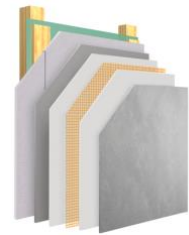
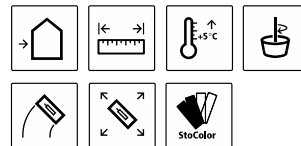


## Sto Specification New Zealand

# SS306SL StoLite Stucco over Fibre Cement Sheet Construction

**StoLite Stucco Render System** over  
 minimum 6 mm thick fibre cement sheet construction  
 BRANZ Appraisal No. 468  
 Sto Details [www.sto.co.nz](http://www.sto.co.nz)



**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 and Address:**

**Project Owner:**

**Sto Warranty:** 15-year Warranty with StoService Assurance

**StoLite Stucco Render System over fibre cement sheet cladding construction. Can also be used on Insitu concrete, block, or other masonry surfaces.**

This specification details the application of the **StoLite Stucco Render System** over a minimum of 6 mm thick fibre cement sheet on cavity battens over timber framed construction in accordance with the NZBC. The render system incorporates preparation, **LevelLite** basecoat render, **StoArmat Classic** meshed reinforcement render finished in the selected **Stolit coloured finishing render** with selected **StoColor facade paint** or **S-Protect SC sealer** on **Stolit MP** or **Stolit Milano** finishes.

**Select Finishing Render:**

**Select Facade Coating:**

**Sto Registration Number:**

i.e. 24.01\_StoReg tec\_sales\_SS306SL\_project address

**Project Notes:**

## Sto Specification New Zealand

# SS306SL StoLite Stucco over Fibre Cement Sheet Construction

## 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 legislation requirements, the project specifications and details, fibre cement sheet manufacturer's documents, current Sto specification and Sto CAD 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 sub-contractors to ensure that all items relating to weathertightness, penetrations and dissimilar material junctions affecting the exterior facade are strictly in accordance with project specific details, manufacturer's specifications and Sto CAD details, i.e. items such as roofs, soffits, openings, lights and security fittings, electrical wiring, flashings, deck membranes, dissimilar junctions etc. that abut, flash or penetrate the system. The Main Contractor shall also ensure that all exterior licensed work is carried out by LBP registered contractors and the window and door joinery is installed in accordance with the project drawings, manufacturer's details and Sto CAD details. Building tolerances should be within MBIE Guide to tolerances.

In conjunction with a fibre cement sheet installation QA, a **Sto Quality Assurance Document** is to be filled out as a record of the work undertaken by the sheet installer and Sto Contractor.

### 2.2 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 centres as required by the fibre cement sheet supplier for the relevant wind zone or wind pressure. Dwargs must be fitted flush between the studs if required by the fibre cement sheet supplier.

All framing shall be true in vertical and horizontal planes with particular attention to intersections between top plate, floor joists and bottom plate in multi-storey construction. Adequate timber framing including blocking shall be provided by the Main Contractor to facilitate cladding fixings for the designated wind zone, membrane upstands, dissimilar materials, and exterior fixtures on the cladding. The level of timber treatment shall be in accordance with the current requirements contained in NZBC Acceptable Solution B2/AS1. Generally, this will require a minimum treatment level of H1.2. The moisture content of the timber frame shall be no more than 24% prior to installing the cavity cladding system.

### 2.3 Steel Frame

Refer to the fibre cement sheet manufacturer for installation documents for steel frame construction.

### 2.4 Insulation

Thermal resistance requirements of the building envelope shall be determined using the Schedule or Calculation methods of NZBC Acceptable Solution H1/AS1 for all housing and buildings up to 300 m<sup>2</sup> and NZBC Acceptable Solution H1/AS2 for buildings greater than 300 m<sup>2</sup>, or the Modelling method in H1/VM1.

**Foundations:** Where specified, vertical edge insulation with an R -value of 1.0 m<sup>2</sup> K/W shall be installed on all exterior vertical faces of the concrete slab / foundation wall, extending from the outermost top edge down to the bottom of the footing.

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# SS306SL StoLite Stucco over Fibre Cement Sheet Construction

**Rasped XPS** sheets can be used for vertical edge insulation with 30 mm providing the required R1.0.

Refer to the StoTherm Masonry Foundation Specification for insulated foundation options.

