



Innovative Tile and Stone
Installation Systems

Norstone Natural Stone Veneer Cladding Short Form Installation Specification

SPECIFICATIONS

This specification covers installation of Norstone Natural Stone Veneer Wall Cladding on interior and exterior walls.

NOTE TO SPECIFIER

Natural Stone Tiles and tile installation adhesives and grouting mortars do not constitute a waterproof barrier. Detail and specify LATICRETE® 9235 Waterproofing Membrane or LATICRETE® Hydro Ban™ in all wet areas and over existing hairline cracks (< 1/8" or 3mm) in subsurface. A LATICRETE "System" approach to installation is covered by a comprehensive **Lifetime System warranty**, 25 year system warranty (Reference LATICRETE DS 025.0) or a **15 year system warranty for Steel or Wood Framed Exterior Facades** (Reference LATICRETE DS 230.15-0719).

MATERIALS

All stone, where called for, shall be: **Norstone Natural Stone Veneer Products as manufactured by NORSTONE PTY LTD, 30 Nareen Parade, Narrabeen Sydney, NSW, 2101, Australia, Phone: +61 2 9944 6711, Fax: +61 2 9944 6747.**

Thick bed mortar for leveling/plumbing walls shall be **LATICRETE® 3701 Fortified Mortar Bed mixed with water**. (If required)

Waterproofing and crack suppression shall be LATICRETE® 9235 Waterproofing Membrane or LATICRETE® Hydro Ban™. (If required)

Thin set mortar for installing stone to suitable wall substrates shall be LATICRETE® 254 Platinum. If a "non-sag" mortar is desired, install stone panels with LATICRETE® MultiMax™ Lite. If a light-weight mortar option is desired, LATICRETE® 257 Titanium may be used. LATAPOXY® 300 Adhesive shall be used for fixing and bedding stones to all clean, rigid steel substrates.

Waterproofing and mortar materials used for stone panel installations shall be as supplied by **LATICRETE International, Inc., Bethany, CT USA. Telephone: 1 (203) 393-0010, Fax: 1 (203) 393-1684.**

E-mail technicalservices@laticrete.com, Internet: www.laticrete.com.

PREPERATIONS

Prior to commencing the installation, the contractor shall examine the areas to be covered and advise the General Contractor and Architect of any existing conditions or surface contamination which will require correction before the work commences. Before starting, surface to be covered shall be cleaned to remove curing compounds, sealers, soil, mortar, dirt, dust, etc. Curing compounds or sealers shall be removed by "bead-blasting," grit / sand blasting, diamond wheel grinder with dustless vacuum attachment or equivalent methods of mechanical "scarifying." After removal of the curing compounds or sealers all rough, uneven or "out-of-plumb" surfaces shall be made "plumb and true" to within 1/8" in 10' (3 mm in 3 m) and 1/16" in 1' (1.5 mm 300 mm) using **LATICRETE 3701 Fortified Mortar Bed mixed with water**. Dry or dusty concrete or masonry surfaces shall be wet down or washed and excess water removed just prior to the application of the leveling mortar and stone adhesive.

EXPANSION AND CONTROL JOINTS

Existing joints in subsurface must be carried through the stone work and shall conform to architectural details. Expansion joints shall be installed where stone abuts restraining surfaces, such as perimeter walls, curbs, columns, corners, etc. Expansion joints shall be installed at all "changes of plane" in the tile work. Refer to Tile Council of North America (TCNA) Detail EJ-171 (Current Year) for industry recommendations

INSTALLATION OF WATERPROOFING AND ANTI-FRACTURE MEMBRANE

Waterproof membrane is installed before tile is installed in all wet areas that are above occupied or enclosed areas. Anti-Fracture membrane is installed before tile is installed over all hairline cracks in surfaces to receive new tile work.

MIXING

Mix according to printed product instructions included with each product package. Mix only long enough to wet out the

batch. Do not over-mix.

INSTALLATION OF TILE BY THE THIN BED METHOD

The adhesive mortar 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 large enough to insure "full bedding" of the stone panels is recommended. Do not apply more adhesive than can be covered within 10-15 minutes, or while adhesive surface is still wet and tacky. When installing large format stone panels, a small quantity of the adhesive shall be troweled onto the back of each panel. Stone panels shall then be set in place and pressed firmly to insure 100% full bedding and a true surface. Panels shall be aligned to show uniform joints and then allowed to set until firm. Excess adhesive must be cleaned from the surface of the panel with a wet cloth or sponge while the adhesive is fresh.

GROUTING AND POINTING JOINTS

Norstone panels are not intended to be grouted.

PROTECTION

The contractor shall take precautions to protect the finished work from damage by other trades.

COLD WEATHER NOTE

The curing of tile installation mortars, adhesives and grouts is retarded by low temperatures and finished work should be protected for an extended period of time.

LATICRETE Technical Services provides review of job specifications and plans, project detail planning and review, and provides answers to questions concerning the installation of ceramic tile, brick, marble and stone. Call toll free USA +1 (203) 393-0010. Fax: USA +1 (203) 393-1684. E-mail: technicalservices@laticrete.com, Internet: www.laticrete.com. To obtain a copy of detailed product information, most recent revisions of LATICRETE data sheets, and answers to installation questions, E-mail: technicalservices@laticrete.com or call (800) 243-4788 x.235.

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