

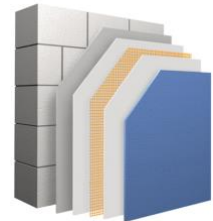
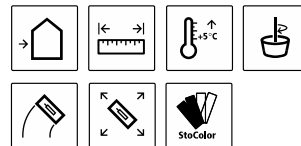
## Sto Specification New Zealand

# SS206F StoArmat Miral Render System on Concrete Foundation

### StoArmat Miral Render System

Over reinforced concrete foundation construction  
BRANZ Appraisal No 515 and CCANZ CP 01:2014  
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: **StoArmat Miral Render System 10-year Warranty with StoService Assurance**

**StoArmat Miral Render System over concrete foundation construction**

**Note: This specification is also suitable for other Masonry Surfaces e.g. Brick, clay block, etc**

This specification details the application of the **StoArmat Miral Render System** on concrete foundation incorporating: **StoLevell Novo** basecoat render with **Stoplex W** sealer to straighten the blocks, **StoFlexyl meshed waterproofing** on block openings, rebates and foundations, **StoArmat Classic** meshed reinforcement render finished in the selected **Stolit K / MP / Milano coloured finishing renders** coated with selected **StoColor facade paint** or **S-Protect SC sealer** on selected **Stolit MP / Milano finishes**.

The **StoArmat Miral Render System** is designed to cover off all aspects of the exterior weathertightness envelope.

Select Finishing Render:

Select Facade Coating:

Sto Registration Number:  
(Sto Use Only)

i.e. 24.01\_StoReg tec\_sales\_SS206F\_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 relation 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](http://www.sto.co.nz)) and any specific concrete block 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 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 undertaken 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 Contracting Company and concrete block installer.

### 2.2 Concrete Blocks

The concrete block installation including reinforcement and concrete infill shall be undertaken in strict accordance with the project drawings, specifications, and the block manufacturer's technical data. 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. 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. Building tolerances should be within MBIE Guide to tolerances.

### 2.3 Concrete Block Construction

- A rebate is recommended in the concrete ground floor slab to block junction to form a weatherproof stop. Where a rebate is not provided, the exterior face of the wall shall be waterproofed across this junction.
- Joinery openings are formed using rebated blocks and sill blocks - cut flush if detailed.
- Concrete Blocks should be covered on site and laid dry.
- Vertical control joints are placed in accordance with the project structural drawings, block manufacturer's documentation or refer to NZS 4229 for placement and detailing.
- Mortar to be minimum 12.5 MPa, tooled smooth and compressed as per NZS 4210.
- Manufacturer's bagged mortar is recommended to meet the specifications.
- Mortar to full depth of webbing up to 20 mm thick in first course and then 10 mm +/- 3 mm.
- Washout ports are required to remove mortar droppings from the foundation.
- Ensure there is no impediment to grout flow; remove ends or biscuits to prevent air pockets.
- Do not use stack bonded, column blocks or insulated blocks that are more susceptible to structural stress.

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- Blocks should be filled in accordance with manufacturer's recommendations and mechanically vibrated to avoid air voids and subsequent efflorescence.
- Sill blocks should be filled using a gap in the blocks to avoid air entrapment.
- Remove any grout slurry from block faces before it sets.
- Drying times vary according to block thickness, grout and weather. A minimum 28 days is required for settlement and curing – the blocks must be completely dry before commencing rendering.
- Where retaining walls occur around inhabited spaces, a 50-year rated waterproofing, or tanking membrane is required. Garden retaining walls must be waterproofed against any back fill to avoid water migration damaging the finished render.
- Always waterproof blocks before installing any adjacent overlays or items such as concrete / timber staircases, abutting garden walls, soffits, attached porches, posts etc.
- Wall tops should have block caps and must be waterproofed with StoFlexyl meshed waterproofing.

#### 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 housing and buildings greater than 300 m<sup>2</sup>, or the Modelling method in H1/VM1. The minimum construction R-value for walls that do not contain embedded heating elements is R2.0, and for heated walls is R2.9.

**Foundations:** H1/AS2 require –Vertical edge insulation with an R -value of 1.0 m<sup>2</sup> K/W, installed on all exterior vertical faces of the concrete slab / wall footings, extending from the outermost top edge down to bottom of wall footing.

**Rasped XPS** sheets can be used for vertical edge insulation with 30 mm providing the required RV 1.0.

##### Insulation Boards Available

- **XPS Extruded Foam Boards:** 30 mm (R 1.1) and 40 mm (R 1.45) 50 mm (R 1.8), 75 mm (R 2.7).
- **Note:** Other insulation panel types and thicknesses are available.

