Materials

Global Therm

INTERIOR INSULATION

MATERIAL	OPERATING RANGE	DENSITY (AVERAGE)	K-VALUE BTU • in/(hr • ft² • °F)	FLAME SPREAD*	SMOKE DEVELOPMENT*
Polyisocyanurate	-40°F (-40°C) to 250°F (121°C)	2.0 lbs. per ft³ (32 kg/m²)	.19 @ 100°F (37.8°C) Mean Temperature	25	75-160
Fiber Glass	ambient to 850°F (454°C)**	3.0 lbs. per ft³ (48 kg/m²)	.24 @ 100°F (37.8°C) Mean Temperature	25	50
Mineral Wool	Sub-ambient to 1200°F (454°C)	8.0 lbs. per ft³ (128 kg/m²)	.30 @ 100°F (37.8°C) Mean Temperature	5	0
Calcium Silicate	450°F (232°C) to 1200°F (649°C)	14.5 lbs. per ft³ (232 kg/m²)	.41 @ 200°F (93.3°C) Mean Temperature	0	0
Expanded Perlite	ambient to 1200°F (649°C)	13.0 lbs. per ft³ (208.3 kg/m²)	.51 @ 200°F (93.3°C) Mean Temperature	0	0
Foamglas	-450°F (-268°C) to 900°F (482°C)	7.5 lbs. per ft³ (120 kg/m²)	.29 @ 75°F (23.8°C) Mean Temperature	0	0

* Flame spread and smoke development is based off ASTM 84E which is done in controlled laboratory conditions. The standard should be used to describe the property of the materials only and should not be used to describe or appraise the hazard or fire risk under actual fire conditions.

** Operating range is based on the use of 6" thick material only. Additional thickness added will reduce the manufacturer's recommended maximum operating range.

EXTERIOR JACKET

MATERIAL	THICKNESS
Aluminum	.024"
Stainless Steel	.016"
Galvalume	.019" – .024"

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