### 2.5 Wall Underlay

A flexible wall underlay is suitable for use in NZS 3604 Wind Zones up to, and including, Very High. A rigid wall underlay is required in the Extra High Wind Zone and specific design wind pressures.

Flexible wall underlays complying with NZBC Acceptable Solution E2/AS1, Table 23 shall be installed in accordance with the underlay manufacturer's instructions. The underlay shall be installed horizontally and be continuous around corners. The underlay must be lapped minimum 75 mm at horizontal joints, and minimum 150 mm over studs at vertical joints. Where studs are at greater than 450 mm centres, a wall underlay support must be installed over the underlay at maximum 300 mm centres horizontally (or additional vertical cavity battens can be installed) to prevent bulging of the underlay into the cavity space.

Generic rigid wall underlay materials shall be installed in accordance with E2/AS1 and be overlaid with a flexible wall underlay. Proprietary systems covered by a valid BRANZ Appraisal or CodeMark Certificate shall be installed in accordance with the manufacturer's instructions. Where rigid wall underlays are used, the fibre cement sheet fixing length shall be increased by at least the thickness of the underlay.

Unlined gables or walls shall incorporate a rigid wall underlay or a flexible air barrier which meets the requirements of E2/AS1, Table 23.

**Note:** Ensure any items requiring fixing to the timber frame or items penetrating the wall underlay such as fixing brackets etc. are installed and flashing taped onto the wall underlay in accordance with E2/AS1.

### 2.6 Soffits

Shall be fixed before the cladding is installed. The top of the cavity shall be closed off with a continuous horizontal cavity batten to provide support for cladding fixings and restrict any air flow into the roof space.

### 2.7 Penetrations and Fittings - refer E2/AS1 Fig 68

Penetrations and fittings such as waste pipes, vents etc. shall slope to the exterior, be adequately supported by blocking and as required be sealed to the underlay with flexible flashing tape in accordance with E2/AS1 Fig 68, or with a proprietary penetration seal covered by a valid BRANZ Appraisal or CodeMark Certificate, prior to cladding installation. Exterior flange plates shall be installed as required around the penetration after the cladding has been installed.

Blocking must be installed for the fixing of taps, door hooks, lights, gas fittings, security alarms etc. Electrical wiring shall only penetrate the cladding and render system in a PVC conduit with a downwards rake of 5 degrees. MS sealant applied over a backing rod shall be used to seal around the conduit where it penetrates the cladding.

### 2.8 Timber Cavity Battens

All exterior wall surfaces shall be battened using H3.1 treated timber cavity battens (structural where required), placed in accordance with the batten layout as set out in the fibre cement sheet manufacturer's documents and StoLite details. A horizontal **vermin tray** shall be installed at the bottom of the cavity (minimum opening/ventilation area of 1000 mm<sup>2</sup> per lineal metre).

## Sto Specification New Zealand

### SS306SL StoLite Stucco over Fibre Cement Sheet Construction

Cavity battens shall be installed over the wall underlay to the wall frame at maximum 600 mm centres where studs are at 600 mm centres (300 mm centres when the cavity batten is being used to support a flexible wall underlay), or at 400 mm centres, where the studs are at 400 mm centres. The timber studs shall receive a cavity batten to the full length of the stud, preferably in one continuous length. Should joints be necessary, they should be tight butted with a 10 mm gap occurring at interstorey floor junctions in accordance with the StoLite details.

The cladding cavity is closed off at the top of the wall with a horizontal batten or a soffit plate on dwangs. Where studs are at 600 mm centres and there is no intermediate vertical batten, horizontal packers with a minimum 5-degree slope and minimum 50 mm gap to the vertical battens are required on the bottom plate and dwangs. Additional battens or packers may also be required at openings and detailing for fixings as per the StoLite batten layout.

**Note:** Continuous cavity heights are limited to the lesser of 2-storeys or 7 m in height before an inter-storey drained flashing joint is required.

#### 2.9 Aluminium Joinery

All joinery shall be detailed and fitted before the installation of the fibre cement cladding. Proprietary head flashings are supplied by the main contractor, shall extend minimum 20 mm past both joinery jambs, have stop ends in the cavity, a minimum 15-degree slope, and be fixed prior to installation of the fibre cement sheet with flexible flashing tape securing the flashing upstand to the wall underlay.

