



**EXTERIOR RESEARCH & DESIGN, LLC.**

*Certificate of Authorization #9503*  
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OXFORD, CT 06478  
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**EVALUATION REPORT**

**ICP Adhesives and Sealants, Inc.**  
12505 NW 44<sup>th</sup> Street  
Coral Springs, FL 33065  
**(888) 774-1419**

**Evaluation Report 2760.12.03-R8**  
**FL1365-R7**  
**Date of Issuance: 09/20/2004**  
**Revision 8: 10/12/2017**

**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 and Florida Building Code, Residential Volume. The products described herein have been evaluated for compliance with the **6<sup>th</sup> Edition (2017) Florida Building Code** sections noted herein.

**DESCRIPTION: ICP Adhesives CR-20**

**LABELING:** Labeling shall be in accordance with the requirements 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 documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

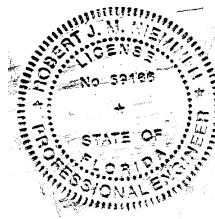
**ADVERTISEMENT:** The Evaluation Report number preceded by the words "Trinity | ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

**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 10/12/2017. This does not serve as an electronically signed document.

**CERTIFICATION OF INDEPENDENCE:**

1. Exterior Research & Design, LLC. d/b/a Trinity | ERD 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. Exterior Research & Design, LLC. d/b/a Trinity | ERD 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 Trinity|ERD 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.

**ROOFING COMPONENT EVALUATION:**

**1. SCOPE:**

**Product Category:** Roofing

**Sub-Category:** Cements-Adhesives-Coatings

**Compliance Statement:** ICP Adhesives CR-20, as produced by ICP Adhesives and Sealants, Inc., has demonstrated compliance with the 6<sup>th</sup> Edition (2017) Florida Building Code through testing in accordance with the Standards set forth herein. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

**2. STANDARDS:**

<u>Sections</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1504.3.1	Wind	FM 4474	2011
1504.3.1	Wind	UL 1897	2012

**3. REFERENCES:**

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
FM (TST 1867)	FM 4474 / FM 4470	3012321	07/29/2002
FM (TST 1867)	FM 4474 / FM 4470	3019317	06/30/2004
FM (TST 1867)	FM 4474 / FM 4470	3032127	06/12/2009
UL, LLC. (TST 9628)	UL 1897	02NK25677	04/01/2003
M-D BCCO (CER1592)	HVHZ compliance	16-0315.02	04/07/2016
UL, LLC. (QUA 9625)	Quality Assurance	Service Confirmation, R20817	Exp. 06/05/2018

**4. PRODUCT DESCRIPTION:**

4.1 ICP Adhesives CR-20 is a spray applied, two-part reactive urethane adhesives supplied in refillable and disposable cylinders. The “Part A” and “Part B” Components are available in refillable cylinders or in pre-pressurized disposable cylinders.

**5. LIMITATIONS:**

- 5.1 This is a building code evaluation. Neither Trinity|ERD 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 HVHZ jurisdictions.
- 5.3 Fire classification is not covered in this Evaluation Report; refer to a current Roofing Materials Directory for fire ratings of this product.
- 5.4 The roof cover adhered over the final layer of roof insulation 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 and physical properties.
- 5.5 The roof cover adhered over the final layer of roof insulation shall be Approved for use with the specific insulation components.
- 5.6 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, as documented through an FBC Approved Test Laboratory, Evaluation Agency or Certification Agency.
- 5.6.1 Elevated pressure zones shall be addressed in accordance with **ANSI/SPRI WD-1** or **FM Loss Prevention Data Sheet 1-29**.

- 5.7 For existing substrates in recover or re-roof installation, the existing roof surface or existing roof deck shall be examined by a representative of **ICP Adhesives & Sealants, Inc.** for compatibility and bond performance with the selected adhesive, and the existing roof system (for recover) 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 **ANSI/SPRI IA-1, ASTM E907, FM Loss Prevention Data Sheet 1-52 or Testing Application Standard TAS 124.**
- 5.8 All products in the roof assembly shall have quality assurance audit in accordance with the FBC and F.A.C. Rule 61G20-3.

