

Composite Panel Building Systems 1-1/8" Composite Structural Insulated Sheathing

Overall Thickness	1-1/8"	
Width	47-15/16"	
Standard Length	8'-1", 9'-1", 10'-1"	
Weight	1.72 lbs per sq. ft.	
R - Value	R-6	ASTM C-518
Outside Skin Properties		
Type: Iso-Polyester Thermoset Composite		
Thickness	3/16"	
Reinforcing	Biaxial Fiberglass Mat	
Flame Spread	40	ASTM E-84
Water Resistive Barrier	Grade A	ASTM E-96-05
Vapor Retarder	0.94 perms	ASTM E-96-05
UV Exposure	Pass	ICC-ES AC-38
Accelerated Aging	Pass	ICC-ES AC-38
Water Resistance	Pass	AATCC-127
Insulating Foam Properties		
Type: Closed Cell Rigid Polyurethane		
Thickness	15/16"	
Core Density	2.3 PCF	
Compressive Strength	35 psi	
Tensile Strength	58 psi	
Shear Strength	28 psi	
Closed Cell Content	> 90%	
Fire Rating	Class A	ASTM E-84
Flame Spread	< 25	ASTM E-84
Smoke Developed	< 450	ASTM E-84
Sheathing System Testing		
Joint System		
Freeze / Thaw 10 Cycles	Pass	ICC-ES AC-382
Water Resistance – 14 Day Exposure	Pass	ASTM D-2247
Ultraviolet Light Exposure – 210 Hours	Pass	ICC-ES AC-382
Accelerated Aging – 25 Cycles	Pass	ICC-ES AC-382
Hydrostatic Pressure – 5Hr Hold at 55 cm	Pass	AATCC 127
Peel Adhesion – 3M 8067 Flashing	4.76 lbs/in	ASTM D3330-04
Assembly Tests		
Cyclic Transverse Load – 10 Positive Cycles	Pass	ASTM E-1233
Restrained Environmental Cycling Test – 5 Cycles	Pass	ICC-ES AC-382
Racking / Shear to 1/2" Deflection – 10 Cycles	Pass	ASTM E-72
Water Penetration – 2.86 psf for 15 minutes	Pass	ASTM E-331
Water Penetration – 6.24 psf for 2 Hours	Pass	ASTM E-331
Racking Shear - Section 15 (Wet) - Safety Factor 3	286 PLF	ASTM E-72-05
Negative Wind Load - Safety Factor of 1.5	85 psf	ASTM E-330
Positive Wind Load - Safety Factor of 1.5	66 psf	ASTM E-330