



NEMO|etc.

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

ENGINEER

EVALUATE

TEST

CONSULT

EVALUATION REPORT

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

Evaluation Report 2760.12.03-R9
FL1365-R8
Date of Issuance: 09/20/2004
Revision 9: 09/28/2020

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: POLYSET® CR-20

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.

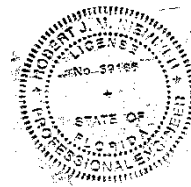
ADVERTISEMENT: The Florida Product Approval Number (FL#) preceded by the words "NEMO|etc. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

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 09/28/2020. 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.

ROOFING COMPONENT EVALUATION:
1. SCOPE:

Product Category: Roofing

Sub-Category: Cements-Adhesives-Coatings

Compliance Statement: POLYSET® CR-20, as produced by ICP Adhesives and Sealants, Inc., has demonstrated compliance with the following sections of the **7th Edition (2020) 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:

Sections	Property	Standard	Year
1504.3.1	Wind resistance	FM 4474	2011
1504.3.1	Wind resistance	UL 1897	2012

3. REFERENCES:

Entity	Examination	Reference	Date
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
M-D BCCO (CER1592)	HVHZ compliance	19-1218.02	01/16/2020
NEMO (TST6049)	TAS 114(H)	4p-ICP-19-SSLAP-02.A	05/15/2019
UL, LLC. (TST 9628)	UL 1897	02NK25677	04/01/2003
UL, LLC. (QUA 9625)	Quality Assurance	Service Confirmation	02/07/2018
UL, LLC. (QUA 9625)	Quality Assurance	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

- 4.1 **POLYSET® 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 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 bonded insulation 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.

- 5.6.2 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 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** and **FM Loss Prevention Data Sheet 1-29**.
- 5.7.3 The performance data in Appendix 1 pertains to substrate interfaces bonded with POLYSET® CR-20. If a roof system Product Approval documentation does not specifically include POLYSET® CR-20 with a particular substrate or interface, the data noted herein is acceptable for comparison with the maximum design pressure of the roof assembly interface with the top insulation layer. The lesser of the two applies.
- 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:

- 6.1 **POLYSET® CR-20** shall be installed in accordance with **ICP Adhesives and Sealants, Inc.** published installation instructions, subject to the Limitations / Conditions of Use herein.
- 6.2 Existing roof decks or roof surfaces shall be examined by a representative of **ICP Adhesives & Sealants, Inc.** for suitability of use with **POLYSET® 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; (414) 248-6409; Karen.buchmann@ul.com

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

The following notes apply to the systems outlined herein:

1.0 Decks & Substrates:

- 1.1 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.
- 1.2 Refer to FBC 1511 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 in accordance 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. Field uplift testing shall be in accordance with ASTM E907, FM Loss Prevention Data Sheet 1-52 or Testing Application Standard TAS 124.

2.0 Adhesive Application:

- 2.1 Unless otherwise noted, data pertains to POLYSET® CR-20 applied in continuous 2.5 to 3.5 inch ribbons spaced 12-inch o.c.
- 2.2 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
- 2.3 For adhered roof insulation and board-size: Unless otherwise noted, refer to Section 2.2.10.6.2 of FM Loss Prevention Data Sheet 1-29 (February 2020).

3.0 Performance Limitations:

- 3.1 “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.
- 3.2 The performance data herein pertains to substrate interfaces bonded with POLYSET® CR-20. If a roof system Product Approval documentation does not specifically include POLYSET® CR-20 with a particular substrate or interface, the data noted herein is acceptable for comparison with the maximum design pressure of the roof assembly interface with the top insulation layer. The lesser of the two applies.
- 3.3 For partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance with FBC Chapter 16. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD1 are FM Loss Prevention Data Sheet 1-29.
- 3.4 For assemblies with all components fully bonded, 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.

TABLE 1: POLYSET® CR-20 PERFORMANCE DATA – RIGID BOARD INSULATION (NO COVERBOARD)

