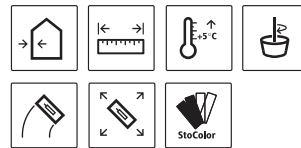


Sto Specification New Zealand

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

Sto Bag Wash System over new or existing Brick or Concrete Block construction
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: **Stolit Bag Wash 10-year Warranty with StoService on masonry block or brick construction**

Stolit Bag Wash System on New or Existing Brick or Concrete Block construction 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**.

Select Finishing Render:

Select Facade Coating:

Sto Registration Number:
(Sto Use Only)

i.e. 24.01_StoReg tec_sales_SS604_project address

Project Notes:

Renderers available Once applied the render is styled to the selected finish ref CI 6.6
Stolit MP fine
Stolit MP Natural salt & pepper sandy adobe render
Stolit RMP Sponge coarser salt & pepper sandy adobe render
Stolit Effect range of textured renders

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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 Masonry Construction

The masonry installation shall be undertaken in accordance with the project drawings, specifications, masonry manufacturer's technical data and NZBC code & standards. The walls shall be laid true in both vertical and horizontal planes with all joinery and service openings correctly formed and waterproofed in accordance with details. Control joints must be installed as per the project's structural drawings or manufacturer's details to manage shrinkage and structural stress. It is recommended the ground floor slab junction should be rebated to provide a water stop, and interstorey floors should be poured within the structure leaving the outer shell to continue to avoid cracking. At least 28 days shall be allowed after any 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 MBIE Guide to tolerances. 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.

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.

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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 MASONRY 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 installation of the masonry 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.

3.3 Masonry 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 project's 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.

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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 manufacturers require primers for PVC or porous substrates and a primer is required on **StoFlexyl surfaces** - 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 MASONRY 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.

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.

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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 when cleaning.

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 pressure or water ingress.

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 masonry substrate incorporating: Preparation, **Sto Putzgrund primer**, selected **Stolit coloured finishing render** coated in selected **StoColor facade paint**.

6.3 Materials

Stoanz Ltd supplies all the following materials:

Sto Putzgrund primer	Selected Stolit coloured finishing render
Selected StoColor façade paint	

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6.4 Sto Putzgrund primer

To clean, dry, prepared, masonry 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.

6.6 Selected Stolit Finished Renders (see below and refer to front page for selected finish)

**Stolit MP fine coloured finish, MP Natural salt & pepper sand, RMP Sponge coarser salt & pepper sand
Stolit Milano is smooth paste, Stolit effect is a textured finish.**

- **Selected Stolit coloured finishing Bagwash**

The selected **Stolit** coloured finishing renders thinned to workable consistency and are applied in one (1) or two (2) coats. A basecoat of the selected **Stolit** is applied to the selected finish and allowed to dry and if required a second coat of **Stolit** is applied to match the selected finish. The selected finish can be trowel applied and styled with block brush, sponge, Sto rake, texture roller, jute sacking, etc. or in combination to create the selected finish.

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

All **Stolit** surfaces shall receive a minimum two (2) coats of selected **StoColor Maxicryl, or StoColor Dryonic** 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** for recoating requirements.

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, the render system is 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, with other colours available depending on formulation.

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8. STOSERVICE ASSURANCE

8.1 StoService Assurance - Refer to StoService Document 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.

After cleaning a visual inspection is to be undertaken by the person undertaking the annual maintenance to check for any physical damage or faults in the exterior building elements, to ensure any damage or faults 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. Stoanz Limited will then provide 2½ yearly reminder notices that the property is due for the 3-yearly StoService.

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

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 Quality Assurance schedule, a warranty is available to cover the Sto System for ten (10) 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, submits 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, 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.

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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, 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.