

4" & 5" R-Seal Rigid Envelope Insulation Panel



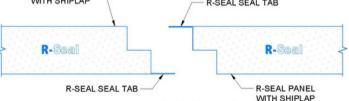
R-Seal is a comprehensive proprietary insulation system specifically designed for metal building owners and erectors. R-Seal provides the highest value in the industry by exceeding energy code and air/water barrier requirements for continuous insulation at the lowest installed cost.



PRODUCT SPECIFICATIONS

WIDTH COVERAGE	3'-6 5/8" / 3.552'	
THICKNESS	4" & 5"	
*STANDARD LENGTH	8'-0" TO 53'-0"	
EXTERIOR PROFILE	PS (Polypropylene/Scrim) Bonded to rigid foam	
EXTERIOR FACE	Uniformed Dimpling Pattern	
INTERIOR PROFILE	PS (Polypropylene/Scrim) Bonded to rigid foam	
INTERIOR FACE	Uniformed Dimpling Pattern	
JOINT	Ship Lap	
FASTENING	ASTENING Through fastened with support channels at finished floor and eave areas	
CORE	Rigid closed cell modified Polyurethane/PUR/PIR core, structural and fire rated components between fiber-reinforced polypropylene	





R-VALUE AND U-FACTOR

	R-Value	U-Factor	Thickness/Inches	Joint Style
	R-15	0.064	2.0"	Butt
	R-18.75	0.053	2.5"	Tongue & Grooved
	R-22.5	0.044	3.0"	Tongue & Grooved
	R-30	0.031	4.0"	Ship Lap
ĺ	R-37.5	0.027	5.0"	Ship Lap

Custom Length Panels are Available Upon Request

TESTING: R-Seal: Rigid Envelope Insulation Panel

TEST / APPROVAL	TEST METHOD	TEST TITLE	RESULTS
Fire US	ASTM E84	Surface Burning Characteristics of Building Materials	Class A Listed Flame Spread FSI <25 Smoke Developed <450
	R-Seal E84 Actual Tested	Composite product flame-spread and smokedeveloped tested actual performance	Flame Spread FSI <5 Smoke Developed <250
	ASTM 1715	Full-Scale Fire Testing	PASS
Fire Canada	CAN/ULC S102	Surface Burning Characteristics of Building Materials and Assemblies	Class A Listed Flame Spread FSI <25 Smoke Developed <450
	CAN/ULC S138	Full-Scale Fire Testing	PASS
Structural Performance	OSHA Drop Test Standard 1926.502(c)(4)(i)	Fall Protection for Walking-Working Surfaces	PASS
Air Barrier	ASTM E283 Assembly	Tested Method for Determining Rate of Air Leakage	PASS / 0.04 CFM/ft ² at 75 PA
	ASTM E283 Assembly Actual Tested	Tested Method for Determining Rate of Air Leakage	0.013 CFM/ft² at 75 PA
	ASTM E779 Whole Building Test	Tested Method for Determining Rate of Air Leakage	PASS / 0.4 CFM/ft² at 75 PA
	ASTM E779 Whole Building Tested	Tested Method for Determining Rate of Air Leakage	*Average 0.1 CFM/ft² at 75 PA
Water Infiltration	ASTM E331	Tested Method for Water Penetration	15 min @ 2.86 psf / PASS 2 hr @ 6.24 psf / PASS
Thermal Performance	ASTM C518-15	Tested in accordance with: <u>ASTM C518-15</u> Thermal Transmission by means of the heat flow apparatus.	
		Tested at Mean temperature of 75 degrees Thermal Resistance "R" per inch: <u>7.5</u> Tested at Mean temperature of 55 degrees Thermal Resistance "R" per inch: <u>7.7</u> Tested at Mean temperature of 20 degrees Thermal Resistance "R" per inch: <u>8.7</u>	
Compression Strength	ASTM D1621	Tested Method for Determining Compressive Strength	31 - psi Perpendicular
	I		*Based on Field Testing