

DENNIS RUABON TILES LIMITED

Fixing Specification For: Chris Moore, McBains Cooper

Project: Bourne Estate

20 JUL 2007

GENERAL

We recommend that all ceramic floor tiling is carried out in accordance with BS 5385 Parts 1 – 4, and that installations are completed by reputable tile fixers, preferably registered with the National Master Tile Fixers Association. Dennis Ruabon produces a concise manual of Technical Data Sheets covering all aspects of preparation, fixing and aftercare of quarry tile products, and these are freely available on request from our Technical Services Department.

QUARRY TILES

As the project is for commercial use, Dennis Ruabon Quarry tiles & fittings are recommended to satisfy all relevant regulations and to conform to DETR requirements. All tiles used should conform to BS EN 14411:2003 and manufactured under a quality system approved to ISO 9001:2000

Product Ruabon Flame, Plain finish. RE & REX as required

Size 150 x 150 x 12.5

Manufacturer Dennis Ruabon Tiles Limited, Hafod Tileries, Ruabon, Wrexham. Telephone 01978 – 843484

FITTINGS

All fittings shall be from the same manufacturer and matching with the field quarry tiles unless otherwise stated.

Product Ruabon Heatherbrown 3 Rib Steptreads

Size 150 x 150 x 12.5

Manufacturer Dennis Ruabon Tiles Limited, Hafod Tileries, Ruabon, Wrexham. Telephone 01978 – 843484

PREPARATION

Before starting work ensure that backgrounds/bases are sufficiently level to permit specified flatness of finished surfaces, bearing in mind the permissible minimum and maximum thicknesses of the bedding material. New concrete bases should be subjected to continuous air drying for a period of at least 6 weeks

The underlying concrete base should be structurally sound and the immediate substrate should be cleaned thoroughly to ensure complete removal of any existing bedding materials, paint, oil, surface retarders and other materials incompatible with the bedding. Rinse with clean water and allow to dry unless specified otherwise.

Screeds should be laid to the desired falls and allowance made for incorporation of drainage channels where necessary. The screed should be subjected to continuous air drying for at least 4 weeks before tile bedding is laid

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Planning & preparation of surfaces for tiling should be carried out as described in Technical data sheet No. 1 at which stage consideration should be given to the requirement for movement joints as detailed in Technical data sheet No. 2.

Tiles should be thoroughly mixed to ensure a uniform blend of shades prior to laying.

FIXING

Fixing should be carried out using Ardex X7 G plus or similar cement based adhesive. The material should be mixed and used as manufacturers instructions and applied so as to provide a solid thick bed application as described in Technical Data sheet No.15

All tiles must be solidly bedded without voids and laid with underside fixing ribs in the same direction.

Joints to be true to line, continuous without steps and a **minimum** of 6mm wide for subsequent grouting.

Joints in floors to be parallel to the main axis of space or specified features.

Cut tiles to be kept to the minimum, as large as possible and in unobtrusive locations.

Surplus bedding should be cleaned from joints and faces of tiles without disturbing the tiles.

As work proceeds, and before the bedding has set, carefully remove random tiles as directed and in the presence of the Building Surveyor to verify that there is adhesion over the whole area. Remove the initial bedding material, butter the removed tiles with fresh adhesive and re-fix.

The floor must be left undisturbed for a period of approx 24 hours before grouting. Technical data sheet No. 7 refers.

GROUTING

Bedding material must be fully hardened prior to grouting.

Grouting should be carried out using Ardex C2 cement based grout or similar specification.

The grout should be thoroughly compacted into the joints and brought flush with the tiling surface.

Excess grout should be removed from the faces of the tiles as soon as practicable to facilitate easier final cleaning. Please follow manufacturer's instructions on application and cleaning

MOVEMENT JOINTS

Movement joints must extend through the tiles and bedding to the substrate and should be located in the following positions: -

- To coincide with any movement joints occurring in the substrate
- To the perimeter of the floor
- Around any rigid interruption in the tile finish (manhole covers, columns etc.)
- At intermediate distances not exceeding 8 metres in either direction

All movement joints should be constructed in accordance with the recommendations of clause 19 of BS 5385: Part 3:1989

Where appropriate edges of tile movement joints should be protected by a suitable proprietary stainless steel strip of a depth equal to the tile thickness and bedding. This applies particularly where the use of small or hard rimmed trolleys is expected.

The joint should be a maximum of 10mm wide and waterproof when sealed.

A two part Polysulphide sealant should be used to seal the movement joints.

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STEPTREADS

Ruabon 3 Rib Steptreads should be fixed to the front edge of steps to provide adequate grip. Consideration should be given to using a contrasting colour to satisfy requirements for partially sighted applications. Steptreads to be fixed and grouted as standard plain tiles.

The Disability Discrimination Act specifies Tactile Ribbed tiles to be used as level change warnings at stepped approaches. Use of these should be considered at design stage to ensure compliance.

CLEANING AND MAINTENANCE

On completion of the above it is necessary to remove all traces of grout and adhesive from the tiled surface and this should be carried out using HG Extra.

It is important during this operation that all removed contaminants are thoroughly flushed away using copious amounts of clean water.

A suitable cleaning regime for daily and periodic cleaning should be followed to ensure the floor is kept in optimum condition and free of bacterial contamination. This is detailed in Technical data Sheet No. 10.

It is not necessary to apply any sealer to Ruabon quarry tiles.

The information and advice given is to our knowledge, correct at the time of writing and is based on current British Standard Codes of Practice, long experience and extensive field and laboratory testing. However, its accuracy cannot be guaranteed and it is expressly excluded from any contract. If in doubt users should satisfy themselves of the validity and completeness of the information presented. Since the actual conditions of use and workmanship are outside our control, we are only able to guarantee our products if they are properly fixed.

Prepared by P.Pearson, Technical Services Manager 18 July 2007

All Technical Data Sheets and Product Specifications can be viewed & downloaded at www.dennisruabon.co.uk

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