

Eco-Panels Structural Test Data

CURRENT TESTS	TEST STANDARD	RESULTS
FOAM		
Compressive Strength & Modulus	ASTM D-1624-00	Strength 35 psi
Compressive Strength & Modulus	ASTM D-1624-00	Modulus 790 psi
Density	ASTM D-1622-98	2.5 pcf
Dimensional Stability	ASTM D-2126-99	Excellent
Flammability - Smoke Generation	ASTM E-84-01	<400
Flammability - Flame Spread	ASTM E-84-01	<25
Foam Core Fire Rating	*** Integrity	CLASS 1
Linear Coefficient of Thermal Expansion	ASTM D-696-98	-40°F to +240°F
Closed Cell Content by Air Pycnometer	ASTM D-2856-87	>96%
Shear Strength and Modulus	ASTM C-273-61 (1988)	Strength 26 psi
Shear Strength and Modulus	ASTM C-273-61 (1988)	Modulus 325 psi
Resistance to Solvent	ASTM D-543-95 (2001)	Excellent
Resistance to Mold/Mildew	ASTM D-543-95 (2001)	Excellent
Thermal Conductivity	ASTM C-518-91	K-factor 0.14(BTU-in/ft ² hr°F)
Thermal Conductivity	ASTM C-518-91	R-Value 7.25 per inch
Tensile Strength and Modulus	ASTM D-1623-78 (1995)	Strength 16 psi
Tensile Strength and Modulus	ASTM D-1623-78 (1995)	Modulus 325 psi
Water Absorption	ASTM D-2842-01	2.40%
Vapor Permeability	ASTM D-2842-01	2 perm/in

*** Polyurethane foam is a "thermo-set" plastic. Melting does NOT occur.

CURRENT TESTS	TEST STANDARD	RESULTS
Structural Panel***		Surfaces Max load (Avg)
Compression	ASTM E-72-98 section 9	*OSB/OSB 50624
Transverse	ASTM E-72-98 section 11	*OSB/OSB 6734
Racking	ASTM E-72-98 section 14	*OSB/OSB 4897
Compression	ASTM E-72-98 section 9	**GALV/GALV 13366
Transverse	ASTM E-72-98 section 11	**GALV/GALV 4900
Racking	ASTM E-72-98 section 14	**GALV/GALV 6723

* 7/16" OSB both surfaces

** 24 GA Galvanized both surfaces

*** Panel Size = 4-1/2" X 48" X 96"