All window and door joinery shall be positioned 3-4 mm off the fibre cement sheet to allow for the **StoLite uPVC Jamb and Sill flashings** to clip into the joinery and be adhered in place - refer current StoLite CAD details.

**Note:** The sill flashing is cut 40 mm longer (20 mm each end) than the window so it sits up under the jamb flashings with the sill back tab hook cut back 30 mm and the jambs tab hook cut back 8 mm so it sits tight against the sill flashing (trim jamb/sill joinery rib to accommodate protruding screw heads). At the window head, the cavity is closed off with a uPVC vented cavity closure and a **Sto uPVC Clip On tray** is fitted over the fibre cement sheets (the back upstand can be snapped off) to achieve a straight line leaving a minimum 5 mm gap to the head flashing. A **Sto pre-meshed uPVC finishing edge** can be used but the sheet edges and back edge should be sealed.

**Note:** Always refer to **StoLite Stucco** details or project specific details before commencing. Air seals are required to be fitted by the window installer or the main contractor in accordance with E2/AS1, Paragraph 9.1.6, and the main contractor is to supply the aluminium head flashings.

**Sto uPVC Clip On trays** are normally supplied by the Sto Contractor and are fitted by the sheet installer. On some joinery, the sill flanges have drainage holes under the sill flange. Ensure they remain clear.

#### 2.10 Control of External Fire

The specified Sto renders have been tested to EN 13501-1 and have achieved an A2-s1, d0 rating. The StoLite Render System has been tested to ISO 5660.1 and achieved a peak heat release rate of less than 100 kW/m<sup>2</sup> and total heat released of less than 25 MJ/m<sup>2</sup>. The system is therefore suitable for use on buildings at any distance to the relevant boundary.

## Sto Specification New Zealand

# SS306SL StoLite Stucco over Fibre Cement Sheet Construction

### 3. FIBRE CEMENT SHEET INSTALLATION

#### 3.1 Responsibility

Unless expressly agreed otherwise, work in this section shall be the responsibility of the **Main Contractor**. The **Sto Contractor** is to allow for the **StoLite uPVC flashings** required and provide them to the main contractor. The Main Contractor is to familiarise themselves with the selected sheet manufacturers and StoLite details before commencing.

**Note:** All wall underlay, flashing tapes, cavity battens, cladding sheet, sheet fixings, joinery, proprietary window head flashings and vermin trays **are supplied and installed by the Main Contractor, or their nominated Sub-Contractors.**

**3.2 Select minimum 6 mm thick fibre cement sheets manufactured in accordance with AS/NZS 2908.2 and supported with a 15-year warranty from the manufacturer / supplier for exterior use, e.g. HardieFlex (supplied by James Hardie), Shera Board (supplied by Clad Solutions Ltd) or Durascape™ (supplied by BGC).**

**Note:** The fibre cement sheet is installed as per the relevant fibre cement sheet manufacturer's documents and StoLite details. **Wall underlay is not required over the sheets** and the **StoLite uPVC joinery flashings and Clip On foot trays** are to be used at joinery junctions, joinery heads, sheet terminations, corners and as a bottom tray.

The selected fibre cement sheet shall be installed using the fixing method detailed in the manufacturer's Technical Literature for the applicable wind zone or wind pressure. Fixings shall be positioned in accordance with the fibre cement sheet manufacturers layout from the sheet corners and sheet edge. Care shall be taken to ensure that fixing patterns are maintained, and that sheet edges are not damaged. Sheets should be installed in a brick pattern to avoid stress lines and be butted with a 1.0 - 2.0 mm gap at joints and 10 mm gap at the designated control joints.

Sheet thickness shall be as per the project specification or as stipulated in the carpentry or wall lining section of the general specification but must be a **minimum 6 mm thickness** with all sheets of the same type and dimensional thickness. All sheet edges shall be supported by a cavity batten over framing and care shall be taken to ensure that all framing members and battens are true and straight in both horizontal and vertical planes.

