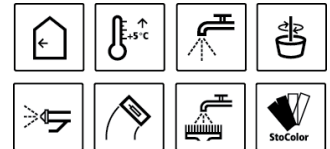


# Sto Specification New Zealand

## SS801 StoCalce Functional Interior Breathable Plaster System

**StoCalce Functional Breathable Plaster System**  
over interior masonry surfaces or plasterboard linings

**Sto Registration:** To register your project with Stoanz Ltd please email the completed specification to [info@sto.co.nz](mailto:info@sto.co.nz)



### 1. PROJECT DETAILS

**Specifier:**

**Project & Address**

**Project Owner:**

**Sto Warranty:** **StoCalce Plaster System 5-year Warranty with StoService**

**StoCalce Functional Plaster System on masonry concrete walls or plasterboard linings** This specification details the application of the **StoCalce Functional Plaster System** incorporating; preparation, **StoLevell Calce FS** basecoat of meshed reinforced plaster, with an intermediate coat of **StoLevell Calce FS** functional filler as required, finished in selected **StoCalce Active MP, K 1.5 mm or Calce FS** on interior concrete block/insitu walls or plasterboard linings.

The **StoCalce Functional Plaster System** harnesses the benefits of loam and lime to create the perfect ambient interior climate by regulating the humidity.

Note **StoLevell Calce FS** meshed basecoat plaster once dry can also be finished in a final coat of **StoLevell Calce FS** floated and sponge finished.

**Select Substrate:**

**Select Finishing Render:**

**Sto Registration Number: (Sto Use Only)**  
i.e. 23.01\_StoReg tec\_sales\_SS801\_project address

**Project Notes:** Color: refer to StoCalce Colour Range

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### 2. CONSTRUCTION & DETAILING

#### 2.1 Responsibility

All work in this section shall be the responsibility of the Main Contractor, unless previously agreed in writing. Stoanz Limited accepts no responsibility for defective workmanship in relationship to the application of the Sto system, or for defects in the design, construction, or condition of the building, either as built or in relation to the works or site conditions.

The Main Contractor is to ensure that they are fully conversant with the legislation requirements, the project specifications and details, current Sto specification and Sto details ([www.sto.co.nz](http://www.sto.co.nz)) and any specific installation requirements relating to the Main Contractor's responsibilities before any works commence. The Main Contractor is also responsible for the various subcontractors to ensure that all items relating to substrates, penetrations and dissimilar material junctions affecting the construction system are strictly in accordance with project specific details, manufactures instructions and Sto details i.e. items such as openings, lights and security fittings, electrical wiring, plumbing, membranes, dissimilar junctions etc. that abut, flash or penetrate the system. The Main Contractor shall also ensure that all work is undertaken by a registered Sto Contractor and the window and door joinery is installed in accordance with the project drawings, manufactures details and Sto details.

A **Sto Quality Assurance Document** is to be filled out as a record of the work undertaken by the Sto Contractor.

#### 2.2 Interior Masonry Concrete Blocks

The concrete block installation including reinforcement and concrete infill shall be made in strict accordance with the project drawings, specifications, and the block manufacturers technical data. The blocks must be laid in straight vertical and horizontal planes with all joinery and service openings correctly formed and waterproofed in accordance with Sto details. Control joints must be installed as per the project's structural drawings or block manufactures details to manage shrinkage and structural stress. At least 28 days shall be allowed after concrete placement for curing and stabilization to take place before commencing the Sto Interior Plaster System. The concrete blocks shall be clean, dry and free of all surface contaminants before commencing and the Main Contractor is to ensure that any adjacent areas or dissimilar surfaces next to the Sto Plaster System have been adequately detailed. Building tolerances should be within MBIE Guide to tolerances.

#### 2.3 Exterior Masonry Concrete Blocks

The exterior masonry concrete block walls and joinery openings must have been finished with a weathertight finishing system such as **StoArmat Miral Render System** or **StoProtect Clear Coating System** before commencing.