**6. INSTALLATION:**

- 6.1 **ICP Adhesives CR-20** shall be installed in accordance with **ICP Adhesives and Sealants, Inc.** published installation instructions, subject to the limitations outlined in Section 5.
- 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 **ICP Adhesives & Sealants, Inc.** for suitability of use with **ICP Adhesives CR-20.**

**7. BUILDING PERMIT REQUIREMENTS:**

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

**7. MANUFACTURING LOCATIONS:**

Tomball, TX

**9. QUALITY ASSURANCE ENTITY:**

UL, LLC. – QUA9625; (847) 664-3623; [LeAnna.Gradecki@ul.com](mailto:LeAnna.Gradecki@ul.com)

**- THE FIVE (5) PAGES THAT FOLLOW FORM PART OF THIS EVALUATION REPORT -**

**The following notes apply to the systems outlined herein:**

1. The performance data contained herein pertains to substrate interfaces bonded with ICP Adhesives CR-20. If a roof system's Product Approval documentation does not specifically include ICP Adhesives CR-20 with a particular substrate or interface, the data noted herein can be 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. Roof decks shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. Wind load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation. 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.
3. Unless otherwise noted, data pertains to ICP Adhesives CR-20 applied in continuous 2.5 to 3.5 inch ribbons spaced 12-inch o.c.
4. Min. 1-inch thick tapered polyisocyanurate may be substituted for the referenced flat stock board for a Maximum Design Pressure (MDP) limitation of -117.5 psf.
5. Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.
6. For partially bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC Chapter 16, and Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD1 and FM Loss Prevention Data Sheet 1-29.
7. For existing substrates in recover or re-roof installation, the existing roof surface or existing roof deck shall be examined by a representative of ICP Adhesives & Sealants, Inc. for compatibility and bond performance with the selected adhesive, and the existing roof system (for recover) 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 ANSI/SPRI IA-1, ASTM E907, FM Loss Prevention Data Sheet 1-52 or Testing Application Standard TAS 124..
8. "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.

**TABLE 1: ICP ADHESIVES CR-20 PERFORMANCE DATA – RIGID BOARD INSULATION (NO COVERBOARD)**

Substrate (Notes 2 & 7)	Insulation (Notes 3, 4 & 5)	MDP (psf)
APA Rated plywood or APA Rated OSB Deck	Min. 1.5-inch, min. 1.25 pcf Insulfoam	-52.5
	Min. 1.5-inch ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	-52.5
Galvanized Steel	Min. 1.5-inch ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	-52.5
Structural Concrete Deck	Min. 1.5-inch, min. 1.25 pcf Insulfoam	-87.5
	Min. 1.5-inch, min. 1.5 pcf Insulfoam	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam	-240.0
	Min. 1.5-inch Ultra-Max or Multi-Max FA-3, Min. 1.3-inch ACFoam III or Min. 1.0-inch ACFoam II, ISO 95+ GL, H-Shield, H-Shield CG, JM ISO 3 or ENRGY 3	-240.0
	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	-245.0
	Min. 1.5-inch ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	-270.0
Structural concrete deck with Cellular Lightweight Concrete, minimum 300 psi	Min. 1.5-inch, min. 1.25 pcf Insulfoam	-87.5
	Min. 1.5-inch, min. 1.5 pcf Insulfoam	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam	-215.0
	Min. 1.5-inch ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	-215.0
Tectum Plank	Min. 1.5-inch, min. 1.25 pcf Insulfoam	-52.5
	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	-52.5
	Min. 1.5-inch ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	-52.5
Existing Gypsum Deck	Min. 1.5-inch, min. 1.25 pcf Insulfoam	-87.5
	Min. 1.5-inch, min. 1.5 pcf Insulfoam	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam	-240.0
	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	-245.0
	Min. 1.5-inch ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	-257.5
Granule Surface Modified Bitumen	Min. 1.5-inch, min. 1.25 pcf Insulfoam	-87.5
	Min. 1.5-inch, min. 1.5 pcf Insulfoam	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam	-240.0
	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	-245.0
Sanded Surface Modified Bitumen	Min. 1.5-inch ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	-270.0
	Min. 1.5-inch, min. 1.25 pcf Insulfoam	-87.5
	Min. 1.5-inch, min. 1.5 pcf Insulfoam	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam	-222.5
	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	-222.5
Smooth Surface Built-Up Roof	Min. 1.5-inch ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	-222.5
	Min. 1.5-inch, min. 1.25 pcf Insulfoam	-87.5
	Min. 1.5-inch, min. 1.5 pcf Insulfoam	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam	-240.0
	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	-245.0
	Min. 1.5-inch ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	-262.5