**Note:** The **StoLite uPVC ClipOn foot tray** requires the fibre cement sheet to hang down minimum **35 mm past the cavity batten** (50 mm below bottom plate) though the **ClipOn** back can snap off at **15 mm** for window heads etc.

#### 3.3 Sheet Fixings

The Contractor shall ensure that all fixings are appropriately sized hot dip galvanised in accordance with AS/NZS 4680 or Grade 316 / 304 stainless steel angular grooved fixings (as determined by the manufacturer, site location and exposure zone), driven to secure the sheet in accordance with the sheet manufacturers specifications. **Do not over drive nail fixings into the sheets.**

#### 3.4 Back-Priming

Back-priming of sheets must be carried out in accordance with the sheet manufacturer's requirements. The Main Contractor shall be responsible for back priming of sheets with an acrylic primer prior to their installation.

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### 3.5 Soffits

Allow a 2-4 mm clearance gap between the fibre cement sheet and the soffit material to accommodate a 6-8 mm continuous bead of **MS Sealant**. Refer to the StoLite details.

### 3.6 Sealant

Sealant joints shall be completed using a compatible **MS Sealant** installed in accordance with the manufacturer's Technical Data Sheets. Note some manufacturers require primers on dissimilar materials, PVC etc.

### 3.7 Surface Cleaning

The installer shall ensure that all contaminants, slurry and dust is removed from the sheet surfaces on completion of installation (before rendering starts).

### 3.8 Parapet Flashings

**Metal** parapet caps shall be installed with a min 5° slope and overlap the cladding minimum 50 mm in Low, Medium and High Wind Zones, minimum 70 mm in the Very High Wind Zone, and minimum 90 mm in the Extra High Wind Zone and specific design wind pressures.

### 3.9 Control Joints and Inter-storey Junctions

Control joints and inter-storey junctions as required by the project drawings shall be incorporated into the sheet fixing layout. All control joint positions must be mirrored through the render system and be installed by the Sto Contractor in the **StoArmat Classic** meshed render coat using the **Sto uPVC 8 mm Control Joints** for vertical joints and **Sto uPVC 12mm Control Joints** for horizontal joints. Ensure joints are sealed with sealant and the mesh coat does not overlay the control joint V. **Vertical** control joints are required at maximum 5.4 m centres horizontally, preferably above door joinery openings. **Horizontal** control joints are required at inter-storey floor levels or every 5.4 m centres vertically on continuous studs (excluding gables).

Drained inter-storey junctions shall be constructed to limit continuous cavities to the lesser of 2-storeys or 7 m in height, in accordance with the requirements of NZBC Acceptable Solutions E2/AS1, Paragraph 9.1.9.4(b).

### 3.10 Architectural Shapes & Profiles

Architectural shapes used to create decorative detailing shall be correctly cut to size and fitted using **StoFlexyl mortar** notch-trowelled to the back of the shape prior to placing. As required, construction fixings are used to mechanically fix large or heavy shapes. Joints are butted together using **StoFlexyl**, and any control joints must be mirrored through the profile. Profiles shall be pre-meshed or receive a Sto mesh coat and are placed after the wall mesh coat with the perimeter edges meshed to the wall unless the bottom edge covers a control / interstorey joint.

**MAIN CONTRACTOR and ALL TRADES INVOLVED IN ANY EXTERIOR WORK are required to familiarise themselves with the StoLite installation details and requirements before works commence to ascertain their obligations. For StoLite CAD details, visit [www.sto.co.nz](http://www.sto.co.nz).**

## Sto Specification New Zealand

# SS306SL StoLite Stucco over Fibre Cement Sheet Construction

### 4. STOLITE RENDER SYSTEM

#### 4.1 Responsibility

All work in this section shall be the responsibility of the **Sto Contractor** who must assure themselves that the surfaces to be rendered are dry, free of contamination and satisfactory before work commences. Adequate protection of all adjacent surfaces shall be undertaken prior to commencing.

**Note: Ensure the surfaces of all fibre cement sheets have been cleaned before commencing.**

#### 4.2 Selection

Rendering shall be carried out in stages over correctly installed and detailed sheets incorporating: **LevelLite** basecoat render, **StoArmat Classic** mesh reinforced render finished with the **selected Stolit** coloured finishing render, coated with the **selected StoColor** facade paint or **S-Protect SC** clear sealer on **Stolit MP** or **Stolit Milano**.

