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)

IKO INDUSTRIES LTD
40 Hansen Road S
Brampton, ON L6W 3H4 Canada
(416) 529-3606

PEER-IKO-001.B
FL40565-R4 (HVHZ)
Date of Issuance: 12/01/2025

SCOPE:
This P.E. Evaluation Report (henceforth 'PEER') is issued under **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 **8th Edition (2023) Florida Building Code Building Code, High Velocity Hurricane Zone (HVHZ)** sections noted herein.

DESCRIPTION: IKO Innovi TPO Roof Systems (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 or production facility location(s) 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.

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

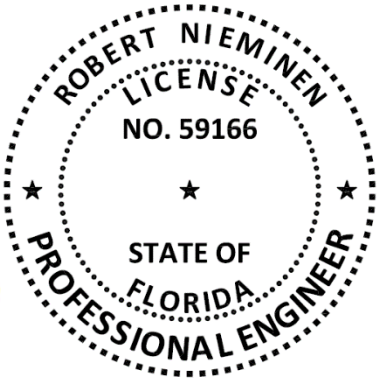
INSPECTION: Upon request, a copy of this entire PEER shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This PEER consists of pages 1 through 4, plus 17-pages of Appendix.

Prepared by:

Digitally signed by Robert Nieminen
Date: 2025.12.01 '11:17:19 -05'00

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.

ROOFING SYSTEMS EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Single Ply Roof Systems
Product Approval Method: Method 1, Option D: Codified Material, Evaluation by Engineer
Compliance Statement: **IKO Innovi TPO Roof Systems**, as produced by **IKO INDUSTRIES LTD**, have demonstrated compliance with the following sections of the **8th Edition (2023) Florida Building Code, High Velocity Hurricane Zone (HVHZ)** through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations of Use set forth herein.

2. STANDARDS:

SECTION	PROPERTY	STANDARD
TAS 110	Resistance to Foot Traffic	TAS 114, Section 8.9
TAS 110	Wind resistance	TAS 114, Appendix C, D or J
TAS 110	Susceptibility to Hail Damage	TAS 114, Appendix F
TAS 110	Susceptibility to Leakage	TAS 114, Appendix G
TAS 110	Material standard	ASTM D6878

3. REFERENCES:

ENTITY	EXAMINATION	REFERENCE	DATE
NEMO (TST6049)	Physical properties	4q-IKO-21-SSMBB-01.A	12/10/2021
NEMO (TST6049)	ASTM D6878 / G155	4r-IKO-21-SSTHP-01.A	01/18/2022
FM (TST1867)	FM 4470/4474	3055491	12/05/2016
FM (TST1867)	FM 4470/4474	3061328	04/30/2020
FM (TST1867)	FM 4470/4474	PR454078	04/29/2021
FM (TST1867)	FM 4474	PR456625	07/12/2021
FM (TST1867)	FM 4474	PR460994	04/28/2023
FM (TST1867)	FM 4474	PR459544	12/14/2023
NEMO (TST11294)	TAS 114	2a-IKO-20-LSWUS-01.A	06/02/2021
NEMO (TST11294)	TAS 114	2a-IKO-21-LSWUS-01.A-R1	07/27/2022
NEMO (TST6049)	TAS 114	4L-RAS-18-002.1.A	05/28/2019
NEMO (TST6049)	Criticality	4i-IKO-20-SSCRT-01.A	02/24/2021
NEMO (TST6049)	TAS 114	SFS-SC10010.12.20-R1	06/21/2021
NEMO (TST6049)	TAS 114	4a-IKO-23-LSWUS-01.A.R1	01/12/2024
NEMO (TST6049)	TAS 114	4a-HBF-LSWUS-001.A	06/06/2024
PRI (TST5878)	TAS 114	2111T0009	05/03/2021
NEMO	Traceability	DRA-AB	09/27/2021
NEMO	Traceability	FBC-PCL-ATL	02/26/2024
NEMO	Traceability	FBC-PCL-AB	02/27/2024
NEMO	Traceability	DRA-HBF	09/04/2025
NEMO	Traceability	DRA-AB	10/09/2025
NEMO	Traceability	FBC-PCL-AB	10/09/2025
UL LLC (QUA 9625)	Traceability	ML R16377/R20739	01/14/2021
FM (QUA1840)	Traceability	PR459818	06/08/2021
FM (QUA1860)	Quality Assurance	Inspection Report	02/22/2023
FM (QUA1860)	Quality Assurance	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

This PEER covers **IKO Innovi TPO Roof Systems** installed in accordance with **IKO INDUSTRIES LTD** published installation instructions and the Limitations of Use herein.

TABLE 1: EVALUATED MEMBRANES

Type	Product		Material Standard	Plant(s)
Roof Cover	IKO Innovi TPO	45, 60, 80-mil	ASTM D6878	Hagerstown, MD
Vapor Barrier	IKO MVP or MVP Sand		N/A	Brampton, ON

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 exclusively for use in High Velocity Hurricane Zone jurisdictions, as defined in FBC Chapter 2 (Broward and Miami-Dade Counties).

5.3 The evaluation herein pertains to above-deck roof components; deck-attachment details pertain to 'as-tested' conditions under **Testing Application Standard TAS 114, Appendix J**. Roof decks shall be in accordance with **FBC HVHZ** requirements to the satisfaction of the Authority Having Jurisdiction.

5.4 This PEER does not include evaluation of fire classification. Refer to **FBC HVHZ 1516** 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 **Roofing Application Standard RAS 111** for requirements and limitations regarding edge securement for low-slope roofs.

5.6 Refer to **FBC HVHZ 1521** for requirements and limitations regarding recover installations.

5.6.1 For mechanically attached components over existing roof decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing shall be in accordance with **Testing Application Standard TAS 105**.

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 **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 **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 **Testing Application Standard TAS 114** has already been applied). Refer to **FBC HVHZ 1620** and **Roofing Application Standard RAS 128** for determination of design wind loads.

5.7.2 For mechanically attached components, 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 HVHZ 1620 or Roofing Application Standard RAS 128**. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Analysis shall be in accordance with the Roofing Application Standard **RAS 117** or **RAS 137**. ***This extrapolation is not permitted for systems marked with an asterisk*.**

5.7.3 For tables and/or assemblies marked with an asterisk*, the maximum design pressure (MDP) limitation shall be applicable to all roof pressure zones. No rational analysis is permitted for these systems.