**TABLE 2: ICP ADHESIVES CR-20 PERFORMANCE DATA – RIGID BOARD INSULATION WITH COVERBOARD**

Substrate (Notes 2 & 7)	Insulation (Notes 3, 4 & 5)	Coverboard (Notes 3, 4 & 5)	MDP (psf)
APA Rated plywood or APA Rated OSB Deck	Min. 1.5-inch, min. 1.25 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel, Structodek High Density Fiberboard Roof Insulation, Hubert ½ in. HD Coated Fiberboard or DuraBoard, nominal 0.5-inch APA Rated plywood or APA Rated OSB	-52.5
	Min. 1.5-inch ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel, Structodek High Density Fiberboard Roof Insulation, Hubert ½ in. HD Coated Fiberboard or DuraBoard, nominal 0.5-inch APA Rated plywood or APA Rated OSB	-52.5
Galvanized Steel	Min. 1.5-inch ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel, Structodek High Density Fiberboard Roof Insulation, Hubert ½ in. HD Coated Fiberboard or DuraBoard, nominal 0.5-inch APA Rated plywood or APA Rated OSB	-52.5
Structural Concrete Deck	Min. 1.5-inch, min. 1.25 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel, Structodek High Density Fiberboard Roof Insulation, Hubert ½ in. HD Coated Fiberboard or DuraBoard, nominal 0.5-inch APA Rated plywood or APA Rated OSB	-87.5
	Min. 0.75-inch, min. 1.0-pcf, FM Approved expanded polystyrene insulation boards produced from BASF, AFM, NOVA or Flint Hill beads	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, Georgia Pacific FiberBase HD or FiberBase HD Excel or DuraBoard	-127.5
	Min. 0.75-inch, min. 1.0-pcf, FM Approved expanded polystyrene insulation boards produced from BASF, AFM, NOVA or Flint Hill beads	Min. 0.125-inch Sopraboard or Huebert ½ in. HD Coated Fiberboard	-135.0
	Min. 1.5-inch Ultra-Max or Multi-Max FA-3, Min. 1.3-inch ACFoam III or Min. 1.0-inch ACFoam II, ISO 95+ GL, H-Shield, H-Shield CG, JM ISO 3 or ENRGY 3	Min. 0.125-inch Sopraboard	-157.5
	Min. 1.5-inch Ultra-Max or Multi-Max FA-3, Min. 1.3-inch ACFoam III or Min. 1.0-inch ACFoam II, ISO 95+ GL, H-Shield, H-Shield CG, JM ISO 3 or ENRGY 3	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, Georgia Pacific FiberBase HD or FiberBase HD Excel, DuraBoard, Huebert ½ in. HD Coated Fiberboard	-180.0
	Min. 1.5-inch, min. 1.5 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel, Structodek High Density Fiberboard Roof Insulation or DuraBoard, nominal 0.5-inch APA Rated plywood or APA Rated OSB	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam or ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel or Structodek High Density Fiberboard Roof Insulation	-202.5
	Min. 1.5-inch, min. 2.0 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-240.0
	Min. 1.5-inch Ultra-Max or Multi-Max FA-3, Min. 1.3-inch ACFoam III or Min. 1.0-inch ACFoam II, ISO 95+ GL, H-Shield, H-Shield CG, JM ISO 3 or ENRGY 3	Min. 0.25-inch Dens Deck, SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch APA Rated plywood or APA Rated OSB	-240.0
	Min. 0.75-inch, min. 1.0-pcf, FM Approved expanded polystyrene insulation boards produced from BASF, AFM, NOVA or Flint Hill beads	Min. 0.25-inch Dens Deck, SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch APA Rated plywood or APA Rated OSB	-255.0
Min. 1.5-inch ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	-270.0	