Substrate (Note 1.0)	Insulation (Note 2.0)	MDP (psf) (Note 3.0)
APA Rated plywood or APA Rated OSB Deck	Min. 1.5-inch, min. 1.25 pcf Insulfoam	-52.5
	Min. 1.5-inch Atlas Roofing “ACFoam II” or “ACFoam III”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG”, Johns Manville “ENRGY 3” or Rmax “Multi-Max FA3”	-52.5
Galvanized Steel	Min. 1.5-inch Atlas Roofing “ACFoam II” or “ACFoam III”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG”, Johns Manville “ENRGY 3” or Rmax “Multi-Max FA3”	-52.5
Structural Concrete Deck	Min. 1.5-inch, min. 1.5 pcf Insulfoam II Roofing EPS	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam IX Roofing EPS	-240.0
	Min. 1.0-inch Atlas Roofing “ACFoam II”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG” or Johns Manville “ENRGY 3”, Min. 1.3-inch Atlas Roofing “ACFoam III” or Min. 1.5-inch Rmax “Ultra-Max”	-240.0
	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime” or USG “SECUROCK Gypsum-Fiber Roof Board”	-245.0
	Min. 1.5-inch Atlas Roofing “ACFoam II” or “ACFoam III”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG”, Johns Manville “ENRGY 3” or Rmax “Multi-Max FA3”	-270.0
Tectum Plank	Min. 1.5-inch, min. 1.5 pcf Insulfoam II Roofing EPS or 2.0 pcf Insulfoam IX Roofing EPS	-52.5
	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime” or USG “SECUROCK Gypsum-Fiber Roof Board”	-52.5
	Min. 1.5-inch Atlas Roofing “ACFoam II” or “ACFoam III”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG”, Johns Manville “ENRGY 3” or Rmax “Multi-Max FA3”	-52.5
Existing Gypsum Deck	Min. 1.5-inch, min. 1.5 pcf Insulfoam II Roofing EPS	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam IX Roofing EPS	-240.0
	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime” or USG “SECUROCK Gypsum-Fiber Roof Board”	-245.0
	Min. 1.5-inch Atlas Roofing “ACFoam II” or “ACFoam III”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG”, Johns Manville “ENRGY 3” or Rmax “Multi-Max FA3”	-257.5
Granule Surface Modified Bitumen	Min. 1.5-inch, min. 1.5 pcf Insulfoam II Roofing EPS	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam IX Roofing EPS	-240.0
	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime” or USG “SECUROCK Gypsum-Fiber Roof Board”	-245.0
	Min. 1.5-inch Atlas Roofing “ACFoam II” or “ACFoam III”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG”, Johns Manville “ENRGY 3” or Rmax “Multi-Max FA3”	-270.0
Sanded Surface Modified Bitumen	Min. 1.5-inch, min. 1.5 pcf Insulfoam II Roofing EPS	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam IX Roofing EPS	-222.5
	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime” or USG “SECUROCK Gypsum-Fiber Roof Board”	-222.5
	Min. 1.5-inch Atlas Roofing “ACFoam II” or “ACFoam III”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG”, Johns Manville “ENRGY 3” or Rmax “Multi-Max FA3”	-222.5
Smooth Surface Built-Up Roof	Min. 1.5-inch, min. 1.5 pcf Insulfoam II Roofing EPS	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam IX Roofing EPS	-240.0
	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime” or USG “SECUROCK Gypsum-Fiber Roof Board”	-245.0
	Min. 1.5-inch Atlas Roofing “ACFoam II” or “ACFoam III”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG”, Johns Manville “ENRGY 3” or Rmax “Multi-Max FA3”	-262.5