5.8 All components in the roof assembly shall have quality assurance audit in accordance with **F.A.C. Rule 61G20-3**. 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.

6. INSTALLATION:

IKO Innovi TPO Roof Systems shall be installed in accordance with **IKO INDUSTRIES LTD** published installation instructions, subject to the Limitations of Use noted herein.

7. BUILDING PERMIT REQUIREMENTS:

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

8. MANUFACTURING PLANTS:

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 material standards.

9. QUALITY ASSURANCE ENTITY:

FM Approvals, QUA1860, (781) 255-4725, Joanna.Blaney@fmglobal.com

- THE 17-PAGES THAT FOLLOW FORM PART OF THIS PEER -

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
1A	Wood	New, Reroof (Tear-Off), Recover	C-2	Induction-Welded Roof Cover	7
1B	Wood	New, Reroof (Tear-Off), Recover	D-1	Insulated, Mechanically Attached Roof Cover	7
2A	Steel	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	8
2B	Steel	New, Reroof (Tear-Off) or Recover	B-1	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	8
2C	Steel	New or Reroof (Tear-Off)	B-2	Mechanically Attached Thermal Barrier, Bonded Vapor Barrier, Bonded Insulation, Bonded Roof Cover	9
2D	Steel	New, Reroof (Tear-Off) or Recover	C-1	Mechanically Attached Insulation, Bonded Roof Cover	11
2E	Steel	New, Reroof (Tear-Off) or Recover	C-2	Induction-Welded Roof Cover	11
2F	Steel	New, Reroof (Tear-Off) or Recover	D-1	Insulated, Mechanically Attached Roof Cover	13
3A	Structural concrete	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	14
4A	Deck with Lightweight concrete	New, Reroof (Tear-Off)	A-1	LWC to Deck, Bonded Insulation, Bonded Roof Cover	15
5A	Cementitious wood fiber	New, Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	16
6A	Existing gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	16
7A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	17

The following notes apply to the systems outlined herein:

1 The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC HVHZ requirements to the satisfaction of the Authority Having Jurisdiction. Deck-attachment details pertain 'as-tested' conditions under Testing Application Standard TAS 114, Appendix J.

2 Unless otherwise noted, fasteners and stress plates shall be as follows. Fasteners shall be of sufficient length for the following engagements:

FASTENER/PLATE OPTIONS			
DECK TYPE	BY	PARTS	MINIMUM ENGAGEMENT
Wood	IKO	InnoviFast Insulation Fastener, InnoviFast All Purpose (AP) Fastener (#14) or InnoviFast Heavy Duty (HD) Fastener (#15) with InnoviFast Insulation Plate	Minimum ¾-inch plywood penetration or minimum 1-inch wood plank embedment
	Altenloh, Brink & Co U.S., Inc.	Trufast #12 DP, Trufast #14 HD or Trufast #15 EHD Fastener with Trufast 3" Metal Insulation Plate	
	OMG, Inc.	OMG #12 Standard Roogrip, OMG #14 HD Fastener or OMG XHD Fastener with OMG 3-in. Galvalume Steel Plate (Flat)	
	SFS Group USA, Inc.	Dekfast DF-#12-PH3, Dekfast DF-#14-PH3 or Dekfast DF-#15-PH3 with Dekfast PLT-R-3	
Steel	IKO	InnoviFast All Purpose (AP) Fastener (#14) or InnoviFast Heavy Duty (HD) Fastener (#15) with InnoviFast Insulation Plate	Minimum ¾-inch steel penetration and engage the top flute of the steel deck
	Altenloh, Brink & Co U.S., Inc.	Trufast #14 HD or Trufast #15 EHD Fastener with Trufast 3" Metal Insulation Plate	
	OMG, Inc.	OMG #14 HD Fastener or OMG XHD Fastener with OMG 3-in. Galvalume Steel Plate (Flat)	
	SFS Group USA, Inc.	Dekfast DF-#14-PH3 or Dekfast DF-#15-PH3 with Dekfast PLT-R-3	

3 Unless otherwise noted, insulation may be any one layer or combination of FBC Approved (Local or Statewide) board(s) that meet FBC HVHZ 1516 and, for foam plastic, FBC Chapter 26, when installed with the roof cover.

4 Minimum 200 psi, minimum 2-inch thick FBC HVHZ Approved lightweight insulating concrete may be substituted for, or installed below, rigid insulation board for System Types B-1, C-1, C-2, D-1 or D-2, whereby fasteners are installed through the lightweight insulating concrete to engage the structural deck. The structural deck shall be of equal or greater type, thickness and strength to the steel and structural concrete deck listings. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. This is a wind uplift resistance allowance and does not purport to address non-wind-uplift-related issues, such as deck venting or moisture levels within the LWIC and the potential effect on overlying components. If mechanical attachment to the structural deck through lightweight insulating concrete is proposed, field withdrawal resistance testing shall be performed to confirm equivalent or determine enhanced fastening patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117 and/or RAS 137. Calculations shall be prepared, signed and sealed by a qualified design professional.

5 Preliminary insulation attachment: Unless otherwise noted, use FBC HVHZ Approved roofing fasteners and plates; minimum four per 4 x 8 ft board or minimum two per 4 x 4 ft board.

6 Unless otherwise noted, insulation adhesive application rates are as follows.

- ✓ Ribbon or bead width is at the time of application; the ribbons/beads shall expand as noted in the manufacturer's published instructions.
- ✓ If applying hot asphalt to concrete deck, deck shall be primed with ASTM D41 primer.
- ✓ When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, board joints shall be staggered.
- ✓ The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing.

INSULATION ADHESIVE REFERENCES				
BY	ADHESIVE	REFERENCE	FBC FILE OR NOA	MINIMUM RATE
IKO	IKO Millennium Adhesive	IKO-MA	N/A	Continuous, max. 12-inch o.c.
IKO	InnoviBond DUO Dual-Tank Adhesive	IKO-DTA	N/A	Continuous, max. 12-inch o.c.

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

8 Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.

9 For mechanically attached components, 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 HVHZ 1620 or Roofing Application Standard RAS 128. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure in accordance with Roofing Application Standard RAS 117 and RAS 137. *This extrapolation is not permitted for systems marked with an asterisk*

10 For assemblies marked with an asterisk*, 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.

11 For mechanically attached components over existing decks, fasteners shall be tested in the existing deck for withdrawal resistance in accordance with Testing Application Standard TAS 105. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Should the fastener resistance be less than that required, a revised fastener spacing – prepared, signed and sealed by a qualified design professional in accordance with Roofing Application Standard RAS 117 or RAS 137 – may be submitted to the Building Official for review and acceptance.

