

Sto Armat Render System for Monotek Sheet Construction

Product Technical Statement: 104730



StoArmat fully meshed render system for jointing and finishing Monotek Sheet Cavity Construction.

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include technical information by manufacturer and either a BRANZ or independent Appraisal or CodeMark



Sto confirms that this minimum level of assurance has been met or exceeded by the following:

BRANZ Appraisal

[488 \(2006\)](#)

Technical Statement

Product Description

The StoArmat Render System is a jointing and render system for 7.5 and 9.0 mm thick Monotek fibre cement sheet. The Monotek system incorporates a drained cavity and is designed for timber framed construction.

The StoArmat render system consists of Sto Putzgrund primer, StoArmat RFP jointing with reinforcing mesh, StoArmat Classic meshed reinforcement render, selected Stolit K or Stolit MP coloured finishing render and selected StoColor facade paint or clear sealer.

Stolit K finishing renders are available in a flat 1.0, 1.5, 2.0 or 3.0 mm aggregate. Stolit MP, MP Natural and Milano are fine pre-coloured sponge finishes.

The StoColor System comprises of 800 colours for use in architecture — or can be matched to any colour using the Sto Spectrometer to meet any colour design preference.

Stoanz Limited recommends that the selected finish colour must have a minimum Light Reflectance Value (LRV) of 35%. Where a colour with an LRV of less than 35% but above 25% is selected, two (2) coats of StoColor X-black heat reflective facade paint are required.

Using modern technology with enhanced and well-engineered materials, this render system provides a strong, durable and flexible solution for a high performance facade.

Scope of use

The StoArmat Render System has been appraised for use as a jointing and exterior render system for Monotek® Sheet on buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; and,
- with a risk score of 0-20, calculated in accordance with NZBC Acceptable Solution E2/AS1, Table 2; and,
- situated in NZS 3604 Wind Zones up to, and including Extra High.

The StoArmat Render System has also been appraised for use as a jointing and exterior render system for Monotek® Sheet on buildings subject to specific design up to an ultimate limit state (ULS) wind pressure of 2.5 kPa; and,

- constructed with timber framing subject to specific engineering design; and,
- within the scope limitations of BRANZ Appraisal No. 466 (2005) Monotek® Sheet - Cavity Construction.

Monotek® Sheet must be used, designed and installed as described in BRANZ Appraisal No. 466 (2005) and the Monotek® Sheet Technical Literature.

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- Clause B2 Durability:** Performance B2.3.1(b), B2.3.1(c)
- Clause C3 Fire affecting areas beyond the fire source:** Performance C3.7
- Clause E2 External moisture:** Performance E2.3.2
- Clause F2 Hazardous building materials:** Performance F2.3.1

Notes

The StoArmat Render System meets the requirements of Performance B2.3.1(b) 15 years for the render and jointing system, and the requirements of Performance B2.3.1(c) 5 years for the paint finish.

The StoArmat Render System will not present a health hazard to people.

Supporting Evidence



masterspec partner

Company Contact Details



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The product has and can make available the following additional evidence to support the above statements:



BRANZ Appraisal
[488 \(2006\)](#)

Product Criteria

Design requirements

The StoArmat Render System is expected to have a serviceable life of at least 15 years provided the system is maintained in accordance with the Sto Specification, Warranty and BRANZ Appraisal, and the renders are continuously protected by a weathertight coating and remain dry in service.

Monotek® Sheet must be detailed and installed in accordance with BRANZ Appraisal No. 466 (2005) and the James Hardie Monotek® Sheet Technical Literature.

The StoArmat Render System has a peak heat release rate less than 100 kW/m² and a total heat released less than 25 MJ/m². The system is suitable for use on buildings with a SH Risk Group classification, at any distance to the relevant boundary. Refer to NZBC Acceptable Solutions C/AS2 – C/AS6, Paragraph 5.8.1 for the specific exterior surface finishes requirements for other building Risk Groups.

For a breakdown of the system components, [Click Here](#).

Installation requirements

Monotek® Sheet must be used, designed and installed as described in BRANZ Appraisal No. 466 (2005) and the James Hardie Monotek® Sheet Technical Literature.

Installation and finishing of components and accessories supplied by Stoanz Limited and the Sto registered contractor must be completed by trained applicators, approved by Stoanz Limited.

Installation of the accessories supplied by the building contractor must be carried out in accordance with the StoArmat Render System Technical Literature and the BRANZ Appraisal by, or under the supervision of a Licensed Building Practitioner (LBP) with the relevant Licence Class.

Maintenance requirements

Regular maintenance is essential to ensure the performance requirements of the NZBC are continually met and to ensure the maximum serviceability of the system. Carry out an annual inspection and record this on the Sto Construction Systems Maintenance schedule.

Regular cleaning (at least annually) of the paint coating is required to remove grime, dirt and organic growth and to maximise the life and appearance of the coating. Grime may be removed by brushing with a soft brush, warm water and detergent. The paint system must be recoated at approximately 8-10 yearly intervals in accordance with Stoanz Limited instructions. Clear sealer systems require recoating at 5-7 yearly intervals.

Warrantees

With an increasing emphasis on the implementation of servicing exterior building elements, Sto has launched the StoArmat 20 Year Warranty and StoService Assurance documentation. This system, administered by Sto and carried out by Sto Contractors, ensures all specified StoArmat Rendered Systems are registered, serviced and certified every two and a half years to provide assurance that all building elements pertaining to the rendered facade are performing.

Refer to the StoArmat Warranty Document by [clicking here](#).

Company Product Information

Environmental

Protecting the natural basis for life and improving quality of life are important aims in social policy. Sto actively pursues these aims, always acting in accordance with the company's guiding principle: "Building with conscience."

In order to define and implement its ecological targets, Sto has developed a system of environmental management conforming to international standards. This relates to the entire process chain – from the procurement of the raw product, to production, packaging and logistics.

Quality Assurance



ISO 9001 (Quality Management)



Date last validated: **07 July 2020**



Date last updated: **07 July 2020**

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