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## FOAMULAR METRIC XPS 250 - INSULATION PROPERTIES

Foamular metric xps is a closed cell extruded polystyrene insulation material. This closed cell structure gives Foamular superior moisture resistance ensuring long term thermal performance with high insulation values and compressive strength. Moisture absorption can destroy insulation values. Foamular metric is guaranteed to maintain its physical properties and a minimum of 90% thermal value for twenty (20) years

### Thermal Resistance (R value)

**FM250/25MM = R0.89**  
**FM250/30MM = R1.03**  
**FM250/50MM = R1.78**  
**FM250/75MM = R2.67**

These R values are stated as tested at 25°C as per Australian standard 1366.4 This is the R value of the material only. In many building applications other components will add to the total R value of a wall, roof or ceiling system.

R values increase as temperature lowers and standards other than the Australian may show R values tested at 10°C and even at 0°C

As an example, Foamular metric 250/50MM = R1.85 @ 10°C and R1.92 @ 0°C

### R Values of some common building materials:

Foamular metric XPS 250 /50mm	= R1.78
Expanded polystyrene 50mm, m grade	= R1.20
Brickwork, 110mm	= R0.18
Weather boards, 12 mm avg, pine	= R0.08
Fibre cement sheet, 6mm	= R0.019
Concrete slab, 2400kg/m <sup>3</sup> , 100mm	= R0.069
Plaster board, 10mm	= R0.059

### APPLICATIONS

The high long term thermal performance of Foamular Metric 250 makes it perfect for many and varied applications . Wine cellars, cool room and cold storage, render substrate, commercial and residential under slab, Poultry sheds, concrete roofing, decks and balconies. All benefit when using Foamular.