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

ENGINEER

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EVALUATION REPORT

Reign Tight Roofing Systems, Inc.

2099 E. Tipton Street
Seymour, IN 47274
(812) 523-8392

Evaluation Report 3m-CGT-20-FBCER.A-R1

FL31560-R1

Date of Issuance: 02/11/2020

Revision 1: 11/13/2020

SCOPE:

This Evaluation Report 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 use of the product under the Florida Building Code. The product described herein has been evaluated for compliance with the **7th Edition (2020) Florida Building Code** sections noted herein.

DESCRIPTION: Reign Tight (RT) Single Ply Roof Systems

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

CONTINUED COMPLIANCE: This Evaluation Report 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 Evaluation Reports 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 Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Florida Product Approval Number (FL#) preceded by the words "NEMO|etc. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire Evaluation Report 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 Evaluation Report consists of pages 1 through 3, plus a 5-page Appendix.

Prepared by:

Robert J.M. Nieminen, P.E.

Florida Registration No. 59166, Florida DCA ANE1983



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 11/13/2020. This does not serve as an electronically signed document.

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 evaluation reports 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 Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

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ROOFING SYSTEMS EVALUATION:
1. SCOPE:

Product Category: Roofing

Sub-Category: Single Ply Roof Systems

Compliance Statement: **Reign Tight (RT) Single Ply Roof Systems**, as produced by **Reign Tight Roofing Systems, Inc.**, have demonstrated compliance with the following sections of the **7th Edition (2020) Florida Building Code** through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

Section	Property	Standard	Year
1504.3.1	Wind resistance	FM 4474	2011
1504.6	Physical properties	ASTM G154	2012
1504.7	Impact resistance	FM 4470	2016
1507.13.2	Material standard	ASTM D4434	2012

3. REFERENCES:

Entity	Examination	Reference	Date
NEMO	Evaluation Report	02641.09.05-R2	11/13/2020
FM Approvals (QUA1860)	Quality Control	PL/TA Agreement, PR450314	08/22/2018
FM Approvals (QUA1860)	Quality Control	Inspection Report	06/15/2020
FM Approvals (QUA1860)	Quality Control	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

This Evaluation Report covers **Reign Tight (RT) Roof Systems** installed in accordance with **Reign Tight Roofing Systems** published installation instructions and the Limitations / Conditions of Use herein.

TABLE 1: EVALUATED MEMBRANES

Type	Product		Material Standard			Plant(s)
			Reference	Type	Grade	
Roof Cover	RT50, RT60 and RT80	50, 60 or 80-mil	ASTM D444	III	N/A	Cambridge, Ontario

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 Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in FBC High Velocity Hurricane Zone jurisdictions (i.e., Broward and Miami-Dade Counties).
- 5.3 This Evaluation Report 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 Evaluation Report 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 Evaluation Report 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 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 **ANSI/SPRI FX-1** or **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 **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 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 (February 2020)** for Zone 2/3 enhancements.
- 5.7.3 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.
- 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 Evaluation Report.

6. INSTALLATION:

Reign Tight (RT) Single Ply Roof Systems shall be installed in accordance with **Reign Tight Roofing Systems, Inc.** published installation instructions, subject to the Limitations / Conditions 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 FIVE (5) PAGES THAT FOLLOW FORM PART OF THIS EVALUATION REPORT -

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
1A	Wood	New, Reroof (Tear-Off) or Recover	D-1	Insulated, Mech. Attached Membrane – Stress Plates and Fasteners	2
2A	Steel	New, Reroof (Tear-Off) or Recover	C-2	Insulated, Induction-Welded Roof Cover	2
2B	Steel	New, Reroof (Tear-Off) or Recover	D-1	Insulated, Mech. Attached Membrane	3
3A	Structural concrete	New, Reroof (Tear-Off) or Recover	C-2	Insulated, Induction-Welded Roof Cover	4
3B	Structural concrete	New, Reroof (Tear-Off) or Recover	D-1	Insulated, Mech. Attached Membrane	4
4A	Steel	Recover	C-2	Insulated, Induction-Welded Roof Cover	5

