

TILING SPECIFICATIONS

SPECIFICATION NUMBER: NR289-16
PREPARED BY: Mike Cubley
PREPARED FOR: Porcelain Plus
ATTENTION: Moira
INSTALLATION: The Glasgow Academy External Tiling Specification.

M40 STONE/ CONCRETE/ QUARRY/ CERAMIC TILING/ MOSAIC

To be read with Preliminaries/ General Conditions.

TYPES OF TILING/ MOSAIC

110 TILING TO EXTERNAL WALKWAYS

Tiles: Porcelain.

Manufacturer/ Supplier: Porcelain Plus.

Product reference: TBA.

Colour: TBA.

Finish: TBA.

Size: 600mm X 300mm and 300mm X 300mm.

Thickness: TBA.

Background/ Base (To be confirmed by contractor): Existing tiled Sand : Cement Screed.

Preparation: As clauses 230, 310 and 320.

Remove all existing tiles and adhesive residues to expose the underlying substrate.

Where required repair with Norcross Rapid Repair Mortar.

Prime with Norcross Prime Bond diluted 1:4 with water and allow to dry.

Lay Norcross Permalayer Anti Fracture Membrane in to a solid 2mm bed of Norcross Rapid Porcelain Grey Tile Adhesive and allow to dry.

If required, level with Norcross Pro 50 Levelling Compound and allow to dry

Bedding: As clause 710 – Ensuring solid bed fixing is achieved.

Adhesive: Norcross Rapid Porcelain Grey Tile Adhesive.

Joint width: Minimum 3mm.

Grout: Norcross 4 into 1 Flexible Floor and Wall Tile Grout.

Type/ classification: BS EN 13888 CG2.

Movement joints: Movement joints should extend through the tiling and its bed and coincide with any structural movement joints. British Standard BS 5385: Part 3: 2015 recommends that movement joints should be provided around the perimeter of the tiled installation (including door thresholds) with intermediate movement joints being provided in larger areas at 8m to 10m intervals, at junctions between different substrates, door thresholds and between existing substrates and new heated screeds. On suspended floors stress relieving joints should be provided over supporting walls or beams where there is a risk of flexing.

Accessories: Fill perimeter movement joints with Norcross 4 into 1 Silicone Sealant, colour to match grout as clause 815.



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GENERALLY

- 200 NORCROS ADHESIVES PRODUCTS will be applied in accordance with the site work instructions on the manufacturer's product data sheets. All Norcros products are covered with a Lifetime guarantee when used in accordance with the manufacturer's instructions.
- 210 SUITABILITY OF BACKGROUNDS/ BASES
- Background/ base tolerances: To permit specified flatness/ regularity of finished surfaces given the permissible minimum and maximum thickness of bedding.
 - Suitable and sufficiently strong to receive and support a tiled finish.
 - Suitable for the conditions to which it will be exposed.
 - Fully dry and free from contamination, laitance etc.
 - New background drying times (minimum):
 - Concrete walls: 6 weeks.
 - Brick/ block walls: 6 weeks.
 - Rendering: 2 weeks.
 - Gypsum plaster: 4 weeks.
 - New base drying times (minimum):
 - Concrete slabs: 6 weeks *.
 - Cement: sand screeds: 3 weeks *.
 - * Drying time will be reduced to 48 hours if Norcros Permalayer Anti-Fracture membrane is used.
- 215 FALLS IN BASES
- General: Give notice if falls are inadequate.
- 230 EXTERNAL TILING
- It is essential that tiles are fixed in a solid void-free bed of a suitable adhesive.
 - Tiles should not be fixed in temperatures lower than 5oC and the background temperature must be at least above freezing. Irrespective of the ambient temperature.
- 250 SAMPLES
- General: Submit representative samples of the following: _____ .
- 260 CONTROL SAMPLES
- General: Complete sample areas, being part of finished work, in locations as follows: _____ .
 - Approval of appearance: Obtain before proceeding

PREPARATION

- 310 EXISTING BACKGROUNDS/ BASES GENERALLY
- Efflorescence, laitance, dirt and other loose material: Remove.
 - Deposits of oil, grease and other materials incompatible with the bedding: Remove.
 - Tile, paint and other nonporous surfaces: Clean.
 - Wet backgrounds: Dry before tiling.



