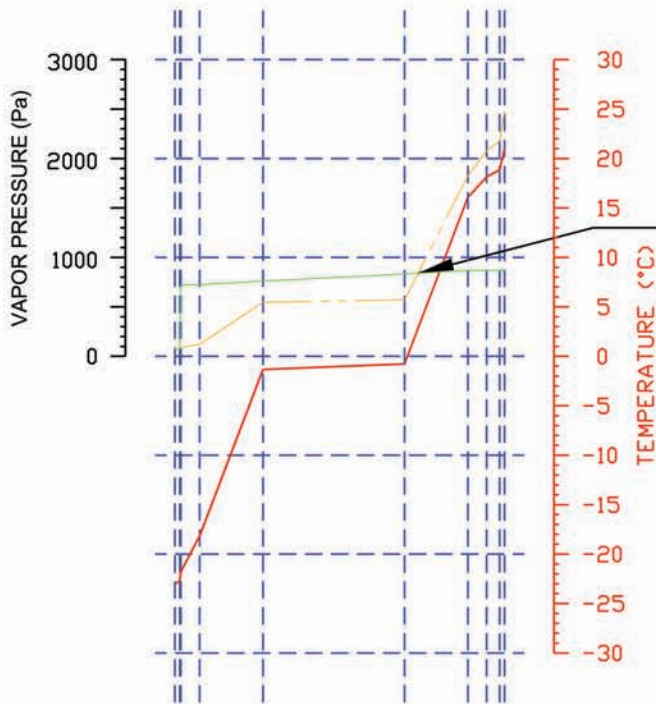


**DESCRIPTION**

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 III, 2.5" (64 mm)	1.92	10.9
Concrete, 5 5/8" (143 mm)	0.06	0.4
Polystyrene exp. Type III, 2.5" (64 mm)	1.92	10.9
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 **5.02 28.5**

Thermal Conductivity  $K = 0.1992$



There is condensation in the given assembly at this location.  
 The condensation rate is  $1.374E-05$  g/m<sup>2</sup>/sec.  
 or  $1.187E-03$  litres/m<sup>2</sup>/day.

The heat loss rate is 8.77 Watt/m<sup>2</sup>.  
 The dewpoint temperature is 2.8 degrees Celsius.

**Legend**

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



**TITLE**

Thermal analysis Flex 850 5-5/8" (143 mm)  
 Aluminum cladding (ext) and gypsum (int)