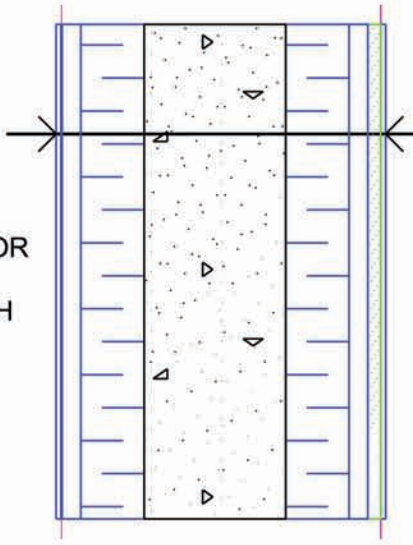
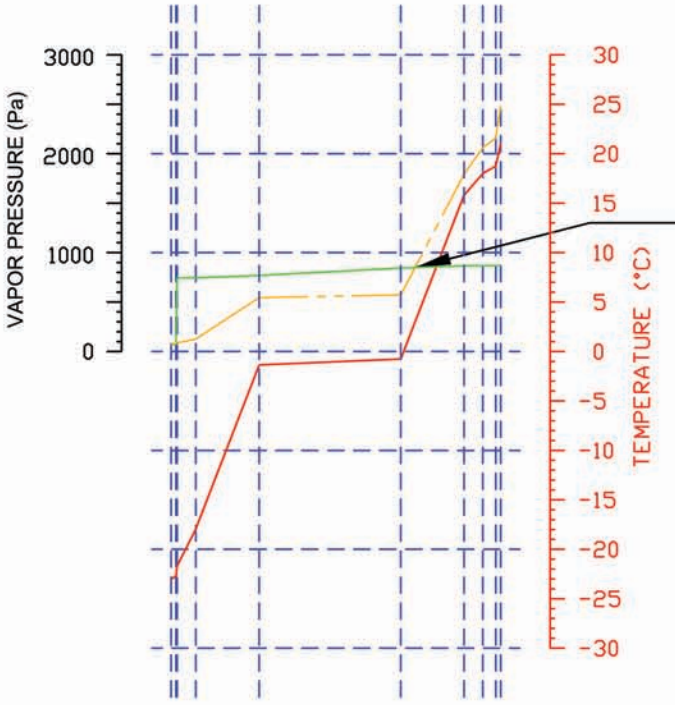


EXTERIOR
-23.0°C
90.0% RH

INTERIOR
21.0°C
35.0% RH

DESCRIPTION	RSI	R
Exterior air film	0.03	0.2
Alum. enamel clad. white mat	0.11	0.6
Air space, 3/4" (19.0 mm)	0.41	2.3
Polystyrene exp. Type II, 2.5" (64 mm)	1.79	10.2
Concrete, 5 5/8" (143 mm)	0.06	0.4
Polystyrene exp. Type II, 2.5" (64 mm)	1.79	10.2
Air space, 3/4" (19.0 mm)	0.24	1.3
Gypsum panel, 1/2" (13.0 mm)	0.08	0.5
Paint latex int. white mat	0.00	0.0
Interior air film	0.24	1.4
Total Thermal Resistance	4.75	27.0

Thermal Conductivity K = 0.2105



There is condensation in the given assembly
at this location.
The condensation rate is 2.084E-05 g/m2/sec.
or 1.800E-03 litres/m2/day.

The heat loss rate is 9.26 Watt/m2.
The dewpoint temperature is 3.0 degrees Celsius.

Legend

- Temperature
- Vapor pressure for continuity of flow
- Saturated vapor pressure

Polycrete®

TITLE

Thermal Analysis Big Block 1600 5-5/8" (143 mm)
Aluminum cladding (ext) and gypsum (int)