TABLE 2: POLYSET® CR-20 PERFORMANCE DATA – RIGID BOARD INSULATION WITH COVERBOARD

Substrate (Note 1.0)	Insulation (Note 2.0)		MDP (psf) (Note 3.0)
	Base Layer	Top Layer	
APA Rated plywood or APA Rated OSB Deck	Min. 1.5-inch, 1.5 pcf Insulfoam II Roofing EPS or 2.0 pcf Insulfoam IX Roofing EPS	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime”, USG “SECUROCK Gypsum-Fiber Roof Board” or Min. 0.5-inch Blue Ridge Fiberboard “Structodek High Density Fiberboard Roof Insulation”, Johns Manville “DuraBoard Roof Insulation” or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-52.5
	Min. 1.5-inch Atlas Roofing “ACFoam II” or “ACFoam III”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG”, Johns Manville “ENRGY 3” or Rmax “Multi-Max FA3”	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime”, USG “SECUROCK Gypsum-Fiber Roof Board” or Min. 0.5-inch Blue Ridge Fiberboard “Structodek High Density Fiberboard Roof Insulation”, Johns Manville “DuraBoard Roof Insulation” or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-52.5
Galvanized Steel	Min. 1.5-inch Atlas Roofing “ACFoam II” or “ACFoam III”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG”, Johns Manville “ENRGY 3” or Rmax “Multi-Max FA3”	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime”, USG “SECUROCK Gypsum-Fiber Roof Board” or Min. 0.5-inch Blue Ridge Fiberboard “Structodek High Density Fiberboard Roof Insulation” or Johns Manville “DuraBoard Roof Insulation” or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-52.5
Structural Concrete Deck	Min. 1.0-inch Atlas Roofing “ACFoam II”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG” or Johns Manville “ENRGY 3”, Min. 1.3-inch Atlas Roofing “ACFoam III” or Min. 1.5-inch Rmax “Ultra-Max”	Min. 0.125-inch Soprema “SOPRABOARD”	-157.5
	Min. 1.0-inch Atlas Roofing “ACFoam II”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG” or Johns Manville “ENRGY 3”, Min. 1.3-inch Atlas Roofing “ACFoam III” or Min. 1.5-inch Rmax “Ultra-Max”	Min. 0.5-inch Blue Ridge Fiberboard “Structodek High Density Fiberboard Roof Insulation”, Johns Manville “DuraBoard Roof Insulation”	-180.0
	Min. 1.5-inch, min. 1.5 pcf Insulfoam II Roofing EPS	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime”, USG “SECUROCK Gypsum-Fiber Roof Board” or Min. 0.5-inch Blue Ridge Fiberboard “Structodek High Density Fiberboard Roof Insulation”, Johns Manville “DuraBoard Roof Insulation” or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam IX Roofing EPS or Atlas Roofing “ACFoam II” or “ACFoam III”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG”, Johns Manville “ENRGY 3” or Rmax “Multi-Max FA3”	Min. 0.5-inch Blue Ridge Fiberboard “Structodek High Density Fiberboard Roof Insulation”	-202.5
	Min. 1.5-inch, min. 2.0 pcf Insulfoam IX Roofing EPS	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime”, USG “SECUROCK Gypsum-Fiber Roof Board” or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-240.0
	Min. 1.0-inch Atlas Roofing “ACFoam II”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG” or Johns Manville “ENRGY 3”, Min. 1.3-inch Atlas Roofing “ACFoam III” or Min. 1.5-inch Rmax “Ultra-Max”	Min. 0.25-inch G-P Gypsum “DensDeck”, USG “SECUROCK Gypsum-Fiber Roof Board” or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-240.0
	Min. 1.5-inch Atlas Roofing “ACFoam II” or “ACFoam III”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG”, Johns Manville “ENRGY 3” or Rmax “Multi-Max FA3”	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime” or USG “SECUROCK Gypsum-Fiber Roof Board”	-270.0

TABLE 2: POLYSET® CR-20 PERFORMANCE DATA – RIGID BOARD INSULATION WITH COVERBOARD

Substrate (Note 1.0)	Insulation (Note 2.0)		MDP (psf) (Note 3.0)
	Base Layer	Top Layer	
Tectum Plank	Min. 1.5-inch, min. 1.5 pcf Insulfoam II Roofing EPS or 2.0 pcf Insulfoam IX Roofing EPS	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime”, USG “SECUROCK Gypsum-Fiber Roof Board” or Min. 0.5-inch Blue Ridge Fiberboard “Structodek High Density Fiberboard Roof Insulation” or Johns Manville “DuraBoard Roof Insulation” or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-52.5
	Min. 1.5-inch Atlas Roofing “ACFoam II” or “ACFoam III”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG”, Johns Manville “ENRGY 3” or Rmax “Multi-Max FA3”	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime”, USG “SECUROCK Gypsum-Fiber Roof Board” or Min. 0.5-inch Blue Ridge Fiberboard “Structodek High Density Fiberboard Roof Insulation”, Johns Manville “DuraBoard Roof Insulation” or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-52.5
Existing Gypsum Deck	Min. 1.5-inch, min. 1.5 pcf Insulfoam II Roofing EPS	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime”, USG “SECUROCK Gypsum-Fiber Roof Board” or Min. 0.5-inch Blue Ridge Fiberboard “Structodek High Density Fiberboard Roof Insulation”, Johns Manville “DuraBoard Roof Insulation” or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam IX Roofing EPS or Atlas Roofing “ACFoam II” or “ACFoam III”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG”, Johns Manville “ENRGY 3” or Rmax “Multi-Max FA3”	Min. 0.5-inch Blue Ridge Fiberboard “Structodek High Density Fiberboard Roof Insulation”	-202.5
	Min. 1.5-inch, min. 2.0 pcf Insulfoam IX Roofing EPS	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime”, USG “SECUROCK Gypsum-Fiber Roof Board” or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-240.0
	Min. 1.5-inch Atlas Roofing “ACFoam II” or “ACFoam III”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG”, Johns Manville “ENRGY 3” or Rmax “Multi-Max FA3”	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime” or USG “SECUROCK Gypsum-Fiber Roof Board”	-257.5
Granule Surface Modified Bitumen	Min. 1.5-inch, min. 1.5 pcf Insulfoam II Roofing EPS	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime”, USG “SECUROCK Gypsum-Fiber Roof Board” or Min. 0.5-inch Blue Ridge Fiberboard “Structodek High Density Fiberboard Roof Insulation” or Johns Manville “DuraBoard Roof Insulation” or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam IX Roofing EPS or Atlas Roofing “ACFoam II” or “ACFoam III”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG”, Johns Manville “ENRGY 3” or Rmax “Multi-Max FA3”	Min. 0.5-inch Blue Ridge Fiberboard “Structodek High Density Fiberboard Roof Insulation”	-202.5
	Min. 1.5-inch, min. 2.0 pcf Insulfoam IX Roofing EPS	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime”, USG “SECUROCK Gypsum-Fiber Roof Board” or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-240.0
	Min. 1.5-inch Atlas Roofing “ACFoam II” or “ACFoam III”, Firestone “ISO 95+ GL” or “RESISTA”, Hunter Panels “H-Shield” or “H-Shield CG”, Johns Manville “ENRGY 3” or Rmax “Multi-Max FA3”	Min. 0.25-inch G-P Gypsum “DensDeck” or “DensDeck Prime” or USG “SECUROCK Gypsum-Fiber Roof Board”	-270.0