12 Refer to FBC HVHZ 1521 for requirements and limitations regarding recover installations. 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 shall be conducted on mock-ups of the proposed new roof assembly. 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 Testing Application Standard TAS 124.

12A Reference to "*Existing gravel-surfaced asphaltic built-up roof, brushed / spudded and vacuumed to remove loose gravel*" in Table 7A 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.

13 For Structural Concrete Deck or Recover Applications using System Type C-1 the base insulation layer is optional and for System Type C-2, D-1 or D-2, the insulation is optional. Alternatively, an FBC HVHZ Approved insulation board or coverboard may be used as a separation layer. Board products shall be preliminarily attached prior to roof cover installation (Note 5). The separator component shall be documented as meeting FBC HVHZ 1516 and, for foam plastic, FBC Chapter 26, when installed with the roof cover in Recover applications.

14 Lightweight insulating concrete (LWIC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWIC is referenced, refer to current LWIC FBC HVHZ Product Approval for specific deck construction and limitations. Unless otherwise noted, for systems where specific LWIC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWIC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1. For "pre-existent" LWIC references, listings were established through testing over lightweight concrete cast using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Use of these listings in new construction or re-roof (tear-off) applications is at the discretion of the Designer or Record and Authority Having Jurisdiction.

15 For bonded membrane applications, unless otherwise noted, refer to the following.

Membrane / Adhesive Combinations				
Reference	Membrane	Adhesive	Application	Rate
BB-IBMA	IKO Innovi TPO	InnoviBond Membrane Adhesive	Contact (both sides)	0.83 to 1.0 gal/square per surface
BB-IBMA-LVOC	IKO Innovi TPO	InnoviBond Membrane Adhesive LVOC	Contact (both sides)	0.83 to 1.0 gal/square per surface
BB-IBMA-SPR	IKO Innovi TPO	InnoviBond Membrane Adhesive SPR	Contact (both sides)	1,000 ft² per #45 canister

15A For single-ply membranes in System Type D-1 steel deck applications, the roof membrane shall be run with its length perpendicular to the steel deck flutes.

15B For System Type C-2 (induction welded), the roof cover shall be induction-welded to the stress plates using the proprietary induction-welding tool of the stress plate manufacturer, in accordance with the published instructions of the stress plate manufacturer. Care shall be taken to ensure that the stress-plates do not line-up with membrane seams.

16 **Thermal Barrier and/or Vapor Barrier Options:**

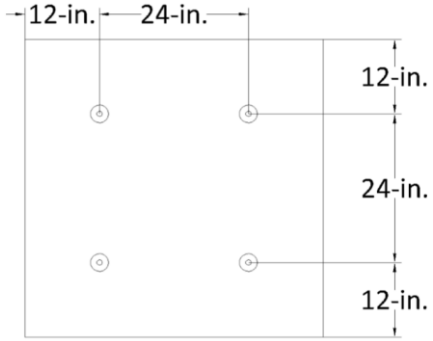
16A Structural Concrete Decks: The lesser of the MDP listings below vs. that for the selected assembly applies.

Structural Concrete Deck: Vapor Barrier Followed by Adhesive-Applied Insulation					
Option #	Primer	Vapor Barrier		Insulation Adhesive per Table 3A (Notes 6,7&8)	MDP (psf)
		Type	Application		
C-VB-1.	InnoviBond Membrane Adhesive SPR	IKO MVP or MVP Sand	Self-adhering	IKO-MA, 12-inch o.c.	-252.5
C-VB-2.	InnoviBond Membrane Adhesive SPR	IKO MVP or MVP Sand	Self-adhering	IKO-MA, 6-inch o.c.	-485.5

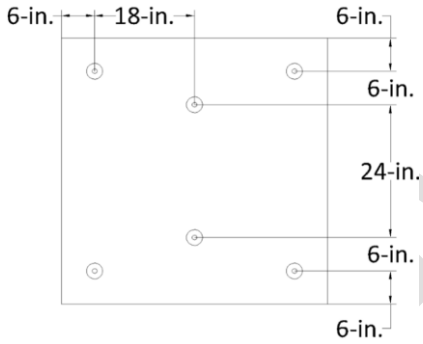
16B For System Types B-1, C-1, C-2, D-1 or Type D-2, IKO MVP or IKO MVP Sand may be installed atop the roof deck, or to an FBC HVHZ Approved, loose-laid gypsum-based thermal barrier, prior to installation of the insulation and roof cover. The substrate shall be primed in accordance with IKO INDUSTRIES LTD requirements. Refer to FM Loss Prevention Data Sheet 1-29 for design and installation limitations.

17 Unless otherwise noted, insulation or coverboard attachment patterns for Type B-1, Type B-2 and Type C-1 systems are as outlined below.

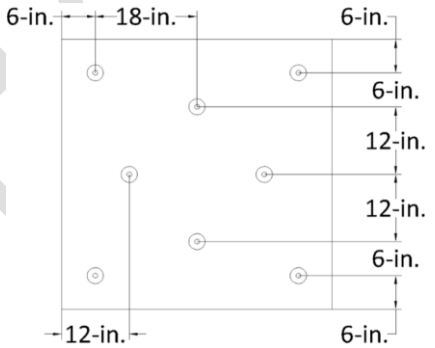
INSULATION ATTACHMENT PATTERNS – 4X4 FT BOARDS



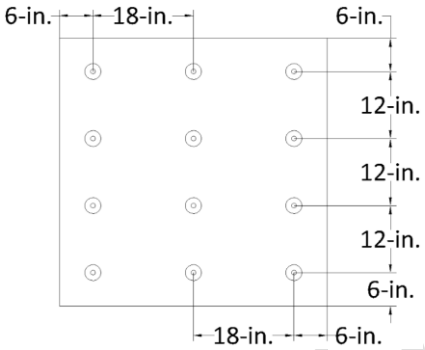
1 per 4.0 ft² (4 per board)



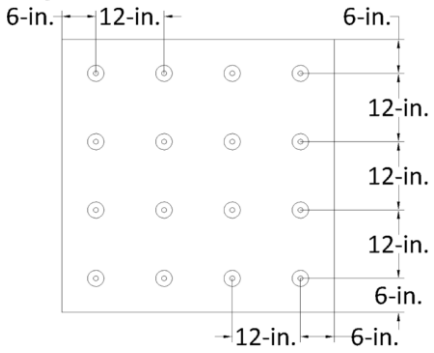
1 per 2.7 ft² (6 per board)



