NEMO|etc.
Certificate of Authorization #32455
353 Christian Street, Unit #13
Oxford, CT 06478
(203) 262-9245

ENGINEER TEST CONSULT

P.E. EVALUATION REPORT (PEER)

H.B. Fuller Company
4401 Page Avenue
Michigan Center, MI 49254
(517) 841-7107

PEER-HBF-001.A.R17
FL1800-R17 (NON-HVHZ)
Date of Issuance: 02/13/2004
Revision 17: 10/16/2026

SCOPE:
This P.E. Evaluation Report (henceforth 'PEER') is issued under **F.A.C. Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for compliance with the **9th Edition (2026) Florida Building Code** sections noted herein.

DESCRIPTION: Millennium Roofing Adhesives (NON-HVHZ)

LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or Code provisions that relate to the product(s) change. Acceptance of our PEERs by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance, or the production facility location(s). NEMO ETC, LLC requires a complete review of its PEER relative to updated Code requirements with each Code Cycle. Reference is made to the NEMO|etc. Directory of P.E. Evaluations to ascertain the status and/or current version of this PEER. If the PEER is not listed at the Nemo Directory, then it is no longer valid.

ADVERTISEMENT: "NEMO P.E. Evaluated" may be displayed in advertising literature. If any portion of the PEER is displayed, then it shall be in its entirety.

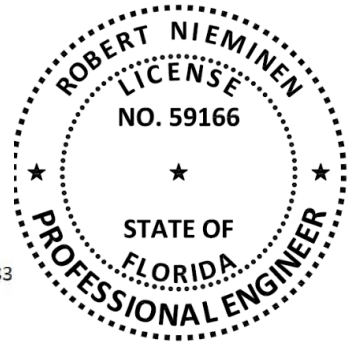
INSPECTION: Upon request, a copy of this entire PEER shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This PEER consists of pages 1 through 4, plus 19-pages of Appendix.

Prepared by:

Digitally signed by Robert Nieminen
Date: 2026.10.18 '11:20:19 -04'00

This item has been digitally signed and sealed by Robert Nieminen, P.E.
Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.
Robert Nieminen, Florida P.E. 59166, FBC ANE1983
NEMO ETC, LLC, Florida CA #32455



CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the PEERs are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

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ROOFING COMPONENT EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Cements-Adhesives-Coatings
Product Approval Method: Method 1, Option D – Codified Material, Evaluation by Engineer
Compliance Statement: **Millennium Roofing Adhesives**, as outlined herein by **H.B. Fuller Company**, have demonstrated compliance with the **9th Edition (2026) Florida Building Code** through testing in accordance with the Standards set forth herein. Compliance is subject to the Installation Requirements and Limitations of Use set forth herein.

2. STANDARDS:

Sections	Property	Standard
1504.3.1	Wind resistance	FM 4474

3. REFERENCES:

Entity	Examination	Reference	Date
FM (TST 1867)	FM 4474	3009610	10/22/2001
FM (TST 1867)	FM 4474	3014751	08/27/2003
FM (TST 1867)	FM 4474	3018579	10/09/2003
FM (TST 1867)	FM 4474	3024311	11/01/2006
FM (TST 1867)	QC Update	797-02683-267	03/08/2007
FM (TST 1867)	FM 4474	3036182	07/31/2009
FM (TST 1867)	FM 4474	3055491	12/05/2016
FM (TST 1867)	FM 4474	3061328	03/22/2017
FM (TST 1867)	FM 4474	3061328 (DATA)	03/20/2019
FM (TST 1867)	FM 4474	PR457312	04/20/2021
FM (TST 1867)	FM 4474	RR243135	09/27/2024
FM (TST 1867)	Criticality	PR470427 (DATA)	03/11/2026
NEMO (TST6049)	FM 4474	4L-RAS-18-002.1A	05/28/2019
NEMO (TST6049)	FM 4474	4a-HBF-LSWUS-001.A	06/06/2024
PRI (TST5878)	FM 4474	2111T0009	05/13/2021
FM (QUA 1860)	Quality Assurance	Inspection Report (OH)	02/05/2026
FM (QUA 1860)	Quality Assurance	Inspection Report (MI)	03/09/2026
FM (QUA 1860)	Quality Assurance	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