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320 CONCRETE/ SCREEDS

- New concrete must be a minimum 6 weeks old before application of a cement: sand screed or tiled finish *.
- New cement: sand screeds should be cured for at least 7 days prior to being subjected to continuous air drying for a further 2 weeks before tiling commences (minimum total drying time = 3 weeks) unless specified otherwise by the screed manufacturer *.
- Loose or hollow portions: Cut out and repair Cut out and repair using Norcross Rapid Repair Mortar
- Dusty or porous concrete/screeds should be thoroughly dry brushed and then primed with Norcross Prime Bond diluted 1: 4 with water.
- * The drying time will be reduced to 48 hours if Norcross Permalayer Anti-Fracture membrane is used.

FIXING

510 FIXING GENERALLY

- Colour/ shade: Unintended variations within tiles for use in each area/ room are not permitted.
- Variegated tiles: Mix thoroughly.
- Adhesive: Compatible with background/ base. Prime if recommended by adhesive manufacturer.
- Use of admixtures with cementitious adhesives: Only admixtures approved by adhesive manufacturer.
- Cut tiles: Neat and accurate.
- Fixing: Provide adhesion over entire background/ base and tile backs.
- Final appearance: Before bedding material sets, make adjustments necessary to give true, regular appearance to tiles and joints when viewed under final lighting conditions.
- Surplus bedding material: Clean from joints and face of tiles without disturbing tiles.

530 SETTING OUT

- Joints: True to line, continuous and without steps.
- Joints on walls: Horizontal, vertical and aligned round corners.
- Joints in floors: Parallel to the main axis of the space or specified features.
- Cut tiles: Minimize number, maximize size and locate unobtrusively.
- Joints in adjoining floors and walls: Align.
- Joints in adjoining floors and skirtings: Align.
- Movement joints: If locations are not indicated, submit proposals.
- Setting out of _____: Drawing references: _____ .
- Setting out of _____: Submit proposals.

540 LEVEL OF FLOOR TILING

- Permissible deviation in level from datum for _____ .



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- 550 FLATNESS/ REGULARITY OF TILING
- Sudden irregularities: Not permitted.
 - Deviation of surface: Measure from underside of a 2 m straightedge with 3mm thick feet placed anywhere on surface. The straightedge should not be obstructed by the tiles and no gap should be greater than 6 mm, i.e. a tolerance of ± 3 mm.
- 560 LEVEL OF TILING ACROSS JOINTS
- Deviation (maximum) between tile surfaces either side of any type of joint:
 - 1 mm for joints less than 6 mm wide.
 - 2 mm for joints 6 mm or greater in width.
- 710 THICK BED ADHESIVE - SOLID (FLOORS)
- Application: By floated coat of adhesive to dry base and comb surface.
 - Tiling: Apply coat of adhesive to backs of dry tiles. Fill any ribbed, deep keyed or button profiles. Press tiles firmly onto position.
 - Finished adhesive thickness: Within range recommended by manufacturer.

MOVEMENT JOINTS/ GROUTING/ COMPLETION

- 815 SEALANT MOVEMENT JOINTS
- Joints: Extend through tiles and bedding to base/ background. Centre over joints in base/ background.
 - Width: Minimum 6mm.
 - Sealant: Norcross 4 into 1 Silicone Sealant
 - Colour: To match grout colour.
 - Preparation and application: As section Z22.
- 875 GROUTING
- Sequence: Grout when bed/ adhesive has set sufficiently to prevent disturbance of tiles.
 - Joints: 6 mm deep (or depth of tile if less). Free from dust and debris.
 - Grouting: Fill joints completely, tool to profile, clean off surface. Leave free from blemishes.
 - Profile: _____ .
 - Polishing: When grout is hard, polish tiling with a dry cloth.
- 885 COLOURED GROUT
- Staining of tiles: Not permitted.
 - Evaluating risk of staining: Apply grout to a few tiles in a small trial area. If discoloration occurs apply Norcross Impregnating Sealer to tiles and repeat trial.



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