1 per 2.0 ft² (8 per board)

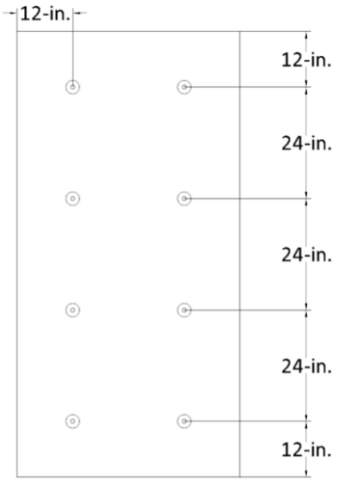


1 per 1.3 ft² (12 per board)

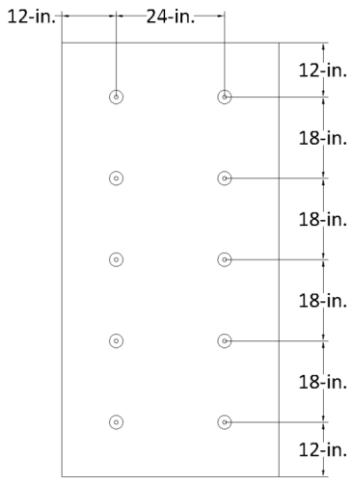


1 per 1.0 ft² (16 per board)

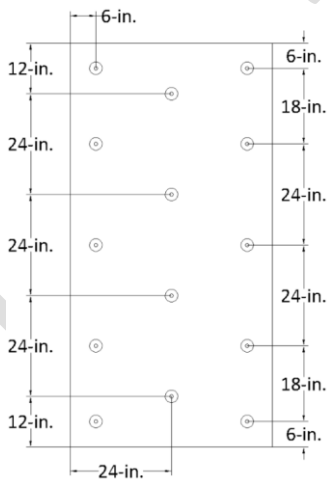
INSULATION ATTACHMENT PATTERNS – 4X8 FT BOARDS



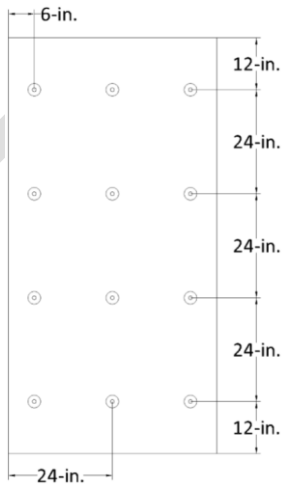
1 per 4.0 ft² (8 per board)



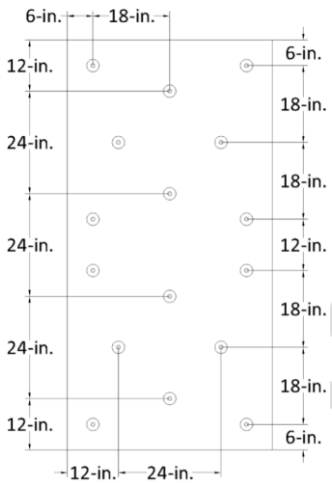
1 per 3.2 ft² (10 per board)



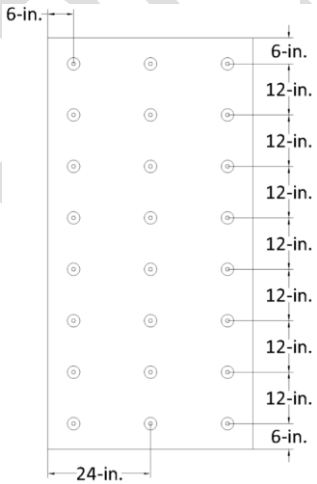
1 per 2.3 ft² (14 per board)



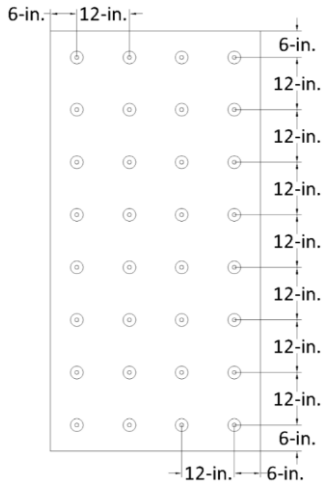
1 per 2.7 ft² (12 per board)



1 per 2.0 ft² (16 per board)



1 per 1.3 ft² (24 per board)



1 per 1.0 ft² (32 per board)

18 The following products are interchangeable within the scope of this PEER:

ACCEPTABLE ALTERNATES				
SUB-CATEGORY	LISTED PRODUCT HEREIN	ALTERNATE	BY	FBC FILE OR NOA
Roofing Fasteners	InnoviFast HD Fastener	Trufast #15 EHD Fastener	Altenloh, Brinck & Co US, Inc.	25-0129.08
	InnoviFast 2-3/8-in. HD Seam Plate	Trufast 2.4" Barbed Metal Seam Plate		
	InnoviWeld TPO Induction Plate	Trufast TPO IW Plate		
	InnoviFast Insulation Fastener	Dekfast DF-#12-PH3	SFS Group USA	FL20311 or 22-0913.02
	InnoviFast All Purpose (AP) Fastener	Dekfast DF-#14-PH3		
	InnoviFast Heavy Duty (HD) Fastener	Dekfast DF-#15-PH3		
	InnoviFast 2-3/8" HD Seam Plate	Dekfast PLT-R-2-3/8-6B		
	InnoviFast Insulation Plate	Dekfast PLT-R-3		
	InnoviWeld Induction Plate	isoweld F1-P-6.8-TPO Plate		
Roofing Insulation	IKOTherm-A, IKOTherm-A 25 psi	ACFoam II	Atlas Roofing Corp.	24-1120.02
	IKOTherm-A III, IKOTherm-A III 25 psi	ACFoam III		
	IKOTherm-A CoverShield	ACFoam HD CoverBoard		
	DensDeck Prime	DensDeck StormX Prime Roof Board	Georgia-Pacific Gypsum	22-1223.04

19 "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC (HVHZ) 1620 and Roofing Application Standard RAS 128 for determination of design wind loads. **(Notes 9 and 10)**