#### 2.5 Soffits

Soffits are normally fixed before the rendering commences with a 6-8 mm finishing bead of compatible MS Sealant applied after the mesh coat. The main contractor is to ensure any weatherproofing required on the blocks behind the soffits or adjacent surfaces is carried out before the soffits are installed. Note: In exposed sites water can penetrate the soffits, ensure that the block junction is waterproofed above and below the soffits, so it laps under the render system.

#### 2.6 Control of External Fire

The specified Sto renders have been tested to EN 13501-1 and have achieved an A2-s1, d0 rating. The StoArmat Miral Render System has been tested to ISO 5660.1 over concrete 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.

**Note:** On commercial buildings and Multi Unit complex's, contact Stoanz Ltd for more specific information.

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### 3. SURFACE PREPARATION

#### 3.1 Responsibility

All work in this section shall be the responsibility of the **Main Contractor** or his sub-contractors with the **Sto Contractor** responsible for the Sto detailing unless otherwise expressly agreed.

#### 3.2 Foundations Waterproofing

The foundations should be waterproofed with **StoFlexyl waterproofing** or another proprietary system. Polystyrene panels that are to be used in ground as foundation insulation must have a thinned down coat of **StoFlexyl** brushed/rolled onto all faces before being installed with **StoFlexyl** adhesive.

Bituminous products should be sand/grit blinded or have a proprietary water based bituminous adhesive. A **StoFlexyl capillary break** is formed below the interior floor level and generally 150 mm above ground using a continuous **StoFlexyl meshed strip** adhered onto the masonry substrate by approximately 100 mm, extending out over the StoTherm panel previously adhered to the foundation. See the Sto CAD foundation details.

**Note: StoFlexyl meshed waterproofing** has been tested by BRANZ to **AS/NZS 4858** as required by **CCANZ CP 01:2014**

#### 3.3 Insulation Panels

**Note: Extruded XPS must be abraded on all sides to provide adhesion for the render.**

Starting from the Sto plinth foundation detail or a starter track, ensure the StoTherm Insulation panel layout is installed true from the base in a brick pattern with no continuous vertical joints, using alternating panels on the external corners. Install Sto uPVC, trays, channels, and flashings as required at termination points.

**Use 600 x 1200 mm sized panels to avoid pillowing** especially on uneven substrates. All the Polystyrene panels are manufactured from white S-grade or graphite polystyrene+ to AS 1366.3. Ensure the panel layout is arranged in a **brick pattern with** no continuous vertical joints. If, after fixing, there are any gaps in the panel joints due to variations, **adhesive foam** shall be used to foam fill the gap before proceeding with the rendering.

**Note:** The minimum sized insulation for countersunk fixings is 50 mm panel using **StoTherm impact anchors**. Ensure the substrate is suitable, i.e. sound, load bearing and straight as required before installing the insulation panels. Repair any defects.

#### 3.4 Control Joints

All existing control joints in the blocks as designated by the project drawings must be brought through with a 10 mm gap in the panels. Control joints must be installed in the **StoLevel Nov mesh** coat using the **Sto uPVC Control Joints** ensuring the mesh coat does not overlay the "V" joint. Once dry, remove the cleaning tab and sealant any joints and either apply two coats of the paint and leave as a negative detail or fill with a compatible **MS Sealant** applied in accordance with the manufacturer's Technical Data Sheets.

#### 3.5 Adhering Insulation Panels

The **selected Insulation panels** shall be trued from the base, laid in a horizontal brick pattern, and incorporate a StoTherm insulated foundation detail.

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**The Insulation Panels** shall be fixed using a 280 mm x 10 mm notched trowel or **StoTherm notched trowel** by applying a full coat of **StoLevel Novoo** to the back of the 600 x 1200 mm **insulation panels**. All panels are installed immediately while the adhesive is wet, tight butted and levelled on the **StoLevel Novoo**. **They shall be allowed to set** before being mechanically fixed. Insulation panel joints shall be tight butted and sheet joints, gaps etc. flush filled with low expansion adhesive polyurethane foam as per the manufacturer's TDS sheets before the panels are rasped once cured to obtain a flat surface.

**Note:** Always ensure the perimeter of the panel (not sides) is well coated with **StoLevel Novoo**. Depending on the substrate the notch size may need to vary to compensate for irregularities in the surface. Always ensure there is enough adhesive applied to bond and bed the panels onto the surface - if required coat both surfaces.

### 3.6 StoTherm anchors (fix in accordance with Sto details –requires 3-4 anchors per m<sup>2</sup>)

Above ground **insulation panels** are mechanically fixed in accordance with the **StoTherm anchor** pattern. Once the adhesive is set, use a rotary impact hammer drill with an 8 mm masonry bit at the designated fixing centres (note drill 5 mm extra). On 600 x 1200 mm panels that have been adhered with **StoLevel Novoo**, use two (2) **StoTherm anchor** fixings per panel centred midway through the panel 300 mm in from the ends.

