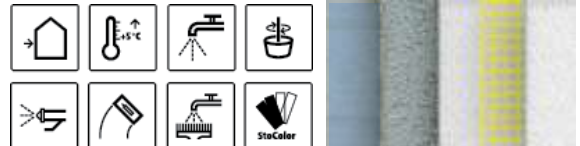


Sto Specification Australia

SS404 StoArmat Render on Pronto Panel Construction

StoArmat Render System

On **Pronto Panel** cladding construction over timber or steel frame construction
Refer to **Pronto Panel** Australia for installation details



Sto Registration: For StoWarranty the completed specification must be registered with Stoanz Australia Ltd. Email to info@stoau.com.au

1. PROJECT DETAILS

Specifier:

Project & Address:

Project Owner:

Sto Warranty: --Click to select--

StoArmat Render System on Pronto Panel construction:

This specification details the application of the **StoArmat Render System** incorporating; **Sto Putzgrund** primer, **Sto RFP** or **StoArmat** to fill any indentations, **StoArmat Classic meshed** reinforcement render, **selected Stolit** coloured finishing render coated in **selected StoColor** facade paint on **Pronto Panel construction** over timber/steel frame construction.

Note: StoArmat Classic Render with its adhesive strength, flexibility and high impact resistance has up to 10 times more resistance than cement based mineral renders. With over 100 million metres sold worldwide the **StoArmat Classic render** combined with the **Stolit K coloured finishing render** is the recommended system for rendering exteriors.

Select Finishing Render: --Click to select--

Select Facade Coating: --Click to select--

Specification & Reg No:
Office Use Only

i.e. 16.10_StoReg tec_sales_SS404_project address

Project Notes:

The StoWarranty requires the completed specification to be registered with Stoanz Australia Ltd. Email, info@stoau.com.au 1

Sto Specification Australia

SS404 StoArmat Render on Pronto Panel Construction

2. CONSTRUCTION & DETAILING

Responsibility	<p>All work in this section shall be the responsibility of the Main Contractor, unless previously agreed in writing. Stoanz Australia 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.</p> <p>The Main Contractor is to ensure that they are fully conversant with exterior legislation requirements, the project specifications and details, current Pronto Panel & Sto specification & ACAD details (www.stoau.com.au) 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 weather tightness, penetrations and dissimilar material junctions affecting the construction system are strictly in accordance with project specific details, manufacturer's instructions and Sto details i.e. items such as roofs, soffits, openings, lights & 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 is carried out by competent contractors and the window and door joinery is installed in accordance with the project drawings, manufactures details and Sto details.</p> <p>A Pronto Panel Installers QA & StoService Quality Assurance Document should be filled out as a record of the work undertaken by the respective companies.</p>
Timber Frame	<p>Timber framing must comply with the Australian NCC for buildings or parts of a building within the scope limitations. 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.</p> <p>The timber grade and level of treatment shall be in accordance with the current requirements contained in BCA.</p> <p>Note: Any areas to be supported by blocking are required to be designated / assigned prior to installation and the timber framing blocked as necessary.</p>
Steel Frame	<p>Refer to cladding manufacturer's documents for steel framing construction.</p>
Wall insulation	<p>Wall insulation must meet the territorial authority's insulation requirements.</p>
Framing Wrap	<p>A vapour permeable framing wrap meeting the requirements of BCA/NCC shall be installed in strict accordance with the manufactures instructions. The wall underlay should be returned into the recesses of all openings and double lapped and flashing taped as required.</p>

The StoWarranty requires the completed specification **to be registered** with Stoanz Australia Ltd. Email, info@stoau.com.au 2

