC WBMA, or PVC ASSBA | -127.5 (Lim. 9) |
| LC-A-20 | Min. 310 psi Elastizell with Zell-Crete Fibers | Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: SECUROCK | <i>2-Part UIA</i> applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -130 (Lim. 9) |
| LC-A-21 | Min. 310 psi Elastizell with Zell-Crete Fibers | Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: SECUROCK | <i>2-Part UIA</i> applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -130 (Lim. 9) |
| LC-A-22 | Min. 375 psi Concrecel | - | - | JM PVC FB | RSUA applied 12-inch o.c. | -147.5 (Lim. 9) |
| LC-A-23 | Min. 475 psi Celcore MF with HS Rheology Admixture installed over OPTIONAL DynaBase HW or DynaWeld 180 S | - | - | JM PVC FB | PVC WBMA or RSUA applied 12-inch o.c. | -167.5 (Lim. 9) |
| LC-A-24 | Min. 375 psi Concrecel | - | - | JM PVC FB | RSUA applied 6-inch o.c. | -172.5 (Lim. 9) |
| LC-A-25 | Min. 550 psi Elastizell with Zell-Fibers | - | - | JM PVC FB | RSUA applied 12-inch o.c. | -177.5 (Lim. 9) |

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| | Adhered Ligh | tweight Concrete A | ssemblies over Concrete L | Deck (New or Exist | ing) | |
|---------------|--|---------------------------|--|---|--|----------------------------------|
| System No. | LWIC | Insulation/Cover Board | Insulation/Cover Board Attachment | Membrane | Membrane Attachment | <i>MDP</i> (psf) |
| LC-A-26 | Min. 300 psi Celcore MF with HS Rheology Admixture installed over torch adhered DynaWeld 180 S | - | - | JM PVC SD Plus | PVC MA (LowVOC) | -202.5 (Lim. 9 |
| LC-A-27 | Min. 300 psi Celcore MF with HS Rheology Admixture installed over torch adhered DynaWeld 180 S | - | - | <i>JM PVC FB</i> (Min. 60-mil) | <i>PVC WBMA</i> or <i>RSUA</i> applied 4-inch o.c. | -202.5 (Lim. 9 |
| LC-A-28 | Min. 262 psi <i>LWIC</i> | SECUROCK | <i>2-Part UIA</i> applied 12-inch o.c | Base Ply: DynaBase HW Membrane: <i>JM PVC FB</i> | Base Ply: Torch adhered Membrane: <i>RSUA</i> applied 12-inch o.c. | -210 (Lim. 9 Non- HVHZ) |
| LC-A-29 | Min. 550 psi Elastizell with Zell-Fibers | - | - | JM PVC FB | RSUA applied 6-inch o.c. | -225 (Lim. 9 |
| LC-A-30 | Min. 360 psi Celcore MF with HS Rheology Admixture | - | - | JM PVC SD Plus | PVC MA (LowVOC) | -222.5 (Lim. 9 |
| LC-A-31 | Min. 360 psi Celcore MF with HS Rheology Admixture | - | - | JM PVC FB (Min. 60-mil) | PVC WBMA or RSUA applied 4-inch o.c. | -222.5 (Lim. 9 |
| LC-A-32 | Min. 475 psi Celcore MF with HS Rheology Admixture installed over OPTIONAL DynaBase HW | - | - | JM PVC FB | RSUA applied 4-inch o.c. | -257.5 (Lim. 9 |
| LC-A-33 | Min. 383.5 psi Celcore MF with HS Rheology Admixture (No EPS Board) installed over DynaBase HW over ASTM D 41 primed concrete | - | - | JM PVC FB | RSUA applied 6-inch o.c. | -262.5 (Lim. 9 |
| LC-A-34 | Min. 250 Elastizell with Zell-Crete Fibers (no EPS Board) | - | - | JM PVC FB | RSUA applied 6-inch o.c. | -290 (Lim. 9 |
| LC-A-35 | Min. 300 psi Celcore MF with HS Rheology Admixture installed over torch adhered DynaWeld Cap 180 FR treated with Celcore S-1 | - | - | JM PVC SD Plus | PVC MA (LowVOC) | -305 (Lim. 9 |
| LC-A-36 | Min. 300 psi Celcore MF with HS Rheology Admixture installed over torch adhered DynaWeld Cap 180 FR treated with Celcore S-1 | - | - | <i>JM PVC FB</i> (Min. 60-mil) | PVC WBMA or RSUA applied 4-inch o.c. | -305 (Lim. 9 |
| LC-A-37 | Min. 375 psi Concrecel | - | - | JM PVC FB | MBR Low VOC Membrane Adhesive | -342.5 (Lim. 9 |
| _C-A-38 | Min. 370 psi Concrecel (No EPS Board) | - | - | JM PVC FB | RSUA applied 12-inch o.c. | -375 (Lim. 1 |
| _C-A-39 | Min. 250 psi Elastizell with Zell-Crete Fibers (no EPS Board) | - | - | JM PVC FB | RSUA applied 4-inch o.c. | -390 (Lim. 1 |
| _C-A-40 | Min. 383.5 psi Celcore MF with HS Rheology Admixture (no EPS board) installed over ASTM D 41 primed concrete | - | - | JM PVC FB | RSUA applied 12-inch o.c. | -417. (Lim. |



| | Adhered Lightweight Concrete Assemblies over Concrete Deck (New or Existing) | | | | | | | | | | |
|---------------|--|--|---|------------------------------|--------------------------|--------------------|--|--|--|--|--|
| System No. | LWIC | Insulation/Cover Board Board Attachment | | Membrane Membrane Attachment | | MDP (psf) | | | | | |
| LC-A-41 | Min. 370 psi Concrecel (No EPS board) | - | - | JM PVC FB | RSUA applied 6-inch o.c. | -480 (Lim. 9) | | | | | |
| LC-A-42 | Min. 383.5 psi Celcore MF with HS Rheology Admixture (No EPS Board) | - | - | JM PVC FB | RSUA applied 6-inch o.c. | -502.5 (Lim. 9) | | | | | |

| | Ligh | tweight Concrete Assemblies with | n Adhered Membranes ov | er Concrete Deck (New or | Existing) | |
|---------------|--|--|---|---|--|-----------------|
| System No. | LWIC | Base Sheet | Insulation | Cover Board | Membrane | MDP (psf) |
| LC-AM-1 | Min. 200 psi Elastizell with Zell-Crete Fibers | PermaPly 28 secured with min. 1.7-inch LWC CR Base Sheet Fasteners secured 9-inch o.c. at the lap and 9-inch o.c. in two (2) equally spaced staggered rows in the field | | | <i>JM PVC FB</i> fully adhered in ASTM D 312 hot asphalt | -45 (Lim. 7) |
| LC-AM-2 | Min. 350 psi Celcore MF with HS Rheology Admixture | DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet 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 ENRGY 3 or ENRGY 3 CGF adhered in <i>2-Part UIA</i> applied 12-inch o.c. | Min. 0.5-inch <i>DEXcell FA</i> adhered in <i>RSUA</i> applied 6-inch o.c. | <i>JM PVC FB</i> adhered in adhered in <i>RSUA</i> applied 6-inch o.c. | -45 (Lim. 7) |
| LC-AM-3 | Min. 350 psi Celcore MF with HS Rheology Admixture | DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet 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 ENRGY 3 or ENRGY 3 CGF adhered in <i>2-Part UIA</i> applied 12-inch o.c. | ProtectoR HD, SeparatoR CGF, or SECUROCK adhered in 2-Part UIA applied 12-inch o.c. | <i>JM PVC FB</i> adhered in adhered in <i>RSUA</i> applied 4-inch o.c. | -45 (Lim. 7) |
| LC-AM-4 | Min. 350 psi Celcore MF with HS Rheology Admixture | DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet 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 ENRGY 3 or ENRGY 3 CGF adhered in <i>2-Part UIA</i> applied 12-inch o.c. | DEXcell FA or SECUROCK adhered in 2-Part UIA applied 12-inch o.c. | <i>JM PVC FB</i> fully adhered in ASTM D 312 hot asphalt | -45 (Lim. 7) |
| LC-AM-5 | Min. 350 psi Celcore MF with HS Rheology Admixture | DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet 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 ENRGY 3 or ENRGY 3 CGF adhered in <i>2-Part UIA</i> applied 12-inch o.c. | ProtectoR HD or SeparatoR CGF adhered in OSFA, RSUA, or 2-Part UIA applied 12-inch o.c. | <i>JM PVC FB</i> fully adhered in <i>PVC WBMA</i> or 2-Part UIA-C(S) | -45 (Lim. 7) |

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APPENDIX D – APPROVED ASSEMBLIES FOR JM PVC SINGLE-PLY MEMBRANES

| | Ligh | tweight Concrete Assemblies with | Adhered Membranes ov | er Concrete Deck (New or | Existing) | |
|---------------|--|--|---|--|--|-----------------|
| System No. | LWIC | Base Sheet | Insulation | Cover Board | Membrane | MDP (psf) |
| LC-AM-6 | Min. 350 psi Celcore MF with HS Rheology Admixture | DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet 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 ENRGY 3 or ENRGY 3 CGF adhered in <i>2-Part UIA</i> applied 12-inch o.c. | DEXcell FA or SECUROCK adhered in <i>2-Part UIA</i> applied12-inch o.c. | JM PVC FB fully adhered in 2-Part UIA-C(S) | -45 (Lim. 7) |
| LC-AM-7 | Min. 350 psi Celcore MF with HS Rheology Admixture | DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet 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 ENRGY 3 or ENRGY 3 CGF adhered in <i>2-Part UIA</i> applied 12-inch o.c. | DensDeck Prime or SECUROCK adhered in OSFA, RSUA, or 2-Part UIA applied 12-inch o.c. | <i>JM PVC FB</i> fully adhered in <i>PVC WBMA</i> or <i>ASBA</i> | -45 (Lim. 7) |

| | Mechanica | ally Attached Li | ghtweight Concrete Asse | mblies over <i>Con</i> | crete Deck (New, Existing, or Recover) | |
|---------------|--|----------------------------|--------------------------------------|------------------------|--|-------------------|
| System No. | LWIC | Insulation/ Cover Board | Insulation/Cover Board Attachment | Membrane | Membrane Attachment | MDP (psf) |
| LC-M-1 | Min. 475 psi Celcore MF with HS Rheology | - | - | JM PVC FB/ DynaFast | 1.8" Twin Loc-Nail without integrated plate fastened 6-inch o.c. along Straight Line Batten Bar within min. 4-inch heat welded side laps and in one intermediate row centered between side laps | -60 (Lim. 9) |
| LC-M-2 | Min. 350 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1 | - | - | JM PVC FB/ DynaFast | (4) 2.25" VERSA-FAST Fasteners installed in each VERSA- FAST Metal Plate; Plates spaced 10-inch o.c. within the 5- inch wide, torched adhered side laps | -67.5 (Lim. 9) |

| | Adhered Lightweight Concrete Assemblies over Steel Deck (New or Existing) | | | | | | | | | | |
|---------------|---|--|---|--------------------------------------|-----------------------------|--|---------------------|--|--|--|--|
| System No. | Deck Detail | LWIC | Insulation/Cover Board | Insulation/Cover Board Attachment | Membrane | Membrane Attachment | <i>MDP</i> (psf) | | | | |
| LS-A-1 | G33, P, L5, S15 | Min. 475 psi Celcore MF with HS Rheology | - | - | JM PVC FB | RSUA applied 12-inch o.c. | -60 (Lim. 9) | | | | |
| LS-A-2 | G80, P, L5, S15 | Min. 383.5 psi Celcore MF with HS Rheology Admixture | - | - | JM PVC FB | RSUA applied 12-inch o.c. | -75 (Lim. 9) | | | | |
| LS-A-3 | G80, P, L5, S15 | Min. 383.5 psi Celcore MF with HS Rheology Admixture | - | - | JM PVC FB | RSUA applied 6-inch o.c. | -75 (Lim. 9) | | | | |
| LS-A-4 | G33 | Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1 | Min. 1.5-inch ENRGY 3 or ProtectoR Foam | RSUA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC), PVC WBMA, or PVC ASSBA | -77.5 (Lim. 9) | | | | |

