

ThermalBuck™ Technical Specifications



ThermalBuck High-Performance ROESE
Rough Opening Extension Support Element

ThermalBuck both extends and insulates the mounting points of windows & doors to meet the continuous insulation and/or rainscreen plane. It limits thermal bridging in the building envelope, and creates a flush plane for cladding attachment.

Technical Data: Applicable Standards & Corresponding Physical Properties

PROPERTY	ASTM TESTING	VALUE	TEST METHOD
Compressive Strength	@10% deformation	52.4 psi	ASTM C165
Design Pressure	+203.01 psf	<0.5 mm (0.02")	ASTM E330/E330M
Design Pressure	-203.01 psf	<0.8 mm (0.03")	ASTM E330/E330M
Structural Pressure	±300.76 psf	<0.3 mm (<0.01")	ASTM E330/E330M
Water Penetration	9.19 psf	PASS	ASTM E547
Air Infiltration	1.57 psf	<0.01 cfm/ft ²	ASTM E283
Air Infiltration	6.24 psf	<0.01 cfm/ft ²	ASTM E283
Burn Test	Class A or 1 Fire Rating	FS<25, SD<450	ASTM E84
Composition	Type XIV EPS with polyurethane/polyurea resin coating - contains termiticide		

Technical Data: R-Value

ESR-3753 THERMAL INSULATION
2009, 2012, 2015 & 2018 Energy Code Compliance

ThermalBuck	1.0"	1.5"	2.0"	2.5"	3.0"	3.5"	4.0"
R-Value @75°F	4.4	6.6	8.8	11	13.2	15.4	17.6
R-Value @40°F	4.8	7.2	9.6	12	14.4	16.8	19.2
R-Value @25°F	5.0	7.5	10	12.5	15	17.5	20