Sto Specification Australia

SS404 StoArmat Render on Pronto Panel Construction

Soffits	Are normally fixed before cladding is installed with a 6/8mm bead of MS Sealant is installed after the cladding work is completed and before rendering commences. Inclined soffits require a metal flashing or Sto uPVC adhesive Sill and Jamb flashing extending under the soffit linings.
Penetrations and Fittings refer E2/AS1 fig 68	Penetrations and fittings such as waste pipes, vents etc should slope to the exterior, must be adequately supported by blocking and should be taped onto the framing wrap with a square sized flexible flashing tape. Blocking must also be installed for taps, door stops hooks, lights, gas fittings, security alarms with all exterior electrical wiring encased in PVC conduit at a downwards rake of 5 degrees that is sealed with a compatible MS Sealant.
Soaker Strips, Flashings, Tapes, Control & Interstorey Joints	Soaker strips, flashings, tapes and control & interstorey joints shall be set out as per the sheet Manufactures technical publications and where applicable the StoArmat ACAD details and correctly installed at the time of sheet fixing.
Aluminium Joinery	All joinery shall be detailed and fitted before the installation of the cladding. Proprietary aluminium head flashings are supplied by the window installer and must extend past the jambs with a min 15 degree slope with a flexible flashing tape securing them to the building wrap. Depending on the joinery specified Sto Stick On joinery flashings can normally be used around the window jambs with a head flashing and open sill detail
Pronto Panel Construction	<p>The Pronto Panel cladding shall be installed in accordance with details and instructions contained in the manufacturer's exterior cladding manual. Before starting check framing is true and straight in both horizontal and vertical planes and take care to ensure that nailing patterns are maintained and sheet edges are not damaged during sheet installation. Where the cladding is to be continued over interstorey junctions care shall be taken that the horizontal and vertical planes are maintained. Note: The cladding should hang down 50mm past the bottom plates or be appropriated flashed to protect the framing with the prescribed minimum clearance from the ground. Note: If cladding fixing and layout is doubtful the Cladding Manufacturers Representative should be contacted for a site inspection and approval before any work is undertaken.</p> <p>A Pronto Panel Quality Assurance Document should be filled out as a record of the work undertaken by the sheet installer and a copy forwarded to the Sto Contractor for their records.</p>
Control & Interstorey Joints	<p>All control & interstorey joints as designated by the project documentation & drawings or cladding manufacturer's technical data must be followed. Refer StoArmat ACAD details for specific control joint design details. Sto uPVC 8mm vertical control joints are required to be placed as detailed in the Pronto Panel installation manual. Sto uPVC 12mm horizontal interstorey joints are required at interstorey transitions in accordance with the Pronto Panel details.</p> <p>Note: StoArmat uPVC flexible Control Joints & Sto Joinery flashings are available from Stoanz Australia Limited for control joints, interstorey joints and joinery flashings.</p>

The StoWarranty requires the completed specification to be registered with Stoanz Australia Ltd. Email, info@stoau.com.au 3

Sto Specification Australia

SS404 StoArmat Render on Pronto Panel Construction

Fixings	Ensure that all fixings as specified by the cladding manufacturer are of the appropriate corrosion resistance, correctly sized and securely fastened without over driving the fixings into the cladding.
Sealant Beads	All sealant beads associated with the cladding system shall be compatible Polyurethane or MS Sealant installed in accordance with the manufacturers TDS Sheets.
Surface Cleaning	The installer shall ensure that all contaminates and dust is removed from the cladding surfaces.

3. STOARAMT RENDER SYSTEM

General	<p>Rendering shall be carried out in stages over correctly installed and detailed cladding incorporating; Sto Putzgrund, Sto RFP or StoArmat to fill any indentations, StoArmat Classic mesh reinforced render finished in the selected Stolit coloured finishing render coated in StoColor facade paint. The Sto Contractor shall assure himself that the surfaces to be rendered are acceptable dry, free of contamination and adequate protection of all dissimilar material and adjacent surfaces is in place before commencing.</p> <p>Note: Ensure the cladding has been thoroughly cleaned before commencing</p>
Control Joints	Control or interstorey joints as designated by the project details must be followed. Control joints must be installed in the StoArmat mesh coat using the Sto 8.0mm PVC vertical control joints and Sto 12mm PVC interstorey joints
Indentations	As required fill any indentations with Sto RFP or StoArmat Classic render
Sheet Priming	Apply one full coat of Sto Putzgrund by brush or roller at the approximate spreading rate of 7/ 8m ² /litre to the total surface area to be rendered.
Rendered Balustrade Tops	<p>Any horizontal rendered surfaces must have a minimum 10° fall and have StoFlexyl meshed waterproofing membrane installed. 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 then floated to a level surface attaining a total minimum film thickness of 1.5mm. Extend membrane 75 mm up or down adjacent vertical surfaces see StoArmat Details and allow to dry overnight. All StoFlexyl waterproofing is to be over coated in StoArmat Classic meshed reinforcement render.</p> <p>Note: StoFlexyl meshed waterproofing has been evaluated by BRANZ to meet AS/NZS 4858 waterproof membrane requirements.</p> <p>Metal Cap flashings must have a minimum 5 degree fall preferably to the inside.</p>