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| | | Adhered Ligh | tweight Concrete A | Assemblies over Steel Dec | k (New or Existing | g) | |
|---------------|----------------|--|---|--|-----------------------------|---|-------------------|
| System No. | Deck Detail | LWIC | Insulation/Cover Board | Insulation/Cover Board Attachment | Membrane | Membrane Attachment | MDP (psf) |
| LS-A-5 | G33 | Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1 | Min. 1.5-inch ENRGY 3 or ProtectoR Foam | RSUA applied 12-inch o.c. | JM PVC FB | RSUA applied 4-inch o.c. or PVC WBMA | -77.5 (Lim. 9) |
| LS-A-6 | G33 | Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1 | Min. 1.5-inch ENRGY 3 | RSUA applied 12-inch o.c. | JM PVC FB | ASBA | -77.5 (Lim. 9) |
| LS-A-7 | G33 | Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1 | Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF Top Layer: SECUROCK | Base and Top layer in <i>RSUA</i> applied 12-inch o.c. | JM PVC | PVC MA (LowVOC) or PVC ASSBA | -77.5 (Lim. 9) |
| LS-A-8 | G33 | Min 340 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1 | Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 CGF Top Layer: SECUROCK | Base and Top layer in <i>RSUA</i> applied 12-inch o.c. | JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -77.5 (Lim. 9) |
| LS-A-9 | G33 | Min. 300 psi <i>LWIC</i> | Min. 1.5-inch ENRGY 3 or ProtectoR Foam | 2-Part UIA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC), PVC WBMA , or PVC ASSBA | -80 (Lim. 9) |
| LS-A-10 | G33 | Min. 300 psi <i>LWIC</i> | Min. 1.5-inch ENRGY 3 or ProtectoR Foam | 2-Part UIA applied 12-inch o.c. | JM PVC FB | PVC WBMA | -80 (Lim. 9) |
| LS-A-11 | G33 | Min. 300 psi <i>LWIC</i> | Min. 1.5-inch ENRGY 3 | 2-Part UIA applied 12-inch o.c. | JM PVC FB | ASBA | -80 (Lim. 9) |
| LS-A-12 | G33 | Min. 300 psi <i>LWIC</i> | Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: SECUROCK | 2-Part UIA applied 12-inch o.c. | JM PVC | PVC MA (LowVOC) or PVC ASSBA | -80 (Lim. 9) |
| LS-A-13 | G33 | Min. 300 psi <i>LWIC</i> | Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: SECUROCK | 2- <i>Part UIA</i> applied 12-inch o.c. | JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -80 (Lim. 9) |

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| | | Adhered Light | weight Concrete A | Assemblies over Steel Decl | k (New or Existing | g) | |
|---------------|----------------------------|---|---|---------------------------------------|-----------------------------|--|--------------------|
| System No. | Deck Detail | LWIC | Insulation/Cover Board | Insulation/Cover Board Attachment | Membrane | Membrane Attachment | MDP (psf) |
| LS-A-14 | G80, P, L5, S12 | Min. 370 psi Concrecel | - | - | JM PVC FB | RSUA applied 12-inch o.c. | -97.5 (Lim. 9) |
| LS-A-15 | <i>G80</i> , P, L5, S15 | Min. 250 psi Elastizell with Zell-Crete Fibers | - | - | JM PVC FB | RSUA applied 12-inch o.c. | -97.5 (Lim. 9) |
| LS-A-16 | <i>G80</i> , P, L5, S15 | Min. 250 psi Elastizell with Zell-Crete Fibers | - | - | JM PVC FB | RSUA applied 6-inch o.c. | -97.5 (Lim. 9) |
| LS-A-17 | G33 | Min. 310 psi Elastizell with Zell-Crete Fibers | Min. 1.5-inch ENRGY 3 or ProtectoR Foam | <i>2-Part UIA</i> applied 12-inch o.c | JM PVC or JM PVC SD Plus | PVC MA (LowVOC), PVC WBMA, or PVC ASSBA | -127.5 (Lim. 9) |
| LS-A-18 | G33 | Min. 310 psi Elastizell with Zell-Crete Fibers | Base Layer: Min. 1.5-inch ENRGY 3 or ENRGY 3 AGF Top Layer: SECUROCK | 2-Part UIA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -130 (Lim. 9) |

| | | Lightweig | ht Concrete Assemblies with | Adhered Membranes of | over Steel Deck (New or E | xisting) | |
|---------------|--------------------|--|---|---|--|--|-----------------|
| System No. | Deck Detail | LWIC | Base Sheet | Insulation | Cover Board | Membrane | MDP (psf) |
| LS-AM-1 | G33, P, L6, S18 | Min. 200 psi Elastizell with Zell-Crete Fibers | PermaPly 28 secured with min. 1.7-inch LWC CR Base Sheet Fasteners secured 9-inch o.c. at the lap and 9-inch o.c. in two (2) equally spaced staggered rows in the field | | | <i>JM PVC FB</i> fully adhered in ASTM D 312 hot asphalt | -45 (Lim. 7) |
| LS-AM-2 | G33, P, L6, S24 | Min. 350 psi Celcore MF with HS Rheology Admixture | DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet 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 ENRGY 3 or ENRGY 3 CGF adhered in <i>2-Part UIA</i> applied 12-inch o.c. | Min. 0.5-inch <i>DEXcell FA</i> adhered in <i>RSUA</i> applied 6-inch o.c. | <i>JM PVC FB</i> adhered in adhered in <i>RSUA</i> applied 6-inch o.c. | -45 (Lim. 7) |
| LS-AM-3 | G33, P, L6, S24 | Min. 350 psi Celcore MF with HS Rheology Admixture | DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet 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 ENRGY 3 or ENRGY 3 CGF adhered in <i>2-Part UIA</i> applied 12-inch o.c. | ProtectoR HD, SeparatoR CGF, or SECUROCK adhered in 2-Part UIA applied 12-inch o.c. | <i>JM PVC FB</i> adhered in adhered in <i>RSUA</i> applied 4-inch o.c. | -45 (Lim. 7) |

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| | | Lightweig | ht Concrete Assemblies with | Adhered Membranes of | over Steel Deck (New or Ex | xisting) | |
|---------------|--------------------|--|---|--|---|--|-----------------|
| System No. | Deck Detail | LWIC | Base Sheet | Insulation | Cover Board | Membrane | MDP (psf) |
| LS-AM-4 | G33, P, L6, S24 | Min. 350 psi Celcore MF with HS Rheology Admixture | DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet 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 ENRGY 3 or ENRGY 3 CGF adhered in <i>2-Part UIA</i> applied 12-inch o.c. | DEXcell FA or SECUROCK adhered in 2-Part UIA applied 12-inch o.c. | <i>JM PVC FB</i> fully adhered in ASTM D 312 hot asphalt | -45 (Lim. 7) |
| LS-AM-5 | G33, P, L6, S24 | Min. 350 psi Celcore MF with HS Rheology Admixture | DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet 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 ENRGY 3 or ENRGY 3 CGF adhered in <i>2-Part UIA</i> applied 12-inch o.c. | ProtectoR HD or SeparatoR CGF adhered in <i>OSFA, RSUA,</i> or <i>2-Part UIA</i> applied 12-inch o.c. | <i>JM PVC FB</i> fully adhered in <i>PVC WBMA</i> or 2-Part UIA-C(S) | -45 (Lim. 7) |
| LS-AM-6 | G33, P, L6, S24 | Min. 350 psi Celcore MF with HS Rheology Admixture | DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet 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 ENRGY 3 or ENRGY 3 CGF adhered in <i>2-Part UIA</i> applied 12-inch o.c. | DEXcell FA or SECUROCK adhered in 2-Part UIA applied12-inch o.c. | JM PVC FB fully adhered in 2-Part UIA-C(S) | -45 (Lim. 7) |
| LS-AM-7 | G33, P, L6, S24 | Min. 350 psi Celcore MF with HS Rheology Admixture | DynaBase, DynaLastic 180 S, GlasBase Plus, or Ventsulation Felt secured with Min. 1.7-inch LWC CR Base Sheet 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 ENRGY 3 or ENRGY 3 CGF adhered in 2- <i>Part UIA</i> applied 12-inch o.c. | DensDeck Prime or SECUROCK adhered in OSFA, RSUA, or 2-Part UIA applied 12-inch o.c. | <i>JM PVC FB</i> fully adhered in <i>PVC WBMA</i> or <i>ASBA</i> | -45 (Lim. 7) |

| | Mechanically Attached Lightweight Concrete Assemblies over Steel Deck (New, Existing, or Recover) | | | | | | | | | | |
|---------------|---|---|----------------------------|--------------------------------------|------------------------|--|-----------------|--|--|--|--|
| System No. | Deck Detail | LWIC | Insulation/ Cover Board | Insulation/Cover Board Attachment | Membrane | Membrane Attachment | MDP (psf) | | | | |
| LS-M-1 | G33, P, L5, S15 | Min. 475 psi Celcore MF with HS Rheology Admixture | - | - | JM PVC FB/ DynaFast | 1.8" Twin Loc-Nail without integrated plate fastened 6-inch o.c. along Straight Line Batten Bar within min. 4-inch heat welded side laps and in one intermediate row centered between side laps | -60 (Lim. 9) | | | | |

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| | Mechanically Attached Lightweight Concrete Assemblies over Steel Deck (New, Existing, or Recover) | | | | | | | | | | | |
|---------------|---|--|----------------------------|--------------------------------------|------------------------|--|-------------------|--|--|--|--|--|
| System No. | Deck Detail | LWIC | Insulation/ Cover Board | Insulation/Cover Board Attachment | Membrane | Membrane Attachment | MDP (psf) | | | | | |
| LS-M-2 | G33, P, L6, S18 | Min. 350 psi Celcore MF with HS Rheology Admixture over deck treated with Celcore S-1 | - | - | JM PVC FB/ DynaFast | Four (4) 2.25" VERSA-FAST Fasteners installed in each VERSA-FAST Metal Plate; Plates spaced 10-inch o.c. within the 5-inch wide, torched adhered side laps | -67.5 (Lim. 9) | | | | | |

| | | A | dhered Recover Assemblies | | | |
|---------------|---|--|--|---|--|-------------------|
| System No. | Deck Detail | Base Insulation | Top Insulation | Membrane | Membrane Attachment | MDP (psf) |
| R-A-1 | BUR or Mod-Bit Roofing with mineral surfacing | - | - | JM PVC FB | RSUA applied 12-inch o.c. | -45 (Lim. 9) |
| R-A-2 | BUR or Granular Mod-Bit Roofing over over Concrete Deck, Steel Deck, cementitious panel, or treated wood | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in <i>RSUA, 2-Part UIA, 2-Part UIA-</i> <i>C(B),</i> or <i>OSFA</i> applied 12-inch o.c. | SeparatoR CGF or SeparatoR FR adhered in <i>RSUA, 2-Part UIA, 2-Part UIA-C(B),</i> or <i>OSFA</i> applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -52.5 (Lim. 9) |
| R-A-3 | BUR over Concrete Deck | Min. 1.5-inch <i>E3</i> (no FR) applied in 2 <i>-Part UIA</i> spaced 12-inch o.c. | OPTIONAL JM Invinsa applied in 2 <i>-Part UIA</i> spaced 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -105 (Lim. 9) |
| R-A-4 | BUR over Concrete Deck | Min. 1.5-inch <i>E3</i> (no FR) applied in 2 <i>-Part UIA</i> spaced 12-inch o.c. | OPTIONAL JM Invinsa applied in 2 <i>-Part UIA</i> spaced 12-inch o.c. | JM PVC FB | ASTM D 312 Type IV Asphalt | -105 (Lim. 9) |
| R-A-5 | BUR or Granular Mod-Bit Roofing over <i>Concrete Deck</i> | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA- C(B), or OSFA applied 12-inch o.c. | SeparatoR CGF or SeparatoR FR adhered in <i>RSUA, 2-Part UIA, 2-Part UIA-C(B),</i> or <i>OSFA</i> applied 12-inch o.c. | JM PVC, JM PVC SD Plus or JM PVC FB | PVC WBMA | -105 (Lim. 9) |
| R-A-6 | BUR or Granular Mod-Bit Roofing over Steel Deck, cementitious panel, or treated wood | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in <i>RSUA, 2-Part UIA, 2-Part UIA-</i> <i>C(B),</i> or <i>OSFA</i> applied 12-inch o.c. | ProtectoR HD adhered in <i>RSUA</i> , 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) or PVC WBMA | -105 (Lim. 9) |
| R-A-7 | BUR or Granular Mod-Bit Roofing over <i>Steel Deck,</i> cementitious panel, or treated wood | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in <i>RSUA, 2-Part UIA, 2-Part UIA-</i> <i>C(B),</i> or <i>OSFA</i> applied 12-inch o.c. | ProtectoR HD adhered in <i>RSUA</i> , 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c. | JM PVC JM PVC SD Plus | PVC WBMA, PVC MA (LowVOC), or PVC ASSBA | -105 (Lim. 9) |