**Note:** Detailing shall be in accordance with Sto CAD details. Panels at soffits and foundations (above the capillary line) are fixed at 600 mm centres, and external corner panels are staggered and fixed at 600 mm centres.

**StoTherm Anchors** are placed in the pre-drilled holes and countersunk using the **ST fixing tool** attached to an electric drill with the **ST tool plate** stopping flush to ensure correct panel compression and security. All fixings are then plugged with the **Sto Poly insulation caps** set flush to eliminate thermal bridging.

**StoTherm 75 mm or 95 mm Impact Fixings** can be used for 40, 50, or 60 mm thick panels. They are face fixed flush with the surface or countersunk in 50, 60, or 80 mm panels using a **Sto Router tool** to cut the fixing hole. The fixings are then covered with Poly insulation caps.

### 3.7 Sealant

All sealant junctions between the render and adjacent surfaces or dissimilar materials shall be jointed with compatible **MS Sealant** applied in accordance with the manufacturer's Technical Data Sheets. A primer is required on **StoFlexyl surfaces** and as required on PVC, porous substrates, and dissimilar materials.

### 3.8 Detailing

All details must be in accordance with the project drawings and Sto concrete block details available from [www.sto.co.nz](http://www.sto.co.nz).

### 3.9 Penetrations

Penetrations such as waste pipes and fixtures shall be adequately flashed and waterproofed prior to the render installation.

**Note:** All penetrations through the render must be adequately sealed with MS Sealant applied as a minimum 6 mm sealant bead using PEF backing rod or Sto joint seal tape. Any electrical wiring that penetrates the render shall be encased in an appropriately sized uPVC conduit installed at a minimum 5° downwards rake.

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### 4. STOARMAT MIRAL RENDER SYSTEM

#### 4.1 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.

#### 4.2 Selection

The **StoArmat Miral Render System** shall be carried out in stages incorporating **StoLevell Novo** basecoat with **Stoplex W** sealer, **StoFlexyl** waterproofing, **StoArmat Classic** meshed reinforcement render finished in the **selected Stolit K, MP or Milano** coloured finishing render coated in the **selected StoColor** façade paint or sealed with **S-Protect SC stay clean** on selected **Stolit MP, or Milano** render.

#### 4.3 Materials

StoLevell Novo basecoat render	Stoplex W sealer
StoArmat Classic meshed reinforcement render	Selected Stolit K / MP / Milano coloured finishing render
StoColor facade paint or S-Protect SC stay clean on MP / Milano finishes	StoFlexyl meshed waterproofing
Accessories: Sto fibreglass reinforcing mesh, MS Sealant and Sto Joint Seal Tape	Sto uPVC pre-meshed corner angles, finishing edges and drip edges

#### 4.4 Detailing

The foundations are to be detailed with **StoFlexyl meshed waterproofing** as per previous clauses **Sto pre-meshed corners, reveal drip edges, finishing edges and control joints** are lightly embedded in the **StoLevell Novo basecoat render** before being encapsulated in the **StoArmat Classic meshed reinforcement render**

#### 4.5 Basecoat Render

To clean, dry and cured block surfaces, apply one straightening coat of **StoLevell Novo** render by hawk and trowel or pump at an approximate thickness of 6-8 mm (thickness to straighten blocks minimum 5 mm). Screed the surface with an h rule to achieve an even straight surface free of hollows and deviations. Allow to set and remove any ridges or bumps in the basecoat with a Sto feathered straight edge or Grid Plane. All application procedures for the **StoLevell Novo** must be in accordance with the Sto Technical Data Sheets.

The main contractor is to be advised of any walls that require a written variation to building out with additional coats to achieve a level surface.

**Note:** Ensure the **StoFlexyl meshed waterproofing** over the **foundation** and around the **joinery openings** is undertaken over the dry basecoat before the **StoArmat** meshed reinforcing coat.



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### 4.6 Stoplex W sealer

To clean dry **StoLevell Novo** basecoat render that has dried and been rasped flat, apply one full coat of **Stoplex W sealer** by brush and roller at approximately 8 m<sup>2</sup> per litre.

### 4.7 StoArmat Classic reinforcement render

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

To clean, dry, sealed, base coated surfaces apply an even coat of the selected **StoArmat Classic** render by hawk and trowel at approximately 2 mm thick and while the **StoArmat Classic** is still wet, lightly apply **Sto mesh** ensuring adjacent drops of mesh are overlapped by a minimum 75 mm and float the surface to ensure the mesh has been embedded in and allow to dry.

