



**StoStucco Render System**  
Following the frame straight  
curved and round construction

# StoStucco Render System

## Unlimited design possibilities

Stucco, an outstanding solution with a reinforced backing, dates back to pre-biblical times using saplings and an application of clay renders to decorate and protect buildings.

Embracing this concept by using the latest technology and European components, Sto has released StoStucco, a render system on a rigid stainless steel lath. This compliant system meets the requirements of the New Zealand Building Code. Following traditional practices, the StoStucco Render System is a guaranteed solution to cover timber framed construction and allow the designer an opportunity to bend the rules when designing residential or commercial property.

**Cover: Shelly Bay Residence, Auckland  
Architect: Andrew Mirams Architecture**

**Right: Chancery Square, Auckland  
Architect: Ignite Architects**



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# StoStucco Facades

Easier application – high efficiency and reliability

**StoStucco is a BRANZ appraised render system based on the traditional New Zealand stucco net system. It is cost-effective, highly flexible, durable and crack resistant. With simple installation and easy assembly, it far outways any conventional stucco system.**

The system incorporates a unique lath made from stainless steel welded wire mesh with an absorbent sheet of perforated chip paper, fixed over timber cavity battens. This provides an extremely strong yet flexible base for the render system to interlock with, that can be moulded to suit the shape and curvature in any building, creating unlimited design possibilities.

With a lightweight engineered mineral basecoat, StoArmat reinforcement render and Stolit finishing renders, StoStucco is superior to the traditional, hand mixed applicator systems.

## Save time and costs

StoStucco's time and cost efficiency results not only from the quick and easy installation of the lath; Using a PFT Ritmo mixing pump, the Sto render system can be applied in a fraction of the usual application time.

## Benefits at a glance

- BRANZ Appraised
- StoArmat Warranty with StoService Assurance
- Saves time and cost
- Unlimited design possibilities due to the flexible lath
- Cement-free reinforcing compound / base coat with guiding grain
- Flexible and crack-proof
- High durability and impact resistance
- Highly resistant to mechanical stress
- Range of finishes
- Weathertight
- Faceload tested to 6.5 kPa
- Seismic racking test
- ISO 5660 fire tested
- Wind pressure to 4.9 kPa 69m/sec
- Residential and commercial applications
- New build or re clad specification



**Above: Mon Desir Apartments, North Shore**



**Left:** Render is applied in a fraction of the usual application time with a PFT Ritmo mixing pump, which saves time and lowers costs.

**BRANZ Appraised**

The StoStucco Render System has been tested and certified by BRANZ to ensure the elements meet the structural, weathertight and durability requirements as stipulated by the New Zealand government standards and building codes.

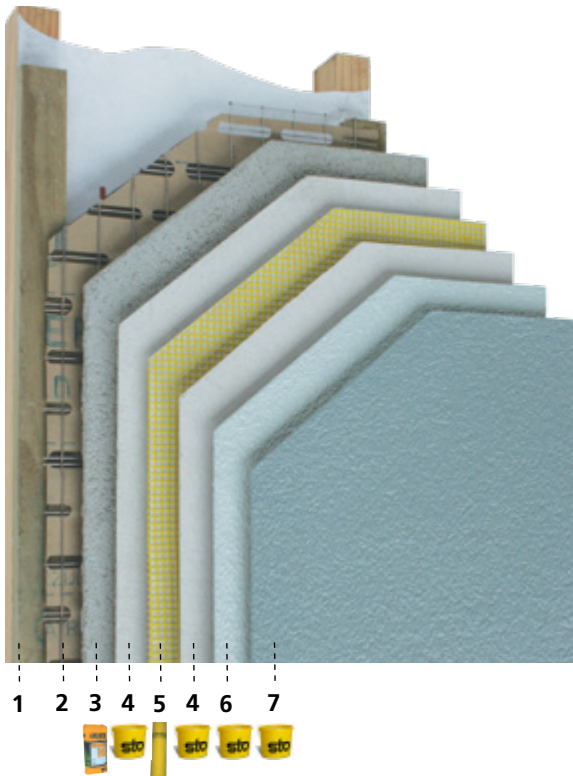


**The StoStucco Lath** - a stainless steel lath with an absorbent sheet of perforated chip paper that can be moulded to suit the shape and curvature in any building.