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| | | A | dhered Recover Assemblies | | | |
|---------------|---|--|--|-----------------------------|---|-------------------|
| System No. | Deck Detail | Base Insulation | Top Insulation | Membrane | Membrane Attachment | MDP (psf) |
| R-A-8 | BUR or Granular Mod-Bit Roofing over Steel Deck, cementitious panel, or treated wood | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in <i>RSUA, 2-Part UIA, 2-Part UIA-</i> <i>C(B),</i> or <i>OSFA</i> applied 12-inch o.c. | SECUROCK or DensDeck Prime adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c. | JM PVC FB | <i>2-Part UIA-C(S)</i> or ASTM D 312 Type IV Asphalt | -105 (Lim. 9 |
| R-A-9 | BUR or Granular Mod-Bit Roofing over <i>Steel Deck,</i> cementitious panel, or treated wood | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in <i>RSUA, 2-Part UIA, 2-Part UIA-</i> <i>C(B),</i> or OSFA applied 12-inch o.c. | DensDeck Prime adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c. | JM PVC FB | PVC WBMA or ASBA | -105 (Lim. 9 |
| R-A-10 | BUR or Granular Mod-Bit Roofing over <i>Steel Deck,</i> cementitious panel, or treated wood | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in <i>RSUA, 2-Part UIA, 2-Part UIA-</i> <i>C(B),</i> or OSFA applied 12-inch o.c. | SECUROCK or DensDeck Prime adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c. | JM PVC JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -105 (Lim. 9 |
| R-A-11 | BUR or Granular Mod-Bit Roofing over <i>Steel Deck,</i> cementitious panel, or treated wood | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in <i>RSUA, 2-Part UIA, 2-Part UIA-</i> <i>C(B),</i> or <i>OSFA</i> applied 12-inch o.c. | DEXcell FA adhered in RSUA or OSFA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -105 (Lim. 9 |
| R-A-12 | BUR or Granular Mod-Bit Roofing over Steel Deck, cementitious panel, or treated wood | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in <i>RSUA, 2-Part UIA, 2-Part UIA-</i> <i>C(B),</i> or <i>OSFA</i> applied 12-inch o.c. | DEXcell FA adhered in RSUA or OSFA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S), PVC WBMA, ASBA or ASTM D 312 Type IV Asphalt | -105 (Lim. 9 |
| R-A-13 | BUR over <i>Concrete</i> Deck | Min. 1.5-inch <i>E3</i> (no FR) applied in <i>UIA</i> spaced 6-inch o.c. or 2- <i>Part UIA</i> spaced 12-inch o.c. | JM Invinsa or ProtectoR HD applied in <i>UIA</i> applied spaced 12-inch o.c. | JM PVC | PVC MA (LowVOC) applied at 0.83 gal/100ft ² , PVC WBMA, or PVC ASSBA | -112.5 (Lim. 9 |
| R-A-14 | BUR over Concrete Deck | Min. 1.5-inch E3 (no FR) applied in UIA spaced 6-inch o.c. or 2-Part UIA spaced 12-inch o.c. | JM Invinsa or ProtectoR HD applied in UIA spaced 12-inch o.c. | JM PVC SD Plus | PVC MA (LowVOC) applied at 0.83 gal/100ft ² , PVC WBMA, or PVC ASSBA | -112.5 (Lim. 9 |
| R-A-15 | BUR over Concrete Deck | Min. 1.5-inch E3 (no FR) applied in UIA spaced 6-inch o.c. or 2-Part UIA spaced 12-inch o.c. | JM Invinsa or ProtectoR HD applied in UIA spaced 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) or PVC WBMA | -112.5 (Lim. 9 |
| R-A-16 | BUR over Concrete Deck | Min. 1.5-inch E3 (no FR) applied in UIA spaced 6-inch o.c. or 2-Part UIA spaced 12-inch o.c. | JM Invinsa applied in <i>UIA</i> spaced 12-inch o.c. | JM PVC FB | ASBA | -112.{ (Lim. 9 |
| R-A-17 | BUR or Granular Mod-Bit Roofing over Concrete Deck | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA- C(B), or OSFA applied 12-inch o.c. | DensDeck Prime adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c. | JM PVC FB | PVC WBMA or ASBA | -142. (Lim. 9 |

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| | | A | dhered Recover Assemblies | | | |
|---------------|---|--|--|-----------------------------|--|--------------------|
| System No. | Deck Detail | Base Insulation | Top Insulation | Membrane | Membrane Attachment | MDP (psf) |
| R-A-18 | BUR or Granular Mod-Bit Roofing over over <i>Concrete Deck,</i> <i>Steel Deck,</i> cementitious panel, or treated wood | - | Min. 1-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) or RSUA applied 12-inch o.c. | -157.5 (Lim. 9) |
| R-A-19 | BUR or Granular Mod-Bit Roofing over <i>Concrete Deck</i> | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in <i>RSUA, 2-Part UIA, 2-Part UIA-</i> <i>C(B),</i> or <i>OSFA</i> applied 12-inch o.c. | ProtectoR HD adhered in <i>RSUA,</i> 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c. | JM PVC JM PVC SD Plus | PVC WBMA or PVC MA (LowVOC) | -180 (Lim. 9) |
| R-A-20 | BUR or Granular Mod-Bit Roofing over <i>Concrete Deck</i> | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in <i>RSUA, 2-Part UIA, 2-Part UIA-</i> <i>C(B),</i> or <i>OSFA</i> applied 12-inch o.c. | ProtectoR HD adhered in <i>RSUA,</i> 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c. | JM PVC SD Plus | PVC ASSBA | -180 (Lim. 9) |
| R-A-21 | BUR or Granular Mod-Bit Roofing over <i>Concrete Deck</i> | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in <i>RSUA, 2-Part UIA, 2-Part UIA-</i> <i>C(B),</i> or <i>OSFA</i> applied 12-inch o.c. | ProtectoR HD adhered in <i>RSUA,</i> 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) or PVC WBMA | -180 (Lim. 9) |
| R-A-22 | BUR or Granular Mod-Bit Roofing over <i>Concrete Deck</i> | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in <i>RSUA, 2-Part UIA, 2-Part UIA-</i> <i>C(B),</i> or <i>OSFA</i> applied 12-inch o.c. | SECUROCK or DensDeck Prime adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c. | JM PVC JM PVC SD Plus | PVC MA (LowVOC) | -180 (Lim. 9) |
| R-A-23 | BUR or Granular Mod-Bit Roofing over <i>Concrete Deck</i> | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA- C(B), or OSFA applied 12-inch o.c. | SECUROCK or DensDeck Prime adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c. | JM PVC SD Plus | PVC ASSBA | -180 (Lim. 9) |
| R-A-24 | BUR or Granular Mod-Bit Roofing over <i>Concrete Deck</i> | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA- C(B), or OSFA applied 12-inch o.c. | SECUROCK or DensDeck Prime adhered in RSUA, 2-Part UIA, 2-Part UIA-C(B), or OSFA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) or ASTM D 312 Type IV Asphalt | -180 (Lim. 9) |
| R-A-25 | BUR over Concrete Deck | - | Min. 1.5-inch E3 (no FR)applied in 2- Part UIA spaced 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -217.5 (Lim. 9) |
| R-A-26 | BUR over Concrete Deck | - | Min. 1.5-inch E3 (no FR) applied in 2- Part UIA spaced 12-inch o.c. | JM PVC SD Plus | PVC ASSBA | -217.5 (Lim. 9) |
| R-A-27 | BUR or Granular Mod-Bit Roofing over <i>Concrete Deck</i> | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in RSUA, 2-Part UIA, 2-Part UIA- C(B), or OSFA applied 12-inch o.c. | SeparatoR CGF or SeparatoR FR adhered in <i>RSUA, 2-Part UIA, 2-Part UIA-C(B),</i> or <i>OSFA</i> applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -217.5 (Lim. 9) |
| R-A-28 | BUR or Granular Mod-Bit Roofing over <i>Concrete Deck</i> | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in <i>RSUA, 2-Part UIA, 2-Part UIA-</i> <i>C(B),</i> or <i>OSFA</i> applied 12-inch o.c. | SeparatoR CGF or SeparatoR FR adhered in <i>RSUA, 2-Part UIA, 2-Part UIA-C(B),</i> or <i>OSFA</i> applied 12-inch o.c. | JM PVC SD Plus | PVC ASSBA | -217.5 (Lim. 9) |

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| | | A | dhered Recover Assemblies | | | |
|---------------|--|--|--|-----------------------------|---|-----------------------------------|
| System No. | Deck Detail | Base Insulation | Top Insulation | Membrane | Membrane Attachment | MDP (psf) |
| R-A-29 | BUR over Concrete Deck | - | Min. 1.5-inch E3 (no FR) applied in 2- Part UIA spaced 12-inch o.c. | JM PVC FB | ASTM D 312 Type IV Asphalt | -217.5 (Lim. 9) |
| R-A-30 | BUR or Granular Mod-Bit Roofing over <i>Concrete Deck</i> | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in <i>RSUA, 2-Part UIA, 2-Part UIA-</i> <i>C(B),</i> or <i>OSFA</i> applied 12-inch o.c. | DEXcell FA adhered in RSUA or OSFA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -217.5 (Lim. 9) |
| R-A-31 | BUR or Granular Mod-Bit Roofing over <i>Concrete Deck</i> | OPTIONAL Min. 0.5-inch ENRGY 3 adhered in <i>RSUA, 2-Part UIA, 2-Part UIA-</i> <i>C(B),</i> or <i>OSFA</i> applied 12-inch o.c. | DEXcell FA adhered in RSUA or OSFA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S), PVC WBMA or ASTM D 312 Type IV Asphalt | -217.5 (Lim. 9) |
| R-A-32 | Granular Mod-Bit Roofing or Granular BUR over Concrete Deck | Min. 1.5-inch ENRGY 3 adhered in RSUA applied 12-inch o.c. | - | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -210 (Lim. 9; Non- HVHZ) |
| R-A-33 | Granular Mod-Bit Roofing or Granular BUR over Concrete Deck | Min. 1.5-inch ENRGY 3 adhered in <i>RSUA</i> applied 12-inch o.c. | - | JM PVC FB | 2-Part UIA-C(S) | -210 (Lim. 9; Non- HVHZ) |
| R-A-34 | Granular Mod-Bit Roofing or Granular BUR over Concrete Deck | Min. 1.5-inch ENRGY 3 adhered in <i>RSUA</i> applied 12-inch o.c. | DensDeck Prime adhered in RSUA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC WBMA | -210 (Lim. 9; Non- HVHZ) |
| R-A-35 | Granular Mod-Bit Roofing or Granular BUR over Concrete Deck | Min. 1.5-inch ENRGY 3 adhered in RSUA applied 12-inch o.c. | DensDeck Prime adhered in RSUA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) or PVC WBMA | -210 (Lim. 9; Non- HVHZ) |
| R-A-36 | BUR or Granular Mod-Bit Roofing over <i>Concrete Deck</i> | OPTIONAL Min. 1.5-inch ENRGY 3 in <i>RSUA</i> , <i>OSFA</i> or <i>2-Part UIA</i> applied 12-inch o.c. | DensDeck Prime or StormX in RSUA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -217.5 (Lim. 9) |
| R-A-37 | Granular Mod-Bit Roofing or Granular BUR over Concrete Deck | - | DensDeck Prime adhered in RSUA or 2-Part UIA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -285 (Lim. 9; Non- HVHZ) |
| R-A-38 | Granular Mod-Bit Roofing or Granular BUR over Concrete Deck | - | ProtectoR HD adhered in <i>RSUA</i> applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -400 (Lim. 9) |
| R-A-39 | Granular Mod-Bit Roofing or Granular BUR over Concrete Deck | - | - | JM PVC FB | RSUA applied 12-inch o.c. | -440 (Lim. 9) |

