



## SPECIFICATION TEMPLATE

IROCK Non-combustible Insulation – Exterior Façade, Cavity, Soffit & Frame Wall Application

### Insulation Material:

The insulation material shall be IROCK \_\_\_\_ mm thick mineral wool insulation boards, with a thermal value of R\_\_\_\_, manufactured by spinning a molten mixture of natural rock and other additives to create fine wool-like fibres which are bonded together to form a rigid non-combustible insulation board, tested in accordance with the relevant AS/NZ standards to comply with the BCA/NCC and supplied by Blue Chip Group Pty Ltd (Ph: 1300 945 123).

**\*\*NO ALTERNATIVE MATERIALS WILL BE ACCEPTED FOR THIS PROJECT\*\***

### Fire Properties:

IROCK is a Deemed-to-Satisfy non-combustible material when tested to AS1530.1 and AS1530.3 as per the requirements of NCC 2019 Clause C1.9 and NCC 2022 Clause C2D10. Furthermore, it achieves a Group 1 rating when tested to AS 3837 as per AS 5637.

ITEM	TEST STANDARD	UNIT	RESULT
Non-combustible	AS 1530.1	CSIRO	Pass
Ignitability Index	AS 1530.3	AWTA	0
Spread of Flame Index	AS 1530.3	AWTA	0
Heat Evolved Index	AS 1530.3	AWTA	0
Smoke Developed Index	AS 1530.3	AWTA	0-1
Group Rating	AS 5637.1	AWTA	1
Average Specific Extinction Area	AS 5637.1	AWTA	<250 m2/kg

### Physical Properties:

- Bulk Density:  $\pm 100 \text{ kg/m}^3$
- Compressive Strength:  $\geq 10 \text{ KN/m}^2$
- Service Temperature:  $< 750^\circ\text{C}$
- Melting Temperature:  $< 1000^\circ\text{C}$
- Mineral Content:  $> 95\%$
- Resin Content:  $< 5\%$
- Moisture Absorption:  $< 1.1\%$
- Vapour Permeance:  $2.72 \mu\text{g/N.s} / \text{Class 4}$
- Thermal Conductivity:  $0.036 \text{ W/mK}$
- Acoustic Performance: NRC 1.0

### Thickness & Material R-value:

IROCK (mm)	30	40	50	60	80	100	120	140
Material R-Value	0.83	1.11	1.39	1.67	2.22	2.78	3.33	3.89

### Installation:

The IROCK rigid insulation shall be installed as per manufacturers recommendations, in exterior façade system, a brick cavity wall, a plasterboard lined frame wall or to an exposed ceiling in under slab soffit applications to comply with NCC requirements. If a facer is required for aesthetic reasons in exposed applications, consider specifying IROCK PLUS with white prefinished facer.

### Warranty:

IROCK insulation to be covered by manufacturer's warranty for a minimum period of 10 years. All work to be carried out in accordance with the manufacturer's recommendations.