TABLE 1: EVALUATED ADHESIVES

PRODUCT	DESCRIPTION	PLANT(S)
Millennium One Step Foamable Adhesive	Elastomeric, two-part, one-step foamable adhesive for bonding approved roof insulations to approved substrates.	Chagrin Falls, OH
Millennium One Step Green Foamable Adhesive	Elastomeric, two-part, one-step foamable adhesive for bonding approved roof insulations to approved substrates.	
Millennium PG-1 Pump Grade Adhesive	Two-part, low-rise, polyurethane foamable adhesive for bonding approved roof insulations to approved substrates.	
Millennium PG-1 SAF Pump Grade Adhesive	Two-part, low-rise, polyurethane foamable adhesive for bonding approved roof insulations to approved substrates.	
Millennium PG-1 EF ECO	Two-part, low-rise, polyurethane foamable adhesive for bonding approved roof insulations and fleece-back roof membranes to approved substrates.	Chagrin Falls, OH or Grand Rapids, MI
Millennium PG-1 EF ECO2	Two-part, low-rise, polyurethane foamable adhesive for bonding approved roof insulations and fleece-back roof membranes to approved substrates.	

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5. LIMITATIONS:

5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance. PEERs are not to be construed as representing any attributes not specifically listed, nor are PEERs to be construed as an endorsement of the subject, or a recommendation for its use. There is no warranty by NEMO ETC, LLC or Robert Nieminen, P.E., express or implied, as to any finding or other matter in this PEER, or as to any product covered by the PEER.

5.2 This PEER is not for use in FBC High Velocity Hurricane Zone jurisdictions, as defined in FBC Chapter 2 (Broward and Miami-Dade Counties).

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

5.4 This PEER does not include evaluation of fire classification. Refer to **FBC 1505** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.

5.5 This PEER does not include evaluation of roof edge termination. Refer to **FBC 1504.5** for requirements and limitations regarding edge securement for low-slope roofs.

5.6 Refer to **FBC 1511** for requirements and limitations regarding recover installations.

5.6.1 RESERVED

5.6.2 For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance with **ANSI/SPRI IA-1**, **ASTM E907**, **FM Loss Prevention Data Sheet 1-52** or **Testing Application Standard TAS 124** shall be conducted on mock-ups of the proposed new roof assembly.

5.6.3 For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing in accordance with **ASTM E907**, **FM Loss Prevention Data Sheet 1-52** or **Testing Application Standard TAS 124**.

5.7 Refer to Appendix 1 for system attachment requirements for wind load resistance.

5.7.1 "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per **FBC 1504.9** has already been applied). Refer to **FBC 1609** for determination of design wind loads.

5.7.2 The overall wind performance of the completed roof assembly shall be the lesser of maximum design pressure listed in Appendix 1 compared to that for the roof cover adhered to the referenced insulation or coverboard, as documented through an FBC Approved Evaluation Entity or Certification Agency.

5.7.3 For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with **FBC Chapter 16**. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are **ANSI/SPRI WD1**, **FM Loss Prevention Data Sheet 1-29**, **Roofing Application Standard RAS 117** and **Roofing Application Standard RAS 137**. Assemblies marked with an asterisk* carry the limitations set forth in **Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29** for Zone 2/3 enhancements.

5.7.4 For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with **FBC Chapter 16**. No rational analysis is permitted for these systems.

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5.8 Corrosion Resistance – Saltwater Environments:

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

5.9 The roof cover adhered over the final layer of roof insulation shall be Approved for use with the specific insulation and/or coverboard components, shall be installed in accordance with the roof cover manufacturer's Florida Product Approval and shall be compliant with **FBC Chapter 15**, including fire classification, wind resistance, impact resistance, physical properties and applicable material standard(s).

6. INSTALLATION:

6.1 **Millennium Roofing Adhesives** shall be installed in accordance with **H.B. Fuller Company** published installation instructions, subject to the Limitations of Use herein.

6.2 The existing deck or roof surface shall be clean, smooth and free of foreign debris. Existing roof decks or roof surfaces shall be examined by a representative of **H.B. Fuller Company** for suitability of use with **Millennium Roofing Adhesives.**

7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction to properly evaluate the installation of this product.

8. MANUFACTURING LOCATIONS:

Contact the named QA entity for manufacturing facilities covered by **F.A.C. Rule 61G20-3** QA requirements. Refer to Section 4 herein for products and production locations having met codified standards.