#### 4.3 Materials

Stoanz Ltd supplies all the following materials:

<b>Stoanz LevelLite basecoat render with adhesive mesh over sheet joints</b>	<b>StoArmat Classic reinforcement render</b>
<b>Selected Stolit coloured finishing renders</b>	<b>Sto uPVC pre meshed corner angles, finishing edges and drip edges.</b>
<b>Selected StoColor facade paint or S-Protect sealer</b>	<b>StoFlexyl waterproofing</b>

#### 4.4 Detailing

**Sto pre-meshed uPVC corner beads** shall be installed in the **StoArmat Classic** mesh coat on corners and edges as required, unless **Sto Stainless steel angles** have been used. All fixing and installation of the **Sto uPVC flashings, finishing edges, foot trays and corner beads** shall be in accordance with StoLite Details.

#### 4.5 StoLite uPVC Clip On tray

The **Sto uPVC Clip On tray** is used to align the bottom edge of the fibre cement sheets at the foundations, roofs, decks, window heads and anywhere the sheets require a bottom tray. The **Sto uPVC Clip On trays** are usually installed during the installation of the fibre cement sheet by the builder (supplied by the Sto Contractor). The trays are adhered in place with construction adhesive. If required snap the back upstand at the tear tab to reduce the upstand height to 15 mm and slip behind the sheets.

#### 4.6 Joinery Flashings

At joinery edges, **Sto uPVC sill and jamb flashings** are set in **StoArmat Classic** render or construction adhesive before the installation of the LevelLite basecoat render to provide a screed line.

**Note:** Use MS sealant at jamb to head junctions and jamb to sill junctions before rendering.

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### 4.7 Meshing Sheet Joints

Reinforce any stress points and all fibre cement sheet joints with 150 mm wide **Sto adhesive mesh** before applying the LevelLite basecoat.

### 4.8 Screed Guides

As required, set 8 mm EPS screed guides for the **LevelLite** basecoat, with stainless steel angles on external corners. Install Sto uPVC joinery flashings and the Sto uPVC ClipOn Tray at joinery heads and around the base of the fibre cement sheet.

### 4.9 LevelLite Basecoat Render

To clean, dry, fibre cement sheets incorporating Sto uPVC flashings, foot trays, stainless steel corner beads and 8 mm EPS screed guides as required, apply the **LevelLite** basecoat render by hawk and trowel or pump at 8 mm thick, closing off wet render with an h shaped rule. Allow to set before levelling the **LevelLite** with a feathered straight edge to achieve a flat surface free of hollows and deviations. Once the basecoat has set, remove the screed guides **excluding** those at the soffits, and fill with LevelLite basecoat. Remove any ridging or deviations in the basecoat surface with a Grater plane while the render is still green and leave to dry.

### 4.10 Balustrade Caps

Any horizontal rendered surfaces must have a minimum 10° fall and have **StoFlexyl meshed waterproofing** membrane installed over the **LevelLite** basecoat.

On **balustrades**, **StoFlexyl** must be correctly mixed (drill mix 1:1 with **fresh** cement) and applied with a layer of Sto mesh embedded into the **StoFlexyl**, which is floated to a level surface to attain a minimum film thickness of 1.5 mm. Extend the membrane 75 mm onto all adjacent vertical surfaces (see StoLite CAD Details) and allow to dry overnight.

**Note:** **StoFlexyl meshed waterproofing** has been evaluated by BRANZ to meet the **AS/NZS 4858** waterproofing membrane requirements of E2/AS1 for waterproofing membranes used with exterior render systems.

### 4.11 StoArmat Classic Reinforcement Render

**StoArmat Classic HD with hardener for accelerated drying in cold damp weather is also available.**

To clean, dry, basecoat rendered surfaces, apply an even coat of selected **StoArmat Classic** render by hawk and trowel at approximately 2 mm thick. While the **StoArmat Classic** is still wet, lightly apply **Sto reinforcing mesh** ensuring adjacent drops of mesh are overlapped by a minimum of 75 mm. Float the surface to ensure the mesh has been embedded and allow to dry. Once dry apply a further coat of **StoArmat Classic** at approximately 1.5 mm (minimum overall DFT of 2.5 mm) by hawk and trowel to cover the mesh and leave a flat, even surface free of voids or deviations. Once dry, remove any slight ridging etc of the **StoArmat Classic** with a Sto rasp and leave ready for the finishing render. All application procedures for the **StoArmat Classic** must be in accordance with the Sto Technical Data Sheets.

