

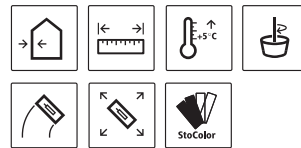
Sto Specification New Zealand

SS604 Stolit Bag Wash on New or Existing Brick / Block work

Sto Bag Wash System over new or existing Brick or Block work

CAD Details www.sto.co.nz

Sto Registration: To register your project with Stoanz Ltd please email the completed specification to info@sto.co.nz



1. PROJECT DETAILS

Specifier:

Project and Address:

Project Owner:

Sto Warranty: **Sto 10-year Warranty with StoService Assurance**

Stolit Bag Wash System on New or Existing Brick or Block work:

This specification details the **Stolit Bag Wash System** on new or existing brick veneer or block work incorporating: Preparation, **Sto Putzgrund** primer, finished in **selected Stolit** coloured finishing render coated with **selected StoColor** facade paint or clear sealer.

Select Finishing Render:

Select Facade Coating:

Sto Registration Number: (Sto Use Only)

i.e. 20.01_StoReg tec_sales_SS604_project address

Project Notes:

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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.

The Main Contractor is to ensure that they are fully conversant with exterior legislation requirements, the project specifications and details, current Sto specification and Sto CAD details (www.sto.co.nz) and any specific installation requirements relating to the Main Contractor's responsibilities before any works commence. The Main Contractor is responsible for the various subcontractors to ensure that all items relating to weathertightness, penetrations and dissimilar material junctions affecting the construction system are strictly in accordance with project specific details, manufacturer's instructions 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 joinery is installed in accordance with the project drawings, manufacturer's details and Sto CAD details.

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

2.2 Timber Construction

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.

2.3 Steel Frame

Steel framing must be to a specific design meeting the requirements of the NZBC.

2.4 Concrete Blocks

The concrete block installation including reinforcement and concrete infill shall be undertaken in accordance with the project drawings, specifications, block manufacturer's technical data and CCANZ CP 01:2014. The blocks shall be laid true in both 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 manufacturer's details to manage shrinkage and structural stress. It is recommended the ground floor slab to block junction should be rebated to provide a water stop, and interstorey floors should be poured within the block structure leaving the outer block shell to continue to avoid cracking. At least 28 days shall be allowed after concrete placement as per CCANZ CP 01:2014, for curing and stabilisation to take place before commencing the Sto Render System. All maximum tolerances shall be in accordance with NZS 4210. The exterior surface shall be clean, dry, and free of all surface contaminants before commencing and the Main Contractor is to ensure that any areas or details adjacent to the Sto Render System have been adequately waterproofed or flashed to avoid any water migration behind the render system.

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2.5 Soffits

Soffits should be fixed before the brick veneer is installed. The top of the cavity shall be closed off to restrict any air flow into the roof space.

Inclined soffits require a flashing in accordance with NZBC Acceptable Solution E2/AS1. Sto Joint Seal Tape can be installed in accordance with the CAD details.

2.6 Aluminum Joinery

All windows, doors etc. shall be fitted in accordance with the project drawings and documents referencing the Sto specifications and ACAD details.

The joinery installer is to fit internal air seals to the joinery. On some joinery, the sill flanges have vents underneath ensure they remain clear.

2.9 Penetrations

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 brick installation. Exterior flange plates shall be installed as required around the penetration after the cladding has been installed.

All penetrations through the bricks shall be adequately sealed using MS Sealant installed over a backer rod. All electrical wiring etc. shall only penetrate the cladding system with the appropriately sized uPVC conduit installed at minimum 5° downward rake.

Plumbing piping should be set at a downward rake and all penetrations sealed using a compatible MS Sealant before and after rendering with flanges installed afterwards as required.

The Main Contractor is required to familiarise themselves with all of the Sto installation details before works commence to ascertain their obligations. For Sto CAD installation details, visit www.sto.co.nz.

3. NEW BRICK or BLOCK CONSTRUCTION

3.1 Responsibility

All the work in this section relating to the **Sto Bag Wash System** shall be the responsibility of the **Sto Contractor** including supplying **Sto uPVC accessories** as required. The laying of the bricks or blocks is to be undertaken by a licensed building practitioner (LBP) brick/block layer who shall sign off the finished work on completion. The contractors must ensure adequate masking / protection of all adjacent dissimilar materials is undertaken before commencing.

3.2 Rebated Concrete Foundations

A solid concrete foundation is required with a minimum 50 mm rebate below the concrete floor slab and dimensioned to allow for a minimum 40 mm cavity and brick (overhangs maximum 20 mm). The rebate is waterproofed with a brush coat of **StoFlexyl** or other approved liquid waterproofing.