9. QUALITY ASSURANCE ENTITY:

FM Approvals – QUA1860; (781) 255-4783, Joanna.Blaney@fmglobal.com

Products listed in **Rule 61G20-3.001, F.A.C.**, shall be manufactured under a quality assurance program audited by an approved quality assurance entity. Refer to the Product Approval of the component manufacturer for components listed in Appendix 1 that are produced by a Product Manufacturer other than the report holder on Page 1 of this PEER.

- THE 19-PAGES THAT FOLLOW FORM PART OF THIS PEER -

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APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE					
TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
1A	Steel	New or Reroof (Tear-Off)	A-1	Bonded Insulation	3
1B	Steel	New or Reroof (Tear-Off)	A-2	Bonded Thermal Barrier, Bonded Insulation	4
2A	Structural Concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation	5
3A	Deck with Lightweight Concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation	7
4A	Cementitious Wood Fiber	New or Reroof (Tear-Off)	A-1	Bonded Insulation	12
4B	Cementitious Wood Fiber	New or Reroof (Tear-Off)	A-2	Bonded Thermal Barrier, Bonded Insulation	13
5A	Existing gypsum	New or Reroof (Tear-Off)	A-1	Bonded Insulation	14
6A	Various	Recover	A-1	Bonded Insulation	16

The following notes apply to the systems outlined herein:

1 The performance data contained herein pertains to substrate interfaces bonded with Millennium Roofing Adhesives. If a roof system's Florida Product Approval documentation does not specifically include Millennium Roofing Adhesives with a particular interface, the data noted herein is used to compare with the maximum design pressure of the roof assembly's interface with the top insulation layer. The lesser of the two applies.

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

2A Lightweight Insulating Concrete (LWC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWC is referenced, refer to current LWC Product Approval for specific deck construction and limitations. For LWC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1.

2B For "pre-existent" LWIC references, listings were established through testing over lightweight concrete cast using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Use of these listings in new construction or re-roof (tear-off) applications is at the discretion of the Designer of Record and Authority Having Jurisdiction.
As a field QA measure of the pre-existent cellular lightweight concrete:
- Compressive strength testing shall be conducted in accordance with **ASTM C513** and shall yield an average result as per the system listing.
- Field withdrawal resistance testing in accordance with **Note 11** shall yield an average result as per the system listing.
- If question exists as to wind uplift performance of the pre-existent cellular lightweight concrete, or adhesion to the LWC surface, field uplift testing in accordance with **Note 4** is recommended.

All testing shall be performed by an accredited testing agency acceptable to the Authority Having Jurisdiction

3 Unless otherwise noted, data pertains to Millennium Roofing Adhesives applied as follows. Ribbon size is at the time of application; ribbons will expand as outlined in the manufacturer's published installation instructions as insulation boards are put in place.

INSULATION ADHESIVE REFERENCES			
BY	ADHESIVE	REFERENCE	MINIMUM RATE
H.B. Fuller	Millennium One Step Foamable Adhesive or Millennium One Step Green Foamable Adhesive	M-OSFA	Continuous ¼ to ½ inch ribbons spaced max. 12" o.c.
	Millennium PG-1 Pump Grade Adhesive or Millennium PG-1 SAF Pump Grade Adhesive	M-PG1	Continuous ½ to ¾ inch ribbons spaced max. 12" o.c.
	Millennium PG-1 EF ECO or Millennium PG-1 EF ECO2	M-PG1-EF-ECO2	Continuous 1 to 1.5 inch ribbons spaced max. 12" o.c.

3A Unless otherwise noted, all insulations are flat-stock or taper board of the minimum thickness noted.

3B For adhered roof insulation and board-size: Unless otherwise noted, refer to Section 2.2.10.6.2 of FM Loss Prevention Data Sheet 1-29.

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4 For existing substrates in recover or re-roof installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance shall be conducted on mock-ups of the proposed new roof assembly.

4A For bonded insulation or membrane over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented through field uplift testing. Field uplift testing shall be in accordance with ASTM E907, FM Loss Prevention Data Sheet 1-52 or Testing Application Standard TAS 124.