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| | Adhered Recover Assemblies | | | | | | | | | | |
|---------------|--|--------------------|---|-----------|---------------------------|-----------------------------------|--|--|--|--|--|
| System No. | Deck Detail | Base Insulation | Top Insulation | Membrane | Membrane Attachment | MDP (psf) | | | | | |
| R-A-40 | Granular Mod-Bit Roofing or Granular BUR over <i>Concrete</i> <i>Deck</i> | - | DensDeck Prime adhered in RSUA applied 12-inch o.c. | JM PVC FB | RSUA applied 12-inch o.c. | -495 (Lim. 9; Non- HVHZ) | | | | | |

| | | | Mech | nanically Fastened I | Recover Assemblie | es | | |
|---------------|--|--|--|--|------------------------------|-----------------------------------|---|-------------------|
| System No. | Deck Detail | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) |
| R-M-1 | Steel Deck (G33, P, L6, S24) or Concrete Deck | OPTIONAL INSULATION | Preliminarily Secured or secured with top layer | Min. 0.5-inch E3 or Cover Board | Preliminarily Secured | JM PVC SD Plus or JM PVC SL | Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 6-inch wide side laps; Fastener rows max. 114-inch o.c. | -45 (Lim. 7) |
| R-M-2 | Steel Deck (G33, F1, L6, S24) or Concrete Deck | OPTIONAL INSULATION | Preliminarily Secured or secured with top layer | Min. 0.5-inch E3 or Cover Board | Preliminarily Secured | JM PVC SD Plus or JM PVC SL | Attached in-lap 12-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 6-inch wide side laps; Fastener rows max. 54-inch o.c. | -45 (Lim. 7) |
| R-M-3 | Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c. | Min. 1.5-inch <i>E3</i> or <i>EPS</i> placed between ribs | Preliminarily Secured or secured with top layer | Min. 1-inch <i>E3</i> , or <i>Cover Board</i> | Preliminarily Secured | JM PVC | Attached in-lap 18-inch o.c. with JM Purlin Fasteners and UltraGard High Load Plates along structural supports; Fastener rows max. 5ft o.c. | -45 (Lim. 7) |
| R-M-4 | Steel Deck (G33, F1, L6) or Concrete Deck | OPTIONAL INSULATION | Preliminarily Secured or secured with top layer | Min. 0.5-inch E3 or Cover Board | Preliminarily Secured | JM PVC FB/ DynaFast | HL Fasteners & Plates spaced 6- inch o.c within each min. 4-inch heat welded side laps in rows max. 70-inch o.c. | -52.5 (Lim. 9) |
| R-M-5 | Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c. | Min. 1.5-inch <i>E3</i> or <i>EPS</i> placed between ribs | Preliminarily Secured or secured with top layer | Min. 1-inch <i>E3</i> , or <i>Cover Board</i> | Preliminarily Secured | JM PVC | Attached in-lap 12-inch o.c. with JM Purlin Fasteners and UltraGard High Load Plates along structural supports; Fastener rows max. 5ft o.c. | -52.5 (Lim. 7) |
| R-M-6 | Steel Deck (G33, F1, L6, S24) or Concrete Deck | OPTIONAL INSULATION | Preliminarily Secured or secured with top layer | Min. 0.5-inch E3 or Cover Board | Preliminarily Secured | JM PVC SD Plus or JM PVC SL | Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 6-inch wide side laps; Fastener rows max. 54-inch o.c. | -60 (Lim. 7) |
| R-M-7 | LWIC over Steel Deck (G33, F1, L5, S12) or Concrete Deck | OPTIONAL INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL INSULATION | Preliminarily Secured | <i>JM PVC FB</i> (min. 60 mil) | Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Fastener rows max. 114-inch o.c. | -60 (Lim. 7) |

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| | | | Mech | nanically Fastened | Recover Assemblie | S | | |
|---------------|--|---|--|---|------------------------------|------------------------|--|---------------------|
| System No. | Deck Detail | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | <i>MDP</i> (psf) |
| R-M-8 | Steel Deck (G33, P, L6) | OPTIONAL INSULATION | Preliminarily Secured or secured with top layer | Min. 0.5-inch <i>E</i> 3 or <i>Cover Board</i> | Preliminarily Secured | JM PVC FB/ DynaFast | High Load LH Fasteners and Polymer Membrane Batten OR High Load Fasteners and Deep Well Batten strip spaced 6-inch o.c. within min. 4-inch heat welded side laps in rows max. 71-inch o.c. | -60 (Lim. 9) |
| R-M-9 | Steel Deck (G33, F1, L6) or Concrete Deck | OPTIONAL INSULATION | Preliminarily Secured or secured with top layer | Min. 0.5-inch E3 or Cover Board | Preliminarily Secured | JM PVC FB/ DynaFast | APB Fasteners & Plates spaced 6-inch o.c within each min. 4-inch heat welded side lap. | -60 (Lim. 9) |
| R-M-10 | Steel Deck (G33, F1 or P, L6) or Concrete Deck | OPTIONAL INSULATION | Preliminarily Secured or secured with top layer | Min. 0.5-inch <i>E3</i> or <i>Cover Board</i> | Preliminarily Secured | JM PVC FB/ DynaFast | HL Fasteners & Plates spaced 12-inch o.c within each min. 4-inch heat welded side lap. | -60 (Lim. 9) |
| R-M-11 | Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c. | Min. 1.5-inch <i>E</i> 3 or <i>EPS</i> placed between ribs | Preliminarily Secured or secured with top layer | Min. 1-inch E3, or Cover Board | Preliminarily Secured | JM PVC | Attached in-lap 6-inch o.c. with JM Purlin Fasteners and UltraGard High Load Plates along structural supports; Fastener rows max. 5ft o.c. | -75 (Lim. 7) |

| | | | Ind | luction Welded Re | cover Assemblies | | | |
|---------------|--|---|--|--|--|--|--|------------------------------------|
| System No. | Existing Roof | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | <i>MDP</i> (psf) |
| R-W-1 | Steel Deck (G33, L6) or Concrete Deck | OPTIONAL INSULATION | Preliminarily Secured or secured with top layer | Min. 0.5-inch <i>E3,</i> or <i>Cover Board</i> | Preliminarily Secured | <i>JM PVC SD</i> <i>Plus</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates placed max. 12" o.c. in rows max. 72" o.c. | -37.5 (Lim. 7; Non- HVHZ) |
| R-W-2 | Steel Deck (G33, F1, L6, S24) or Concrete Deck | OPTIONAL INSULATION | Preliminarily Secured or secured with top layer | Min. 0.5-inch <i>E3</i> , or <i>Cover Board</i> | Preliminarily Secured | <i>JM PVC SD</i> <i>Plus</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates placed max. 12" o.c. in rows max. 60" o.c. | -45 (Lim. 7) |
| R-W-3 | Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c. | Min. 1.5-inch <i>E3</i> or <i>EPS</i> placed between ribs | Preliminarily Secured or secured with top layer | Min. 1-inch <i>E3</i> , or <i>Cover Board</i> | JM Purlin Fasteners and JM PVC RhinoPlates secured to structural supports 6-inch o.c.; Fastener rows max. 120-inch o.c. | <i>JM PVC</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates | -45 (Lim. 7) |
| R-W-4 | Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c. | Min. 1.5-inch <i>E3</i> or <i>EP</i> S placed between ribs | Preliminarily Secured or secured with top layer | Min. 1-inch E3, or Cover Board | JM Purlin Fasteners and JM PVC RhinoPlates secured to structural supports 18-inch o.c.; Fastener rows max. 60-inch o.c. | <i>JM PVC</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates | -45 (Lim. 7) |

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| | | | Inc | luction Welded Re | cover Assemblies | | | |
|---------------|--|---|--|--|---|--|---|-------------------|
| System No. | Existing Roof | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) |
| R-W-5 | Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c. | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with ISOWELD-#12 or ISOWELD-#15 spaced 12" o.c. in rows 60" o.c. | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -45 (Lim. 7) |
| R-W-6 | Steel Deck (G33, F1, L6, S24) or Concrete Deck | OPTIONAL INSULATION | Preliminarily Secured or secured with top layer | Min. 0.5-inch <i>E3</i> , or <i>Cover Board</i> | High Load Fasteners and JM PVC RhinoPlates at a rate of 8 per 4-ft x 8-ft board (staggered) (1 fastener per 4.0-ft ²) | <i>JM PVC SD</i> <i>Plus</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates | -52.5 (Lim. 7) |
| R-W-7 | Concrete Deck | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | Optional SECUROCK | JM All Purpose Fasteners and JM PVC RhinoPlates secured at a rate of 8 per 4-ft x 8-ft board Pattern #1 (1 fastener per 4.0-ft ²) | <i>JM PVC</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates | -67.5 (Lim. 7) |
| R-W-8 | Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c. | Min. 1.5-inch <i>E</i> 3 or <i>EPS</i> placed between ribs | Preliminarily Secured or secured with top layer | Min. 1-inch <i>E</i> 3, or <i>Cover Board</i> | JM Purlin Fasteners and JM PVC RhinoPlates secured to structural supports 12-inch o.c.; Fastener rows max. 60-inch o.c. | <i>JM PVC</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates | -67.5 (Lim. 7) |
| R-W-9 | Steel Deck (G33, F1, L6, S24) or Concrete Deck | OPTIONAL INSULATION | Preliminarily Secured or secured with top layer | Min. 0.5-inch <i>E3</i> , or <i>Cover Board</i> | Preliminarily Secured | <i>JM PVC SD</i> <i>Plus</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates placed max. 6" o.c. in rows max. 72" o.c. | -82.5 (Lim. 7) |
| R-W-10 | Steel Deck (G33, F1, L6, S24) or Concrete Deck | OPTIONAL INSULATION | Preliminarily Secured or secured with top layer | Min. 0.5-inch <i>E3</i> , or <i>Cover Board</i> | Preliminarily Secured | <i>JM PVC SD</i> <i>Plus</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates placed max. 6" o.c. in rows max. 60" o.c. | -90 (Lim. 7) |
| R-W-11 | Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c. | Min. 1.5-inch <i>E</i> 3 or <i>EPS</i> placed between ribs | Preliminarily Secured or secured with top layer | OPTIONAL E3 or Cover Board | Attached with <i>ISOWELD-#15</i> spaced 6" o.c. in rows 60" o.c. | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -90 (Lim. 7) |
| R-W-12 | Existing metal roof having Min. 16 ga. steel purlins at max. 5ft o.c. | Min. 1.5-inch <i>E3</i> or <i>EPS</i> placed between ribs | Preliminarily Secured or secured with top layer | Min. 1-inch E3, or Cover Board | JM Purlin Fasteners and JM PVC RhinoPlates secured to structural supports 6-inch o.c.; Fastener rows max. 60-inch o.c. | <i>JM PVC</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates | -120 (Lim. 7) |

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| | | Assen | nblies with Adl | hered Membranes | s over Insulated | Steel Deck (New, | Existing, or <i>R</i> e | cover) | |
|---------------|--------------------|---|--|---|--|---|---------------------------------|--|------------------------------------|
| System No. | Deck Detail | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | MDP (psf) |
| S-AM-1 | G33, P, L6, S24 | OPTIONAL Vapor Barrier | Min. 1.5-inch <i>E</i> 3 | Simultaneously secured with top layer | ProtectoR | Fastener & Plates secured 1 fastener per 2.67ft ² | JM PVC | PVC MA (LowVOC) or PVC ASSBA | -30 (Lim. 7; Non- HVHZ) |
| S-AM-2 | G33, P, L6, S24 | OPTIONAL Vapor Barrier | Min. 1.5-inch <i>E</i> 3 | Simultaneously secured with top layer | ProtectoR | Fastener & Plates secured 1 fastener per 2.67ft ² | JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -30 (Lim. 7; Non- HVHZ) |
| S-AM-3 | G33, P, L6, S24 | OPTIONAL Vapor Barrier | Min. 1.5-inch <i>E</i> 3 | Simultaneously secured with top layer | ProtectoR | Fastener & Plates secured 1 fastener per 2.67ft ² | JM PVC FB | RSUA applied 12-inch o.c.or 2-Part UIA-C(S) | -30 (Lim. 7; Non- HVHZ) |
| S-AM-4 | G33 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch Fesco Foam | Fastener & Plates secured 1 fastener per 5.3ft ² | JM PVC | PVC MA (LowVOC) | -37.5 (Lim. 9; Non- HVHZ) |
| S-AM-5 | G33 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch Fesco Foam | Fastener & Plates secured 1 fastener per 5.3ft ² | JM PVC SD Plus | PVC MA (LowVOC) | -37.5 (Lim. 9; Non- HVHZ) |
| S-AM-6 | G33 | ProtectoR attached with Fastener & Plates at 8 per 4-ft x 8-ft board Pattern #2; JM Vapor SA or JM Vapor Barrier SAR with JM SA Primer or JM SA Primer Low VOC | ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, ENRGY 3 C1, or ENRGY 3 C1 CGF | OSFA, RSUA, or 2-Part UIA applied 12-inch o.c. | ProtectoR, Retro-Fit, RetroPlus, SeparatorR CGF, SeparatoR FR, INVINSA, DensDeck, DensDeck Prime, DEXcell FA, or SECUROCK | <i>OSFA, RSUA,</i> or <i>2-Part UIA</i> applied 12-inch o.c. | JM PVC, or JM PVC SD Plus | PVC MA (LowVOC) | -37.5 (Lim. 7; Non- HVHZ) |