#### 2.4 Timber Frame

Timber framing must comply with NZS 3604 for buildings or parts of a building within the scope limitations of NZS 3604. Buildings or parts of a building outside the scope of NZS 3604 must be to a specific design in accordance with NZS 3603 and AS/NZS 1170. Studs must be at maximum centres with dwangs fitted flush between the studs as required by the plasterboard supplier. All framing shall be true in vertical and horizontal planes with adequate timber framing including blocking provided by the Main Contractor to facilitate lining fixings and any fixtures. Timber framing must be straight and true with all fixings flush and the moisture content must be 18% or less.

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### 2.5 Steel Frame

Refer to NASH and the plaster board manufacturers documents for steel framing construction and fixing layout.

### 2.6 Plasterboard Linings

Once the exterior is weathertight install plasterboard linings as per the plasterboard manufacturer's documents with care taken to ensure that fixing patterns are maintained, and that sheet edges are not damaged. Sheets are installed using a plasterboard adhesive and drywall screw gun with an adjustable depth gauge to ensure the screws are positioned correctly. Lining thickness is as per the project specification or as stipulated in the carpentry or wall lining section of the general specification.

- **Stopping** the installed plaster board is to be stopped and jointed in accordance with the plasterboard manufacturers instruction to achieve a level 4 finish.

### 2.7 Fire Behavior

StoCalce is suitable for interior construction in accordance with NZBC Acceptable Solution C/AS2 Table C1.1. Sto Calce has an EN 13501-1 Classification of A2-s1, d0, and can be used where a surface finish with a Group Number of 1-S is required.

## 3. STOCALCE FUNCTIONAL INTERIOR DIFFUSION PLASTER

### 3.1 Responsibility

All work in this section shall be the responsibility of the **Sto Contractor** who shall ensure that the surfaces are acceptable before commencing and that adequate protection of all dissimilar materials and adjacent surfaces has been undertaken.

### 3.2 Selection

Plastering shall be carried out in stages over correctly installed and detailed masonry or stopped and sealed plasterboard linings. incorporating: Preparation, **StoLevel Calce FS meshed** basecoat plaster on masonry surfaces or level four stopped **plasterboard linings** primed with **Sto Putzgrund primer**. On masonry surfaces apply **StoLevel Calce FS meshed** basecoat plaster to level the surface. To prepared masonry or plaster board linings apply **StoLevel Calce FS** intermediate plaster finished in **selected StoCalce Active MP or StoCalce Active K 1.5 finishing plaster**. The Sto Contractor shall assure himself that the surfaces to be rendered are acceptable dry, free of contamination and adequate protection of all dissimilar material and adjacent surfaces is in place before commencing.

Note **StoLevel Calce FS** meshed basecoat once dry can be finished in a coat of **StoLevel Calce FS** tightly floated and sponge finished.

On non-absorbent surfaces such as insitu concrete use **StoLevel Calce FS** as a bonding agent applied with an 8x8 mm notch trowel.

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### 3.3 Sealant

Any sealant junctions between the plaster and adjacent surfaces or dissimilar materials shall be jointed with compatible **MS Sealant** applied in accordance with the manufacturer's TDS sheets.

### 3.4 Penetrations

Penetrations and fixtures shall be set out prior to the plaster installation.

### 3.5 Materials

- Basecoat Render: **StoLevell Novo meshed basecoat render**
- Intermediate Plaster: **StoLevell Calce FS plaster**
- Finishing Plaster: **StoCalce Active MP or K finishing plaster**
- Finishing Plaster: **StoLevell Calce RP or FS sponged or float finish**

### 3.6 StoLevell Novo Basecoat Plaster for concrete blocks or masonry surfaces

To clean, dry concrete blocks or masonry surfaces apply one coat of **StoLevell Novo** render by hawk and trowel or pump to achieve approximate thickness of 6.0 – 8.0 mm and screed the surface with a rule to achieve an even straight plane free of hollows and deviations and while still wet lightly embed overlapping Sto mesh into the surface and apply another coat to cover the mesh and level the surface. Allow to set and remove any ridging or bumps in the basecoat with a Sto feathered straight edge or Grid Plane. Leave render to dry before subsequent plaster coats are applied. All application procedures for the **StoLevell Novo** render must be in accordance with the Sto TDS sheets.