4B Reference to "*Existing gravel-surfaced asphaltic built-up roof, brushed / spudded and vacuumed to remove loose gravel*" in Table 6A is intended to convey an as-tested condition whereby any loose-gravel that does not remain embedded in the asphalt flood coat after brushing and/or spudding be removed. The gravel that remains embedded in the asphalt flood coat remains.

5 "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609 for determination of design wind loads.

5A For partially bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with FBC Chapter 16. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD1, FM Loss Prevention Data Sheet 1-29, Roofing Application Standard RAS 117 and Roofing Application Standard RAS 137. Assemblies marked with an asterisk* carry the limitations set forth in Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 for Zone 2/3 enhancements.

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TABLE 1A: STEEL DECK SYSTEM TYPE A-1: BONDED INSULATION					
SUB-ASSEMBLY NUMBER	SUBSTRATE (NOTE 2 & NOTE 4)	INSULATION, BASE LAYER(S)	INSULATION, TOP LAYER	ATTACH (NOTE 3)	MDP (PSF)
S-1.	Min. 22 ga., type B, Grade 40 steel	One or more layers, min. 1-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas Roofing "ACFoam II" or "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "Ultra-Max"	(Optional) Min. 0.25-inch G-P Gypsum "DensDeck Roof Board", "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board" or USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 7/16-inch APA Rated OSB or National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD", Johns Manville "ProtectoR HD" or USG "SECUROCK Cement Roof Board" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA, M-PG1 or M-PG1-EF-ECO2	-52.5

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TABLE 1B: STEEL DECK SYSTEM TYPE A-2: BONDED THERMAL BARRIER, BONDED INSULATION						
SUB-ASSEMBLY NUMBER	SUBSTRATE (NOTE 2 & NOTE 4)	THERMAL BARRIER	INSULATION, BASE LAYER(S)	INSULATION, TOP LAYER	ATTACH (NOTE 3)	MDP (PSF)
S-2.	Min. 22 ga., type B, Grade 40 steel	Min. 0.5-inch G-P Gypsum "DensDeck Roof Board", "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board" or USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board"	One or more layers, min. 1-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas Roofing "ACFoam II" or "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "Ultra-Max"	(Optional) Min. 0.25-inch G-P Gypsum "DensDeck Roof Board", "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board" or USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 7/16-inch APA Rated OSB or National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD", Johns Manville "ProtectoR HD" or USG "SECUROCK Cement Roof Board" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA, M-PG1 or M-PG1-EF-ECO2	-52.5
S-3.	Min. 22 ga., type B, Grade 40 steel	Min. 0.5-inch G-P Gypsum "DensDeck Roof Board", "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board" or USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board"	One or more layers, min. 1-inch "Insulfoam XV", Dupont "Styrofoam Brand Roofmate" or "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board", "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board" or USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 7/16-inch APA Rated OSB or National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD", Johns Manville "ProtectoR HD" or USG "SECUROCK Cement Roof Board" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA, M-PG1 or M-PG1-EF-ECO2	-52.5

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TABLE 2A: STRUCTURAL CONCRETE DECK SYSTEM TYPE A-1: BONDED INSULATION					
SUB-ASSEMBLY NUMBER	SUBSTRATE (NOTE 2 & NOTE 4)	INSULATION, BASE LAYER(S)	INSULATION, TOP LAYER	ATTACH (NOTE 3)	MDP (PSF)
C-1.	Structural concrete deck	(Optional) One or more layers, Min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "UltraMax" or Min. 1-inch "Insulfoam XV", Dupont "Styrofoam Brand Roofmate" or "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.5-inch thick Blue Ridge "Structodek High Density Fiberboard Roof Insulation"	M-OSFA, M-PG1 or M-PG1-EF-ECO2	-165.0
C-2.	Structural concrete deck	(Optional, when top layer installed) One layer, min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG", Rmax LTD "Multi-Max FA3" or "UltraMax"	(Optional, when based layer installed) Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board" or USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch USG "SECUROCK Cement Roof Board", Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA, M-PG1 or M-PG1-EF-ECO2	-210.0
C-3.	Structural concrete deck	Two or more layers, min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "UltraMax"	None	M-OSFA, M-PG1 or M-PG1-EF-ECO2	-360.0
C-4.	Structural concrete deck	(Optional) One or more layers, min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "UltraMax" or Min. 1-inch "Insulfoam XV", Dupont "Styrofoam Brand Roofmate" or "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board" or USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch USG "SECUROCK Cement Roof Board", Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA, M-PG1 or M-PG1-EF-ECO2	-360.0

