



## Insulwall TYPE I

### EXPANDED POLYSTYRENE INSULATION

- Insulwall Type 1 does not contain HFC's, CFC's or HCFC's.
- Insulwall Type 1 is 100% recyclable.
- Insulwall Type 1 has long-term thermal stability.

#### PHYSICAL PROPERTIES

Physical Property	Units Imperial	SI (metric)	ASTM Test Procedure	Insulwall TYPE 1
Thermal resistance (R-value) at 24°C (75°F)	hr.ft <sup>2</sup> . °F / Btu / 1inc	m <sup>2</sup> . °C / W / 25mm	C 177 or C 518	3.85 (0.65)
Coefficient of thermal expansion	in/in/°F	m/m°C	D 696	3.5x10 <sup>-5</sup> C <sup>-1</sup> (max) (6x10 <sup>-5</sup> C <sup>-1</sup> )
Effective temp. (continuous) range. (intermittent)	°F	°C	-	up to 75°C (167°) up to 82°C (180°)
Compressive strength (min.) at 10% deformation	psi	kPa	D 1621	10 (min) (70)
Flexural strength (min.)	psi	kPa	C 203	25 (min) (170)
Tensile strength (min.)	psi	kPa	D 1623	20 (min) (140)
Capillarity	-	-	-	none
Water vapor permeance, (max)	perm-in	ng/Pa.s.m <sup>2</sup>	C 355	4.0 (max) (300)
Water absorption % by volume, max.	%	%	D 2842	6.0 (max)
Dimensional Stability % Linear Change (max.)	%	%	D 2126-75	0.5 (max)
Shear Modulus	psi	kPa	-	280-320 (1930-2205)
Modulus of Elasticity	psi	kPa	-	180-220 (1240-1515)

1. Manufactured in compliance with CAN/ULC-S701
2. CCMC Evaluation # 12455C-L
3. CAN/ULC tested for fire resistance as per: CAN/ULC-S101-M  
CAN/ULC-S107-M  
CAN/ULC-S126-M