

THERMAL BREAK MATERIAL™ (TBM-2)

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Submittal

Job Reference

Job Name

Job Location

Submitted To

Submitted By

Date

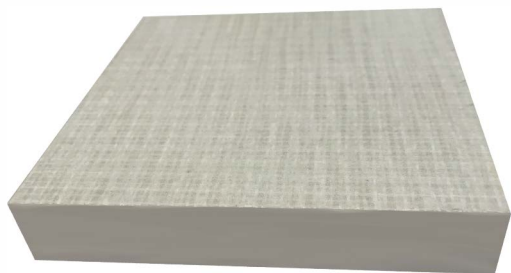
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Introduction

Thermal Break Material™ (TBM-2) reduces heat loss at cladding clip, sunshade, roof post, lintel and other structural connections.



Features and Benefits

- NON COMBUSTIBLE
- Thermal resistance of R 0.7 per inch
- 0 Flame spread, 0 Smoke index
- Mildew, mold, rot and moisture resistant
- LBC Red List Free

Standard Dimensions

Thermal Break Material™ (TBM-2) is available in the following full sheet size(s):

Nominal Dimension

Width	36"x1/4"	36 x 1/2"
Length	60"	

Width	48 "x 3/4"	48 x 1"	48 X 2"
Length	96"		

Custom Sizes Available. TBM-2 is supplied cut to size with holes for installation in the field.



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The Design Standard...

Thermal Resistance

The R-values detailed below are in accordance with ASTM C518 (Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus)

Thermal resistance (R-value) varies with thickness

<u>TBM-1 Thickness</u> (in)	<u>Thermal Resistance</u> (R-value)
1/4	.18
1/2	.35
3/4	.52
1	.7
2	1.4

Features And Benefits

Thermal Break Material™ (TBM-2) conducts heat 1,000 times less than aluminum, 270 times less than steel and 80 times less than stainless steel. For any material, conduction is a function of thickness and temperature difference, so the thickness of a thermal break material should be carefully considered.

Thermal Break Material™ TBM-2 is a reinforced, environmentally friendly, composite manufactured using non-combustible materials. The primary benefit of this thermal bridging solution is that it is non-combustible. As such, it is not necessary to conduct NFPA 285 or ASTM E119 fire rating tests (when required) when Thermal Break Material™ TBM-2 is incorporated in wall or roof assemblies.

Type TBM-2 is used as a structural thermal break in connections where a higher compressive strength thermal break is not required.

Thermal Performance

The thermal conductivity of a material is a function of its conductance and is an important value in determining the rate at which heat flows through that material. Heat flow is also dependent on area and temperature. To be effective, a thermal break has to have a much, much lower thermal conductivity than the material it is "breaking". Since the conductance of a material is a function of its thickness, both thickness and area are important in heat flow calculations for a thermal break.

Product Data

Compressive strength	ASTM D695	3,000 psi
Compressive Modulus	ASTM D695	27,000 psi
Thermal Conductivity	ASTM C518	1.4 BTU/in/hr/ft ² /°F
Flame Spread, Smoke Index	ASTM E84	0/0
Non-combustible	ASTM E136	passes



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