



Brigade Board EPS (expanded polystyrene) is a cost-effective, durable, and energy efficient solution for all siding insulation applications.

Brigade Board EPS is manufactured to Quality Control Program standards monitored by Underwriters Laboratories, Inc. and meets ASTM C578, "Standard Specification for Rigid Cellular Polystyrene Thermal Insulation".

Brigade Board:

Thermal Performance of the insulation as determined in general accordance with ASTM C1363-5

Siding Profile:	R-Value
D5.0" Dutch Lap	2.96
D4.5" Dutch Lap	2.86
D4.5" Traditional	2.34

A system R-value for a wall system with Brigade Board will be greater than the R-value stated above.

Additional benefits of Brigade Board insulated system:

1. No long term R-value loss or thermal draft
2. Reduces outside noise
3. Treated with a safe additive that resists termites

Flammability:

Brigade Board is fabricated from modified Expandable Polystyrene, which is treated with a fire retardant chemical and will not support combustion. Although "Modified EPS" contains a flame-retardant agent, it is an organic material and should therefore be considered flammable if exposed to an open flame or ignition source.

Brigade Board EPS Properties			
Nominal Density ASTM C303	lb/ft ³ (kg/m ³)	1.00 (16)	
Density. Min. ASTM C303	lb/ft ³ (kg/m ³)	0.90 (1.5)	
R-value ¹ Thermal Resistance per 1.0 in. thickness ASTM C518	25°F	^o F.ft. ² /Btu (^o K.m ² /W)	4.4 (0.77)
	40°F	^o F.ft. ² /Btu (^o K.m ² /W)	4.2 (0.73)
	75°F	^o F.ft. ² /Btu (^o K.m ² /W)	3.9 (0.68)
Compressive Strength @ 10% deformation, min. ATM D1621	psi (kPa)	10 (69)	
Flexural Strength, min. ASTM C203, Procedure B	psi (kPa)	25 (173)	
Water Vapor Permeance of 1.0 in. thickness, max., perm ASTM E96		5.0	
Water Absorption by total immersion, max., volume % ASTM C272		4.0	
Flame Spread Index Smoke Developed Index ASTM E84/UL723		20 150-300	

¹Please refer to ASTM C578 for minimum R-values.