

DATA SHEET THERMOLITE



DESCRIPTION

Thermolite

Rigid insulation panel made with expanded polystyrene beads (EPS) plus a flame retardant.

For indoor and outdoor use: walls, foundations and under concrete floors.

PRODUCT DATA

Dimensions Thermolite 160

- > 2' x 8' or 4' x 8' 1" R4.05
- > 2' x 8' or 4' x 8' 1 1/4" R5.05
- > 2' x 8' or 4' x 8' 1 7/8" R7.55
- > 2' x 8' or 4' x 8' 2 1/2" R10.1

Thermolite 200, 300, other sizes and edges available on request.

EVALUATION

- > Certified INTERTEK
- > Conforms to CAN/ULC-S701 standards
- > CCMC : # 12836-L (Type II)
13526-L (Type III)

PHYSICAL PROPERTIES	ASTM TEST	UNIT	160	200	300
CAN/ULC-S701	-	-	Type II	Type II	Type III
Thermal resistance (min.)	C-518	m ² . °C/W/25mm	0,71	0,74	0,75
		hrc.in ² . °F/Btu/in	4,05	4,20	4,30
Compressive strength at 10 % deformation (min.)	D-1621	kPa	110	140	210
		lb/in ² or psi	16	20	30
Flexural strength (min.)	C-203	kPa	240	270	350
		lb/in ² or psi	35	39	50
Dimensional stability: % of linear change (max.)	D-2126	%	1.5	1.5	1.5
Coefficient of thermal expansion (max.)	D-696	mm/mm/ °C	6x10 ⁻⁵	6x10 ⁻⁵	6x10 ⁻⁵
		in/in/°F	3,5x10 ⁻⁵	3,5x10 ⁻⁵	3,5x10 ⁻⁵
Water vapor permeability (max.)	E-96	ng/Pa.s.m ²	200	130	130
		Perms	3,5	2,3	2,3
Water absorption (max.)	D-2842	%	4	3	2
Effective temperature range (max.)	Continuous / Intermittent	°C	75 / 82	75 / 82	75 / 82
		°F	167 / 180	167 / 180	167 / 180
Flame spread rating	CAN/ULC S102,2 M	-	250	250	250

GUARANTEED PERMANENT INSULATING VALUE

The thermal resistance of this type of insulation is permanent due to its closed-cell cellular structure which contains air. EPS performance does not diminish over time.

ECOLOGICAL

Contains no CFCs or HCFCs.

NOTES

EPS beads should be considered flammable when subjected to a source of intense heat or a constant strong flame. They are vulnerable to petroleum-based solvents and prolonged exposure to ultraviolet radiation. EPS must therefore be covered by a thermal barrier according to the National Building Code.