metecnotherm® PIR

Technical Data Sheet

Version 4
Current as of: 19/03/24

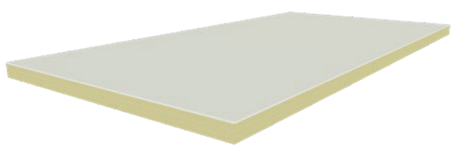
Product Description

MetecnoTherm® is an Australian made rigid thermal insulation board made from modified polyisocyanurate (PIR) core thermoset between two layers of flexible facings. Fully compliant to AS/NZ 4859.1 2018 and tested in accordance with AS/NZ 1530.3, MetecnoTherm® is used in a variety of commercial and residential construction applications to deliver optimal thermal and fire resistance outcomes and can also be used in conjunction with plasterboard and fibre cement substrates to create a composite wall and ceiling system for rapid buildability. With zero ozone depleting potential and CFC free, MetecnoTherm® is a durable, cost effective and high performance insulation solution that can be used to match or exceed all NCC thermal requirements.

MetecnoTherm® Panel Properties								
Panel Thickness (mm)	25	40	50	60	70	80	90	100
Typical Mass (kg/m²)	0.9	1.5	1.9	2.3	2.6	3.0	3.4	3.8
Declared R-value (m²K/W) at 23°C (AU)	1.05	1.70	2.15	2.55	3.00	3.40	3.85	4.30
Note: The Declared R-value is at 23°C in accordance with AS/NZS 4859.1:2018 & AS/NZS 4859.2:2018. Contact us for other temperatures.								

MetecnoThermFC® (with 6mm FC) Panel Properties								
Panel Thickness (mm)	31	46	56	66	76	86	96	106
Typical Mass (kg/m²) based on 6mm FC	10.4	11.0	11.4	11.8	12.1	12.5	12.9	13.3
Declared R-value (m²K/W) at 23°C (AU)	1.10	1.70	2.15	2.60	3.00	3.45	3.90	4.30
Note: The Declared R-value is at 23°C in accordance with AS/NZS 4859.1:2018 & AS/NZS 4859.2:2018. Contact us for other temperatures.								

MetecnoThermPB® (with 10mm PB) Panel Properties								
Panel Thickness (mm)	35	50	60	70	80	90	100	110
Typical Mass (kg/m²) based on 10mm PB	6.6	7.2	7.6	8.0	8.3	8.7	9.1	9.5
Declared R-value (m²K/W) at 23°C (AU)	1.10	1.75	2.20	2.60	3.05	3.50	3.90	4.35
Note: The Declared R-value is at 23°C in accordance with AS/NZS 4859.1:2018 & AS/NZS 4859.2:2018. Contact us for other temperatures.								



Core	PIR (Fire-retardant Polyisocyanurate)
Width (cover mm)	1200
Thickness (mm)	MetecnoTherm® - 25 to 100 in 5mm increments MetecnoThermFC® - 29.5 to 104.5 in 5mm increments (with 4.5mm FC) MetecnoThermFC® - 31 to 106 in 5mm increments (with 6.0mm FC) MetecnoThermPB® - 35 to 110 in 5mm increments (with 10mm PB) MetecnoThermPB® - 38 to 113 in 5mm increments (with 13mm PB)
Length	2.4m (other length available on request)
External Material	Embossed Foil, Paper, Coated Glass Fibre
Internal Material	MetecnoTherm® - Embossed Foil, Paper, Coated Glass Fibre MetecnoThermFC® - 4.5mm, 6.0mm Fibre Cement MetecnoThermPB® - 10mm, 13mm Plasterboard
Acoustic Properties	MetecnoThermFC® - Rw 26 (with 4.5mm FC) MetecnoThermFC® - Rw 27 (with 6.0mm FC) MetecnoThermPB® - Rw 27 (with10mm or 13mm PB)
Material Group Numbers	MetecnoTherm® - Group 2 MetecnoThermFC® - Group 1 MetecnoThermPB® - Group 1
Environmental	Zero Ozone Depleting Potential (ODP)
Fire hazard properties	AS/NZS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	1
Compressive Strength	>100kPa

NOTES:
1. Required Group Number must be specified on the order.

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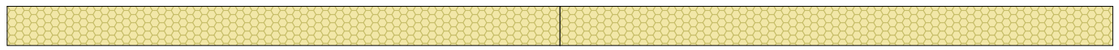
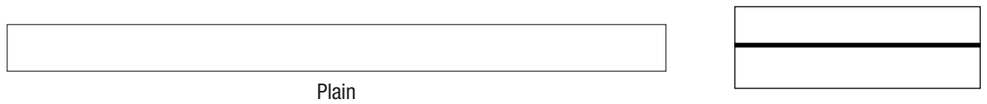
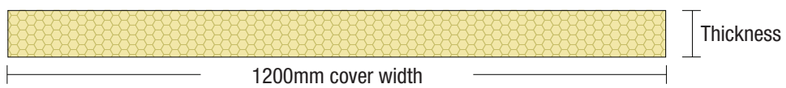
Joint



Profiles



Dimensions



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