The StoWarranty requires the completed specification to be registered with Stoanz Australia Ltd. Email, info@stoau.com.au 4

Sto Specification Australia

SS404 StoArmat Render on Pronto Panel Construction

Detailing

Sto uPVC pre-meshed corner angles, Sto uPVC pre-meshed finishing edges and Sto uPVC joinery flashings should be installed.

StoArmat Classic meshed reinforcement render

To clean dry primed surfaces apply an even coat of **StoArmat Classic** render by hawk and trowel at approximately 2.0mm and while the **StoArmat Classic** is still wet lightly apply **Sto reinforcing mesh** ensuring adjacent drops of mesh are overlapped by a minimum 75mm 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** render at approximately 1.0mm (min DFT 2.5mm) by hawk and trowel to cover the mesh and leave a plane even surface free of voids or deviations. Once dry remove any slight ridging etc of the **StoArmat Classic render** with a Sto rasp ready for subsequent top coating. All application procedures for the **StoArmat Classic** render must be in accordance with the Sto TDS sheets.

Detailing: Always install **Sto uPVC pre-meshed corners** and **Sto uPVC pre-meshed finishing edges**.

Sealant Installation

All junctions between joinery and render and around penetrations, flashings and similar details shall be sealed with paintable **Polyurethane or MS Sealant** applied in accordance with the TDS sheets. **Note:** some types of joinery have drainage holes in or under the sill flange ensure these remain clear.

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 but care is required to avoid distortion. Joins are butted together using **StoEze Joint filler** 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 reinforcement mesh coat with top edges meshed to the wall.

Float Finished Renders **Note: refer to header for selected finish**

Stolit K is available in 1.0, 1.5, 2.0 or 3.0mm aggregate as selected

Stolit K coloured finishing render; To all exterior rendered surfaces apply selected **Stolit K** coloured finishing render with a stainless steel trowel gauging to the thickness of the aggregate size and finished with a plastic float to the requisite pattern and allow to dry normally overnight. The spreading rate is approximately 12sqm/1.0mm, 9sqm/1.5mm, 7sqm/2.0mm and 4sqm/3.0mm -/per pail.

StoColor facade paint selected

All **Stolit K** surfaces shall receive one (1) full coat of **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. Note: Twenty year+ Warranty requires two (2) coats.

The StoWarranty requires the completed specification to be registered with Stoanz Australia Ltd. Email, info@stoau.com.au 5

Sto Specification Australia

SS404 StoArmat Render on Pronto Panel Construction

Sponge Finished Renders

Note: refer to header for selected finish

Stolit MP or MP Natural coloured finishing render as selected

Stolit MP & MP Natural are fine pre coloured sponge finishes applied in two (2) tight coats. A basecoat of **Stolit MP or MP Natural** or alternatively depending on finish **Stolit K 1.0 or 1.5mm** tinted to the selected colour is applied and allowed to dry before the finishing coat of **Stolit MP or MP Natural** is applied and float finished or randomly lightly sponged to the selected pattern. The spreading rate of the Stolit MP is approximately 12 – 16sqm -per pail.

S-Protect SC stay clean hydrophobic sealer

To **Stolit MP or MP Natural** 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 wiping off any lingering drips etc. Surfaces must be well coated and 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 avoid a surface film forming that can be difficult to remove. **Note** S-Protect SC requires recoating every five – seven years.

Smooth Finish Render

Note: refer to header for selected finish

Stolit Milano coloured finishing render as selected

Stolit Milano is a smooth pre coloured finish applied in two (2) tight 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- 18sqm per pail.