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TABLE 2A: STRUCTURAL CONCRETE DECK SYSTEM TYPE A-1: BONDED INSULATION					
SUB-ASSEMBLY NUMBER	SUBSTRATE (NOTE 2 & NOTE 4)	INSULATION, BASE LAYER(S)	INSULATION, TOP LAYER	ATTACH (NOTE 3)	MDP (PSF)
C-5.	Structural concrete deck	(Optional) One or more layers, min. 1.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II" or "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "UltraMax"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-PG1-EF-ECO2	-375.0
C-6.	Structural concrete deck	One or more layers, min. 1.5-inch "Insulfoam XV", Dupont "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-PG1-EF-ECO2	-375.0

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TABLE 3A: DECK WITH LIGHTWEIGHT CONCRETE SYSTEM TYPE A-1: BONDED INSULATION						
SUB-ASSEMBLY NUMBER	SUBSTRATE (NOTE 2 & NOTE 4)		INSULATION, BASE LAYER(S)	INSULATION, TOP LAYER	ATTACH (NOTE 3)	MDP (PSF)
	DECK	LWC				
CELCORE (FBC FPA FL2037):						
LWC-1.	Structural concrete	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound	(Optional, when top layer installed) One or more layers, min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG", Rmax LTD "Multi-Max FA3" or "UltraMax",	(Optional, when base layer installed) Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA	-90.0
LWC-2.	Structural concrete	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound	One or more layers, min. 1-inch "Insulfoam XV", Dupont "Styrofoam Brand Roofmate" or "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA	-90.0
LWC-3.	Structural concrete	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound	(Optional, when top layer installed) One or more layers, min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG", Rmax LTD "Multi-Max FA3" or "UltraMax"	(Optional, when base layer installed) Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-PG1	-210.0

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TABLE 3A: DECK WITH LIGHTWEIGHT CONCRETE SYSTEM TYPE A-1: BONDED INSULATION						
SUB-ASSEMBLY NUMBER	SUBSTRATE (NOTE 2 & NOTE 4)		INSULATION, BASE LAYER(S)	INSULATION, TOP LAYER	ATTACH (NOTE 3)	MDP (PSF)
	DECK	LWC				
LWC-4.	Structural concrete	Min. 390 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound	(Optional, when top layer installed) One layer, min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG", Rmax LTD "Multi-Max FA3" or "UltraMax"	(Optional, when based layer installed) Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA, M-PG1 or M-PG1-EF-ECO2	-210.0
LWC-5.	Structural concrete	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound	Two or more layers, min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "UltraMax"	None	M-PG1	-240.0
LWC-6.	Structural concrete	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound	(Optional) One or more layers, Min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "UltraMax" or Min. 1-inch "Insulfoam XV", Dupont "Styrofoam Brand Roofmate" or "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-PG1	-240.0
LWC-7.	Structural concrete	Min. 390 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound	Two or more layers, min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "UltraMax"	None	M-OSFA, M-PG1 or M-PG1-EF-ECO2	-360.0

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TABLE 3A: DECK WITH LIGHTWEIGHT CONCRETE SYSTEM TYPE A-1: BONDED INSULATION						
SUB-ASSEMBLY NUMBER	SUBSTRATE (NOTE 2 & NOTE 4)		INSULATION, BASE LAYER(S)	INSULATION, TOP LAYER	ATTACH (NOTE 3)	MDP (PSF)
	DECK	LWC				
LWC-8.	Structural concrete	Min. 390 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound	(Optional) One or more layers, Min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "UltraMax" or Min. 1-inch "Insulfoam XV", Dupont "Styrofoam Brand Roofmate" or "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA, M-PG1 or M-PG1-EF-ECO2	-360.0
LWC-9.	Structural concrete	Min. 390 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound	(Optional) One or more layers, min. 1.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II" or "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "UltraMax"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-PG1-EF-ECO2	-375.0
LWC-10.	Structural concrete	Min. 390 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound	One or more layers, min. 1.5-inch "Insulfoam XV", Dupont "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-PG1-EF-ECO2	-375.0

