Johns Manville
Johns Manville Technical Center
10100 W. Ute Avenue
Littleton, CO 80127
(303) 978-5200 FAX (303) 978-3123

Product Testing Laboratories
Test Report

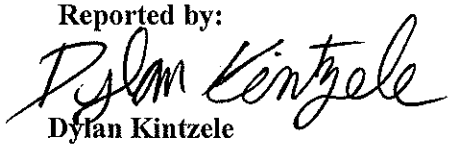
Report Number: T23-035
Date: June 15, 2023

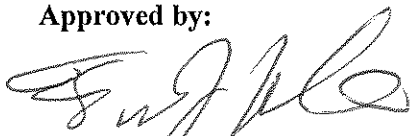
JOHNS MANVILLE TECHNICAL CENTER
Thermal Testing Laboratory
June 15, 2023

Subject:
ASTM C518 Thermal Conductivity Testing – Sol-R-Skin

For:
International Insulation Products
4938 S Atlanta Rd SE #700
Atlanta, GA 30339

Submitted by:
Johns Manville Technical Center
PO Box 625005
Littleton, CO 80162-5005

Reported by:

Dylan Kintzele
Thermal Laboratory
R&D Applied Technology

Approved by:

Francis Babineau
Product Test Manager
R&D Applied Technology

NVLAP® NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM FOR SELECTED TEST METHODS FOR THERMAL INSULATIONS

TESTING
NVLAP LAB CODE 100425-0

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INTRODUCTION

A sample of Sol-R-Skin from International Insulation Products were submitted to the JMTC Thermal Lab for thermal conductivity testing at a mean temperature of 75°F. The samples were received June 13, 2023, and testing was performed on June 13,2023 using the 12" LaserComp Heat Meter Instrument #370.

SAMPLE DESCRIPTION

1. Sol-R-Skin

TEST METHODS

ASTM C518-21

Steady State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
This method covers the measurement of steady state thermal transmission through flat slab specimens using the heat flow meter apparatus.

Exceptions to Test Method: Specimens were not conditioned as recommended in ASTM C518-21 Section 7.3.

TEST PROCEDURE INFORMATION C518

- **ASTM C518-17 9.1.4 Thickness received and tested: Received: ~3/8" Tested: 0.50"**
- **ASTM C518-17 9.1.6 Density as tested: 2.65 pcf 42.5 kg/m^3**
- **ASTM C518-17 9.1.13 Test duration, measurement portion: 1 hour**
- **ASTM C518-17 9.1.15 Last calibration: #370 May 18, 2023**
  Calibration used: #370 EPS secondary transfer standard #09070661
  Calibration files used: #370 16031211 9-22-2022
- **ASTM C518-17 9.1.16 Expanded uncertainty for LaserComp FOX 300 units with EPS is 1.2%. (k=2, 95% confidence)**
- **ASTM C518-17 9.1.17 Orientation to heat meter: Horizontal, upward heat flow**
- **ASTM C518-17 9.2 This is an Abridged ASTM C518 Test Report.**

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Table of Test Results-US units

Request #	Sample ID	Thick	Density	Mean Temp	Thermal Conductivity	Thermal Resistance	Heat Flux	Thermal Conductance	R/Unit
US units		inches	Pcf	°F	Btu in/HrFt²°F	Hr Ft² °F/Btu	Btu/ h ft²	Btu/ ft² h °F	Hr Ft² °F/Btu In
#7111	IIP Sol-R-Skin	0.5	2.65	75.0	0.2278	2.20	22.79	0.46	4.39

Table of Test Results-SI units

Request #	Sample ID	Thick	Density	Mean Temp	Thermal Conductivity	Thermal Resistance	Heat Flux	Thermal Conductance	R/Unit
SI units		cm	kg/m³	°C	W/m K	m ² K/ W	W/ m²	W / m² K	mK/W
#7111	IIP Sol-R-Skin	1.27	42.5	23.9	0.0329	0.39	71.83	2.59	30.44

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