FR-A Type 2 Composite Panel Technical Specification Sheet

Panel build up:

Outer face: 1.5, 2 or 3mm polyester powder coated aluminium
Core: Nexus lamella stone wool 164kg/m^3
Inner face: 1.5, 2 or 3mm polyester powder coated (or mill finish) aluminium

Panels are bonded using a two-part polyurethane adhesive.

Weight: 12.4 kg/m^2 for 28mm thick panels with 1.5/1.5mm faces

14.9 kg/m^2 for 28mm thick panels with 2.0/2.0mm faces

20.0 kg/m^2 for 28mm thick panels with 3.0/3.0mm faces

Panel Tolerances: Length / width: +/-2mm. Thickness: +/- 1.0mm

U-Value: 1.43 W/m^2K for 28mm thick panels with 1.5/1.5mm faces

1.47 W/m^2K for 28mm thick panels with 2.0/2.0mm faces

1.57 W/m^2K for 28mm thick panels with 3.0/3.0mm faces

Reaction to Fire: This panel specification has been tested in accordance with the procedures given in **EN 13501-1: 2018** at the independent testing laboratory Efectis. This product (Panel Systems FR-A Type 2 Composite Panel) in relation to its reaction to fire behavior is classified **A2-s1,d0**. The panel specifications tested were: 1.5+mm PPC aluminium / 164 kg/m^3 Nexus core / 1.5+mm PPC (or mill finish) aluminium. The Siderise Nexus Core is made from European Fireclass A1 material. A separate data sheet is available upon request. The test covers panels with an overall thickness of 25 - 53mm thick.

Nexus Core: Nexus Lamella core has the following performance data:

Thermal conductivity: 0.048 W/mK

Compressive strength: 130 kPa

Note:

The information and data contained in this specification sheet do not represent exact sales specifications. The features of the products mentioned may vary. The information contained in this document has been provided in good faith, however it does not imply any liability, guarantee or assurance of product performance. It is the purchaser's responsibility to determine whether these products are suitable for the application desired and to ensure that the site of work and method of application conform with current legislation.

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