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TABLE 3A: DECK WITH LIGHTWEIGHT CONCRETE SYSTEM TYPE A-1: BONDED INSULATION						
SUB-ASSEMBLY NUMBER	SUBSTRATE (NOTE 2 & NOTE 4)		INSULATION, BASE LAYER(S)	INSULATION, TOP LAYER	ATTACH (NOTE 3)	MDP (PSF)
	DECK	LWC				
LWC-11.	Structural concrete	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound Surfaced with Celcore Sanded Bonding Surface (SBS)	One or more layers, min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "UltraMax"	(Optional) Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA	-217.5
LWC-12.	Structural concrete	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound Surfaced with Celcore Sanded Bonding Surface (SBS)	(Optional) One or more layers, min. 1-inch "Insulfoam XV", Dupont "Styrofoam Brand Roofmate" or "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA	-217.5
LWC-13.	Structural concrete	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound Surfaced with Celcore Sanded Bonding Surface (SBS)	One or more layers, min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "UltraMax"	(Optional) Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-PG1	-232.5

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TABLE 3A: DECK WITH LIGHTWEIGHT CONCRETE SYSTEM TYPE A-1: BONDED INSULATION						
SUB-ASSEMBLY NUMBER	SUBSTRATE (NOTE 2 & NOTE 4)		INSULATION, BASE LAYER(S)	INSULATION, TOP LAYER	ATTACH (NOTE 3)	MDP (PSF)
	DECK	LWC				
LWC-14.	Structural concrete	Min. 300 psi, min. 2-inch thick Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture; treated with Celcore PVA Curing Compound Surfaced with Celcore Sanded Bonding Surface (SBS)	(Optional) One or more layers, min. 1-inch "Insulfoam XV", Dupont "Styrofoam Brand Roofmate" or "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-PG1	-232.5
PRE-EXISTENT LIGHTWEIGHT CONCRETE (NOTE 2B):						
LWC-15.	Min. 22 ga., Type BV, Grade 40 steel; 6 ft spans	Pre-existent, min. 2-inch thick cellular lightweight concrete Compressive: 410 psi Withdrawal: Trufast FM-90 Base Sheet Fastener: 132 lbf	(Optional, if top layer installed) One or more layers, min. 1.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas Roofing "ACFoam II" or "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "Ultra-Max"	(Optional, if base layer installed) Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA, M-PG1 or M-PG1-EF-ECO2	-67.5
LWC-16.	Min. 22 ga., Type BV, Grade 40 steel; 6 ft spans	Pre-existent, min. 2-inch thick cellular lightweight concrete Compressive: 410 psi Withdrawal: Trufast FM-90 Base Sheet Fastener: 132 lbf	One or more layers, min. 1.5-inch "Insulfoam XV", Dupont "Styrofoam Brand Roofmate" or "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA, M-PG1 or M-PG1-EF-ECO2	-67.5

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TABLE 4A: CEMENTITIOUS WOOD FIBER DECK SYSTEM TYPE A-1: BONDED INSULATION					
SUB-ASSEMBLY NUMBER	SUBSTRATE (NOTE 2 & NOTE 4)	INSULATION, BASE LAYER(S)	INSULATION, TOP LAYER	ATTACH (NOTE 3)	MDP (PSF)
CWF-1.	Tectum	One or more layers, min. 1.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas Roofing "ACFoam II" or "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "Ultra-Max"	(Optional) Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA or M-PG1	-90.0
CWF-2.	Tectum	One or more layers, min. 1.5-inch "Insulfoam XV", Dupont "Styrofoam Brand Roofmate" or "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA or M-PG1	-90.0

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TABLE 4B CEMENTITIOUS WOOD FIBER DECK SYSTEM TYPE A-2: BONDED THERMAL BARRIER, BONDED INSULATION						
SUB-ASSEMBLY NUMBER	SUBSTRATE (NOTE 2 & NOTE 4)	THERMAL BARRIER	INSULATION, BASE LAYER(S)	INSULATION, TOP LAYER	ATTACH (NOTE 3)	MDP (PSF)
CWF-3.	Tectum	Min. 0.5-inch G-P Gypsum "DensDeck Roof Board", "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board" or USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board"	One or more layers, min. 1.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas Roofing "ACFoam II" or "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "Ultra-Max"	(Optional) Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA or M-PG1	-90.0
CWF-4.	Min. 22 ga., type B, Grade 40 steel	Min. 0.5-inch G-P Gypsum "DensDeck Roof Board", "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board" or USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board"	One or more layers, min. 1.5-inch "Insulfoam XV", Dupont "Styrofoam Brand Roofmate" or "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA or M-PG1	-90.0