TABLE 1B: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C-2: PLATE-BONDED ROOF COVER						
System No.	Deck (Note 1)	Insulation Layer (Note 3, Note 13)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fastener (Note 11)	Density		
W-1.	Min. 19/32-inch CDX plywood or wood plank; 2 ft span; #8 wood screws, 6" o.c.	Insulation: One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi Coverboard: (Optional) Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	InnoviFast Heavy Duty (HD) Fastener (#15) with InnoviWeld TPO Induction Plates or InnoviFast HD Fastener with InnoviWeld TPO Induction Plate	1 per 3.2 ft^2 (10 parts per 4x8 ft board) (Note 17)	IKO Innovi TPO, min. 60-mil induction welded	-45.0

TABLE 1C: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED ROOF COVER									
System No.	Deck (Note 1)	Thermal Barrier	Vapor Barrier	Insulation Layer (Note 3, Note 13)			Roof Cover (Note 15)			MDP (psf)
				Type	Fastener	Attach	Membrane	Fastener (Note 11)	Attach	
W-2.	Min. 19/32-inch CDX plywood or wood plank; 2 ft span; #8 wood screws, 6" o.c.	Optional, Note 16B	Optional, Note 16B	One or more layers, min. 1.5-inch, any combination	Note 2	Note 5	IKO Innovi TPO	InnoviFast Heavy Duty (HD) Fastener (#15) with InnoviFast 2-3/8" HD Seam Plate, InnoviFast HD Fastener with InnoviFast 2-3/8-in. HD Seam Plate or OMG #15 Roofgrip with OMG 2-3/8 in. Round Barbed Seam Plate	6-inch o.c. within min. 6-inch side laps spaced max. 114-inch o.c. Laps sealed with 1.5-inch heat weld.	-45.0
W-3.	Min. 19/32-inch CDX plywood or wood plank; 2 ft span; #8 wood screws, 6" o.c.	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IKO MVP or MVP Sand, self-adhering	Insulation: One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi Coverboard: (Optional) Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4.0 ft^2 (Note 17)	IKO Innovi TPO	InnoviFast Heavy Duty (HD) Fastener (#15) with InnoviFast 2-3/8" HD Seam Plate, InnoviFast HD Fastener with InnoviFast 2-3/8-in. HD Seam Plate or OMG #15 Roofgrip with OMG 2-3/8 in. Round Barbed Seam Plate	6-inch o.c. within min. 6-inch side laps spaced max. 114-inch o.c. Laps sealed with 1.5-inch heat weld.	-75.0

TABLE 2A: STEEL DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER							
System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
S-1.	Min. 22 ga., Type B, Grade 40 steel; 6 ft span, #12 HWH Teks 5, 6" o.c.	One or more layer(s), min. 1-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi	IKO-MA, 12-inch o.c. (atop every-other deck flange)	(Optional) Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or IKOTherm CoverShield	IKO-MA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-52.5

TABLE 2B: STEEL DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER								
System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasteners (Note 11)	Attach (Note 17)	Type	Attach (Notes 6,7,8)		
S-2.	Min. 22 ga., Type B, Grade 40 steel	Min. 2.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi or IKOTherm III 25 psi	Note 2	1 per 2.7 ft²	Insulation: One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi Coverboard: (Optional) Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IKO-MA	BB-IBMA-SPR	-45.0*
S-3.	Min. 22 ga., Type B, Grade 40 steel	Min. 2-inch IKOTherm, IKOTherm III, IKOTherm 25 psi or IKOTherm III 25 psi	Note 2	1 per 2.3 ft²	Insulation: One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi Coverboard: (Optional) Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IKO-MA	BB-IBMA-SPR	-45.0*
S-4.	Min. 22 ga., Type B, Grade 40 steel	Min. 2-inch IKOTherm, IKOTherm III, IKOTherm 25 psi or IKOTherm III 25 psi	Note 2	1 per 2.3 ft²	Min. 1.5-inch IKOTherm III or IKOTherm III 25 psi	IKO-MA	BB-IBMA	-45.0*
S-5.	Min. 22 ga., Type B, Grade 40 steel	Min. 2-inch IKOTherm, IKOTherm III, IKOTherm 25 psi or IKOTherm III 25 psi	Note 2	1 per 2.3 ft²	Additional Insulation: (Optional) Min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi or IKOTherm III 25 psi Coverboard: 0.5-inch IKOTherm CoverShield	IKO-MA	BB-IBMA	-45.0*
S-6.	Min. 22 ga., Type B, Grade 33 steel	Min. 2-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi	InnoviFast Insulation Fastener with InnoviFast Insulation Plate, OMG #12 Standard with OMG 3 in. Galvalume Steel Plate or Trufast #12 DP with Trufast 3" Metal Insulation Plate	1 per 2.0 ft²	One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi	IKO-MA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-45.0*
S-7.	Min. 22 ga., Type B, Grade 33 steel	Min. 2-inch IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi	InnoviFast Insulation Fastener with InnoviFast Insulation Plate, OMG #12 Standard with OMG 3 in. Galvalume Steel Plate or Trufast #12 DP with Trufast 3" Metal Insulation Plate	1 per 2.0 ft²	One or more layer(s), min. 1.5-inch IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IKO-DTA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-45.0*

TABLE 2B: STEEL DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE B-1: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER								
System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasteners (Note 11)	Attach (Note 17)	Type	Attach (Notes 6,7,8)		
S-8.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Teks 5, 6" o.c.	Min. 2-inch IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi	Trufast #15 EHD with Trufast 3" Metal Insulation Plate	1 per 1.3 ft²	0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IKO-DTA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-60.0
S-9.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Teks 5, 6" o.c.	Min. 1.5-inch IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi	Trufast #15 EHD with Trufast 3" Metal Insulation Plate	1 per 1.0 ft²	0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IKO-DTA, 6-inch o.c.	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-82.5
S-10.	Min. 22 ga., Type B, Grade 80 steel; 6 ft span, #12 HWH Teks 5, 6" o.c.	Min. 1.5-inch IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi	Trufast #15 EHD with Trufast 3" Metal Insulation Plate	1 per 1.0 ft²	0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IKO-DTA, 6-inch o.c.	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-105.0

