



DATA SPEC SHEET

1. Product Name

- Classic Stone

2. Manufacturer

Classic Stone -

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3. Product Description

BASIC USE

Classic Stone products are intended for interior or exterior non-structural use, as a lightweight veneer facing on masonry surfaces for architectural aesthetics. Classic Stone is cast in moulds from hand selected natural stones and coloured & textured to replicate the exact qualities of natural stone. These products are suitable for use on residential and commercial projects of many types.

COMPOSITION & MATERIALS

Classic Stone products are cast in moulds using a unique process that replicates existing colours and textures with meticulous detail. Each colour and texture has its own blend of ingredients, including Portland cement, lightweight aggregates and iron oxide pigments, producing the look and feel of natural stone.

TYPES

- Stone veneers
 - Capping/Sill stones
 - Corner stones
- Lintels

WEIGHT

Stone veneer weight is approximately
30 - 40 kg/m².

FINISHES & TEXTURES

Classic Stone Textures - Schist has two profiles: "*Colonial*" (traditional) & "*Contemporary*" (modern)

- Queenstown Grey - Schist
- Alexandra - Schist
- Blended colours & Textures - Schist
- River Stone

COLOURS

Classic Stone uses an integral stone base colour throughout the mix to give durability and quality.

The veneer stone then has additional colouring applied using some of the best artificial rock colouring systems known. These systems have been used throughout America for the last 30 to 40 years with no adverse colour deterioration. We deliberately produce our stone with slightly sharper colours than needed when new, as with a little time they will weather back to a natural shade.

LIMITATIONS

Classic Stone products should not be assumed to add to the load bearing capacity of a wall. Product should not be used below water level, such as in swimming pool liners. Chlorine and other chemicals may discolour the Classic Stone product and other masonry materials. The Classic Stone wall veneer should not be used for paving applications.

4. Installation

Classic Stone is a lightweight decorative veneer.

It has been designed to be applied to a code compliant masonry substrate cladding.

4.1 PREPARATORY WORK

Handle and store product according to Classic Stone recommendations. Spread out Classic Stone products at the jobsite so there is a good variety of sizes, shapes, and colours to choose from. Plan some variety and contrast in the overall design. Use small stones next to large ones, heavy-textured pieces next to smooth and thick stones next to thinner ones. Mixing Classic Stone products from different pallets during application will allow a desirable balance of individual stones on the finished project. Tinting mortar complements the colour of the stone being installed. This will greatly enhance the appearance of the finished installation. Regular mortars can be tinted to complement Classic Stone products using iron oxide pigments.

4.2 METHODS

Classic Stone can only be installed by approved installers where the application is onto a building. This is to ensure that all components of the installation meet NZ building code requirements etc.

However landscape applications such as stand alone columns, retainer walls, planter bins etc, maybe installed by the purchaser. Classic Stone will provide installation instructions for the DIY.

The Classic Stone veneer has been designed to adhere readily to plastering systems. Classic Stone can be applied with a variety of plastering methods and adhesion systems, which are dependent on substrates and stone profiles chosen. In all cases systems chosen must comply with the manufacturers of modified plasters and their technical specifications e.g. Equus's Thermexx Plaster

If premixed products are being used, please refer to their manufacturers specifications.

All substrates should be thoroughly cleaned to remove contaminants, especially moulds oils etc.

Adequate mortar should be applied to the stone & substrate to provide a complete coverage so as to ensure a strong adhesion and to prevent water intrusion and thus also help prevent freeze/thaw issues.

Where the Classic Stone veneer - 'River Stone' is used, final pointing must be correctly finished and brushed so as to ensure all stone is well locked in and sealed.

Where control joints are present, the joint itself must be waterproofed with a suitable waterproof membrane (in accordance with NZ building code) so as to adequately protect the substrate. The stone should be overlapped over the joints from either side, with not more than 20% of the stone crossing the control joint. An air cavity is thus left in behind the slip joint, to allow any moisture to drain and allow for any movement from substrates.

If stone is being applied in hot or dry weather, the back of each piece should be moistened with a fine spray of water or a wet brush adequately prevent excessive absorption of moisture from the mortar. If being installed over concrete, masonry or scratch coat substrate, the substrate surface area should also be dampened before applying mortar. Applications should be protected from freezing as mortar will not set up properly under such conditions. Do not use antifreeze compounds to lower the freezing point of mortar. For further reference see BRANZ's Stucco Good Practice Guide 2004.

