



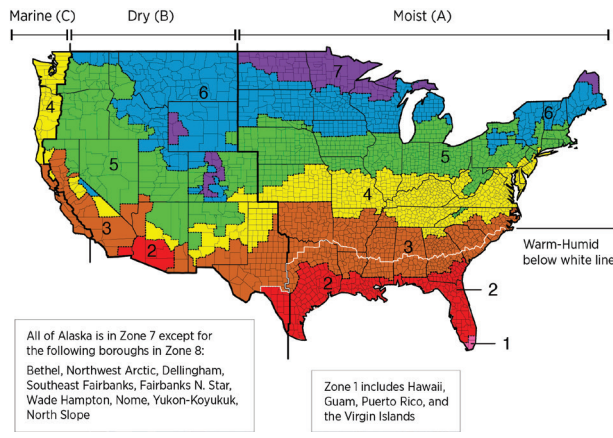
# TECHNICAL DATA SHEET

GPS Test Results per ASTM C578			
Property	Units	Type VIII	Standard
Density (U.S) Minimum Requirements	lbs/ft <sup>3</sup>	1.15	ASTM D1622
Thermal Resistance of 1" thick Exterra	F x ft <sup>2</sup> x h/Btu 75 <sup>±2</sup> °F F x ft <sup>2</sup> x h/Btu @ 40 <sup>±2</sup> °F	5.0, 5.2	Exceeds ASTM C518 Minimum requirements
Compressive Resistance at yield of 10% deformation	psi	14	ASTM D1621
Water Vapor Permeance	perms	>1	ASTM E96
Water Absorption by Total Immersion	Volume %	1.1	ASTM C272
Flexural Strength	psi	30	ASTM C203
Dimensional Stability (Change in Dimensions)	%Change	2.0	ASTM D2126
Surface Burning Characteristics	Flame Spread Smoke Development	< 5 < 25	ASTM E84
Chemical Resistance BASF TI 120 Resistance to chemicals	Insensitive to water, the majority of acids and alkalis; sensitive to organic solvents.		
Biological Behavior	No harmful Effects on health known		

\*ASTM E-84 not required of ASTM C578  
\*\* Not included in ASTM

Product	Standard Thickness <sup>1</sup>	Standard Dimensions	R-Value <sup>2,3</sup>	Compressive Strength
Exterra <sup>1</sup>	$\frac{9}{16}$ " , $1\frac{1}{16}$ " , $1\frac{5}{8}$ " , $2\frac{1}{8}$ "	4' x 8'	R3, R5, R7.5, R10	14 psi
<sup>1</sup> Board thickness (+/- $\frac{1}{16}$ " ) <sup>2</sup> R-Value is R5 per nominal 1Inch ( $1\frac{1}{16}$ " ) Laminated with poly/metal facers. Laminated facers are perforated unless requested unperforated. Custom sizes are available. Upon request, HALO Products are available with a termite preventative additive.				

<sup>3</sup>When using a poly/metal facer, an additional 2.8 R-Value can be achieved with a 3/4 inch air space between foam insulation and final cladding



Climate Zone	2009 IECC	2012 IECC	2015 IECC
1	13	13	13
2	13	13	13
3	13	20 or 13+5	20 or 13+5
4	13	20 or 13+5	20 or 13+5
4+5	20 or 13+5	20 or 13+5	20 or 13+5
6	20 or 13+5	20+5 or 13+10	20+5 or 13+10
7+8	21	20+5 or 13+10	20+5 or 13+10

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