TABLE 2C: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER											
System No.	Deck (Note 1)	Thermal Barrier			Primer	Vapor Barrier	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasteners (Note 11)	Attach (Note 17)			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
S-11.	Min. 22 ga., Type B, Grade 40 steel	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.7 ft²	InnoviBond Membrane Adhesive SPR	IKO MVP, self-adhering	Min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi or IKOTherm III 25 psi	IKO-MA	(Optional) Additional layer(s) base insulation	IKO-MA	BB-IBMA-SPR	-45.0*
S-12.	Min. 22 ga., Type B, Grade 40 steel	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.7 ft²	InnoviBond Membrane Adhesive SPR	IKO MVP, self-adhering	Min. 1.5-inch IKOTherm III or IKOTherm III 25 psi	IKO-MA	(Optional) Additional layer(s) base insulation	IKO-MA	BB-IBMA	-45.0*
S-13.	Min. 22 ga., Type B, Grade 40 steel	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.7 ft²	InnoviBond Membrane Adhesive SPR	IKO MVP, self-adhering	Min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi or IKOTherm III 25 psi	IKO-MA	0.5-inch IKOTherm CoverShield	IKO-MA	BB-IBMA or BB-IBMA-SPR	-45.0*

TABLE 2c: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) SYSTEM TYPE B-2: MECHANICALLY ATTACHED THERMAL BARRIER, BONDED VAPOR BARRIER, BONDED INSULATION, BONDED ROOF COVER											
System No.	Deck (Note 1)	Thermal Barrier			Primer	Vapor Barrier	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)
		Type	Fasteners (Note 11)	Attach (Note 17)			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
S-14.	Min. 22 ga., Type B, Grade 33 steel	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	InnoviFast Insulation Fastener with InnoviFast Insulation Plate, OMG #12 Standard with OMG 3 in. Galvalume Steel Plate (Flat) or Trufast #12 DP with Trufast 3" Metal Insulation Plate	1 per 2.7 ft²	InnoviBond Membrane Adhesive SPR	IKO MVP or IKO MVP Sand, self-adhering	One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi	IKO-MA	Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or IKOTherm CoverShield	IKO-MA	BB-IBMA or BB-IBMA-LVOC	-45.0*
S-15.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Teks 5, 6" o.c.	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	InnoviFast Insulation Fastener with InnoviFast Insulation Plate, OMG #12 Standard with OMG 3 in. Galvalume Steel Plate (Flat) or Trufast #12 DP with Trufast 3" Metal Insulation Plate	1 per 2.0 ft²	InnoviBond Membrane Adhesive SPR	IKO MVP, self-adhering	Min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi	IKO-MA	Min. 0.5-inch DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or IKOTherm CoverShield	IKO-MA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-52.5
S-16.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Teks 5, 6" o.c.	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	InnoviFast Insulation Fastener with InnoviFast Insulation Plate, OMG #12 Standard with OMG 3 in. Galvalume Steel Plate (Flat) or Trufast #12 DP with Trufast 3" Metal Insulation Plate	1 per 2.0 ft²	InnoviBond Membrane Adhesive SPR	IKO MVP, self-adhering	Min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi	IKO-MA	None	N/A	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-67.5

TABLE 2D: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C-1: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
System No.	Deck (Note 1)	Base Insulation Layer (Note 3, Note 13)	Top Insulation Layer			Roof Cover (Note 15)	MDP (psf)
			Type	Fasten (Note 11)	Attach (Note 17)		
S-17.	Min. 22 ga., Type B, Grade 33 steel	(Optional) One or more layer(s), min. 1.5-inch thick, min. 16-psi, FBC Approved roof insulation	Min. 2-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi	InnoviFast Insulation Fastener with InnoviFast Insulation Plate, OMG #12 Standard with OMG 3 in. Galvalume Steel Plate or Trufast #12 DP with Trufast 3" Metal Insulation Plate	1 per 2.0 ft²	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-45.0*
S-18.	Min. 22 ga., Type B, Grade 33 steel	One or more layer(s), min. 1.5-inch thick, min. 16-psi, FBC Approved roof insulation	Min. 0.5-inch IKOTherm CoverShield	InnoviFast Insulation Fastener with InnoviFast Insulation Plate, OMG #12 Standard with OMG 3 in. Galvalume Steel Plate or Trufast #12 DP with Trufast 3" Metal Insulation Plate	1 per 2.0 ft²	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-45.0*
S-19.	Min. 22 ga., Type B, Grade 40 steel, 6 ft span, #12 HWH Teks 5, 6" o.c.	One or more layer(s), min. 1.5-inch thick, min. 16-psi, FBC Approved roof insulation	Min. 0.5-inch DensDeck Prime	Note 2	1 per 2.0 ft²	BB-IBMA or BB-IBMA-SPR	-60.0
S-20.	Min. 22 ga., Type B, Grade 40 steel, 6 ft span, #12 HWH Teks 5, 6" o.c.	One or more layer(s), min. 1.5-inch thick, min. 16-psi, FBC Approved roof insulation	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.0 ft²	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-60.0

TABLE 2E: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, INDUCTION-WELDED ROOF COVER						
System No.	Deck (Note 1)	Insulation (Note 3, Note 13)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fasteners (Note 11)	Spacing		
INNOVIFAST HEAVY DUTY (HD) FASTENER (#15) WITH INNOVIWELD TPO INDUCTION PLATES:						
S-21.	Min. 22 ga., Type B, Grade 40 steel, 6 ft span; 5/8" puddle welds, 6" o.c.	Insulation: One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi Coverboard: (Optional) Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	InnoviFast Heavy Duty (HD) Fastener (#15) with InnoviWeld TPO Induction Plates	2 x 2 ft grid (staggered)	IKO Innovi TPO, induction welded	-60.0
INNOVIFAST HD FASTENER WITH INNOVIWELD TPO INDUCTION PLATE:						
S-22.	Min. 22 ga., Type B, Grade 33 steel	Insulation: One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi Coverboard: (Optional) Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board Topmost boards shall be staggered 12-inch along either dimension.	InnoviFast HD Fastener with InnoviWeld TPO Induction Plate	1 per 5.3 ft² (6 parts per 4x8 ft board on a 24x36-inch pattern)	IKO Innovi TPO, min. 60-mil, induction welded	-45.0*
S-23.	Min. 22 ga., Type B, Grade 33 steel, 6 ft span, #12 HWH Teks 5, 6" o.c.	Insulation: One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi Coverboard: (Optional) Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board Topmost boards shall be staggered 12-inch along the 8 ft dimension.	InnoviFast HD Fastener with InnoviWeld TPO Induction Plate	1 per 4.0 ft² (8 parts per 4x8 ft board on a 24x24-inch pattern)	IKO Innovi TPO, min. 60-mil, induction welded	-52.5

