

ZELL-BOARD EPS

MATERIAL PROPERTIES	TEST METHOD	METRIC (SI) UNITS	CAN/ULC-S701			IMPERIAL UNITS	CAN/ULC-S701		
			TYPE 1	TYPE 2	TYPE 3		TYPE 1	TYPE 2	TYPE 3
Thermal Resistance ¹ Minimum	ASTM C 518	$\frac{\text{m}^2 \cdot \text{°C}}{\text{W}}$	0.65	0.70	0.74	$\frac{\text{ft}^2 \cdot \text{hr} \cdot \text{°F}}{\text{BTU}}$	3.75	4.04	4.27
Compressive Resistance Minimum @ 10% Deformation	ASTM D 1621	kPa	70	110	140	psi	10	16	20
Flexural Strength Minimum	ASTM C 203 Procedure B	kPa	170	240	300	psi	25	35	44
Water Vapour Permeance ² Maximum	ASTM E 96	$\frac{\text{ng}}{\text{Pa} \cdot \text{s} \cdot \text{m}^2}$	300	200	130	perms	5.2	3.5	2.3
Dimensional Stability Maximum	ASTM D 2126 7 days @ 70 ± 2° C	% linear change	1.5	1.5	1.5	% linear change	1.5	1.5	1.5
Water Absorption Maximum	ASTM D 2842	% by volume	6.0	4.0	2.0	% by volume	6.0	4.0	2.0
Limiting Oxygen Index ³ Minimum	ASTM D 2863	%	24	24	24	%	24	24	24

- Notes: 1. Thermal resistance measured at mean temperature of 24°C (75°F) for 25 mm (1 inch) thick material.
 2. Values quoted are maximum for 25mm (1 inch) thick material. Lower values will result for thicker materials.
 3. PlastiSpan insulation board has a maximum Flame Speed Rating of 290 and a Smoke Developed Rating greater than 500 for maximum thickness of 25mm classified in accordance with CSN/ULC-S102.2M.