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 requirements to the satisfaction of the Authority Having Jurisdiction.
- 2 Fasteners shall be of sufficient length for the following engagements:
 - Wood Deck: Minimum 0.75-inch plywood penetration or minimum 1-inch wood plank embedment.
 - Steel Deck: Minimum 0.75-inch steel penetration and engage the top flute of the steel deck.
 - Structural Concrete: Minimum 1-inch embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions.
- 3 Unless otherwise noted, insulation may be any one layer or combination of FBC Approved (Local or Statewide) board(s) that meet FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover.
- 4 Minimum 200 psi, minimum 2-inch thick FBC Approved lightweight insulating concrete may be substituted for 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.
- 5 Preliminary insulation attachment for System Type D: Unless otherwise noted, refer to Section 2.2.10.1.3 of FM Loss Prevention Data Sheet 1-29 (February 2020).
- 6 RESERVED
- 7 RESERVED
- 8 RESERVED
- 9 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 (February 2020) for Zone 2/3 enhancements.
- 10 RESERVED
- 11 For mechanically attached components over existing 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 and analysis shall be in accordance with ANSI/SPRI FX-1 or Testing Application Standard TAS 105.
- 12 RESERVED
- 13 Refer to FBC 1511 for requirements and limitations regarding recover installations. For Structural Concrete Deck or Recover Applications using System Type C-1, C-2, D-1 or D-2, the insulation is optional. Alternatively, an FBC 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 herein). The separator component shall be documented as meeting FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover in Recover applications.
- 14 RESERVED

15 RESERVED

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. For membrane attachment using batten-strips, batten-strip end laps shall be spliced with sufficient dimension to allow for minimum 2-fasteners at each batten-strip lap.

15B For System Type C-2 (induction weld), care shall be taken to ensure that the plates do not line-up with membrane seams. This condition may preclude proper induction welding of the membrane to the plates

16 For System Types C-1, C-2, D-1 or Type D-2, an FBC Approved vapor barrier membrane may be installed atop the roof deck prior to installation of the insulation and roof cover. Refer to FM Loss Prevention Data Sheet 1-29 (February 2020) for design and installation recommendations and limitations.

17 “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

TABLE 1A: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED MEMBRANE – STRESS PLATES AND FASTENERS

System No.	Deck (Note 1)	Insulation (Note 13)		Roof Cover (Note 15A)			MDP (psf)
		Type	Attach (Note 5)	Type	Fasteners (Note 11)	Attachment	
W-1.	Min. 19/32-inch APA rated CDX plywood at max 24-inch spans	One or more layers, any combination	Preliminarily attached	RT50, RT60 or RT80	OMG #14 Heavy Duty Fasteners with OMG 2-in. Barbed Plates or Dekfast DF-#14-PH3 with Dekfast PTL-R-2-4B	12-inch o.c. within 5-inch wide laps spaced 67-inch o.c. Laps sealed with 1.5-inch heat weld.	-30.0
W-2.	Min. 19/32-inch APA rated CDX plywood at max 24-inch spans	One or more layers, any combination	Preliminarily attached	RT50, RT60 or RT80	OMG #14 Heavy Duty Fasteners with OMG 2-in. Barbed Plates or Dekfast DF-#14-PH3 with Dekfast PTL-R-2-4B	12-inch o.c. within 5-inch wide laps spaced 67-inch o.c. Laps sealed with 1.5-inch heat weld.	-45.0

TABLE 2A: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-2: INSULATED, INDUCTION-WELDED ROOF COVER

System No.	Deck (Note 1)	Insulation Layer (Note 13)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fasteners (Note 11)	Density or Spacing		
S-1.	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#15-PH3 with <i>isoweld</i> ® F1-P-6.8-PVC Plate	1 per 6 ft ² 2x3-ft grid, staggered	RT50, RT60 or RT80, bonded to SFS <i>isoweld</i> ® PVC Plates with SFS <i>isoweld</i> ® 3000	-37.5
S-2.	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1.5-inch, prelim. attach	Dekfast DF-#15-PH3 with <i>isoweld</i> ® F1-P-6.8-PVC Plate	12-inch o.c. in rows 60-inch o.c.	RT50, RT60 or RT80, bonded to SFS <i>isoweld</i> ® PVC Plates with SFS <i>isoweld</i> ® 3000	-45.0
S-3.	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#15-PH3 with <i>isoweld</i> ® F1-P-6.8-PVC Plate	1 per 4 ft ² 2x2-ft grid, staggered	RT50, RT60 or RT80, bonded to SFS <i>isoweld</i> ® PVC Plates with SFS <i>isoweld</i> ® 3000	-52.5
S-4.	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#15-PH3 with <i>isoweld</i> ® F1-P-6.8-PVC Plate	1 per 3 ft ² 1.5 x 2-ft grid, staggered	RT50, RT60 or RT80, bonded to SFS <i>isoweld</i> ® PVC Plates with SFS <i>isoweld</i> ® 3000	-82.5
S-5.	Min. 22 ga., type B, Grade 40 steel	One or more layers, any combination, min. 1.5-inch, prelim. attach	Dekfast DF-#15-PH3 with <i>isoweld</i> ® F1-P-6.8-PVC Plate	6-inch o.c. in rows 60-inch o.c.	RT50, RT60 or RT80, bonded to SFS <i>isoweld</i> ® PVC Plates with SFS <i>isoweld</i> ® 3000	-90.0