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APPENDIX D – APPROVED ASSEMBLIES FOR JM PVC SINGLE-PLY MEMBRANES

| | | Asser | nblies with Adl | nered Membranes | s over Insulated | d Steel Deck (New, | Existing, or Re | cover) | |
|---------------|----------------|---|--|---|--|--|--------------------------------|--|------------------------------------|
| System No. | Deck Detail | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | MDP (psf) |
| S-AM-7 | G33 | ProtectoR attached with Fastener & Plates at 8 per 4-ft x 8-ft board Pattern #2; JM Vapor SA or JM Vapor Barrier SAR with JM SA Primer or JM SA Primer Low VOC | ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, ENRGY 3 C1, or ENRGY 3 C1 CGF | OSFA, RSUA, or 2-Part UIA applied 12-inch o.c. | ProtectoR, INVINSA, DensDeck Prime, DEXcell FA or SECUROCK | <i>OSFA, RSUA,</i> or 2- <i>Part UIA</i> applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC ASSBA | -37.5 (Lim. 7; Non- HVHZ) |
| S-AM-8 | G33 | ProtectoR attached with Fastener & Plates at 8 per 4-ft x 8-ft board Pattern #2; JM Vapor SA or JM Vapor Barrier SAR with JM SA Primer or JM SA Primer Low VOC | ENRGY 3, ENRGY 3 AGF, ENRGY 3 CGF, ENRGY 3 C1, or ENRGY 3 C1 CGF | OSFA, RSUA, or 2-Part UIA applied 12-inch o.c. | ProtectoR, Retro-Fit, RetroPlus, SeparatorR CGF, SeparatoR FR, INVINSA, DensDeck, DensDeck Prime, DEXcell FA, or SECUROCK | <i>OSFA, RSUA,</i> or <i>2-Part UIA</i> applied 12-inch o.c. | JM PVC FB | <i>RSUA</i> applied 12-inch o.c. or 2- <i>Part UIA-C(S)</i> | -37.5 (Lim. 7; Non- HVHZ) |
| S-AM-9 | G33 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | Min. 0.5-inch DensDeck Prime | OMG #12 Standard Roofgrip or UltraFast Fastener and OMG 3 in. Ribbed Galvalume Plate (Flat) or UltraFast Plate Metal Flat secured 8 per 4-ft x 8-ft board Pattern 3 | JM PVC or JM PVC SD Plus | PVC MA (LowVOC), PVC WBMA, or PVC ASSBA | -37.5 (Lim. 7; Non- HVHZ) |

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APPENDIX D – APPROVED ASSEMBLIES FOR JM PVC SINGLE-PLY MEMBRANES

| | | Asser | nblies with Adl | nered Membranes | s over Insulated | d Steel Deck (New, | Existing, or <i>R</i> e | cover) | |
|---------------|-------------------------|---------------------------|--|--|---|--|--------------------------------|--|------------------------------------|
| System No. | Deck Detail | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | <i>MDP</i> (psf) |
| S-AM-10 | G33 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | Min. 0.5-inch DensDeck Prime | OMG #12 Standard Roofgrip or UltraFast Fastener and OMG 3 in. Ribbed Galvalume Plate (Flat) or UltraFast Plate Metal Flat secured 8 per 4-ft x 8-ft board Pattern 3 | JM PVC FB | ASTM D 312 Type IV Asphalt, <i>RSUA</i> applied 12- inch o.c. or 2-Part UIA-C(S) | -37.5 (Lim. 7; Non- HVHZ) |
| S-AM-11 | G33 | OPTIONAL Vapor Barrier | Min. 1.5-inch <i>E</i> 3 | Simultaneously secured with top layer | ProtectoR | <i>Fastener & Plates</i> secured 1 fastener per 4ft ² | JM PVC | PVC MA (LowVOC) or PVC ASSBA | -45 (Lim. 7; Non- HVHZ) |
| S-AM-12 | G33 | OPTIONAL Vapor Barrier | Min. 1.5-inch <i>E</i> 3 | Simultaneously secured with top layer | ProtectoR | <i>Fastener & Plates</i> secured 1 fastener per 4ft ² | JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -45 (Lim. 7; Non- HVHZ) |
| S-AM-13 | G33 | OPTIONAL Vapor Barrier | Min. 1.5-inch E3 | Simultaneously secured with top layer | ProtectoR | <i>Fastener & Plates</i> secured 1 fastener per 4ft ² | JM PVC FB | RSUA applied 12-inch o.c.or 2-Part UIA-C(S) | -45 (Lim. 7; Non- HVHZ) |
| S-AM-14 | G33 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch Invinsa Foam | Fastener & Plates secured 1 fastener per 5.3ft ² | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) | -45 (Lim. 7; Non- HVHZ) |
| S-AM-15 | G33, F1W, L6, S24 | OPTIONAL Vapor Barrier | Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or <i>E3 C1</i> | Fastener & Plates secured 1 fastener per 1ft ² | Min. 1.5-inch ENRGY 3 | OSFA, RSUA or 2-Part UIA applied 4-inch o.c. | JM PVC or PVC SD Plus | PVC WBMA or PVC ASSBA | -45 (Lim. 7) |
| S-AM-16 | G33, F1W, L6, S24 | OPTIONAL Vapor Barrier | Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or <i>E3 C1</i> | Fastener & Plates secured 1 fastener per 1ft ² | Min. 1.5-inch ENRGY 3 | OSFA, RSUA or 2-Part UIA applied 4-inch o.c. | JM PVC FB | RSUA applied 12-inch o.c or PVC WBMA or ASBA | -45 (Lim. 7) |
| S-AM-17 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | Min. 2-inch <i>E3</i> or <i>E3 C1</i> | Fastener & Plates secured 1 fastener per 1.6ft ² | Min. 1.5-inch <i>E</i> 3 or <i>E</i> 3 <i>C1</i> | OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c. | JM PVC FB | RSUA 12-inch o.c. | -45 (Lim. 7) |

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APPENDIX D – APPROVED ASSEMBLIES FOR JM PVC SINGLE-PLY MEMBRANES

| | | Asser | nblies with Adl | nered Membranes | s over Insulated | Steel Deck (New, | Existing, or <i>Re</i> | cover) | |
|---------------|---------------------|---------------------------|---|---|------------------------------------|---|---|--|----------------------------------|
| System No. | Deck Detail | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | MDP (psf) |
| S-AM-18 | G33 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch ENRGY 3 | Fastener & Plates secured 8 per 4-ft x 8-ft board Pattern #2 | JM PVC or JM PVC SD Plus | PVC ASSBA | -45 (Lim. 7; Non- HVHZ) |
| S-AM-19 | G33 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | StormX | OMG Fasteners & Plates secured 4 per 4-ft x 8-ft board | JM PVC or JM PVC SD Plus | PVC MA (LowVOC), PVC WBMA, or PVC ASSBA | -45 (Lim. 7; Non- HVHZ) |
| S-AM-20 | G33 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | StormX | OMG Fasteners & Plates secured 4 per 4-ft x 8-ft board | JM PVC FB | ASTM D 312 Type IV Asphalt or <i>2-Part UIA-C</i> (S) | -45 (Lim. 7; Non- HVHZ) |
| S-AM-21 | G33 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Fastener & Plates secured 1 fastener per 2.67ft ² | StormX | <i>RSUA</i> or applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC), PVC WBMA, or PVC ASSBA | -45 (Lim. 7; Non- HVHZ) |
| S-AM-22 | G33 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Fastener & Plates secured 1 fastener per 2.67ft ² | StormX | RSUA or applied 12-inch o.c. | JM PVC FB | ASTM D 312 Type IV Asphalt or <i>2-Part UIA-C</i> (S) | -45 (Lim. 7; Non- HVHZ) |
| S-AM-23 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | SECUROCK | Dekfast Fasteners & Plates or Fastener & Plates secured 1 fastener per 1.33ft ² | Base Ply: DynaBase HW Membrane: <i>JM PVC FB</i> | Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c. | -52.5 (Lim. 7) |
| S-AM-24 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | SECUROCK | Dekfast Fasteners & Plates or Fastener & Plates secured 1 fastener per 1.33ft ² | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) applied at 1-1.1 gal/100ft ² or PVC ASSBA | -52.5 (Lim. 7) |
| S-AM-25 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | SECUROCK | Dekfast Fasteners & Plates or Fastener & Plates secured 1 fastener per 1.33ft ² | JM PVC FB | 2-Part UIA-C(S) | -52.5 (Lim. 7) |
| S-AM-26 | G33, F2, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Fastener & Plates secured 1 fastener per 1.33ft ² | SECUROCK | OSFA, RSUA or 2-Part UIA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) applied at 1-1.1 gal/100ft ² or PVC ASSBA | -52.5 (Lim. 7) |

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| | | Asser | nblies with Adl | nered Membranes | s over Insulated | Steel Deck (New, | Existing, or Re | cover) | |
|---------------|-------------------------|---------------------------|---|---|--|--|---|--|-------------------|
| System No. | Deck Detail | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | MDP (psf) |
| S-AM-27 | G33, F2, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Fastener & Plates secured 1 fastener per 1.33ft ² | SECUROCK | OSFA, RSUA or 2-Part UIA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -52.5 (Lim. 7) |
| S-AM-28 | G33, F2, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Fastener & Plates secured 1 fastener per 1.33ft ² | SECUROCK | OSFA, RSUA or 2-Part UIA applied 12-inch o.c. | Base Ply: DynaBase HW Membrane: <i>JM PVC FB</i> | Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c. | -52.5 (Lim. 7) |
| S-AM-29 | G33, F2, L6, S18 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 1.5-inch <i>E3</i> or ProtectoR Foam | <i>Fastener & Plates</i> secured 1 fastener per 1.78ft ² | JM PVC FB | ASTM D 312 Type IV Asphalt | -52.5 (Lim. 7) |
| S-AM-30 | G33, F1, L6, S12 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | DensDeck Prime | Fastener & Plates secured 1 fastener per 1.78ft ² | JM PVC or JM PVC SD Plus | PVC MA (LowVOC), PVC WBMA, or PVC ASSBA | -52.5 (Lim. 7) |
| S-AM-31 | G33, F1, L6, S12 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | DensDeck Prime | Fastener & Plates secured 1 fastener per 1.78ft ² | JM PVC FB | ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S) | -52.5 (Lim. 7) |
| S-AM-32 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | StormX | OMG Fasteners & Plates secured 8 per 4-ft x 8-ft board Pattern #3 | JM PVC or JM PVC SD Plus | PVC MA (LowVOC), PVC WBMA, or PVC ASSBA | -52.5 (Lim. 7) |
| S-AM-33 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | StormX | OMG Fasteners & Plates secured 8 per 4-ft x 8-ft board Pattern #3 | JM PVC FB | ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S) | -52.5 (Lim. 7) |
| S-AM-34 | G33, F2W, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | SECUROCK | Dekfast Fasteners & Plates or Fastener & Plates secured 1 fastener per 1.00ft ² | JM PVC or JM PVC SD Plus | <i>PVC MA (LowVOC)</i> applied at 1-1.1 gal/100ft ² or <i>PVC ASSBA</i> | -60 (Lim. 7) |
| S-AM-35 | G33, F2W, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | SECUROCK | Dekfast Fasteners & Plates or Fastener & Plates secured 1 fastener per 1.00ft ² | JM PVC FB | 2-Part UIA-C(S) | -60 (Lim. 7) |