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TABLE 5A: EXISTING GYPSUM DECK SYSTEM TYPE A-1: BONDED INSULATION					
SUB-ASSEMBLY NUMBER	SUBSTRATE (NOTE 2 & NOTE 4)	INSULATION, BASE LAYER(S)	INSULATION, TOP LAYER	ATTACH (NOTE 3)	MDP (PSF)
G-1.	Existing gypsum deck	(Optional, if top layer installed) One or more layers, min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG", Rmax LTD "Multi-Max FA3" or "UltraMax",	(Optional, if base layer installed) Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA	-150.0
G-2.	Existing gypsum deck	One or more layers, min. 1-inch "Insulfoam XV", Dupont "Styrofoam Brand Roofmate" or "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA	-150.0
G-3.	Existing gypsum deck	(Optional) One or more layers, Min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG", Rmax LTD "Multi-Max FA3" or "UltraMax" or Min. 1-inch "Insulfoam XV", Dupont "Styrofoam Brand Roofmate" or "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.5-inch thick Blue Ridge "Structodek High Density Fiberboard Roof Insulation"	M-PG1	-165.0

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TABLE 5A: EXISTING GYPSUM DECK SYSTEM TYPE A-1: BONDED INSULATION					
SUB-ASSEMBLY NUMBER	SUBSTRATE (NOTE 2 & NOTE 4)	INSULATION, BASE LAYER(S)	INSULATION, TOP LAYER	ATTACH (NOTE 3)	MDP (PSF)
G-4.	Existing gypsum deck	(Optional, if top layer installed) One or more layers, min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG", Rmax LTD "Multi-Max FA3" or "UltraMax",	(Optional, if base layer installed) Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-PG1	-210.0
G-5.	Existing gypsum deck	One or more layers, min. 1-inch "Insulfoam XV", Dupont "Styrofoam Brand Roofmate" or "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-PG1	-210.0

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TABLE 6A: RECOVER APPLICATIONS SYSTEM TYPE A-1: BONDED INSULATION					
[A] The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (Note 2) or performance of the substrate (Note 4A). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.					
SUB-ASSEMBLY NUMBER	**SUBSTRATE (NOTE 2 & NOTE 4A)**	**INSULATION, BASE LAYER(S)**	**INSULATION, TOP LAYER**	**ATTACH (NOTE 3)**	**MDP (PSF)[A]**
R-1.	Existing gravel-surfaced asphaltic built-up roof, brushed / spudded and vacuumed to remove loose gravel	(Optional, if top layer installed) One or more layers, min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG", Rmax LTD "Multi-Max FA3" or "UltraMax",	(Optional, if base layer installed) Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA or M-PG1	-60.0
R-2.	Existing gravel-surfaced asphaltic built-up roof, brushed / spudded and vacuumed to remove loose gravel	One or more layers, min. 1-inch "Insulfoam XV", Dupont "Styrofoam Brand Roofmate" or "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA or M-PG1	-60.0

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TABLE 6A: RECOVER APPLICATIONS SYSTEM TYPE A-1: BONDED INSULATION					
[A] The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (Note 2) or performance of the substrate (Note 4A). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.					
SUB-ASSEMBLY NUMBER	**SUBSTRATE (NOTE 2 & NOTE 4A)**	**INSULATION, BASE LAYER(S)**	**INSULATION, TOP LAYER**	**ATTACH (NOTE 3)**	**MDP (PSF)[A]**
R-3.	Existing insulation*: Atlas Roofing "ACFoam II" or "ACFoam III", GAF "EnergyGuard Polyiso Insulation", Johns Manville "ENRGY 3", Hunter Panels "H-Shield", Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG" or Rmax LTD "Multi-Max FA3" or "Ultra-Max", adhered to the satisfaction of the Authority Having Jurisdiction. *Partial tear off to remove existing top facer, exposing foam-core.*	(Optional, if top layer installed) One or more layers, min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG", Rmax LTD "Multi-Max FA3" or "UltraMax",	(Optional, if base layer installed) Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA or M-PG1	-60.0
*Note:	*If the type / brand of the pre-existent polyisocyanurate insulation is unknown, the performance of its bond-interface with the existing roof, and that of the bond-interface with the newly installed insulation, shall be documented through field uplift testing in accordance with ANSI/SPRI IA-1, ASTM E907, FM Loss Prevention Data Sheet 1-52 or Testing Application Standard TAS 124 to the satisfaction of the Authority Having Jurisdiction.*				
R-4.	New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) One or more layers, Min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG", Rmax LTD "Multi-Max FA3" or "UltraMax" or Min. 1-inch "Insulfoam XV", Dupont "Styrofoam Brand Roofmate" or "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.5-inch thick Blue Ridge "Structodek High Density Fiberboard Roof Insulation"	M-OSFA, M-PG1 or M-PG1-EF-ECO2	-165.0