TABLE 2: POLYSET® CR-20 PERFORMANCE DATA – RIGID BOARD INSULATION WITH COVERBOARD

Substrate (Note 1.0)	Insulation (Note 2.0)		MDP (psf) (Note 3.0)
	Base Layer	Top Layer	
Sanded Surface Modified Bitumen	Min. 1.5-inch, min. 1.5 pcf Insulfoam II Roofing EPS	Min. 0.25-inch G-P Gypsum "DensDeck" or "DensDeck Prime", USG "SECUROCK Gypsum-Fiber Roof Board" or Min. 0.5-inch Blue Ridge Fiberboard "Structodek High Density Fiberboard Roof Insulation" or Johns Manville "DuraBoard Roof Insulation" or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam IX Roofing EPS or Atlas Roofing "ACFoam II" or "ACFoam III", Firestone "ISO 95+ GL" or "RESISTA", Hunter Panels "H-Shield" or "H-Shield CG", Johns Manville "ENRGY 3" or Rmax "Multi-Max FA3"	Min. 0.5-inch Blue Ridge Fiberboard "Structodek High Density Fiberboard Roof Insulation"	-202.5
	Min. 1.5-inch, min. 2.0 pcf Insulfoam IX Roofing EPS	Min. 0.25-inch G-P Gypsum "DensDeck" or "DensDeck Prime", USG "SECUROCK Gypsum-Fiber Roof Board" or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-222.5
	Min. 1.5-inch Atlas Roofing "ACFoam II" or "ACFoam III", Firestone "ISO 95+ GL" or "RESISTA", Hunter Panels "H-Shield" or "H-Shield CG", Johns Manville "ENRGY 3" or Rmax "Multi-Max FA3"	Min. 0.25-inch G-P Gypsum "DensDeck" or "DensDeck Prime", USG "SECUROCK Gypsum-Fiber Roof Board"	-222.5
Smooth Surface Built-Up Roof	Min. 1.5-inch, min. 1.5 pcf Insulfoam II Roofing EPS	Min. 0.25-inch G-P Gypsum "DensDeck" or "DensDeck Prime", USG "SECUROCK Gypsum-Fiber Roof Board" or Min. 0.5-inch Blue Ridge Fiberboard "Structodek High Density Fiberboard Roof Insulation" or Johns Manville "DuraBoard Roof Insulation", nominal 0.5-inch APA Rated plywood or APA Rated OSB	-180.0
	Min. 1.5-inch, min. 2.0 pcf Insulfoam IX Roofing EPS or Atlas Roofing "ACFoam II" or "ACFoam III", Firestone "ISO 95+ GL" or "RESISTA", Hunter Panels "H-Shield" or "H-Shield CG", Johns Manville "ENRGY 3" or Rmax "Multi-Max FA3"	Min. 0.5-inch Blue Ridge Fiberboard "Structodek High Density Fiberboard Roof Insulation"	-202.5
	Min. 1.5-inch, min. 2.0 pcf Insulfoam IX Roofing EPS	Min. 0.25-inch G-P Gypsum "DensDeck" or "DensDeck Prime", USG "SECUROCK Gypsum-Fiber Roof Board" or nominal 0.5-inch APA Rated plywood or APA Rated OSB	-240.0
	Min. 1.5-inch Atlas Roofing "ACFoam II" or "ACFoam III", Firestone "ISO 95+ GL" or "RESISTA", Hunter Panels "H-Shield" or "H-Shield CG", Johns Manville "ENRGY 3" or Rmax "Multi-Max FA3"	Min. 0.25-inch G-P Gypsum "DensDeck" or "DensDeck Prime" or USG "SECUROCK Gypsum-Fiber Roof Board"	-262.5