

Alpolic/fr[®] specification



Alpolic/fr[®] – for a green environment

SGI Architectural

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"The aluminium composite panel shall be **Alpolic "FR"** (non-combustible mineral filled core), 4 mm or 6 mm thickness, manufactured by the Mitsubishi Chemical Corporation and distributed by SGI Architectural."

- The surface shall consist of "Fluro-polymer" based paint finish(colour)... gloss level 15%, 30%, 50% or 80% as specified.
- Paint process is a three-coat system, consisting of a primer, topcoat and clear coat with a minimum thickness of 35 micron for water front environment.
- Colour retention (ASTM D 2244-93) shall achieve a maximum rating of 5 units after 4,000 hours.
- Gloss retention (ASTM D 523-89) shall be a minimum of 70% after 4,000 hours.
- Chalk resistance (ASTM D 4214-89) maximum rating of 8 units after 4,000 hours.
- The 0.5 mm (3105-H14 Architectural grade) aluminium skins shall also consist of an inhibitive primer on the inner surfaces between the core materials to prevent possible corrosion. The reverse side shall consist of a polyester base coat to protect against possible corrosion in salt water environments.
- Delamination strength (vertical pull test ASTM C297) shall withstand 120 kg. cm².
- The core material is to be "FR" - a non-combustible mineral filled core clearing greater than 6,000 Btu (ASTM E-84).
- Conforms to Australian Standards – Australian Fire Standard AS1530 Part 3 and ISO 9705.
- The Manufacturer's Warranty shall be for 10 years (both panel and paint).
- The installation is to be carried out by the manufacturer representative's approved installers.
- Ecospecifier certified green rated product.