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APPENDIX D – APPROVED ASSEMBLIES FOR JM PVC SINGLE-PLY MEMBRANES

| | | Asser | nblies with Adl | nered Membranes | s over Insulated | d Steel Deck (New, | Existing, or Re | cover) | |
|---------------|-------------------------|---------------------------|---|---|---|--|---|--|-----------------|
| System No. | Deck Detail | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | MDP (psf) |
| S-AM-36 | G33, F1, L6, S30 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch ENRGY 3 | Fastener & Plates secured at a rate of 1 fastener per 1.78ft ² | Min 0.5-inch SECUROCK | OSFA, RSUA or 2-Part UIA applied 12-inch o.c. | Base Ply: DynaBase HW Membrane: <i>JM PVC FB</i> | Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c. | -60 (Lim. 7) |
| S-AM-37 | G33, F1, L6, S30 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch ENRGY 3 | Fastener & Plates secured at a rate of 1 fastener per 1.78ft ² | Min 0.5-inch SECUROCK | OSFA, RSUA or 2-Part UIA applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) applied at 1-1.1 gal/100ft ²) or PVC ASSBA | -60 (Lim. 7) |
| S-AM-38 | G33, F1, L6, S30 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch ENRGY 3 | Fastener & Plates secured at a rate of 1 fastener per 1.78ft ² | Min 0.5-inch SECUROCK | OSFA, RSUA or 2-Part UIA applied 12-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -60 (Lim. 7) |
| S-AM-39 | G33, P, L6, S20 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | SECUROCK | Dekfast Fasteners & Plates or Fastener & Plates secured 1 fastener per 1.78ft ² | Base Ply: DynaBase HW Membrane: <i>JM PVC FB</i> | Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c. | -60 (Lim. 7) |
| S-AM-40 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | Min. 2-inch <i>E</i> 3 or <i>E</i> 3 <i>C1</i> | Fastener & Plates secured 1 fastener per 1.6ft ² | Min. 1.5-inch <i>E</i> 3 or <i>E</i> 3 <i>C1</i> | OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -60 (Lim. 7) |
| S-AM-41 | G33, F1W, L6, S24 | OPTIONAL Vapor Barrier | Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or <i>E</i> 3 <i>C</i> 1 | Fastener & Plates secured 1 fastener per 1ft ² | Min. 1.5-inch ENRGY 3 | OSFA, RSUA or 2-Part UIA applied 4-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -60 (Lim. 7) |
| S-AM-42 | G33, F2, L6, S18 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch ENRGY 3 or ProtectoR Foam | <i>Fastener & Plates</i> secured 1 fastener per 1.6ft ² | JM PVC FB | 2-Part UIA-C(S) | -60 (Lim. 7) |
| S-AM-43 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | Min 0.5-inch DensDeck Prime | OMG #12 Standard Roofgrip fasteners and 3 in. Ribbed Galvalume Plate (Flat) or UltraFast Plate Metal Flat secured 16 per 4-ft x 8-ft board | JM PVC or JM PVC SD Plus | PVC MA (LowVOC), PVC WBMA, or PVC ASSBA | -60 (Lim. 7) |

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APPENDIX D – APPROVED ASSEMBLIES FOR JM PVC SINGLE-PLY MEMBRANES

| | | Asser | nblies with Adl | nered Membranes | s over Insulated | d Steel Deck (New, | Existing, or <i>R</i> e | cover) | |
|---------------|-------------------------|---------------------------|---|---|--|--|---------------------------------------|--|-------------------|
| System No. | Deck Detail | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | MDP (psf) |
| S-AM-44 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | Min 0.5-inch DensDeck Prime | OMG #12 Standard Roofgrip fasteners and 3 in. Ribbed Galvalume Plate (Flat) or UltraFast Plate Metal Flat secured 16 per 4-ft x 8-ft board | JM PVC FB | ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S) | -60 (Lim. 7) |
| S-AM-45 | G33, F2W, L6, S18 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | <i>Fastener</i> & <i>Plates</i> secured 1 fastener per 1ft ² | SECUROCK, RetroPlus, or JM Invinsa | RSUA or 2-Part UIA applied 6-inch o.c. | JM PVC FB | RSUA applied 12-inch o.c. | -67.5 (Lim. 7) |
| S-AM-46 | G33, F2W, L6, S18 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Fastener & Plates secured 1 fastener per 1ft ² | SECUROCK | OSFA, RSUA or 2-Part UIA applied 6-inch o.c. | Base Ply: DynaBase HW Membrane: | Base Ply: Torch Adhered Membrane: <i>RSUA</i> applied 12-inch o.c. | -67.5 (Lim. 7) |
| S-AM-47 | G33, F2, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR | Fastener & Plates secured 1 fastener per 2.0ft ² | JM PVC FB JM PVC or PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -67.5 (Lim. 7) |
| S-AM-48 | G33, F2, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR | <i>Fastener & Plates</i> secured 1 fastener per 2.0ft ² | JM PVC FB | 2-Part UIA-C(S) | -67.5 (Lim. 7) |
| S-AM-49 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | Min. 2-inch <i>E3</i> or <i>E3 C1</i> | Fastener & Plates secured 1 fastener per 1.6ft ² | Min. 0.5-inch ProtectoR HD, DEXcell FA, or SECUROCK | OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c. | JM PVC FB | RSUA 12-inch o.c. | -67.5 (Lim. 7) |
| S-AM-50 | G33, F1, L6, S12 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | Min 0.5-inch DensDeck Prime | Fastener & Plates secured 1 fastener per 1.78ft ² | JM PVC or JM PVC SD Plus | PVC MA (LowVOC), PVC WBMA, or PVC ASSBA | -67.5 (Lim. 7) |
| S-AM-51 | G33, F1, L6, S12 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | Min 0.5-inch DensDeck Prime | Fastener & Plates secured 1 fastener per 1.78ft ² | JM PVC FB | ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S) | -67.5 (Lim. 7) |
| S-AM-52 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | StormX | OMG Fasteners & Plates secured 12 per 4-ft x 8-ft board | JM PVC or JM PVC SD Plus | PVC MA (LowVOC), PVC WBMA, or PVC ASSBA | -67.5 (Lim. 7) |

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APPENDIX D – APPROVED ASSEMBLIES FOR JM PVC SINGLE-PLY MEMBRANES

| | | Assen | nblies with Adł | nered Membranes | s over Insulated | Steel Deck (New, | Existing, or <i>R</i> e | cover) | |
|---------------|-------------------------|---|---|---|---|--|-----------------------------------|--|-------------------|
| System No. | Deck Detail | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | MDP (psf) |
| S-AM-53 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | StormX | OMG Fasteners & Plates secured 12 per 4-ft x 8-ft board | JM PVC FB | ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S) | -67.5 (Lim. 7) |
| S-AM-54 | G33, F, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch E3 (no AGF), E3 C1, or ProtectoR Foam | <i>Fastener & Plates</i> secured 1 fastener per 1.6ft ² | JM PVC or PVC SD Plus | PVC MA (LowVOC or PVC ASSBA | -75 (Lim. 7) |
| S-AM-55 | G33, F, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch E3 (no AGF), E3 C1, or ProtectoR Foam | Fastener & Plates secured 1 fastener per 1.6ft ² | JM PVC FB | 2-Part UIA-C(S) | -75 (Lim. 7) |
| S-AM-56 | G33, F, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch E3 (no AGF) or E3 C1 | Fastener & Plates secured 1 fastener per 1.6ft ² | JM PVC FB | ASTM D 312 Type IV Asphalt | -75 (Lim. 7) |
| S-AM-57 | G33, F2, L6, S24 | OPTIONAL Vapor Barrier | Min. 1.5-inch <i>E</i> 3 | Simultaneously secured with top layer | Min. 2-inch Invinsa Foam | Fastener & Plates secured 1 fastener per 2.0ft ² | JM PVC SD Plus | PVC MA (LowVOC) | -75 (Lim. 7) |
| S-AM-58 | G33, F2, L6, S24 | OPTIONAL Vapor Barrier | Min. 1.5-inch <i>E</i> 3 | Simultaneously secured with top layer | Min. 0.5-inch SECUROCK | Fastener & Plates secured 1 fastener per 1.6ft ² | JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -75 (Lim. 7) |
| S-AM-59 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | StormX | OMG Fasteners & Plates secured 14 per 4-ft x 8-ft board | JM PVC or PVC SD Plus | PVC MA (LowVOC) applied at 1.0 gal/100ft ² or PVC ASSBA | -75 (Lim. 7) |
| S-AM-60 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | StormX | OMG Fasteners & Plates secured 14 per 4-ft x 8-ft board | JM PVC FB | ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S) | -75 (Lim. 7) |
| S-AM-61 | G80, F1W, L6, S24 | Min. 0.5-inch DEXcell FA; Fastener & Plates secured 1 fastener per 1.0ft ² ; JM Vapor Barrier SA self- adhered over SA Primer | Min. 1.5-inch E3 | <i>RSUA</i> or 2-Part UIA; Applied 6-inch o.c. | Min. 0.5-inch DEXcell FA | <i>RSUA a</i> pplied 6-inch o.c. | <i>JM PVC FB</i> (Min. 60 mil) | RSUA applied 6-inch o.c. or 2-Part UIA-C(S) | -82.5 (Lim. 7) |

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| | | Asser | nblies with Adl | nered Membranes | s over Insulated | Steel Deck (New, | Existing, or <i>R</i> e | cover) | |
|---------------|-------------------------|--|--|--|--|---|-----------------------------------|--|-------------------|
| System No. | Deck Detail | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | MDP (psf) |
| S-AM-62 | G33, F2, L6, S24 | Min. 0.5-inch DEXcell FA secured with top layer; JM Vapor Barrier SA self- adhered | Min. 1.5-inch <i>E</i> 3 | Simultaneously secured with top layer | Min. 0.5-inch DEXcell FA | Fastener & Plates or Dekfast #12 Fasteners & Plates secured 1 fastener per 1.0ft ² | <i>JM PVC FB</i> (Min. 60 mil) | RSUA applied 4-inch o.c. or 2-Part UIA-C(S) | -82.5 (Lim. 7) |
| S-AM-63 | G33, F2, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch E3 (no AGF), E3 C1, or ProtectoR Foam | <i>Fastener & Plates</i> secured 1 fastener per 1.0ft ² | JM PVC or PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -82.5 (Lim. 7) |
| S-AM-64 | G33, F2, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch E3 (no AGF) or E3 C1 | Fastener & Plates secured 1 fastener per 1.0ft ² | JM PVC FB | ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S) | -82.5 (Lim. 7) |
| S-AM-65 | G33, F2, L6, S24 | OPTIONAL Vapor Barrier | Min. 1.5-inch <i>E</i> 3 | Simultaneously secured with top layer | Min. 0.5-inch DEXcell FA | Fastener & Plates or Dekfast #12 Fasteners & Plates secured 1 fastener per 1.0ft ² | JM PVC or PVC SD Plus | PVC MA (LowVOC) applied at 1.0 gal/100ft ² | -82.5 (Lim. 7) |
| S-AM-66 | G33, F2, L6, S24 | OPTIONAL Vapor Barrier | Min. 1.5-inch <i>E</i> 3 | Simultaneously secured with top layer | Min. 0.5-inch DensDeck Prime | Fastener & Plates secured 1 fastener per 1.0ft ² | JM PVC or PVC SD Plus | PVC MA (LowVOC) applied at 1.0 gal/100ft ² or PVC ASSBA | -82.5 (Lim. 7) |
| S-AM-67 | G33, F2, L6, S24 | OPTIONAL Vapor Barrier | Min. 1.5-inch <i>E</i> 3 | Simultaneously secured with top layer | Min. 0.5-inch DensDeck Prime | Fastener & Plates secured 1 fastener per 1.0ft ² | JM PVC FB | ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S) | -82.5 (Lim. 7) |
| S-AM-68 | G33, F1W, L6, S24 | OPTIONAL Vapor Barrier | Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or <i>E3 C1</i> | Fastener & Plates secured 1 fastener per 1ft ² | Min. 1.5-inch ENRGY 3 | OSFA, RSUA or 2-Part UIA applied 4-inch o.c. | JM PVC or PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -82.5 (Lim. 7) |
| S-AM-69 | G33, F1W, L6, S24 | OPTIONAL Vapor Barrier | Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or <i>E3 C1</i> | Fastener & Plates secured 1 fastener per 1ft ² | Min. 1.5-inch ENRGY 3 | OSFA, RSUA or 2-Part UIA applied 4-inch o.c. | JM PVC FB | ASTM D 312 Type IV | -82.5 (Lim. 7) |
| S-AM-70 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | Min. 2-inch <i>E</i> 3 or <i>E</i> 3 <i>C1</i> | Fastener & Plates secured 1 fastener per 1.6ft ² | Min. 0.5-inch ProtectoR HD, <i>DensDeck</i> <i>Prime,</i> DEXcell FA, or SECUROCK | OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c. | JM PVC or PVC SD Plus | PVC MA (LowVOC) | -82.5 (Lim. 7) |