**Detailing:** Install **Sto pre-meshed corner angles** and **Sto pre-meshed finishing edges and drip edges** as required.

### 4.12 Sealant

All junctions between joinery and render and around penetrations, flashings and similar details shall be sealed with a compatible **MS Sealant** applied in accordance with the manufacturers Technical Data Sheets. Some manufacturers require primers for PVC or porous substrates.



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**Note:** Some types of joinery have drainage holes under the sill flange. Ensure these remain clear. Where sealant is being applied directly over **StoFlexyl waterproofing**, the StoFlexyl must be primed to promote adhesion in accordance with the sealant manufacturer's instructions.

#### 4.13 **Stolit K Float Finishing Renders (refer to front page for selected finish)** **Stolit K texture is available in a 1.0, 1.5, 2.0 or 3.0 mm aggregate**

To all exterior plastered surfaces, apply the selected **Stolit K** coloured finishing render with a stainless-steel trowel gauging to the thickness of the aggregate size. Finish with a plastic float to the requisite pattern and allow to dry, normally overnight. The spreading rate shall be approximately 12 m<sup>2</sup> per pail (1.0 mm), 9 m<sup>2</sup> per pail (1.5 mm), 7 m<sup>2</sup> (2.0 mm) and 4 m<sup>2</sup> per pail (3.0 mm) per pail.

- **StoColor façade paint**

It is recommended that all **Stolit K** surfaces receive two (2) coats of **StoColor Maxicryl** or **StoColor Dryonic** façade paint tinted to the selected colour and applied by brush and roller at approximately 6-7 m<sup>2</sup> per litre. One (1) coat is acceptable though it will need recoating more frequently. Refer to **Section 6** for recoating requirements.

**Note:** Maintain wet edges between cutting in and roll in tight to achieve an even film build.

#### 4.14 **Stolit MP Finishing Renders (refer to front page for selected finish)** **Stolit MP fine coloured finish or MP Natural salt & pepper sand look**

**Stolit MP** and **Stolit MP Natural** are coloured finishing renders applied in two (2) coats. A basecoat of the selected **Stolit MP** or alternatively, depending on the finish, **Stolit K 1.0 mm** tinted to the selected colour, is applied, and allowed to dry. The finishing coat of **Stolit MP** or **Stolit MP Natural** is then applied, float finished and randomly lightly sponged. Alternatively, the finish can be float finished, sponged, or smooth finished with a stainless steel Marmorino trowel to the selected pattern. The spreading rate of the **Stolit MP** and **Stolit MP Natural** is approximately 12-14 m<sup>2</sup> per pail.

- **S-Protect SC Invisible Silane sealer (clear sealer)**

To **Stolit MP** or **Stolit MP Natural**, apply an even coat of **S-Protect SC** hydrophobic sealer (clear invisible silane sealer) in a flood coat using a low-pressure sprayer and Sto block brush to work the product into the Stolit render, avoiding runs and brushing in any lingering drips etc. so they don't show up. Surfaces must be well coated, and it's recommended to work in a pattern preferably out of the sun to ensure that there are no misses as the sealer is invisible once dry.

**Note:** All joinery, glazing and adjacent surfaces must be masked off to prevent the **S-Protect SC** contaminating the surfaces. Any excess product must be removed after 15 minutes to prevent a film forming that can be difficult to remove.

**Note:** S-Protect SC requires recoating every five (5) to seven and a half (7½) years depending on the environment.

- **StoColor Façade Paint (paint finish if selected)**

If paint finish is selected, it is recommended that all **Stolit MP** surfaces receive two (2) coats of **StoColor Maxicryl** or **StoColor Dryonic** façade paint tinted to the selected colour and applied by brush and roller at approximately 6-7 m<sup>2</sup> per litre. One (1) coat is acceptable though it will need recoating more frequently. Refer to **Section 6** for recoating requirements.