4.3 WATERPROOFING

In order to meet the Building Code requirements, particularly regarding section E2 - External Moisture, waterproofing is best achieved by waterproofing at the substrate level we recommend the use of a waterproofing sealer such as Equus Coverall. This waterproofing must be compatible with the bond coat system that follows.

The substrate will then need a bonding agent to be applied to ensure good adhesion with the plaster coat that follows. In both instances refer to the modified mortar manufacturers specifications.

The finished installation may have an industry recognised, water based, waterproofing sealer such as Equus's WB2, applied to the entire application. This will protect against water intrusion (and possible freezing) while still allowing water vapour transmission (breath-ability). Refer to the manufacturers directions re application & coverage.

Classic Stone has been installed in both landscape & building applications in locations that experience extreme weather variations between seasons e.g. Queenstown and Lake Tekapo, for some years. Over this time Classic Stone has performed as expected, with no deterioration caused by weather extremes such as freezing or high heat.

5. Availability & Cost

Classic Stone products are available via our distributors or direct if no distributor exists. If large orders are placed e.g. house lots, an allowance for curing time of 4-5 weeks may need to be made.

COST

These products are priced on a square meter basis. Jobsite delivered cost will vary depending on distance from the manufacturing plant.

6. Maintenance

Most applications require little maintenance. Exterior applications where excessive dust or dirt accumulates should be washed down with water occasionally. Repeated applications of a water based sealer should be applied as per the recommendations of the manufacturer.

An annual inspection of stone and substrate is advisable especially with regards to possible building movement.

Cleaning

Use detergent and water with a soft bristle brush. Do not use a wire brush as it will cause damage to the surface. Rinse immediately with fresh water. Do not attempt to clean using acid or acid based products. A low pressure power washer may be used.

Scuffing

Scuffing occurs on all natural stone. Occasionally, some scuffing will occur on the surface of Classic Stone products. Some scuff marks can be removed by cleaning as described above.

Efflorescence

On rare occasions, efflorescence may occur on all masonry products. Most efflorescence wears off naturally over time. For more difficult efflorescence problems please contact your local distributor.

Sealing

Apply a water based sealer to the entire (stone, pointing etc) application, following the directions provided (coverage, frequency etc) by the sealant manufacturer. Typically those areas of the building prone to greater weathering should be resealed more often (refer to manufacturers specifications).

7. Guarantee

Classic Stone provides a 30 year guarantee on its decorative veneer products (any labour content involved is not covered under the manufacturers guarantee), providing the buildings/structures used, complied with the NZ building code and the installation was performed according to the manufacturers instructions.

This guarantee does not cover damage caused by: incorrect installation; settlement through building or wall movement or contact with toxic chemicals.

Standard Detail - Timber Frame Construction

Fibre Cement Board

- In all cases please refer to the fibre cement board manufacturers installation instructions.
- Studs to be at 400 ctrs, with battens providing 20mm cavity as per E2 requirements
- Use only **warranted** fibre cement board such as **BGC's - Stone Sheet and PBS's – VentClad - Eterpan products (the use of 'Non-Warranted' fibre cement board will make Classic Stones manufacturers warranty void)**
- Allow up to 40mm for depth of stone & plaster from substrate.
- Equus - Coverall 50/50 Sealer coat applied to substrate.
- Equus – Thermexx adhesive slurry applied to the sealer.
- Equus – Thermexx adhesive mortar applied to the slurry.

Hebel Panel

- Hebel product installed as per manufacturers instructions.
- Equus - Coverall 50/50 Sealer coat applied to Hebel substrate.
- Equus – Thermexx adhesive slurry applied to the sealer.
- Equus – Thermexx adhesive mortar applied to the slurry.
- Allow up to 40mm for depth of stone & plaster from substrate.

Waterproofing

- Surface of substrate to be cleaned of any contaminants and then an application of Equus – Coverall 50/50 sealer (reduced down by 40-50%) to entire surface area.
- Subsequent coat of water based sealant e.g. Equus - WB2 is applied to finished stone work. WB2 is a deep penetrating water repellent for use on absorbent and alkaline substrates. Refer to enclosed Equus Data Sheet WB2.

Installation

- A bond coat must be applied to the substrate using a recognised acrylic mortar e.g. Equus - Thermexx Binder. This must be applied 24 hours prior to application of mortar bed.

IMPORTANT - PLEASE NOTE

The bond coat must be inspected prior to any further plastering taking place. This is to ensure maximum bond and strength has been achieved. The resulting texture of the bond coat should be 'coarse/sand paper' like to the touch.

For further general installation instructions please refer to section 4 of Classic Stone's Data Spec Sheet.