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| | | Asser | nblies with Adl | nered Membranes | s over Insulated | Steel Deck (New, | Existing, or <i>R</i> e | cover) | |
|---------------|---------------------|---------------------------|---|--|--|---|--------------------------------|--|---------------------|
| System No. | Deck Detail | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | <i>MDP</i> (psf) |
| S-AM-71 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | Min. 2-inch E3 or E3 C1 | Fastener & Plates secured 1 fastener per 1.6ft ² | Min. 0.5-inch ProtectoR HD, <i>DensDeck</i> <i>Prime,</i> or <i>SECUROCK</i> | OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c. | JM PVC or PVC SD Plus | PVC ASSBA | -82.5 (Lim. 7) |
| S-AM-72 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | Min. 2-inch <i>E3</i> or <i>E3 C1</i> | Fastener & Plates secured 1 fastener per 1.6ft ² | Min. 0.5-inch ProtectoR HD, DEXcell FA, or SECUROCK | OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c. | JM PVC FB | 2-Part UIA-C(S) | -82.5 (Lim. 7) |
| S-AM-73 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | Min. 2-inch <i>E3</i> or <i>E3 C1</i> | Fastener & Plates secured 1 fastener per 1.6ft ² | Min. 1.5-inch E3 (no AGF) or E3 C1 | OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 6-inch o.c. | JM PVC or PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -82.5 (Lim. 7) |
| S-AM-74 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | StormX | OMG Fasteners & Plates secured 12 per 4-ft x 8-ft board Pattern #2 | JM PVC or PVC SD Plus | PVC MA (LowVOC) applied at 1.0 gal/100ft ² or PVC ASSBA | -82.5 (Lim. 7) |
| S-AM-75 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | StormX | OMG Fasteners & Plates secured 12 per 4-ft x 8-ft board Pattern #2 | JM PVC FB | ASTM D 312 Type IV Asphalt or 2-Part UIA-C(S) | -82.5 (Lim. 7) |
| S-AM-76 | G80, F2, L6, S12 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | Min 0.625-inch DensDeck Prime | Fastener & Plates secured 1 fastener per 1.33ft ² | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) or PVC WBMA | -90 (Lim. 7) |
| S-AM-77 | G80, F2, L6, S12 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | Min 0.625-inch DensDeck Prime | Fastener & Plates secured 1 fastener per 1.33ft ² | JM PVC FB | ASTM D 312 Type IV Asphalt | -90 (Lim. 7) |
| S-AM-78 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | StormX | OMG Fasteners & Plates secured 18 per 4-ft x 8-ft board Pattern #1 | JM PVC or PVC SD Plus | PVC MA (LowVOC) applied at 1.0 gal/100ft ² | -97.5 (Lim. 7) |
| S-AM-79 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | StormX | OMG Fasteners & Plates secured 18 per 4-ft x 8-ft board Pattern #1 | JM PVC FB | ASTM D 312 Type IV Asphalt | -97.5 (Lim. 7) |
| S-AM-80 | G80, F2, L6, S24 | OPTIONAL Vapor Barrier | Min. 1.5-inch <i>E</i> 3 | Simultaneously secured with top layer | Min. 0.5-inch DEXcell FA | Fastener & Plates or Dekfast #12 Fasteners & Plates secured 1 fastener per 1.0ft ² | JM PVC or PVC SD Plus | PVC MA (LowVOC) applied at 1.0 gal/100ft ² | -105 (Lim. 7) |

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| | | Asser | nblies with Adl | hered Membranes | s over Insulated | Steel Deck (New, | Existing, or <i>R</i> e | cover) | |
|---------------|-------------------------|---------------------------|---|--|---|---|--------------------------|--|---------------------|
| System No. | Deck Detail | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | <i>MDP</i> (psf) |
| S-AM-81 | G80, F2, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch ENRGY 3 CGF or ENRGY 3 FR | Fastener & Plates secured 1 fastener per 1.33ft ² | JM PVC SD Plus | PVC MA (LowVOC) | -105 (Lim. 7) |
| S-AM-82 | G80, F2, L6, S24 | OPTIONAL Vapor Barrier | Min. 1.5-inch <i>E3</i> | Simultaneously secured with top layer | Min. 0.5-inch DensDeck Prime | Fastener & Plates secured 1 fastener per 1.0ft ² | JM PVC or PVC SD Plus | <i>PVC MA (LowVOC)</i> applied at 1.0 gal/100ft ² | -112.5 (Lim. 7) |
| S-AM-83 | G80, F2, L6, S24 | OPTIONAL Vapor Barrier | Min. 1.5-inch <i>E</i> 3 | Simultaneously secured with top layer | Min. 0.5-inch DensDeck Prime | Fastener & Plates secured 1 fastener per 1.0ft ² | JM PVC FB | ASTM D 312 Type IV Asphalt | -112.5 (Lim. 7) |
| S-AM-84 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | StormX | OMG Fasteners & Plates secured 20 per 4-ft x 8-ft board or 18 per 4-ft x 8-ft board Pattern #2 | JM PVC or PVC SD Plus | <i>PVC MA (LowVOC)</i> applied at 1.0 gal/100ft ² | -112.5 (Lim. 7) |
| S-AM-85 | G33, F1, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | StormX | OMG Fasteners & Plates secured 20 per 4-ft x 8-ft board or 18 per 4-ft x 8-ft board Pattern #2 | JM PVC FB | ASTM D 312 Type IV Asphalt | -112.5 (Lim. 7) |
| S-AM-86 | G80, F2, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch E3 (no AGF), E3 C1, or ProtectoR Foam | <i>Fastener & Plates</i> secured 1 fastener per 1.0ft ² | JM PVC or PVC SD Plus | PVC MA (LowVOC) | -120 (Lim. 7) |
| S-AM-87 | G80, F2, L6, S24 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION | Simultaneously secured with top layer | Min. 2-inch E3 (no AGF) or E3 C1 | Fastener & Plates secured 1 fastener per 1.0ft ² | JM PVC FB | ASTM D 312 Type IV Asphalt | -120 (Lim. 7) |
| S-AM-88 | G80, F1W, L6, S24 | OPTIONAL Vapor Barrier | Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or <i>E</i> 3 <i>C</i> 1 | Fastener & Plates secured 1 fastener per 1ft ² | Min. 1.5-inch ENRGY 3 | OSFA, RSUA or 2-Part UIA applied 4-inch o.c. | JM PVC or PVC SD Plus | PVC MA (LowVOC) | -120 (Lim. 7) |
| S-AM-89 | G80, F1W, L6, S24 | OPTIONAL Vapor Barrier | Min. 2-inch ENRGY 3, ENRGY 3 CGF, ENRGY 3 FR or <i>E</i> 3 <i>C</i> 1 | Fastener & Plates secured 1 fastener per 1ft ² | Min. 1.5-inch ENRGY 3 | OSFA, RSUA or 2-Part UIA applied 4-inch o.c. | JM PVC FB | ASTM D 312 Type IV Asphalt | -120 (Lim. 7) |

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JOHNS MANVILLE CORPORATION

PVC Single Ply Roofing Systems

| | | Asser | nblies with Adł | nered Membranes | s over Insulated | d Steel Deck (New, I | Existing, or Re | cover) | |
|---------------|---------------------|--|---|--|------------------------------------|---|--------------------------|--------------------------|---------------------|
| System No. | Deck Detail | Thermal/ Vapor Barrier | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | <i>MDP</i> (psf) |
| S-AM-90 | G80, F2, L6, S24 | OPTIONAL Vapor Barrier | Min. 2-inch <i>E3</i> or <i>E3 C1</i> | Fastener & Plates secured 1 fastener per 1ft ² | ProtectoR HD | OSFA, RSUA, 2-Part UIA-C(B), or 2-Part UIA applied 4-inch o.c. | JM PVC or PVC SD Plus | PVC MA (LowVOC) | -120 (Lim. 7) |
| S-AM-91 | G80, F2, L6, S18 | OPTIONAL Vapor Barrier | OPTIONAL INSULATION under min. 1.5-inch E3 | Simultaneously secured with top layer | Min. 0.5-inch DEXcell FA | Fastener & Plates or Dekfast #12 Fasteners & Plates secured 1 fastener per 1ft ² | JM PVC FB | 2-Part UIA-C(S) | -135 (Lim. 7) |
| S-AM-92 | G80, F2, L6, S24 | Min. 0.5-inch DEXcell FA secured with top layer; JM Vapor Barrier SA self- adhered | Min. 1.5-inch <i>E</i> 3 | Simultaneously secured with top layer | Min. 0.5-inch DEXcell FA | Fastener & Plates or Dekfast #12 Fasteners & Plates secured 1 fastener per 1.0ft ² | JM PVC FB | RSUA applied 4-inch o.c. | -142.5 (Lim. 7) |

| | | Γ | Mechanically Faste | ened Assemblies ov | ver Steel Deck (New, E | ixisting, or <i>R</i> e | cover) | |
|---------------|--------------------------|---|--|-------------------------|------------------------------|---|---|------------------------------------|
| System No. | Deck Detail | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) |
| S-M-1 | G33, H1, L6, SH24 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC (Min. 60 mil) | Attached in-lap 12-inch o.c. with <i>HL Fasteners & Plates</i> ; Fastener rows max. 138-inch o.c. | -30 (Lim. 7; Non- HVHZ) |
| S-M-2 | G33, L6 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC | Attached in-lap 6-inch o.c. with Extra HL Fastener & Plates; Min. 6-inch wide side laps; Fastener rows max. 114-inch o.c. | -37.5 (Lim. 7; Non- HVHZ) |
| S-M-3 | G33, F1 or P, L6, S24 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC, JM PVC SD Plus, or JM PVC SL | Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 6-inch wide side laps; Fastener rows max. 114-inch o.c. | -45 (Lim. 7) |
| S-M-4 | G33, F1, L6, S24 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC SD Plus or JM PVC SL | Attached in-lap 12-inch o.c. with HL Fasteners & Plates; Min. 6-inch wide side laps; Fastener rows max. 54-inch o.c. | -45 (Lim. 7) |
| S-M-5 | G33, F1 or P, L6, S24 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC | Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 6-inch wide side laps; Fastener rows max. 114-inch o.c. | -45 (Lim. 7) |

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| | | N | Mechanically Faste | ened Assemblies o | ver Steel Deck (New, E | xisting, or <i>Re</i> | cover) | - |
|---------------|----------------------|---|--|-------------------------|------------------------------|-----------------------------------|--|---------------------|
| System No. | Deck Detail | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | <i>MDP</i> (psf) |
| S-M-6 | G80, F1, L6, S30 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC | Attached in-lap 12-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 5-inch wide side laps; Fastener rows max. 73-inch o.c. | -45 (Lim. 7) |
| S-M-7 | G33, P, L6 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC | Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 6-inch wide side laps; Fastener rows max. 72-inch o.c. | -45 (Lim. 7) |
| S-M-8 | G33, H1, L6, SH24 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC (Min. 60 mil) | Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Fastener rows max. 138-inch o.c. | -52.5 (Lim. 7) |
| S-M-9 | G80, F1, L6, S30 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | <i>JM PVC</i> (Min. 60 mil) | Attached in-lap 12-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 5-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 73-inch o.c. | -52.5 (Lim. 7) |
| S-M-10 | G33, F1, L6, S24 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC FB/ DynaFast | HL Fasteners & Plates spaced 6- inch o.c within each min. 4-inch heat welded side laps in rows max. 70-inch o.c. | -52.5 (Lim. 9) |
| S-M-11 | G33, F1, L6, S24 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC SD Plus or JM PVC SL | Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 6-inch wide side laps; Fastener rows max. 54-inch o.c. | -60 (Lim. 7) |
| S-M-12 | G80, F1, L6, S30 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC | Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 5-inch wide side laps; Fastener rows max. 73-inch o.c. | -60 (Lim. 7) |
| S-M-13 | G80, F1, L6, S30 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC or JM PVC FB | Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 4.5- inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 114-inch o.c. | -60 (Lim. 7) |
| S-M-14 | G80, F1, L6, S24 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC | Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Min. 5.5- inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 114-inch o.c. | -60 (Lim. 7) |