**Weathertight** - The StoStucco Render System incorporates a first and second line of defence against water penetration by separating the cladding from the external wall framing and then providing synthetic StoArmat reinforcement render and Stolit finishing renders which protects against moisture, dirt and environmental forces.

# StoStucco Render System

A traditional method embracing the latest technology



**StoStucco - A cost-effective approach, providing the latest technology with an innovative edge, promising longevity and investment value from a recognised leader - Sto.**

The StoStucco System consists of a stainless steel lath fixed over timber cavity battens, with uPVC flashings locking into junctions and joinery for a neat weathertight seal. The perforations in the chip paper allow an optimal key of the lightweight mineral basecoat to sit around the stainless steel wires, providing a thick solid render base.

StoArmat reinforcement render with glass fibre mesh is applied over the basecoat providing engineered reinforcement to reliably dissipate tensile, seismic and shear stress.

The StoStucco Render System is finished in a choice of different Stolit coloured finishing renders and StoColor or StoClear; creating a weathertight reinforcement system for reliability and protection that surpasses the facade durability requirements.

## Perfect interaction

### 1. Timber Battens

25mm x 45mm timber cavity battens.

### 2. Substrate: Stainless Steel Lath

European manufactured and certified lath, which is light and strong, easy to shape and to install.

### 3. Basecoat: LevelLite Mineral Render

Lightweight, EPS bead mineral plaster with good build properties, water retention agents and machine application properties.

### 4. Reinforcement Render: StoArmat Render

An organic, weather resistant, cement-free and breathable, high-impact render, with a crack resistance six times higher than that of standard cement-based plasters.

### 5. Mesh: Sto Glass Fibre Mesh

Easy-to-install, meets the highest requirements for crack, stress and alkalinity resistance.

### 6. Coloured Finishing Renders: Stolit Renders

Organically bound, cement-free, highly weather resistant, hard-wearing, impact-resistant, pre-coloured finishing renders.

### 7. Facade Coating: StoColor or StoClear

StoColor coating based on IQ Technology for functional facades or a StoClear sealer.

**StoArmat 20 Year Warranty  
with StoService Assurance**



**The StoStucco Render System utilises StoArmat reinforcement render and Stolit finishing renders which are manufactured in Germany for guaranteed quality and application consistency, with a successful global history covering over 100 million square metres.**

#### **Crack resistance**

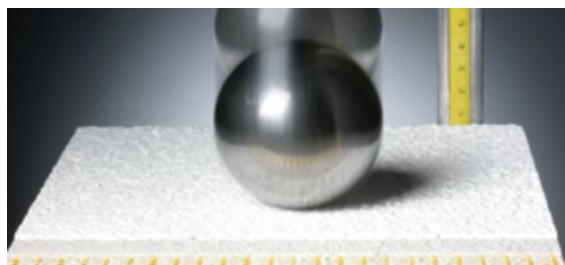
The impact of climate conditions and seismic activity can seriously threaten your property's facade. StoArmat reinforcement render promises a crack resistance six times higher than that of standard cement-based plaster, durability against mechanical and seismic stresses, plus impact resistance; ensuring maximum system reliability and longevity.

#### **Weather resistant**

StoArmat and Stolit finishing renders guard against changing weather and climatic conditions to prevent and protect buildings from water damage. Sto cement-free renders are polymeric, allowing them to repel water far more effectively than traditional plasters.



