

Product Information Bulletin

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PlastiSpan® EFS Insulation - Canadian Applications

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This bulletin provides material properties and manufacturing requirements for *PlastiSpan*® *EFS* insulation as per CAN/ULC-S701, Annex A¹ for use as a component in exterior insulation and finish systems (EIFS).

Table 1 – PlastiSpan EFS Insulation Material Property Values

Material Properties	Test Method	Units	Values	
Thermal Resistance ² Minimum	ASTM C518	m²•°C/W (ft²•hr•°F/BTU)	0.65 (3.75)	
Water Vapour Permeance ³ Maximum	ASTM E96	ng/Pa•s•m² (perms)	300 (5.2)	
Dimensional Stability Maximum	ASTM D2126	% linear change	1.5	
Water Absorption Maximum	ASTM D2842	% by volume	6.0 Note 4	
Flexural Strength Minimum	ASTM C203	kPa (psi)	170 (25)	
Compressive Resistance Minimum @ 10% Deformation	ASTM D1621	kPa (psi)	70 (10)	
Limiting Oxygen Index Minimum	ASTM D2863	% volume	24	
Additional Material Properties for PlastiSpan EFS Insulation				
Water Absorption Maximum	ASTM D2842	% by volume	2.0	
Dimensional Stability Maximum	ASTM D2126	% linear change	0.5	
Tensile Strength Minimum	ASTM D1623	kPa (psi)	103 (15)	

¹ PlastiSpan EFS material properties meet or exceed requirements for CAN/ULC-S701, Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering, and are third party certified under a quality listing program administered by Intertek and Intertek Code Compliance Research Report CCRR-1072 confirms compliance with the National Building Code of Canada 2010 and 2015.

² Values are minimum per 25-mm (1-inch) of thickness at mean temperature of 24 °C (75 °F).

³ Values are maximum for 25-mm (1-inch) thick samples with natural skins intact. Lower values will result for thicker materials.

⁴ The water absorption laboratory test method involves complete submersion under a head of water for 96 hours. The water absorption value above is applicable to specific end-use design requirements only to the extent that the end-use conditions are similar to test method requirements.



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The dimensions, dimensional tolerances and block aging requirement for PlastiSpan EFS insulation meet requirements specified in of CAN/ULC-S701, ANNEX A - Expanded Polystyrene (EPS) Thermal Insulation Requirements For Use In Exterior Insulation and Finish Systems (EIFS) as detailed in Tables 2 and 3 below.

Table 2 - Dimensions and Dimensional Tolerances

CAN/ULC-S701, Annex A – Standard Dimensions			
Length	1219.2 mm (48)		
Width	609.6 mm (24 inches)		
Thickness	19.1 to 127.0 mm (3/4 to 5 inches)		
CAN/ULC-S701, Annex A – Dimensional Tolerances			
Length	±1.6 mm (±1/16 inch)		
Width	±1.6 mm (±1/16 inch)		
Thickness	19.1 to 25.4 (3/4 to 1 inch)	-0/+1.6 mm (-0/+1/16 inch)	
HIICKHESS	>25.4 to 127.0 mm (>1 to 5 inch)	±1.6 mm (±1/16 inch)	
Squareness	When measured on the large flat face from one corner to the opposing corner, dimensional variations shall not exceed 0.8 mm (1/32 in.) in 305 mm (12 in.)		
Edge Trueness	When measured with a straight edge, edges shall not deviate more than 0.8 mm (1/32 in.) in 305 mm (12 inch)		
Face Flatness	When measured across the face with a straight edge, maximum deviation from the straight edge shall not exceed more than 0.8 mm (1/32 in.)		

Table 3 - Block Aging Requirements Prior to Cutting

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Storage Condition	Average Temperature	Minimum Storage Period
Low Pentane (<4.5% pentane) Raw Materials and Vacuum Mould Technology		
Plant Aging	Ambient Temperature 20 °C (68 °F) and RH	12 Days
Full Pentane (nominal 6% pentane) Raw Materials and Vacuum Mould Technology		
Plant Aging	Ambient Temperature 20 °C (68 °F) and RH	18 Days
Full Pentane (nominal 6% pentane) Raw Materials and Non-Vacuum Mould Technology		
Plant Aging	Ambient Temperature 20 °C (68 °F) and RH	42 Days
Heat Aging	Elevated Temperature 60 °C (140 °F)	5 Days

The flame spread rating and smoke developed classification for *PlastiSpan EFS* insulation is determined in accordance with CAN/ULC-S102.2-M as per National Building Code of Canada 2010 and 2015. The flame spread rating and smoke developed classification in Table 4 are third party certified under a quality listing program administered by Intertek Testing Services.

Table 4 - Flame-Spread Rating and Smoke Developed Classification

Material Properties	CAN/ULC-S102.2
Flame Spread Rating	290
Smoke Developed Classification	Over 500