Once the **StoLevell Novo** render is dry apply one coat of **Stoplex W sealer** thinned with up to 20% clean water to seal the surface

### 3.7 StoLevell Calce FS Plaster for plasterboard linings, Insitu / precast concrete, StoLevell Novo basecoat

To clean, dry non-absorbent (seal with **Stoplex W sealer** as required), polished, masonry, **StoLevell Novo** base coated blocks, or stopped and primed plasterboard linings apply one (1) or two (2) coats of **StoLevell Calce FS** plaster by hawk and trowel to achieve approximate thickness of 3.0 - 5.0 mm per coat and screed the surface with a rule or butterfly to achieve an even straight plane free of hollows and deviations. Allow to set and remove any ridging or bumps in the basecoat with a Sto feathered straight edge or Grid Plane. Allow render to dry before subsequent plaster coats are applied. All application procedures for the **StoLevell Calce FS** must be in accordance with the Sto TDS sheets.

Note: **StoLevell Calce FS** can also be used as finishing plaster off the trowel or sponge finished.

### 3.8 StoCalce Active MP or K 1.5 mm Finishing Plaster

To clean, dry, **StoLevell Calce FS** plastered surfaces, apply an even coat of **selected\_StoCalce Active MP floated, sponged or adobe finished plaster, or Active K 1.5 mm, floated finishing plaster** by hawk and trowel at approximately 2.0 thick (2.0mm smooth finish up to 5.0 mm for adobe finish) to leave the selected surface finish free of voids or deviations and finish with selected style using a Marmorino trowel for a tight smooth finish, lightly sponged with judicial use of a damp sponge to raise the grain or styled in adobe pattern. All application procedures for the **StoCalce Active MP or K 1.5 mm** must be in accordance with the Sto TDS sheets.

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### 4. GENERAL NOTES

#### 4.1 Colour

As selected by the client or specifier the StoCalce range can be tinted using **StoCalce** coloured tints added into the drilled up **StoCalce Active** or **StoLevel Calce FS** wet plaster using a syringe to measure the quantity.

**Colours;** Refer to **StoCalce Color Range** or select project specific tint.

### 5. STOSERVICE

#### 5.1 StoService

The Sto Interior System must be cleaned annually to remove dust and surface contaminants any damage identified must be repaired by engaging the Sto Contractor to carry out the necessary repairs.

### 6. WARRANTY

#### 6.1 StoCalce Interior Plaster System 5-year Warranty

When the **StoCalce Interior Plaster System** is applied in accordance with the Sto specification, Sto details and Sto Quality Assurance document a warranty is available for five (5) years from the date of practical completion. This is to comply with the relevant clauses in the New Zealand Building Code for this type of building element provided the StoService maintenance requirements are followed.

The warranty is supplied by the Sto Contractor on completion of the project with the warranty issued and backed by Stoanz Limited as to the suitability of the material supplied provided that:

- a) All specified work is carried out by a registered Sto Contractor who must complete and sign off the five-year PS3 Workmanship Warranty.
- b) All work is carried out in accordance with this Specification, or any written amendments issued by Stoanz Limited.
- c) The warranty does not cover situations where the Plaster System is subjected to physical disturbance, structural movement, chemical contamination, or interference.
- d) The substrate under the render must be structurally sound. Cracks in the substrate that reflect through the render are not covered by the StoWarranty.

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### 7. DISCLAIMER

#### 7.1 Disclaimer

The information contained in this specification is based on our findings, experience, testing and certification at the revision date. End users are still responsible for establishing the suitability of the specified products regarding their intended use. No liability is undertaken for use of this information outside of Stoanz Limited parameters or for the substrates, design, construction, and project site conditions that are outside of Stoanz Limited's control. Where a Sto registered contractor applies Stoanz purchased products in accordance with the Sto Specifications, Material Technical Data Sheets and Sto Details, a Sto Material Warranty document is available, but the installation of the materials remains the responsibility of the Sto Contractor who provides the PS3 Warranty. Any warranty is conditional on the system being maintained and serviced in accordance with the StoService documentation. Stoanz reserves the right to alter or update information and formulations at any time without prior notice.