



- 1.0 **PRODUCT:** ISO-C1®/2.0 Polyisocyanurate Foam Insulation
- 2.0 **MANUFACTURER:** Kingspan Insulation LLC
- 3.0 **MANUFACTURING LOCATIONS:** 12501 NW 38th Avenue
Opa Locka, FL 33054
- 4.0 **PRODUCT TYPE:** Un-faced Polyisocyanurate foam insulation

5.0 PRODUCTS ARE EVALUATED ACCORDING TO THE FOLLOWING STANDARDS:

- 5.1 ASTM C591 “Standard Specification for Unfaced Preformed Rigid Cellular Polyisocyanurate Thermal Insulation” Type IV.

6.0 IDENTIFICATION AND MARKINGS:

- 6.1 Packaging of the listed product may contain the manufacturers name and address and the product name. The use of the R&D Services, Inc. (RDS) listing logo (containing the listing number), and the RDS ISO/IEC accreditations are voluntary but will be used in accordance with the listing agreement.

7.0 DESCRIPTION OF LISTING PROGRAM:

- 7.1 Semi-annually, RDS conducts the following tests:
 - 7.1.1 Density - ASTM C303
 - 7.1.2 Compressive Strength - ASTM D1621
 - 7.1.3 Closed cell content – ASTM D6226
 - 7.1.4 Thermal resistance – ASTM C518
- 7.2 Annually, RDS conducts the following tests:
 - 7.2.1 Water vapor transmission – ASTM E96 (dry cup method)
 - 7.2.2 Dimensional stability – ASTM D2126
 - 7.2.3 Water absorption – ASTM C1763 (Procedure C)
 - 7.2.4 Hot surface performance – ASTM C411
- 7.3 The quality control manual for the Opa Locka, FL facility is evaluated along with in-plant inspections by RDS to determine the effectiveness of the quality control system and implementation of the policies and procedures defined in the quality control manual.
- 7.4 Annual on-site inspection of procedures and product testing are performed by RDS through an unannounced visit to the facility. During inspection, samples of product are selected for testing referenced in 7.1 and 7.2.
- 7.5 Semi-annual requests for test samples are made by RDS to the Opa Locka, FL facility. Samples are requested for testing referenced in 7.1.
- 7.6 The Quality Control system shall be maintained Kingspan Insulation, LLC.

8.0 INSTALLATION:

- 8.1 Product is to be installed in accordance with the manufacturer’s published installation instructions by qualified installing personnel.



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PRODUCT LISTING

RDS-F1000

Issued: July 12, 2022
 Renewal Due: January 1, 2023

9.0 EVALUATED PROPERTIES AND RESULTS:

PROPERTY	RESULT
Density, Min (lb/ft ³)	2.0
Compressive Strength, Min (lb/in. ²)	22.0
Closed Cell Content, Min (%)	90
Thermal Conductivity, Max at 75 °F (Btu-in./°F-ft ² ·h)	0.19
Water Vapor Transmission, Max (perm in)	4.0
Dimensional stability, Max (%) <ul style="list-style-type: none"> • At 212 °F • At -40 °F • At 158 °F and 97 % Relative Humidity 	2 1 4
Water Absorption, Max (Volume %)	2.0
Hot Surface Performance at 300 °F <ul style="list-style-type: none"> • Warpage, Min (in) • Cracking • Flaming • Glowing • Smoldering • Smoking 	0.25 None None None None None

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