**StoArmat bend test**



**StoArmat impact test**

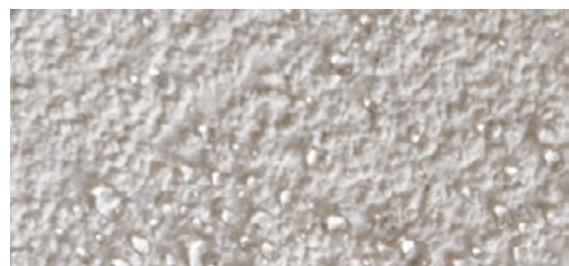
A bend test demonstrating extraordinary flexibility and an impact test proving the high-fracture resistance of StoArmat renders.

#### **Vapour permeable**

StoArmat and Stolit finishing renders promote water-vapour permeability, preventing moisture from becoming trapped between the render and substrate. Water retention behind the cladding is thus avoided, whereas with elastomeric plaster or paint, water can build up behind the coating, eventually leading to blistering.

#### **StoArmat Warranty**

Installation is carried out by a Sto Registered Contractor (Licensed Building Practitioner) and comes with the added protection of a StoArmat 20 Year Warranty with StoService Assurance, ensuring the materials used and application, meets building code standards, including a service plan for long-term performance.



**Sto Render System**



**Blistered coating**

Water vapour molecules pass through Sto renders and coatings while still promoting maximum weather-tight properties. Elastomeric plasters and paints can result in facade blistering and distortion as water vapour molecules become trapped.

# Stolit: Coloured finishing renders

Providing your facade with optimum protection

**Stolit organic finishing renders are manufactured in Germany incorporating the latest technology; certified globally and successfully applied to rendered substrates in every climatic zone for over 50 years.**

The Stolit range provides the perfect combination of properties: durable, strong, hard-wearing, impact-resistant, malleable, weather-resistant, colour-stable and highly resistant to microorganisms. In addition, its vapour permeability allows your building to breathe while still repelling water.

Whichever finishing render is chosen, each one is part of a tested and approved system, providing optimum protection and durability; This makes it indispensable in today's construction industry.

## Benefits at a glance

- Available in the full spectrum of colours.
- Extremely low water absorption.
- Optimum surface adhesion.
- Shock-proof and highly resistant to cracking.
- Exceptional resistance to mechanical stress.
- Outstanding colour stability and product stability process – does not require an equalisation coat.
- Excellent application properties.



Stolit MP



Stolit MP Natural



Roughcast / Pebble-dash





All Stolit renders are easy to apply and can be tinted using the StoColor System or matched to the colour of your choice using the Sto Spectrometer.



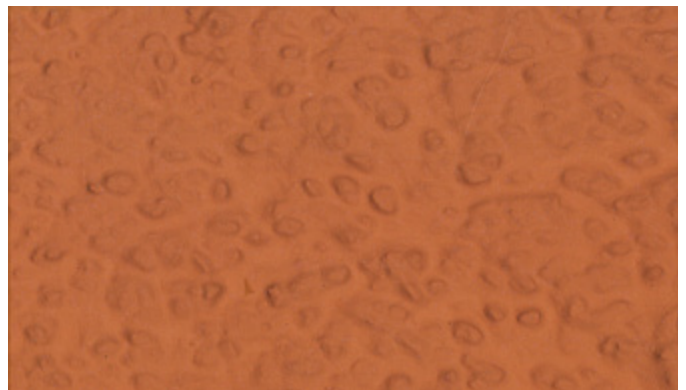
Stolit K 1.0mm



Stolit K 1.5mm



Stolit K 2.0mm



Stolit K 3.0mm



Stolit renders are polymeric, allowing them to repel water and breathe, providing long-term protection superior to traditional, painted plaster systems.



Stolit Milano

# The perfect finish

Facades as individual as you and your project

## The StoColor System

The StoColor System with 1000 colour shades, or AC Architectural Colours with a range of 300 colour shades, provide a systematic approach to colour based on integrated layers, combining texture and colour to complement the architectural structure and design.

Alternatively, the colours of your choice can be matched electronically.