**TABLE 2B: STEEL DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED MEMBRANE**

System No.	Deck (Note 1)	Insulation (Note 13)		Roof Cover (Note 15A)			MDP (psf)
		Type	Attach (Note 5)	Type	Fasteners (Note 11)	Attachment	
S-6.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	RT50, RT60 or RT80	OMG XHD screw with OMG 2-3/8 XHD barbed stress plate or Dekfast DF-#15-PH3 with Dekfast PLT-R-2-3/8-6B	18-inch o.c. within 5.5-inch wide laps spaced 66.5-inch o.c. Laps sealed with 1.5-inch heat weld.	-30.0
S-7.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	RT50, RT60 or RT80	OMG XHD screw with OMG 2-3/8 XHD barbed stress plate or Dekfast DF-#15-PH3 with Dekfast PLT-R-2-3/8-6B	12-inch o.c. within 5-inch wide laps spaced 67-inch o.c. Laps sealed with 1.5-inch heat weld.	-45.0
S-8.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	RT50, RT60 or RT80	OMG XHD screw with OMG 2-3/8 XHD barbed stress plate or Dekfast DF-#15-PH3 with Dekfast PLT-R-2-3/8-6B	6-inch o.c. within 5-inch wide laps spaced 67-inch o.c. Laps sealed with 1.5-inch heat weld.	-60.0
S-9.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	RT80	OMG XHD screw with OMG 2-3/8 XHD barbed stress plate or Dekfast DF-#15-PH3 with Dekfast PLT-R-2-3/8-6B	6-inch o.c. within 5-inch wide laps spaced 67-inch o.c. Laps sealed with 1.5-inch heat weld.	-67.5
S-10.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	RT50, RT60 or RT80	OMG XHD screw with OMG Polymer Batten Strip	Fasteners 6-inch o.c. through batten strips spaced 96-inch o.c. Sealed with 5-inch wide RT50, RT60 or RT80 cover strip sealed on all edges with 1.5-inch heat weld	-67.5
S-11.	Min. 22 ga., type B, Grade 80 steel	One or more layers, any combination	Preliminarily attached	RT50, RT60 or RT80	OMG XHD screw with OMG Metal Batten Strip	Fasteners 6-inch o.c. through batten strips spaced 96-inch o.c. Sealed with 5-inch wide RT50, RT60 or RT80 cover strip sealed on all edges with 1.5-inch heat weld	-75.0

TABLE 3A: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE C-2: INSULATED, INDUCTION-WELDED ROOF COVER

System No.	Deck (Note 1)	Insulation Layer (Note 13)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fasteners (Note 11)	Density or Spacing		
C-1.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#14-PH3 or DF-#15-PH3 with <i>isoweld</i> ® F1-P-6.8-PVC Plate	1 per 6 ft ² 2x3-ft grid, staggered	RT50, RT60 or RT80, bonded to SFS <i>isoweld</i> ® PVC Plates with SFS <i>isoweld</i> ® 3000	-37.5
C-2.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch, prelim. attach	Dekfast DF-#14-PH3 or DF-#15-PH3 with <i>isoweld</i> ® F1-P-6.8-PVC Plate	12-inch o.c. in rows 60-inch o.c.	RT50, RT60 or RT80, bonded to SFS <i>isoweld</i> ® PVC Plates with SFS <i>isoweld</i> ® 3000	-45.0
C-3.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#14-PH3 or DF-#15-PH3 with <i>isoweld</i> ® F1-P-6.8-PVC Plate	1 per 4 ft ² 2x2-ft grid, staggered	RT50, RT60 or RT80, bonded to SFS <i>isoweld</i> ® PVC Plates with SFS <i>isoweld</i> ® 3000	-52.5
C-4.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch	Dekfast DF-#14-PH3 or DF-#15-PH3 with <i>isoweld</i> ® F1-P-6.8-PVC Plate	1 per 3 ft ² 1.5 x 2-ft grid, staggered	RT50, RT60 or RT80, bonded to SFS <i>isoweld</i> ® PVC Plates with SFS <i>isoweld</i> ® 3000	-82.5
C-5.	Min. 2,500 psi structural concrete	One or more layers, any combination, min. 1.5-inch, prelim. attach	Dekfast DF-#14-PH3 or DF-#15-PH3 with <i>isoweld</i> ® F1-P-6.8-PVC Plate	6-inch o.c. in rows 60-inch o.c.	RT50, RT60 or RT80, bonded to SFS <i>isoweld</i> ® PVC Plates with SFS <i>isoweld</i> ® 3000	-90.0