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3.3 Masonry Brick & Block Construction

Installation, including reinforcement, ties, weep holes and mortar joints shall be made in strict accordance with the Brick or Block Manufacturer's Design and Installation Manual. In particular, the bricks or blocks shall be laid in accordance with the projects designated design pattern, with all joinery and services openings correctly detailed.

The manufacturer's required curing time (normally 7 days weather dependent for bricks or 28 days for concrete block) shall be allowed after placement for curing and stabilisation to take place, before application of the Sto Render System.

The bricks or blocks shall be clean and free of all surface contaminants before render commences and the mortar shall be sufficiently cured. The Main Contractor is to ensure that any areas or details adjacent to the Sto render system have been adequately waterproofed / flashed to avoid any water migration behind the Sto Render System.

3.4 Control Joints

Control joints as designated by the project drawings or engineer must be incorporated.

3.5 Sealant

All junctions between the cladding and adjacent dissimilar material surfaces shall be flashed by the main contractor, detailed and sealed using compatible **MS Polymer Sealant** over PEF rod. The sealant must be applied in accordance with the manufacturer's Technical Data Sheet.

Note: Some manufacturer's require primers for PVC or porous substrates and a primer is required on **StoFlexyl surfaces**.

Note: Some types of joinery have drainage holes under the sill flange. Ensure these remain clear.

3.6 Architectural Profiles and Shapes

Architectural shapes used to create decorative detailing shall be correctly cut to size and fitted using mixed **StoFlexyl** notch towelled to the back of the shape prior to placing. As required, construction fixings are used to mechanically fix large or heavy shapes, but care is required to avoid distortion. Joints are butted together using **StoFlexyl** and any control joints must be mirrored through the profile. Profiles shall be pre-meshed or receive a **StoArmat** mesh coat and are placed after the **StoArmat** mesh coat with perimeter edges meshed to the wall.

4. EXISTING BRICK or BLOCK CONSTRUCTION

4.1 Responsibility - Existing Building Elements

The Sto specification addresses refurbishing of the exterior surface of the substrate only all other building elements are specifically excluded from the specification. It is the responsibility of the owner or their agent to initiate a process to ensure that all the building elements are dimensionally sound, load bearing and watertight.

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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.

4.2 Existing Substrate

All existing surfaces are to be checked they are sound and load bearing; any cracks are to be cleaned out and loose or spalling render removed and repaired with the Sto concrete repair system. This work is to be carried out as a variation or PC sum unless previously identified and scheduled.

4.3 Fixtures & Fittings

The main contractor shall have removed all fittings and fixtures such as downpipes, rain-water heads, gas fittings, handrails, taps, lights etc that must be re fitted securely after the system is finished ensuring all connections are watertight. **Note:** Pipes, wiring and lights must be appropriately fitted and sealed.

5. EXISTING MASONRY PREPARATION

5.1 Responsibility

All exterior surface work in this section shall be the responsibility of the **Sto Contractor**, unless otherwise expressly agreed. The Sto Contractor check that the existing substrates and building elements are acceptable for rendering before proceeding. Adequate protection of all dissimilar materials and adjacent surfaces must be under-taken before commencing.

5.2 Chemical Treatment

All surfaces to be refurbished are to be treated with a chemical solution to remove all moss, mould spores and any contaminates ensuring the stipulated reaction times are observed before washing off all residues during the cleaning process.

5.3 Cleaning

All surfaces to be treated shall be water blasted using a 3000psi machine to remove all loose material, contaminates and debris supplemented by mechanical, chemical or hand scraping to remove all friable, defective or adhesion impairing material, etc to establish a clean sound load bearing substrate. Cracks or failed joints are to be stripped out as necessary to remove all defective material and coatings that are adhesion impairing will require removal.

Note: When using a water blaster due care must be taken to avoid the building elements or adjacent surfaces being damaged from excessive water pressure.

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6. STOLIT BAG WASH SYSTEM

6.1 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.

6.2 Selection

Rendering shall be carried out in stages over the brick veneer incorporating: Preparation, **Sto Putzgrund primer**, selected **Stolit coloured finishing render** coated in **StoColor facade paint** or **S-Protect SC sealer** on natural finishes.

6.3 Materials

Stoanz Ltd supplies all the following materials:

Sto Putzgrund primer	Selected Stolit coloured finishing render
Selected StoColor façade paint or clear sealer / coating	S-Protect SC Invisible Sealer or StoProtect Transparent

6.4 Sto Putzgrund primer

To clean, dry, prepared, surfaces, apply one full coat of **Sto Putzgrund** by brush and roller at an approximate coverage of 8m² per litre and leave to dry.

6.5 Sealant Installation

After the primer has dried, all junctions between joinery and adjacent dissimilar surfaces and around penetrations shall be sealed with **MS Sealant** in accordance with the manufacturer's Technical Data Sheets. Some manufacturers require primers for PVC or porous substrates.