## Tested protection and quality

Sto facade paints or clear sealers establish easy-to-maintain surfaces and an outer layer of the Sto protection system, fulfilling important building requirements in terms of maintenance and functionality.



Sto has been conducting intensive research in the field of bionics for many years. The result: facade paint with iQ – Intelligent Technology where innovative surface functions provide clear added value.

StoColor Maxicryl	StoColor Dryonic®	S-Protect SC Clear Sealer
A natural looking, matt acrylate facade dispersion paint with high covering power and colour fastness. Suitable for masonry, brick, precast and all Sto rendered substrates.	Biomimetic facade paint with Dryonic® Technology, for dry and clean facades to protect against algae and fungal attacks, with SunBlock and X-black Technology.	Invisible silane treatment to repel water instantly and help prevent the adhesion of contaminants.
<ul style="list-style-type: none"> <li>• Excellent hiding power.</li> <li>• Easy, simple application.</li> <li>• Natural matt finish.</li> <li>• Full colour selection.</li> </ul>	<ul style="list-style-type: none"> <li>• Can be applied to virtually all conventional construction substrates, render, concrete, brick, metal or wood.</li> <li>• Dryonic® Technology for dry and clean facades to protect against algae and fungal attacks.</li> <li>• High level of colour stability thanks to SunBlock Technology.</li> <li>• X-black (heat reflective) Technology keeps the facade temperature below +65°C.</li> <li>• Slight silk gloss visible depending on angle.</li> <li>• Full colour selection.</li> </ul>	<ul style="list-style-type: none"> <li>• Invisible silane treatment for the Stolit MP range and Stolit Milano render finishes.</li> <li>• Hydrophobic (water repellent), the treated facade stays dry.</li> <li>• Helps keep the facade clean, by preventing the adhesion of contaminants that are easily removed naturally by rain.</li> <li>• Invisible finish.</li> </ul>

# Well advised

Let yourself be inspired

**Individual customer consultation and project support is the basis of a successful business relationship at Sto. Whether on the telephone, in the sales centre or on the construction site – the Sto team are pleased to provide you with advice, assistance and creative ideas.**

### Sto customer service

Service at Sto goes far beyond the development and sale of high-quality products. Ultimately, any product is only as good as its application. This is why Sto places great emphasis on service and consultation. The Sto team are focused on their customers, providing comprehensive information and tips on the practical use of new products and relaying detailed knowledge from the Sto technical department.

### Smart and sustainable

Sto's impact on performance is big, but the footprint on the environment is small. All Sto products are vapour permeable, easy to apply, safe and non-toxic with low VOCs. Sto incorporates sustainable practices throughout its operations, earning ISO 9001 for quality assurance and 14001 certification for its environmental management system. Many Sto products help reduce the environmental impact of construction by providing insulation, reducing maintenance requirements and extending the life cycle of building facades.

**For contact details of your nearest Consultant, please see the reverse side of this brochure.**



BRANZ Appraised



QUALITY ASSURED



EN ISO 14001

**Head Office**

**Wellington**

Stoanz Ltd  
72 Abel Smith Street  
Wellington, New Zealand  
Phone +64 4 801 7794  
Fax +64 4 384 9828

**General Enquiries**

Phone +64 4 801 7794  
Email [info@sto.co.nz](mailto:info@sto.co.nz)  
Web [www.sto.co.nz](http://www.sto.co.nz)



**Auckland & Northland**

309 Rosebank Road, Avondale  
Auckland, New Zealand  
Phone +64 9 522 1058  
Fax +64 9 522 1054

**Central North Island**

Phone +64 4 801 7794  
Mobile +64 27 299 9290

**Christchurch &**

**Upper South Island**

47A Waterloo Road, Hornby  
Christchurch, New Zealand  
Phone +64 3 338 3570  
Fax +64 3 338 3571

**Lower South Island**

Phone +64 4 801 7794  
Mobile +64 27 453 686