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TABLE 6A: RECOVER APPLICATIONS SYSTEM TYPE A-1: BONDED INSULATION					
[A] The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (Note 2) or performance of the substrate (Note 4A). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.					
SUB-ASSEMBLY NUMBER	**SUBSTRATE (NOTE 2 & NOTE 4A)**	**INSULATION, BASE LAYER(S)**	**INSULATION, TOP LAYER**	**ATTACH (NOTE 3)**	**MDP (PSF)[A]**
R-5.	New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional, when top layer installed) One layer, min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG", Rmax LTD "Multi-Max FA3" or "UltraMax"	(Optional, when based layer installed) Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA, M-PG1 or M-PG1-EF-ECO2	-210.0
R-6.	New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	Two or more layers, min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "UltraMax"	None	M-OSFA, M-PG1 or M-PG1-EF-ECO2	-360.0
R-7.	New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	(Optional) One or more layers, Min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "UltraMax" or Min. 1-inch "Insulfoam XV", Dupont "Styrofoam Brand Roofmate" or "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA, M-PG1 or M-PG1-EF-ECO2	-360.0

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TABLE 6A: RECOVER APPLICATIONS SYSTEM TYPE A-1: BONDED INSULATION					
[A] The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (Note 2) or performance of the substrate (Note 4A). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.					
SUB-ASSEMBLY NUMBER	**SUBSTRATE (NOTE 2 & NOTE 4A)**	**INSULATION, BASE LAYER(S)**	**INSULATION, TOP LAYER**	**ATTACH (NOTE 3)**	**MDP (PSF)[A]**
R-8.	New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	One or more layers, Min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "UltraMax" or Min. 1-inch "Insulfoam XV", Dupont "Styrofoam Brand Roofmate" or "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-PG1-EF-ECO2	-375.0
R-9.	New or existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	Two or more layers, Min. 0.5-inch Amrize "Elevate ISOGARD GL" or "Elevate ISOGARD CG", Atlas "ACFoam II", "ACFoam III", GAF "EnergyGuard Polyiso Insulation" or "EnergyGuard Ultra", Johns Manville "ENRGY 3", Hunter Panels "H-Shield" or "H-Shield CG" or Rmax LTD "Multi-Max FA3" or "UltraMax" or Min. 1-inch "Insulfoam XV", Dupont "Styrofoam Brand Roofmate" or "Styrofoam Brand Highload 60" or Kingspan "GreenGuard GG25-LG", "GreenGuard GG40-LG" or "GreenGuard GG60-LG"	Min. 0.25-inch G-P Gypsum "DensDeck Roof Board" or "DensDeck Prime Roof Board", National Gypsum "DEXcell FA Glass Mat Roof Board", USG "SECUROCK Gypsum-Fiber Roof Board" or "SECUROCK Ultralight Coated Glass-Mat Roof Board", Min. 0.4375-inch National Gypsum "DEXcell Cement Roof Board", Min. 0.5-inch Amrize "Elevate ISOGARD HD", Atlas "ACFoam-HD CoverBoard", GAF "EnergyGuard HD Polyiso Cover Board" or "EnergyGuard HD Plus Polyiso Cover Board", Hunter Panels "H-Shield HD" or Johns Manville "ProtectoR HD" or Min. 0.625-inch G-P Gypsum "DensDeck StormX Prime Roof Board"	M-OSFA or M-PG1	-495.0

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