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MIAMI-DADE COUNTY APPROVED



# CONSTRUCTION MATERIALS TECHNOLOGIES

## LABORATORY TEST RESULTS

**Report for:** Superior Products International II  
10835 W. 78th  
Shawnee, KS 66214

**Attention:** Craig Smith

<b>Product Name(s):</b> HSC 1500	<b>Manufacturer:</b> Superior Products International II
<b>PRI-CMT Project No.:</b> SPII-010-02-01	<b>Source:</b> Superior Products International II
<b>Date Received:</b> March 16, 2011	<b>Dates Tested:</b> Mar. 31, 2011 – May 16, 2011

**Purpose:** Determine product data sheet properties for *Superior Products International II's HSC 1500* in accordance with Standard Test Methods.

**Test Methods:** Testing was completed as outlined by Superior Products International II and in accordance with Standard Test Methods. Physical properties evaluated include Pull-Off Adhesion, Water Vapor Transmission, and Thermal Transmission.

Pull-Off Adhesion was determined in accordance with ASTM D 4541-09<sup>e1</sup>: *Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers*. The Change in Mass with Liquid on One Surface Only procedure was utilized; this procedure is assigned in ASTM D 6878: *Standard Specification for Thermoplastic Polyolefin Based Sheet Roofing*. Water Absorption results have been reported in units of (mass %).

Water Vapor Permeance was determined in accordance with ASTM E 96 / E 96M-10: *Standard Test Methods for Water Vapor Transmission of Materials*. Procedure B was utilized. Water Vapor Transmission and Permeance results have been reported in units of (grains/h·ft<sup>2</sup>) and (Perms), respectively.

Thermal Conductivity was determined in accordance with ASTM C 518-10: *Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus*. Prepared specimens were HSC 1500 applied to fiberboard substrate; thermal conductivity property of substrate was determined prior to application of HSC 1500. Thermal Conductivity results have been reported in units of (Btu·in / ft<sup>2</sup>·°F·h).

SPII-010-02-01 PRI-CMT Accreditations: IAS TL-189; Miami-Dade 10-0823.05; State of Florida TST5878; CRRC  
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**Product Sampling:** Sample was provided by Superior Products International II on March 16, 2011. PRI-CMT feels that the material tested is representative of the standard manufactured product for which recognition is sought.

**Results of Testing:**

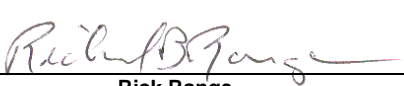
HSC 1500

Test Sample	Test Method	Property	Results		Requirement
			Average	StdDev	
Pull-Off Strength 10 specimens; 4mil dft (nominal) x 50mm ø; Cond. 14d @ 72°F & 50%RH; Test @ 72°F & 50%RH; DeFelski PosiTest® Adhesion Tester - M	ASTM D 4541	Adhesion to OSB (psi)	64.7 (cohesive)	11.4	Report
		Adhesion to Steel (psi)	76.2 (cohesive)	2.7	Report
Water Vapor Permeance 5 specimens; 27mil thick; Cond. 14d @ 72°F & 50%RH Weathering Side to ↑ P <sub>v</sub>	ASTM E 96 (Procedure B)	WVT (grains/h-ft <sup>2</sup> )	10.6	1.55	Report
		Permeance (Perms)	26.0	3.77	Report
Thermal Conductivity prepared film (25mil) on fiberboard substrate; Cond. 14d @ 72°F & 50%RH; coating towards hot plate; T <sub>m</sub> ≈75°F; ΔT≈40°F; Holometrics Model Lambda 2300	ASTM C 518	Thermal Conductivity (Btu-in / ft <sup>2</sup> ·°F-h)	0.7731	NA	Report

Note(s): N/A indicates "Not Applicable"

**Statement of Attestation:**

Physical properties testing of this material were determined in accordance with Standard Test Methods. The laboratory test results presented in this report are representative of the material supplied.

Signed:   
 Rick Range  
 Laboratory Technician

Signed:   
 Brad Grzybowski  
 Managing Director

Date: May 24, 2011

Date: May 24, 2011

**Report Issue History:**

Issue #	Date	Pages	Revision Description (if applicable)
Original	05/24/2011	2	NA

**END OF REPORT**

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