TABLE 3B: STRUCTURAL CONCRETE DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER
SYSTEM TYPE D-1: INSULATED, MECHANICALLY ATTACHED MEMBRANE

System No.	Deck (Note 1)	Insulation (Note 13)		Roof Cover (Note 15A)			MDP (psf)
		Type	Attach (Note 5)	Type	Fasteners (Note 11)	Attachment	
C-6.	Min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	RT50, RT60 or RT80	OMG CD-10 with OMG 2-3/8 XHD barbed stress plate or Dekfast DF-#15-PH3 with Dekfast PLT-R-2-3/8-6B	18-inch o.c. within 5.5-inch wide laps spaced 66.5-inch o.c. Laps sealed with 1.5-inch heat weld.	-30.0
C-7.	Min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	RT50, RT60 or RT80	OMG CD-10 with OMG 2-3/8 XHD barbed stress plate or Dekfast DF-#15-PH3 with Dekfast PLT-R-2-3/8-6B	12-inch o.c. within 5-inch wide laps spaced 67-inch o.c. Laps sealed with 1.5-inch heat weld.	-45.0
C-8.	Min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	RT50, RT60 or RT80	OMG CD-10 with OMG 2-3/8 XHD barbed stress plate or Dekfast DF-#15-PH3 with Dekfast PLT-R-2-3/8-6B	6-inch o.c. within 5-inch wide laps spaced 67-inch o.c. Laps sealed with 1.5-inch heat weld.	-60.0
C-9.	Min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	RT80	OMG CD-10 with OMG 2-3/8 XHD barbed stress plate or Dekfast DF-#15-PH3 with Dekfast PLT-R-2-3/8-6B	6-inch o.c. within 5-inch wide laps spaced 67-inch o.c. Laps sealed with 1.5-inch heat weld.	-67.5
C-10.	Min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	RT50, RT60 or RT80	OMG CD-10 with OMG Polymer Batten Strip	Fasteners 6-inch o.c. through batten strips spaced 96-inch o.c. Sealed with 5-inch wide RT50, RT60 or RT80 cover strip sealed on all edges with 1.5-inch heat weld	-67.5
C-11.	Min. 2,500 psi structural concrete	One or more layers, any combination	Preliminarily attached	RT50, RT60 or RT80	OMG CD-10 with OMG Metal Batten Strip	Fasteners 6-inch o.c. through batten strips spaced 96-inch o.c. Sealed with 5-inch wide RT50, RT60 or RT80 cover strip sealed on all edges with 1.5-inch heat weld	-75.0

TABLE 4A: STEEL - RECOVER
SYSTEM TYPE C-2: INSULATED, INDUCTION-WELDED ROOF COVER

(All areas where the existing metal panels do not lay flush on the underlying purlin shall have a pilot hole pre-drilled into the panel prior to driving the Purlin Fastener into the purlin.)

System No.	Deck (Note 1)	Insulation Layer (Note 13)	Attachment		Roof Cover (Note 15B)	MDP (psf)
			Fasteners (Note 11)	Spacing		
R-1.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi steel purlins spaced max. 60-inch o.c.	One or more layers, any combination, prelim attach	SFS Purlin Fastener with <i>isoweld</i> ® F1-P-6.8-PVC Plate are fastened through to purlins	12-inch o.c. along purlins	RT50, RT60 or RT80, bonded to SFS <i>isoweld</i> ® PVC Plates with SFS <i>isoweld</i> ® 3000	-45.0
R-2.	Existing standing seam or lap seam metal roof covers having min. 16 gauge (0.0598 inch), 50 ksi steel purlins spaced max. 60-inch o.c.	One or more layers, any combination, prelim attach	SFS Purlin Fastener with <i>isoweld</i> ® F1-P-6.8-PVC Plate are fastened through to purlins	6-inch o.c. along purlins	RT50, RT60 or RT80, bonded to SFS <i>isoweld</i> ® PVC Plates with SFS <i>isoweld</i> ® 3000	-90.0