TABLE 2E: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C-2: MECHANICALLY ATTACHED INSULATION, INDUCTION-WELDED ROOF COVER						
System No.	Deck (Note 1)	Insulation (Note 3, Note 13)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fasteners (Note 11)	Spacing		
S-24.	Min. 22 ga., Type B, Grade 33 steel, 6 ft span, #12 HWH Teks 5, 6" o.c.	Insulation: One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi Coverboard: (Optional) Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board Topmost boards shall be staggered 12-inch along the 8 ft dimension.	InnoviFast HD Fastener with InnoviWeld TPO Induction Plate	1 per 2.0 ft² (16 parts per 4x8 ft board on a 12x24-inch pattern)	IKO Innovi TPO, min. 60-mil, induction welded	-82.5
S-25.	Min. 22 ga., Type B, Grade 80 steel, 6 ft span, #12 HWH Teks 5, 6" o.c.	Insulation: One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi Coverboard: (Optional) Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board Topmost boards shall be staggered 12-inch along the 8 ft dimension.	InnoviFast HD Fastener with InnoviWeld TPO Induction Plate	1 per 2.0 ft² (16 parts per 4x8 ft board on a 12x24-inch pattern)	IKO Innovi TPO, min. 60-mil, induction welded	-105.0
S-26.	Min. 22 ga., Type B, Grade 33 steel, 6 ft span, #12 HWH Teks 5, 6" o.c.	Insulation: One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi Coverboard: (Optional) Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, preliminarily attached (Note 5).	InnoviFast HD Fastener with InnoviWeld TPO Induction Plate	6-inch o.c. in rows spaced 60-inch o.c.	IKO Innovi TPO, min. 60-mil, induction welded	-60.0
S-27.	Min. 20 ga., Type B, Grade 33 steel, 6 ft span, #12 HWH Teks 5, 6" o.c.	Insulation: One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi Coverboard: (Optional) Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, preliminarily attached (Note 5).	InnoviFast HD Fastener with InnoviWeld TPO Induction Plate	6-inch o.c. in rows spaced 60-inch o.c.	IKO Innovi TPO, min. 60-mil, induction welded	-75.0
S-28.	Min. 22 ga., Type B, Grade 33 steel, 4 ft span, #12 HWH Teks 5, 6" o.c.	Insulation: One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi Coverboard: (Optional) Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, preliminarily attached (Note 5).	InnoviFast HD Fastener with InnoviWeld TPO Induction Plate	6-inch o.c. in rows spaced 60-inch o.c.	IKO Innovi TPO, min. 60-mil, induction welded	-82.5
S-29.	Min. 20 ga., Type B, Grade 33 steel, 5.5 ft span, #12 HWH Teks 5, 6" o.c.	Insulation: One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi Coverboard: (Optional) Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, preliminarily attached (Note 5).	InnoviFast HD Fastener with InnoviWeld TPO Induction Plate	6-inch o.c. in rows spaced 60-inch o.c.	IKO Innovi TPO, min. 60-mil, induction welded	-82.5
S-30.	Min. 22 ga., Type B, Grade 80 steel, 6 ft span, #12 HWH Teks 5, 6" o.c.	Insulation: One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi Coverboard: (Optional) Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, preliminarily attached (Note 5).	InnoviFast HD Fastener with InnoviWeld TPO Induction Plate	6-inch o.c. in rows spaced 60-inch o.c.	IKO Innovi TPO, min. 60-mil, induction welded	-90.0
S-31.	Min. 20 ga., Type B, Grade 33 steel, 5 ft span, #12 HWH Teks 5, 6" o.c.	Insulation: One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi Coverboard: (Optional) Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, preliminarily attached (Note 5).	InnoviFast HD Fastener with InnoviWeld TPO Induction Plate	6-inch o.c. in rows spaced 60-inch o.c.	IKO Innovi TPO, min. 60-mil, induction welded	-90.0
S-32.	Min. 18 ga., Type B, Grade 33 steel, 6 ft span, #12 HWH Teks 5, 6" o.c.	Insulation: One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi Coverboard: (Optional) Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board, preliminarily attached (Note 5).	InnoviFast HD Fastener with InnoviWeld TPO Induction Plate	6-inch o.c. in rows spaced 60-inch o.c.	IKO Innovi TPO, min. 60-mil, induction welded	-90.0

TABLE 2F: STEEL OR STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE D-1: MECHANICALLY ATTACHED ROOF COVER										
System No.	Deck (Note 1)	Thermal Barrier	Vapor Barrier	Insulation (Note 3, Note 13)			Roof Cover (Note 15A)			MDP (psf)
				Type	Fastener	Attach (Note 5)	Type	Fasteners (Note 11)	Attach	
S-33.	Min. 22 ga., Type B, Grade 33 steel; 6 ft span, #12 HWH Teks 5, 6" o.c.	Optional, Note 16B	Optional, Note 16B	Min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi. (Optional) Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4.0 ft² (Note 17)	IKO Innovi TPO	InnoviFast Heavy Duty (HD) Fastener (#15) with InnoviFast 2-3/8" HD Seam Plate, InnoviFast HD Fastener with InnoviFast 2-3/8-in. HD Seam Plate or OMG #15 Roofgrip with OMG 2-3/8 in. Round Barbed Seam Plate	6-inch o.c. within min. 6-inch side laps spaced max. 114-inch o.c. Laps sealed with 1.5-inch heat weld.	-52.5
S-34.	Min. 22 ga., Type B, Grade 33 steel, 6 ft span, #12 HWH Teks 5, 6" o.c.	Min. 0.5-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IKO MVP or MVP Sand, self-adhering	Insulation: One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi Coverboard: (Optional) Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4.0 ft² (Note 17)	IKO Innovi TPO	InnoviFast Heavy Duty (HD) Fastener (#15) with InnoviFast 2-3/8" HD Seam Plate, InnoviFast HD Fastener with InnoviFast 2-3/8-in. HD Seam Plate or OMG #15 Roofgrip with OMG 2-3/8 in. Round Barbed Seam Plate	6-inch o.c. within min. 6-inch side laps spaced max. 114-inch o.c. Laps sealed with 1.5-inch heat weld.	-75.0

TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER REFER TO NOTE 16 FOR VAPOR BARRIER OPTIONS							
System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer(s)		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
C-1.	Min. 2,500 psi structural concrete	One layer, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III, IKOTherm-A III 25 psi, IKOTherm CoverShield or IKOTherm-A CoverShield	IKO-MA	None	N/A	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-210.0
C-2.	Min. 2,500 psi structural concrete	Min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-MA	None	N/A	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-262.5
C-3.	Min. 2,500 psi structural concrete	Min. 0.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-MA	Additional layer(s) base insulation	IKO-MA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-360.0
C-4.	Min. 2,500 psi structural concrete	One or more layer(s), min. 0.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-MA	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or 0.5-inch IKOTherm CoverShield or IKOTherm-A CoverShield	IKO-MA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-360.0
C-5.	Min. 2,500 psi structural concrete	One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-MA, 6-inch o.c.	(Optional) Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IKO-MA, 6-inch o.c.	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-485.5
C-6.	Min. 2,500 psi structural concrete	One or more layer(s), min. 1.5-inch IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-DTA	0.5-inch IKOTherm-A CoverShield	IKO-DTA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-165.0
C-7.	Min. 2,500 psi structural concrete	One or more layer(s), min. 1.5-inch IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-DTA	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IKO-DTA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-195.0
C-8.	Min. 2,500 psi structural concrete	Min. 1.5-inch IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-DTA	(Optional) Additional layer(s) base insulation	IKO-DTA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-262.5
C-9.	Min. 2,500 psi structural concrete	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IKO-DTA	None	N/A	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-315.0

TABLE 4A: LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: LWC TO DECK, BONDED INSULATION, BONDED ROOF COVER								
System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)	MDP (psf)*
			Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
CELCORE (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	Min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-MA	(Optional) Additional layer(s), min. 0.5-inch base insulation	IKO-MA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-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	(Optional) Min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-MA	Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IKO-MA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-90.0
PRE-EXISTENT CELLULAR LWC (NOTE 14):								
LWC-3.	Min. 22 ga., Type BV, Grade 40 steel, 6 ft span or structural concrete	Pre-existent, min. 2-inch thick cellular lightweight concrete (Note A) Compressive: 410 psi Withdrawal, Trufast FM-90 Base Sheet Fastener: 132 lbf	Min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-MA	(Optional) Additional layer(s), min. 0.5-inch base insulation	IKO-MA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-67.5
LWC-4.	Min. 22 ga., Type BV, Grade 40 steel, 6 ft span or structural concrete	Pre-existent, min. 2-inch thick cellular lightweight concrete (Note A) Compressive: 410 psi Withdrawal, Trufast FM-90 Base Sheet Fastener: 132 lbf	(Optional) Min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-MA	Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IKO-MA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-67.5
Note A:	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 avergage result as per the system listing above. ➢ Field withdrawal resistance testing in accordance with Note 11 shall yield an average result as per the system listing above. ➢ 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 12 is recommended. All testing shall be performed by an accredited testing agency acceptable to the Authority Having Jurisdiction							

TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER							
System No.	Deck (Note 1 and Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
CWF-1.	3-inch Tectum; 32-inch span; screws and 2-inch diameter steel plates at all supports, 3.5-inch from each edge and 8" o.c. between edge fasteners	Min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-MA	(Optional) Additional layer(s), min. 0.5-inch base insulation	IKO-MA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-90.0
CWF-2.	3-inch Tectum; 32-inch span; screws and 2-inch diameter steel plates at all supports, 3.5-inch from each edge and 8" o.c. between edge fasteners	(Optional) Min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-MA	Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IKO-MA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-90.0

TABLE 6A: GYPSUM DECKS - REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER							
System No.	Deck (Note 1 and Note 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)	MDP (psf)*
		Type	Attach (Notes 6,7,8)	Type	Attach (Notes 6,7,8)		
G-1.	Existing gypsum deck	Min. 0.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-MA	(Optional) Additional layer(s), min. 0.5-inch base insulation	IKO-MA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-150.0
G-2.	Existing gypsum deck	(Optional) Min. 0.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-MA	Min. 0.5-inch IKOTherm CoverShield, IKOTherm-A CoverShield, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IKO-MA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-150.0

TABLE 7A: RECOVER APPLICATIONS SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER							
[A] The reported MDP documents the allowable maximum design pressure of the new insulation, coverboard and roof cover when adhered to the substrate, irrespective of the deck type (See Note 1) or performance of the substrate (See Note 12). The deck and substrate shall be capable of resisting the project design pressure requirements, not to exceed the noted MDP, to the satisfaction of the Authority Having Jurisdiction.							
System No.	**Substrate (Note 1 and Note 12)**	**Base Insulation Layer**		**Top Insulation Layer**		**Roof Cover (Note 15)**	**MDP (psf)[*A]**
		Type	**Attach (Notes 6,7,8)**	**Type**	**Attach (Notes 6,7,8)**		
R-1.	Existing gravel-surfaced asphaltic built-up roof, brushed / spudded and vacuumed to remove loose gravel	One or more layer(s), min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi	IKO-MA	(Optional) Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or 0.5-inch IKOTherm CoverShield or IKOTherm-A CoverShield	IKO-MA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-60.0
R-2.	Existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	One layer, min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or min. 0.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III, IKOTherm-A III 25 psi, IKOTherm CoverShield or IKOTherm-A CoverShield	IKO-MA	None	N/A	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-210.0
R-3.	Existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	Min. 1.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-MA	None	IKO-MA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-262.5
R-4.	Existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	Min. 0.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-MA	Additional layer(s) base insulation	IKO-MA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-360.0
R-5.	Existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	One or more layer(s), min. 0.5-inch IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25 psi, IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-MA	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board or 0.5-inch IKOTherm CoverShield or IKOTherm-A CoverShield	IKO-MA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-360.0
R-6.	Existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	One or more layer(s), min. 1.5-inch IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-DTA	0.5-inch IKOTherm-A CoverShield	IKO-DTA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-165.0
R-7.	Existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	One or more layer(s), min. 1.5-inch IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-DTA	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IKO-DTA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-195.0
R-8.	Existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	Min. 1.5-inch IKOTherm-A, IKOTherm-A 25 psi, IKOTherm-A III or IKOTherm-A III 25 psi.	IKO-DTA	(Optional) Additional layer(s) base insulation	IKO-DTA	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-262.5
R-9.	Existing smooth- or granule-surface asphalt BUR or SBS modified bitumen or granule-surface APP modified bitumen	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	IKO-DTA	None	N/A	BB-IBMA, BB-IBMA-LVOC or BB-IBMA-SPR	-315.0