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| | Mechanically Fastened Assemblies over Steel Deck (New, Existing, or Recover) | | | | | | | | | | |
|---------------|--|---|--|-------------------------|------------------------------|--------------------------------|--|---------------------|--|--|--|
| System No. | Deck Detail | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | <i>MDP</i> (psf) | | | |
| S-M-15 | G80, F1, L6, S24 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC | Attached in-lap 6-inch o.c. with Extra High Load Fasteners & OMG Super XHD 2-3/4 Barbed Plates; Min. 5.5-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 114-inch o.c. | -60 (Lim. 7) | | | |
| S-M-16 | G33, P, L6 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC FB/ DynaFast | APB Fasteners & Plates spaced 6- inch o.c within each min. 4-inch heat welded side lap. | -60 (Lim. 9) | | | |
| S-M-17 | G33, P, L6 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC FB/ DynaFast | HL Fasteners & Plates spaced 12- inch o.c within each min. 4-inch heat welded side lap. | -60 (Lim. 9) | | | |
| S-M-18 | G33, P, L6 | OPTIONAL INSULATION under min. 1-inch E3 | <i>Preliminarily</i> <i>Secured</i> or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC FB/ DynaFast | High Load LH Fasteners and Polymer Membrane Batten OR High Load Fasteners and Deep Well Batten strip spaced 6-inch o.c. within min. 4-inch heat welded side laps in rows max. 71-inch o.c. | -60 (Lim. 9) | | | |
| S-M-19 | G80, F1, L6, S30 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | <i>JM PVC</i> (Min. 60 mil) | Attached in-lap 6-inch o.c. with HL Fasteners & Plates; Min. 6-inch wide side laps with min. 2-inch wide heat welds; Fastener rows max. 72-inch o.c. | -75 (Lim. 7) | | | |

| | | | Induction Wel | ded Assemblies | over Steel Deck (New, Existin | ng, or <i>Recove</i> | r) | |
|---------------|----------------------------|---|--|-------------------------|---|--|---|------------------------------------|
| System No. | Deck Detail | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) |
| S-W-1 | G33, L6 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | <i>JM PVC SD</i> <i>Plus</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates with High Load Fasteners placed max. 12" o.c. in rows max. 72" o.c. | -37.5 (Lim. 7; Non- HVHZ) |
| S-W-2 | G33, SD1W, L6, SDL24 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with <i>ISOWELD-#15</i> spaced 12" o.c. in rows 60" o.c. | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -37.5 (Lim. 7; Non- HVHZ) |

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| | | | Induction Wel | ded Assemblies | s over Steel Deck (New, Existing | ng, or <i>Recove</i> | r) | |
|---------------|---|---|--|-------------------------|---|--|---|------------------------------------|
| System No. | | | Inculation | | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) |
| S-W-3 | G80, F1, L6, S36 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with ISOWELD-#12 or ISOWELD-#15 spaced in a 2-ft x 3-ft staggered grid | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -37.5 (Lim. 7; Non- HVHZ) |
| S-W-4 | G33, P, L6, S36 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with ISOWELD-#15 spaced in a 2-ft x 3-ft staggered grid | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -37.5 (Lim. 7; Non- HVHZ) |
| S-W-5 | 22 GA Type N; G80, H1, L12, HS24 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with <i>RhinoPlates</i> at a rate of 6 per 4-ft x 8-ft board <i>Type N;</i> Insulation/Cover Boards laid perpendicular to deck flutes; Boards ends offset 8-inch from previous row | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to JM PVC RhinoPlates | -37.5 (Lim. 7; Non- HVHZ) |
| S-W-6 | G33, F1, L6, S24 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | <i>JM PVC SD</i> <i>Plus</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates with High Load Fasteners placed max. 12" o.c. in rows max. 60" o.c. | -45 (Lim. 7) |
| S-W-7 | G33, SD1W, L6, SDL24 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with <i>ISOWELD-#15</i> spaced 24" o.c. in rows 24" o.c. | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -45 (Lim. 7) |
| S-W-8 | G80, F1, L6, S36 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with ISOWELD-#12 or ISOWELD-#15 spaced 12" o.c. in rows 60" o.c. | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -45 (Lim. 7) |
| S-W-9 | G33, P, L6, S24 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | <i>RhinoPlates</i> in a 2-ft x 2-ft staggered grid pattern | <i>JM PVC SD</i> <i>Plus</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates | -52.5 (Lim. 7) |
| S-W-10 | 22 GA Type N; G80, H1, L12, HS24 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with <i>RhinoPlates</i> at a rate of <i>8 per 4-ft x 8-ft board</i> <i>Type N;</i> Insulation/Cover Boards laid perpendicular to deck flutes; Boards ends offset 8-inch from previous row | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to JM PVC RhinoPlates | -52.5 (Lim. 7) |
| S-W-11 | G33, SD1W, L6, SDL24 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with <i>ISOWELD-#15</i> spaced 6" o.c. in rows 60" o.c. | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -60 (Lim. 7) |

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| | | | Induction Wel | ded Assemblies | over Steel Deck (New, Existin | ng, or <i>Recove</i> | r) | |
|---------------|----------------------------|---|--|--|--|---|---|-------------------|
| System No. | Deck Detail | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) |
| S-W-12 | G33, F1, L6, S18 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | <i>RhinoPlates</i> at a rate of 8 per 4-ft x 8-ft board Pattern #1 (1 fastener per 4.0-ft ²) | <i>JM PVC</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates | -67.5 (Lim. 7) |
| S-W-13 | G33, SD1W, L6, SDL24 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with ISOWELD-#15 or ISOWELD-#14 spaced 18" o.c. in rows 24" o.c. | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -67.5 (Lim. 7) |
| S-W-14 | G33, F1, L6, S24 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | inarily red or od with ayer OPTIONAL <i>Cover Board</i> <i>Preliminarily Secured</i> <i>JM PVC SD</i> <i>Plus</i> (Min. 60 mil) <i>JM PVC SD</i> <i>Plus</i> (Min. 60 mil) | | -82.5 (Lim. 7) | | |
| S-W-15 | G33, P, L6, S36 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with ISOWELD-#15 spaced in a 1.5-ft x 2-ft staggered grid | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -82.5 (Lim. 7) |
| S-W-16 | G33, SD1W, L6, SDL24 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with <i>ISOWELD-#15</i> spaced 18" o.c. in rows 18" o.c. | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -82.5 (Lim. 7) |
| S-W-17 | G33, F1, L6, S24 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC SD Induction welded to JM PVC | | -90 (Lim. 7) |
| S-W-18 | G33, F2W, L6 | OPTIONAL INSULATION under min. 1-inch E3 | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | <i>RhinoPlates</i> at a rate of 15 per 4-ft x 8-ft board (1 fastener per 2.13-ft ²) | rows max. 60° o.c. rof JM PVC Induction welded to JM PVC rd (Min. 60 mil) PhinoPlates | | -90 (Lim. 7) |
| S-W-19 | G33, F1, L5, S30 | INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Attached with <i>ISOWELD-#15</i> spaced 6" o.c. in rows 60" o.c. | JM PVC JM PVC SD Plus (Min. 60 mil) | Induction welded to Isoweld plates | -90 (Lim. 7) |

| | Assemblies with Adhered Membranes over Insulated Wood Deck (New, Existing, or Recover) | | | | | | | | | | | |
|---------------|--|------------------------|--|---------------------------------|---|--------------------------------|---------------------------------|------------------------------------|--|--|--|--|
| System No. | Deck Detail | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | MDP (psf) | | | | |
| W-AM-1 | T19/320, L24 | OPTIONAL INSULATION | Preliminarily Secured or secured with top layer | DEXcell FA | UltraFast Fasteners & Plates (Square) at a rate of 6 per 4-ft x 4-ft board (1 fastener per 2.67-ft ²) | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -37.5 (Lim. 7; Non- HVHZ) | | | | |
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| | | Asseml | olies with Adhered | Membranes over I | nsulated Wood Deck (Ne | ew, Existing, o | r <i>Recover</i>) | |
|---------------|------------------------------|---|--|---|--|--------------------------------|---|------------------------------------|
| System No. | Deck Detail | Base Insulation | Base Insulation Attachment | Top Insulation or Coverboard | Top Insulation or Coverboard Attachment | Membrane | Membrane Attachment | MDP (psf) |
| W-AM-2 | T7/16O, L24, N6 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | ProtectoR HD | UltraFast Fasteners & Plates (Square) at a rate of 1 fastener per 2-ft ² | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -37.5 (Lim. 7; Non- HVHZ) |
| W-AM-3 | T7/160, L24, N6 | OPTIONAL INSULATION under min. 1.5-inch E3 | Preliminarily Secured or secured with top layer | ProtectoR HD | UltraFast Fasteners & Plates (Square) at a rate of 1 fastener per 2-ft ² | JM PVC FB | RSUA applied 12-inch o.c. or 2-Part UIA-C(S) | -37.5 (Lim. 7; Non- HVHZ) |
| W-AM-4 | T15/32P, L24 | - | - | ProtectoR HD | <i>RSUA</i> applied 12-inch o.c. | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -37.5 (Lim. 7; Non- HVHZ) |
| W-AM-5 | T15/32P, L24 | - | - | ProtectoR HD | RSUA applied 12-inch o.c. | JM PVC FB | RSUA applied 12-inch o.c. or 2-Part UIA-C(S) | -37.5 (Lim. 7; Non- HVHZ) |
| W-AM-6 | T7/160 or T15/32P, L24 | OPTIONAL INSULATION | Preliminarily Secured or secured with top layer | Min. 1.5-inch ENRGY 3 or ProtectoR Foam | Fastener & Plates at a rate of 16 per 4-ft x 8-ft board (1 fastener per 2-ft ²) | JM PVC or JM PVC SD Plus | PVC MA (LowVOC) or PVC ASSBA | -45 (Lim. 7; Non- HVHZ) |

| | Mechanically Fastened Assemblies over Wood Deck (New or Existing) | | | | | | | | | | | | |
|---------------|---|--------------------|------------------------------|--|-------------------------|---------------------------------|----------|---|------------------------------------|--|--|--|--|
| System No. | Deck Detail | Thermal Barrier | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | MDP (psf) | | | | |
| W-M-1 | T19/32P, L25 | As required | Min. 0.25-inch INSULATION | <i>Preliminarily</i> <i>Secured</i> or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC | Attached in-lap 6-inch o.c. with <i>HL Fasteners & Plates</i> ; Fastener rows max. 72-inch o.c. | -37.5 (Lim. 7; Non- HVHZ) | | | | |
| W-M-2 | T15/32P, L24, N6 | As required | Min. 0.25-inch INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | Preliminarily Secured | JM PVC | Attached in-lap 12-inch o.c. with All Purpose Fasteners and High Load Plates through deck into wood supports; Fastener shall have sufficient length to penetrate min. 1.5-inch into wood supports; Fastener rows max. 72-inch o.c. | -45 (Lim. 7) | | | | |

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| | | | Ind | uction Welded | Assemblies ove | er Wood Deck (New or Existing) | | | |
|---------------|---------------------------------|--------------------|---|--|-------------------------|--|--------------------------------|--|------------------------------------|
| System No. | Deck Detail | Thermal Barrier | Base Insulation | Base Insulation Attachment | Top Insulation | Top Insulation Attachment | Membrane | Membrane Attachment | <i>MDP</i> (psf) |
| W-W-1 | T7/160 or T15/32P, L24 | As required | Min. 1-inch <i>E</i> 3 or <i>E</i> 3 <i>C1</i> | Loose laid | OPTIONAL Cover Board | JM All Purpose Fasteners (min. 1.5- inch embedment into wood supports) and JM PVC RhinoPlates secured max. 48-inch o.c. through sheathing into wood structural supports in rows max. 24" o.c. | <i>JM PVC</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates | -37.5 (Lim. 7; Non- HVHZ) |
| W-W-2 | T15/32P, L24, N6 | As required | Min. 0.25-inch INSULATION | Preliminarily Secured or secured with top layer | OPTIONAL Cover Board | JM All Purpose Fasteners (min. 1.5- inch embedment into wood supports) and JM PVC RhinoPlates secured max. 24-inch o.c. through sheathing into wood structural supports in rows max. 24" o.c. | <i>JM PVC</i> (Min. 60 mil) | Induction welded to JM PVC RhinoPlates | -52.5 (Lim. 7) |

END OF REPORT

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