StoPur WV 200 transparent clear sealer

To clean dry Stolit surfaces apply **StoPur WV 200 Transparent** carefully mixed by adding component B with A and mixing together, re pot in to a clean container and thin by adding 1litre of clean fresh water before applying one full coat by brush and Sto Micro roller at approximately 10 square metres per litre. **Note:** Always maintain wet edges especially between cutting in and roll in tight to ensure there are no shadow lines and an even film.

5. GENERAL NOTES

Colour

As selected by the client or specifier Stoanz Australia Limited recommends that the selected colour should have a minimum Light Reflectance Value (LRV) of 25%. Where the colour selected has a LRV below 25% but not less than 5% two coats of StoColor X-black heat reflective paint must be used. Colours selected below the recommended values will affect the warranty.

The StoWarranty requires the completed specification to be registered with Stoanz Australia Ltd. Email, info@stoau.com.au 6

Sto Specification Australia

SS404 StoArmat Render on Pronto Panel Construction

6. STOSERVICE ASSURANCE

Refer; StoService Assurance for comprehensive guide

The Sto Render System should be cleaned annually by low pressure washing or hosing down to remove surface contaminants with special attention to non-rain washed areas (as required use a proprietary house wash sprayed on first with a low pressure garden spray). When recoating is required at the 9 - 10 year period 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 Australia Limited should be consulted for a specific specification.

An annual visual inspection is to be undertaken by the owner or their agent to check for any physical damage or defects in the cladding or exterior building elements to ensure any obvious faults are identified and repaired. Every two and half years the building occupier will be notified to contact the Sto Contractor to carry out a StoService inspection. 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.

7. WARRANTY

Sto 15 Year Warranty with StoService Assurance

The **StoArmat Render System** described in this specification is warranted for a period of fifteen (15) years from the date of practical completion. This is to comply with the relevant clauses in the Australian Building Code for this type of building element provided service requirements as set out in the StoService Assurance documents are followed.

The warranty is supplied by the Sto Contractor on completion with a five (5) year workmanship warranty signed off on completion of the work. The warranty document and the material warranty is issued by Stoanz Australia Limited provided that;

- (a) All specified work is carried out by a registered Sto Contractor who must complete and sign the Sto Quality assurance and the PS3 Workmanship Warranty
- (b) All work is carried out in accordance with this Specification or any written amendments issued by the Manufacturers.
- (c) The warranty does not cover situations where the render system is subjected to physical disturbance, chemical spillage or interference.

StoArmat 20+ Year Warranty with StoService Assurance

The **StoArmat Render System** described in this specification is warranted for a period of twenty (20) years plus (+) from the date of practical completion. This is to comply with the relevant clauses in the Australian Building Code for this type of building element provided service requirements as set out in the StoService Assurance documents are followed.

The StoWarranty requires the completed specification **to be registered** with Stoanz Australia Ltd. Email, info@stoau.com.au 7

Sto Specification Australia

SS404 StoArmat Render on Pronto Panel Construction

The warranty is supplied by the Sto Contractor on completion of the project and remains valid, including the workmanship warranty for twenty (20) years plus (+) when maintained and signed off by the Sto Contractor in accordance with the Sto Maintenance Schedule. The warranty is issued and backed by Stoanz Australia Limited as to the suitability of the material supplied provided that;

- (a) All specified work is carried out by the approved Sto Contractor who must complete and sign the Sto Quality assurance and the PS3 Workmanship Warranty.
- (b) All work is carried out in accordance with this Specification or any written amendments issued by the Manufacturers.
- (c) The warranty does not cover situations where the render system is subjected to physical disturbance, chemical spillage or interference.

8. DISCLAIMER

The information contained in this specification is based on our experience, testing and certification representing the latest information at the date of documentation and is given in good faith. No responsibility is undertaken for use of this information outside of Stoanz Australia Limited parameters given substrates and site conditions are outside our control. Where a Sto registered contractor applies Stoanz Australia purchased products in accordance with the specifications, TDS sheets and details a Sto Warranty document is available but must be serviced in accordance with the StoService documentation. Stoanz Australia reserves the right to alter or update information and formulations at any time without prior notice.

The StoWarranty requires the completed specification to be registered with Stoanz Australia Ltd. Email, info@stoau.com.au 8