**TABLE 2 (CONTINUED): ICP ADHESIVES CR-20 PERFORMANCE DATA – RIGID BOARD INSULATION WITH COVERBOARD**

Substrate (Notes 2 & 7)	Insulation (Notes 3, 4 & 5)	Coverboard (Notes 3, 4 & 5)	MDP (psf)
Structural concrete deck with Cellular Lightweight Concrete, minimum 300 psi	Min. 1.5-inch, min. 1.25 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel, Structodek High Density Fiberboard Roof Insulation, Hubert ½ in. HD Coated Fiberboard or DuraBoard, nominal 0.5-inch APA Rated plywood or APA Rated OSB	-87.5
	Min. 1.5-inch, min. 1.5 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel, Structodek High Density Fiberboard Roof Insulation or DuraBoard, nominal 0.5-inch APA Rated plywood or APA Rated OSB	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam or ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel or Structodek High Density Fiberboard Roof Insulation	-202.5
	Min. 1.5-inch, min. 2.0 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-215.0
	Min. 1.5-inch ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	-215.0
Tectum Plank	Min. 1.5-inch, min. 1.25 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel, Structodek High Density Fiberboard Roof Insulation, Hubert ½ in. HD Coated Fiberboard or DuraBoard, nominal 0.5-inch APA Rated plywood or APA Rated OSB	-52.5
	Min. 1.5-inch ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel, Structodek High Density Fiberboard Roof Insulation, Hubert ½ in. HD Coated Fiberboard or DuraBoard, nominal 0.5-inch APA Rated plywood or APA Rated OSB	-52.5
Existing Gypsum Deck	Min. 1.5-inch, min. 1.25 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel, Structodek High Density Fiberboard Roof Insulation, Hubert ½ in. HD Coated Fiberboard or DuraBoard, nominal 0.5-inch APA Rated plywood or APA Rated OSB	-87.5
	Min. 1.5-inch, min. 1.5 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel, Structodek High Density Fiberboard Roof Insulation or DuraBoard, nominal 0.5-inch APA Rated plywood or APA Rated OSB	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam or ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel or Structodek High Density Fiberboard Roof Insulation	-202.5
	Min. 1.5-inch, min. 2.0 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-240.0
	Min. 1.5-inch ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	-257.5



**TABLE 2 (CONTINUED): ICP ADHESIVES CR-20 PERFORMANCE DATA – RIGID BOARD INSULATION WITH COVERBOARD**

Substrate (Notes 2 & 7)	Insulation (Notes 3, 4 & 5)	Coverboard (Notes 3, 4 & 5)	MDP (psf)
Granule Surface Modified Bitumen	Min. 1.5-inch, min. 1.25 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel, Structodek High Density Fiberboard Roof Insulation, Hubert ½ in. HD Coated Fiberboard or DuraBoard, nominal 0.5-inch APA Rated plywood or APA Rated OSB	-87.5
	Min. 1.5-inch, min. 1.5 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel, Structodek High Density Fiberboard Roof Insulation or DuraBoard, nominal 0.5-inch APA Rated plywood or APA Rated OSB	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam or ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel or Structodek High Density Fiberboard Roof Insulation	-202.5
	Min. 1.5-inch, min. 2.0 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-240.0
	Min. 1.5-inch ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	-270.0
Sanded Surface Modified Bitumen	Min. 1.5-inch, min. 1.25 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel, Structodek High Density Fiberboard Roof Insulation, Hubert ½ in. HD Coated Fiberboard or DuraBoard, nominal 0.5-inch APA Rated plywood or APA Rated OSB	-87.5
	Min. 1.5-inch, min. 1.5 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel, Structodek High Density Fiberboard Roof Insulation or DuraBoard, nominal 0.5-inch APA Rated plywood or APA Rated OSB	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam or ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel or Structodek High Density Fiberboard Roof Insulation	-202.5
	Min. 1.5-inch, min. 2.0 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-222.5
	Min. 1.5-inch ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board	-222.5
Smooth Surface Built-Up Roof	Min. 1.5-inch, min. 1.25 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel, Structodek High Density Fiberboard Roof Insulation, Hubert ½ in. HD Coated Fiberboard or DuraBoard, nominal 0.5-inch APA Rated plywood or APA Rated OSB	-87.5
	Min. 1.5-inch, min. 1.5 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel, Structodek High Density Fiberboard Roof Insulation or DuraBoard, nominal 0.5-inch APA Rated plywood or APA Rated OSB	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam or ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	Min. 0.5-inch Georgia Pacific FiberBase HD or FiberBase HD Excel or Structodek High Density Fiberboard Roof Insulation	-202.5
	Min. 1.5-inch, min. 2.0 pcf Insulfoam	Min. 0.25-inch Dens Deck, Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-240.0
	Min. 1.5-inch ACFoam II, ACFoam III, ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA3	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	-262.5