General Stone Tiling Specification to Framed & Sheeted Facades.
10 Year System Warranty.

This specification covers the installation of suitable stone tile to external façade applications on framed and cement sheet substrates. Refer to Architectural Drawings and Details for specific installation materials & methods for each specific area and application.

WITNESS POINTS:
Give sufficient notice, so inspections can be made by the contractor in the presence of the builder, specifier, owner or any other persons deemed relevant, as required.

1.0 GENERAL:

1.1 All works shall be carried out by experienced qualified trades.

2.0 SCOPE OF WORK:

2.1 Furnish all labour, materials and equipment necessary to complete the installation of stone tile in shock resistant grouting and fixing materials as specified herein and where indicated in drawings. Install thin, load bearing waterproof membranes to all external framework to receive stone tile.

2.2 The underlayment shall be securely fixed in accordance with the manufacturer’s instructions. Surfaces must be structurally sound, stable and rigid enough to support the tile work. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/600 for thin bed tile installations.

2.3 Stone tile and their fixing and grouting mortars do not constitute a waterproof barrier. Specify & detail LATAPOXY Moisture Shield & LATICRETE HYDRO BAN Liquid Applied Waterproof Membrane to all areas that are to receive tile.

2.4 Unless otherwise noted in this document, product data sheets, how to guides, technical data sheets and other LATICRETE guidelines, all work shall be in accordance with AS3958.1 & 2 and AS4654.1 & 2.

2.5 This specification may not include all the information required to complete the works. Contact LATICRETE for any additional information.

2.6 Consult the relevant, current product data sheets and how to guides for more complete and installation information on products specified in this document.

2.7 Consult the cement backer board manufacturer for approval of use with this tiling system on an external facade.

2.8 For installations with the thin bed adhesives: the maximum allowable variation in the substrate is 3mm in 3m from the required plane and 1.5mm in 600mm when measured from the high points in the surface. Adjacent drywall sheets - edges shall not exceed 1mm difference in height.

2.9 Backgrounds or sheeted surfaces should not have internal moisture content greater than 75% relative humidity as measured with moisture probes.

2.10 All stone tile for this installation shall be deemed fit for purpose, not moisture sensitive and
dimensionally stable by the stone manufacturer.

2.11 Construct facades to reduce/stop water collecting behind the tiling system. Use flashing and perimeter barriers where risks of water ingress exist.

2.12 Contact LATICRETE for a Custom Specification

3.0. MATERIALS:

3.1. All stone tile, where called for shall be supplied by (……………………………………………………………..)


All waterproofing, skimming, tile fixing and grouting materials shall be as provided by LATICRETE Australia Pty Ltd. 29 Telford Street, VIRGINIA. QLD. 4014. Telephone 1800331012. Email: technicalservice@laticrete.com.au Web: au.laticrete.com

Installation shall be in strict accordance with manufacturer's instructions.

3.3 All materials shall be delivered to the job site in the original factory containers with the manufacturer’s identification on each package.

4.0 APPROVALS AND SAMPLES.

4.1 Provide mock-up of each type/style/finish/size/colour of tiles, trim unit and threshold, along with respective installation adhesives, mortars, grouts and other installation materials for assessment.

5.0 HANDLING AND STORAGE OF MATERIALS.

5.1 Handle and store tile in a manner to avoid contamination & intrusion of foreign matter that may inhibit bond.

5.2 Handle, store, mix and apply proprietary installation materials in strict compliance with the manufacturer’s instructions.

5.3 The contractor shall take precautions to protect the Mortar Additives, Admixtures from freezing or from excessive heat.

6.0 SKIMS, WATERPROOF MEMBRANES, ADHESIVES & GROUTS:

6.1 LATEX PORTLAND CEMENT SKIMS
20 kg bags LATICRETE 254 Platinum Tile Adhesive

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6.2 WATERPROOF MEMBRANE
15 Litre LATICRETE HYDRO BAN Waterproof Membrane.
20 Litre LATAPoxy Moisture Shield.
600ml sausage HYDRO BAN Fillet & Sealant

6.3 LATEX PORTLAND CEMENT ADHESIVE
20 kg bags LATICRETE 254 Platinum Tile Adhesive

6.4 CEMENTITIOUS GROUT:
10 kg bags LATICRETE PERMACOLOR Grout.

6.5 SEALANT
305 ml LATICRETE LATASIL Silicone Sealant; and
240ml LATICRETE LATASIL 9118 Primer

6.6 CLEANERS & SEALERS
3.8 litres STONETECH KlenzAll Cleaner
3.8 litres STONETECH Bulletproof Sealer.

7.0 PREPARATION.

7.1 Inspection - Prior to commencing the installation, the contractor shall examine the areas to be
covered and advise the Main Builder and Architect of any existing conditions or surface
contamination, which will require correction before the work commences. Substrate must be clean
& free from, moisture blockers, oil, curing compounds, dirt or any other foreign material that may
inhibit bond. The substrate shall be cleaned and allowed to dry prior to installing skimming’s,
flushing’s, waterproof membranes or adhesives.

7.2 Preparation - Out-of-plumb or uneven cement sheet surfaces should be; removed and replaced
or if appropriate skimmed, flushed or made smooth with LATICRETE 254 Platinum.