Once dry, apply a further coat of **StoArmat Classic** at approximately 1.5 mm (min DFT 2.5 mm) by hawk and trowel to cover the mesh and leave an even surface plane free of voids or deviations. Once dry, remove any slight ridges etc. with a Sto rasp ready for subsequent render. **StoArmat Classic** must be installed in accordance with the Sto Technical Data Sheets. Always install **Sto pre-meshed uPVC drip edges** on block lintels, **Sto pre-meshed** corner angles on external corners and **Sto pre-meshed finishing edges** as detailed.

### 4.8 Sealant Installation

All junctions or detailing between the render mesh coat and dissimilar materials shall be sealed with compatible exterior MS Sealant in accordance with the manufacturer's Technical Data Sheets. A primer is required on **StoFlexyl surfaces** and as required on PVC, porous substrates, and dissimilar materials.

The joinery sills must remain unsealed and open to permit ventilation of the window trim cavity.

### 4.9 Stolit Float Finish Renders (refer to header for selected finish)

**Stolit K texture is available in a flat 1.0, - 1.5, 2.0, 3.0 mm aggregate as selected.**

- **Stolit K coloured finishing render as selected.**

Apply the selected **Stolit K** coloured finishing render to prepared rendered surfaces 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> per pail (2.0 mm) and 4 m<sup>2</sup> per pail (3.0 mm).

- **StoColor Façade Paint**

If selected it is recommended that all **Stolit K** surfaces receive two (2) coats of **StoColor Maxicryl or 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 **Section 6. StoService** for recoating requirements.

**Note:** Always maintain wet edges between cutting in and roll in tight to ensure an even film build is maintained.

### 4.10 Selected Stolit MP Finished Renders (refer to front page for selected finish)

**Stolit MP fine coloured finish, MP Natural salt & pepper sand, RMP Sponge coarser salt & pepper sand**

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- **Selected Stolit MP, MP Natural, and RMP Sponge coloured finishing render**

**Stolit MP fine, MP Natural sandy and RMP Sponge sandy** 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, MP Natural, or RMP Sponge** is then applied, float finished and randomly lightly sponged. Alternatively, the finish can be float finished, sponged, or smooth finished with a S/S Marmorino trowel to the selected pattern. The spreading rate of the **Stolit MP, MP Natural or RMP Sponge** is approximately 12-14 m<sup>2</sup> per pail.

- **S-Protect SC Stay Clean Invisible Silane Sealer (clear sealer)**

To selected **Stolit MP**, apply an even 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 do not show up. Surfaces must be well coated, and it is 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 Stay Clean** contaminating the surface. Any excess product must be removed after 15 minutes to avoid a surface film forming that can be difficult to remove. Refer **Section 6. StoService** for recoating requirements.

- **StoColor façade paint (paint finish if selected)**

If selected 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 **Section 6. StoService** for recoating requirements.

**Note:** Always maintain wet edges between cutting in and roll in tight to ensure an even film build is maintained.

#### 4.11 Stolit Smooth Finish Render

- **Stolit Milano coloured finishing render**

**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 coats of **Stolit Milano** are 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 Stay Clean Invisible Silane Sealer (clear sealer)**

To clean, dry, **Stolit Milano**, apply an even 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 do not show up. Surfaces must be well coated, and it is 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 Stay Clean** contaminating the surface. Any excess product must be removed after 15 minutes to avoid a surface film forming that can be difficult to remove. Refer **Section 6. StoService** for recoating requirements.



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### 5. GENERAL NOTES

#### 5.1 Colour

As selected by the client or specifier, Stoanz Limited recommends that the selected colour should have a minimum Light Reflectance Value (LRV) of 10%. For colours under 10% but above 4% 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.

**Note:** Where Milano render colours are selected with an LRV of less than 20%, the Milano render is to be applied in three coats.

### 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 manufactures instructions. The owner is also responsible for organising the maintenance in accordance with the 3-yearly StoService Schedule available online [www.sto.co.nz](http://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 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 Sto Service.

Depending on the prevailing environmental conditions and the service record, recoating of the paint finish is normally required at the 8-year period where one coat of facade paint has been applied or S-Protect Silane sealer was used, or 10 – 12½ -years where two coats of façade 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.

### 7. WARRANTY

#### 7.1 StoArmat Miral Render System 10-year Warranty with StoService Assurance

When the **StoArmat Miral Render System** is applied in accordance with the Sto specification, Sto details and Sto Quality Assurance Schedule, a warranty is available for 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.

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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, or interference.
- (d) The masonry substrate under the render must be structurally sound. Cracks in the substrate that reflect through the render are not covered by the StoWarranty.

#### 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.