



BLUECHIP

Insulation & Membranes

IROCK

Product Brochure

www.bluechipgroup.net.au



IROCK

Non-combustible Insulation

Description

IROCK non-combustible insulation is a thermal and acoustic stonewool insulation material widely used in both external and internal wall applications that require high levels of fire safety and thermal performance. IROCK is manufactured by spinning a molten mixture of natural rock materials and other additives to create fine wool-like fibres which are bonded together using a thermoset resin to form a rigid insulation board. Compliant with all aspects of NCC 2022 fire requirements, IROCK offers excellent long-term ageing performance and superior resistance to water absorption compared to other common insulation materials.

Product Benefits



NON-COMBUSTIBLE

IROCK is deemed non-combustible when tested to AS 1530.1 meaning it is compliant for use in external walls and cladding systems where insulation is required to be non-combustible for buildings of types A & B construction.



COST EFFECTIVE

With a nominal thermal conductivity of 0.036 W/mK and a very economical price-point, IROCK offers excellent thermal efficiency for minimal upfront cost along with life-cycle energy savings for the building.



MOISTURE RESISTANT

Although it is not suitable for permanent immersion or exposure to drenching, IROCK insulation board's thermal performance will not be adversely affected by condensation or contact with liquid water.



ENVIRONMENTALLY FRIENDLY

Largely manufactured from recycled materials and natural rock, IROCK is environmentally friendly as an initial product. It also offers numerous environmental benefits in application as thermal insulation.



EXCELLENT ACOUSTIC PERFORMANCE

Along with excellent fire safety and thermal performance, IROCK also provides an excellent acoustic performance of NRC >1.0 in accordance with ISO 354-2006 providing an ideal solution for party walls.



NCC 2022 COMPLIANT

NCC 2022 Clause C2D10 specifically requires all components of external walls including cladding, insulation and framing to be non-combustible and IROCK is one of only a few materials that meet this criteria.



LIGHT-WEIGHT & DURABLE

IROCK non-combustible insulation boards are both very lightweight and highly durable for safe hassle-free handling onsite and they can be easily cut and formed to suit almost any application.



SUPERIOR AGEING PERFORMANCE

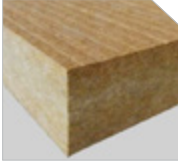
Unlike low density batts which tend to slump in vertical applications or PIR and phenolic insulation which lose thermal performance over time, IROCK is anti-slump and has excellent long-term ageing performance.

INSTALL & TECHNICAL

For installation and technical information, scan the QR code and view 'Downloads' tab.



Product Range with Bicep Facade System



IROCK
AS 1530.1 Insulation



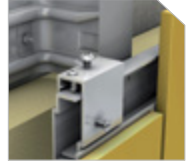
IROCK + BICEP
Horizontal System



IROCK + BICEP
Vertical System



IROCK + BICEP
Visible-fix System



IROCK + BICEP
Concealed-fix System

Availability

CODE	R-VALUE	DESCRIPTION	LEAD TIME	MOQ
IR301206	R0.83	IROCK 30mm Stonewool Insulation, 1200 x 600mm	8-10 Weeks	2,160m ²
IR401206	R1.11	IROCK 40mm Stonewool Insulation, 1200 x 600mm	Stock	8 Boards
IR501206	R1.39	IROCK 50mm Stonewool Insulation, 1200 x 600mm	8-10 Weeks	1,368m ²
IR601206	R1.67	IROCK 60mm Stonewool Insulation, 1200 x 600mm	Stock	5 Boards
IR801206	R2.22	IROCK 80mm Stonewool Insulation, 1200 x 600mm	Stock	4 Boards
IR1001206	R2.78	IROCK 100mm Stonewool Insulation, 1200 x 600mm	Stock	8 Boards
IR1201206	R3.33	IROCK 120mm Stonewool Insulation, 1200 x 600mm	Stock	5 Boards

Technical Data

TEST ITEM	STANDARD	RESULT
Thermal Conductivity	ASTM C518	0.036 W/mK
Acoustic Performance	ISO 354-2006	1.0 NRC
Non-combustible	AS 1530.1	Pass*
Group Fire Rating	AS 5637.1	1**
Average Specific Extinction	AS 5637.1	<250 m ² /kg**
Spread of Flame Index	AS 1530.3	0***
Smoke Developed Index	AS 1530.3	0-1***
Material Density	Actual	100 kg/m ³
Maximum Service Temperature	Actual	>850°C
Melting Temperature	Actual	>1000°C
Water Absorption	EN 1609	<1.1%
Vapour Permeability	ASTM E96	Class 4

*IROCK, when tested to AS 1530.1, is deemed non-combustible meaning it can be used in all external walls and facade applications.
 **IROCK, when tested as per AS 5637.1, achieves a Group 1 rating and an average specific extinction of <250 m²/kg meaning it can be used in all internal wall and lining applications.
 ***IROCK, when tested to AS 1530.3, achieves a spread-of-flame index of 0 and a smoke-developed index <5 meaning it can be used in all other insulation applications.



We've Got It Covered



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