

Technical Data Sheet

StoArmour Facade Panel 50mm Autoclaved Aerated Concrete

StoArmour Facade Panel is a steel-reinforced 50mm thick Autoclaved Aerated Concrete (AAC) panel that is available 600 mm wide x 2200 mm long / 1.32 m².



Characteristics

- Area of application**
- Exterior facade panel for the StoArmour Facade Panel System.

Technical Data

- R-Value**
- 0.25 m².K/W
 - R-Value based on 14% moisture content

- Dry density**
- 510 kg/m³

- Average working density**
- 688 kg/m³

- Average service life density**
- 561 kg/m³

- Characteristic Compressive Strength**
- 2.80 MPa

- Average Compression Strength**
- 4.0 MPa

- Characteristic Modulus of Rupture**
- 0.60 MPa

Material Compliance

- StoArmour Facade Panel is routinely tested in accordance with AS 5146.2 (Reinforced Autoclaved Aerated Concrete Design) to determine the material properties of the panels.
- StoArmour Facade Panel material properties are in accordance with the following AS 5146.2 clauses:
 - Cl. 3.2.1 - AAC Density (tested to Appendix C)
 - Cl. 3.3.1 - AAC Characteristic Compressive Strength (tested to Appendix D)
 - Cl. 3.4 - Characteristic Flexural Strength (tested to Appendix E)
 - Cl. 3.7.1 - AAC Drying Shrinkage (tested to Appendix I)
 - Cl. 8.3.2 - Minimum cover to reinforcement shall be no less than 10mm

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Conditions and Limitations of Use

Refer to BRANZ Appraisal No. 772 (2020) and Sto Specifications SS506 (StoArmour Facade Panel System with StoArmat Miral Render System) or SS505 (StoArmour Facade Panel System with StoMiral Render System).

Instructions for Design/Construction/Installation

StoArmour Facade Panels must be installed in accordance with the current Sto Specifications and details. StoArmour Facade panels are installed by, or under the control of, Sto Registered Contractors.

Handling and Storage

StoArmour Facade Panels must be kept dry and preferably stored undercover. Care should be taken to avoid damage to ends, edges and surfaces. Pallets of StoArmour Facade Panel shall be braced to prevent panels tipping when unstrapped. It is recommended that a trolley or other mechanical apparatus is used to move the StoArmour Facade Panels around the work site.