**Note:** Maintain wet edges between cutting in and roll in tight to achieve an even film build.

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#### 4.15 Stolit Milano Smooth Finish Render (refer to front page for selected finish)

**Stolit Milano** is a smooth pre-coloured finish applied in two (2) or three (3) coats. A basecoat of **Stolit Milano** tinted to the selected colour is applied and allowed to dry before the finishing coat of **Stolit Milano** is applied and steel troweled, floated or lightly randomly sponged to the selected pattern. The spreading rate of the Stolit Milano is approximately 16-18 m<sup>2</sup> per pail.

- **S-Protect SC Invisible Silane sealer (clear sealer)**

To **Stolit Milano**, apply an even coat of **S-Protect SC** hydrophobic sealer (clear invisible silane sealer) in a flood coat using a low-pressure sprayer and Sto block brush to work the product into the Stolit render, avoiding runs and brushing in any lingering drips etc. so they don't show up. Surfaces must be well coated, and it's recommended to work in a pattern preferably out of the sun to ensure that there are no misses as the sealer is invisible once dry.

**Note:** All joinery, glazing and adjacent surfaces must be masked off to prevent the **S-Protect SC** contaminating the surfaces. Any excess product must be removed after 15 minutes to prevent a film forming that can be difficult to remove.

**Note:** S-Protect SC requires recoating every five (5) to seven and half (7½) years depending on the environment.

## 5. GENERAL NOTES

### 5.1 Colour

As selected by the client or specifier. Stoanz Limited recommends that the selected colour must have a minimum Light Reflectance Value (LRV) of 35%. Where a colour less than 35% LRV but above 25% is selected, the render system should be finished with two coats of **StoColor Dryonic**, a **Sto iQ coating** with **X-Black technology additive** to avoid thermal stress.

**StoColor Dryonic façade paint** with **Sun blocker** and **fast dry film biomimetics** is available in the StoColor range. Other colours are available depending on formulation availability.

## 6. STOSERVICE ASSURANCE

### 6.1 StoService - Refer to StoService Documents for a Comprehensive Guide

It is the owner's responsibility to clean the Sto System annually by low pressure washing or hosing down to remove surface contaminants with special attention to sheltered areas (as required, use a proprietary house wash sprayed on first with a low-pressure garden spray in accordance with the manufacturer's instructions). The owner is also responsible for organising the maintenance in accordance with the 3-yearly StoService Schedule available online at [www.sto.co.nz](http://www.sto.co.nz).

After cleaning, a visual inspection is to be completed by the person undertaking the annual maintenance to check for any physical damage or faults in the exterior building elements, and to ensure any damage or defects are identified and repaired.

To assist the property owner in establishing a regular maintenance cycle, the property owners email address can be registered with [service@sto.co.nz](mailto:service@sto.co.nz). Stoanz Limited will then provide 2½ yearly reminder notices that the property is due for the 3-yearly StoService.

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Depending on the prevailing environmental conditions and the service record, recoating of the paint finish is normally required at 10-12½ years where two coats of paint were applied, or 8-years where one coat of paint or S-Protect Silane was applied, to maintain long-term integrity. This is carried out using a **Sto Coating System** applied in accordance with a Sto specification. Where a colour change is required, Stoanz Limited should be consulted.

#### 7. WARRANTY

##### 7.1 15-year Warranty with Sto Service Assurance

When the **StoLite Render System** is applied in accordance with the Sto specification, Sto details and Sto PS3 Quality Assurance schedule, a warranty is available for the Sto system for fifteen (15) years from the date of practical completion, provided maintenance requirements as set out in the StoService Schedule are followed.

This is to comply with the relevant clauses in the New Zealand Building Code for this type of building element.

The Sto Warranty is supplied by Stoanz Limited to the Sto Contractor who signs off the work on completion of the project. Stoanz Limited confirms the materials supplied have been appraised and are fit for purpose provided that:

- (a) All specified work is carried out by a registered Sto Contractor who must complete the Sto Quality Assurance Schedule, submit the Sto Warranty Request, 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 render system is subjected to damage, physical disturbance, chemical contamination, stress fractures, structural movement, or interference.

#### 8. DISCLAIMER

##### 8.1 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.