7.3 Cleaning - Dry or dusty surfaces shall be washed and excess water removed before the
application of the LATICRETE skim or flush coats. Dry or dusty surfaces shall be washed and excess
water removed before the application of the LATICRETE HYDRO BAN Waterproof Membrane or tile
work. Installations may be made on a damp surface.

8.0 MIXING.

8.1 Mix according to printed product instructions included with each product package. Mix only
long enough to wet out the batch. Do not over-mix.

9.0 INSTALLATION OF WATERPROOF MEMBRANE.

Note: Apply a liberal application of LATAPoxy Moisture Shield, nominally 24 hours before the
application of the HYDRO BAN. Flush all gaps and sheet joints with HYDRO BAN Fillet & Sealant.

9.1 Before starting, surface to be covered shall be cleaned to remove soil, dust, curing compounds,
form oil, sealants, or grease. Surface to be waterproofed shall be dry, plumb and true.

9.2 After the application of the Moisture Shield has dried, apply two coats of HYDRO BAN. Allow to
dry between coats.
9.3 Stone tile may be installed directly over the membrane as soon as it is cured.

9.4 Allow membrane to cure fully, usually 7 days at 21°C. Cold weather installations will require a longer cure time.

9.5 See product data sheets, how to guides and technical data sheets for more complete information as required.

10.0 INSTALLATION OF TILE BY THE THIN BED METHOD:

10.1 The LATICRETE 254 Adhesive shall be applied with a notched trowel using a scraping motion to work the material into good contact with the surface to be covered. A trowel having notches of sufficient size to optimize bedding is recommended. On site test should be carried out to determine the appropriate trowel size to target no voids in the adhesive bed, full bedding of the tile and complete adhesive distribution.

10.2 Only as much Adhesive shall be applied as can be covered within 5 to 15 minutes or while adhesive surface is still wet and tacky. Tiles shall then be set in place manipulated to insure 100% full bedding (this means full contact of adhesive to tile & full contact of adhesive to substrate) and a true surface. The tile shall be aligned to show uniform joints and then allowed to set until firm.

10.3 Excess adhesive must be cleaned from the surface of the tile with a wet cloth or sponge while the adhesive is fresh.

10.4 See product data sheets, how to guides and technical data sheets for more complete information as required.

11.0 EXPANSION AND CONTROL JOINTS.

11.1. Existing joints in subsurface must be carried through tile work and shall conform to architectural details and sheet manufacturers details.

11.2 Expansion joints shall be installed where the tile abut restraining surfaces, such as perimeter walls, curbs, penetrations, columns, corners, etc. Expansion joints shall be installed at all "changes of plane" in the tile work.

11.3 Expansion joints shall carry through to the supporting structure. Refer to architects & engineer’s drawings for full details on expansion, control, isolation, and movement joints. (Do not fix tile over construction joints)

Note to Specifier: The responsibility for calculating the actual spacing and size of the expansion joints shall be by the architect/engineer based on the expansion (thermal, moisture, etc.) characteristics of the specific tile as supplied by the tile manufacturer and design of supporting structure.

The Optimum ratio of joint layout, length to width, is 1:1, and shall not be greater than 2:1.

11.4 Joints shall be sealed with LATICRETE LATASIL Sealant and 9118 Primer. Use polyethylene backing rods and bond breaker tapes as required.

12.0 GROUTING AND POINTING JOINTS:
12.1 Joints shall be grouted or pointed with LATICRETE PERMACOLOR grout mixed with water.

12.2 Certain types of tile have more absorbent surfaces than others and will trap colour pigment during grouting. Prior to grouting, test for absorption of colour pigment. Porous tiles will benefit from pre-sealing with a STONETECH sealer prior to grouting.

12.3 Before starting to grout, remove all spacers and debris in grout joints. Remove dirt and dust using a damp sponge. Do not leave water standing in joints. Do not clean tile with acid based cleaners. Substrate must be between 16-32 degrees C. Spread with a sharp firm grout float over the tile work. Work the grout into the joints. Joints shall be packed full and free of all voids and pits. (Tool or rake as specified).

12.4 Excess grout shall be cleaned from the surface with the edge of the grout float. Hold the float at 90-degree angle and pull it diagonally across the joints to avoid pull out the material. Clean with cold water as the work progresses, while grout is fresh and before it hardens. Care should be taken not dig out or remove grout during the clean-up process.

12.5 The day after installation grout film or haze shall be removed using a detergent solution.

12.6 See product data sheets, how to guides and technical data sheets for more complete information as required.

13.0 PROTECTION:

13.1 During installation of entire system, waterproof membrane, skims, tiling and grouting the contractor shall take precautions to protect the work from varying adverse weather conditions.

13.2 The contractor shall take precautions to protect the finished work from damage by other trades. Allow the grout to cure for a minimum of 7 days before steam cleaning or using aggressive cleaning techniques.

14.0 CLEANING & SURFACE SEALING.

14.1 The tiles on this project shall be cleaned and sealed with LATICRETE STONETECH Sealers and Cleaners as appropriate for the specific tile or stone installation.

14.2 Consult the product data sheet and technical guides prior to use. For further information contact stonetech@laticrete.com.au Test prior to use in a small unobtrusive area.

14.3 Maintain and reseal surface every 3-5 years or depending on service conditions to maintain warranty.

Weather Note: The curing of; waterproof membranes, tile fixing adhesives and grouts, are retarded or accelerated by extreme temperatures. Finished work should be protected for an extended period of time.

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