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.

NOTE THE RENDER AND COATINGS BELOW REQUIRE SPECIFIC SELECTION AS PER FRONT PAGE

6.6 Stolit Finished Renders (refer to front page for selected finish)

Selection: MP or MP Natural (sponge), Milano (smooth) Stolit K 1.0, 1.5, 2.0, 3.0 mm (texture size)

Stolit coloured finishing render as selected

To all exterior primed surfaces, apply one or two coats of the selected **Stolit** coloured finishing render with a stainless-steel trowel gauging to the thickness required and finish with a block brush, sponge or sack to the requisite pattern and allow to dry normally overnight.

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6.7 StoColor façade paint (refer to front page for selected finish) StoColor Selection:

All **Stolit** surfaces shall receive a minimum two (2) coats of selected **StoColor** façade paint tinted to the selected colour and applied by brush and roller at approximately 6-7 m² per litre.

Note: Always maintain wet edges between cutting in and roll in tight to ensure an even film build is maintained. Refer **Section 8. StoService Assurance** for recoating requirements.

6.8 S-Protect SC stay clean sealer (refer to front page for selected finish)

All **Stolit** surfaces shall receive one even flood coat of **S-Protect SC stay clean** 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 and glazing must be masked off to prevent the **S-Protect SC stay clean** contaminating the joinery or glazing. Any excess product must be removed after 15 minutes to prevent a film forming that can be difficult to remove. **S-Protect SC** stay clean requires recoating every five (5) to seven and a half (7½) years depending on the environment.

6.9 StoProtect Transparent clear coating (refer to front page for selected finish)

To clean, dry, **Stolit** surfaces apply two (2) coats of **StoProtect Transparent** by brush and roller at approximately 6 -7m² per litre. Allow the first coat to dry completely before applying the second coat Always maintain wet edges when applying to prevent shadow lines, especially between cutting in and roller applications. Ensure the surface is well coated before applying the final coat.

7. GENERAL NOTES

7.1 Colour

As selected by the client or specifier. Stoanz Limited recommends that the selected colour must have a minimum Light Reflectance Value of 20%. Where a colour less than 20% LRV but above 10% is selected, two coats of **StoColor X-black** heat reflective façade paint is required. Colours selected below the recommended values will affect the warranty.

8. STOSERVICE ASSURANCE

8.1 StoService Assurance - Refer to StoService Assurance Document for a comprehensive guide

The Sto Render System shall be cleaned 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).

An annual visual inspection is to be undertaken by the owner or their agent to check for any physical damage or defects in the exterior building elements, to ensure any damage or defects are identified and repaired. Every 2½ years, the building occupier will be notified to engage the Sto Contractor to carry out a StoService inspection within the following

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six months. On completion, the Sto Contractor will issue a current StoService Certificate that will be recorded in the Sto Warranty information, so a long-term record of the service history is maintained.

Recoating of the paint finish is required at the 7½ year to 10 years depending on the environment to maintain long-term integrity. This is carried out using a **StoColor** façade paint over a cleaned surface. Where a colour change is required, Stoanz Limited should be consulted for a specific specification.

Recoating of the S-Protect SC 7½ year period depending on environmental conditions. This is to be carried out using **S-Protect SC** or **StoPur WV200** applied in accordance with a Sto specification.

9. WARRANTY

9.1 Stolit Bag Wash 10-year Warranty with StoService Assurance

When the **Stolit Bag Wash Render System** is applied in accordance with the Sto specification, Sto details and Sto PS3 Quality Assurance schedule, a warranty is available to cover the Sto System for ten (10) years from the date of practical completion. This is to comply with the relevant clauses in the New Zealand Building Code being B2 Durability, E2 External Moisture and F2 Hazardous Building Materials for this type of building element provided maintenance and service requirements as set out in the StoService Assurance documents are followed.

The ten (10) year warranty is supplied by the Sto Contractor on completion of the project and remains valid when serviced and signed off by the Sto Contractor in accordance with the StoService Assurance program. The warranty is 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 Sto Quality Assurance Schedule and the PS3 Workmanship Guarantee that is renewed on completion of the StoService checks for a period of up to ten years.
- (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 physical disturbance, chemical contamination or interference.
- (d) The brick / block substrate under the render finish must be structurally sound. Cracks in the substrate that reflect through the render are not covered by the StoWarranty.

10. DISCLAIMER

10.1 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 and site conditions that are outside of Stoanz Limited's control. Where a Sto registered contractor applies Stoanz purchased products in accordance with the specifications, Technical Data Sheets and details, a Sto Warranty document is available, but the system must be serviced in accordance with the StoService documentation. Stoanz reserves the right to alter or update information and formulations at any time without prior notice.