



SPECIFICATION TEMPLATE

IROCK PLUS Non-combustible, White-Faced Soffit Insulation

Insulation Material:

The under-slab soffit insulation shall be IROCK PLUS ____ mm thick, 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 using a thermoset resin to form a rigid non-combustible insulation board faced with a DTS non-combustible white facer and tested in accordance with the relevant AS/NZ standards to comply with the BCA/NCC and manufactured by Blue Chip Group Pty Ltd (Ph: 1300 945 123).

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

Fire Properties:

IROCK PLUS 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 (DTS) | 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: $< 1000^\circ\text{C}$
- Rockwool Content: $> 95\%$
- Resin Content : $< 5\%$
- Moisture Absorption: $< 1.1\%$
- Thermal Conductivity: 0.036W/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 PLUS non-combustible white-faced soffit insulation shall be installed as per the manufacturer's recommendations to the underside of the concrete slab in accordance with NCC requirements. If a facer is NOT required, for example, in un-exposed applications, consider specifying standard IROCK which has no facer and will provide cost savings.

Warranty:

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