

CONCRETE INTERLOCKING **TILE ROOFING**

WORKMANSHIP AND MATERIAL CLAUSES SPECIFIC

1.0 CONCRETE INTERLOCKING TILE ROOFING:

To be read with Preliminaries/General Conditions, Design Guide and Specification Guide by the approved manufacturer of concrete roofing products.

1.1 TILING GENERALLY:

a) Manufacturer's Information:

Comply with the approved manufacturers' Concrete Interlocking Tile Technical Guide and fixing instructions for each product.

Check that this is the current edition of the Technical Guide; if not consult the approved manufacturers' Technical Services Department and draw to the attention of the Contract Administrator any relevant technical changes.

b) Basic Workmanship:

Set out to give true lines and regular appearance fitting neatly at all edges, junctions and features.

Fix tile roofing to make the whole sound and weathertight at the earliest opportunity.

Repair any defects as quickly as practicable to minimise damage and nuisance.

Keep gutters and pipes free of debris and clean out at completion.

c) Suitability of Structure / Base:

Before commencement of tiling, survey supporting structure/base, checking line, level and fixing points.

Report immediately to the Contract Administrator if the structure/base is unsuitable to receive tiling.

1.2 EDGES/JUNCTIONS/FEATURES

a) Generally:

Ensure that related trades are provided with all relevant information relating to carpentry work, etc.

Before starting work ensure that previous related work is complete and in accordance with the project documents.

Form all details using the specified and approved manufacturers' recommended fittings and accessories: do not improvise without approval.

Fittings and accessories to be supplied by the approved manufacturer are to match the tile colour and finish unless specified otherwise.

Cut tiles only where necessary, with an appropriate tool, to give straight, clean edges. Fix edge tiles and fittings securely to neat, true lines.

Ensure that all lead flashings are fixed with, or immediately after the tiling, and are neatly dressed down.

As soon as practical, a smear coating of patination oil should be applied evenly in one direction, and in dry conditions.

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| <p>b) <u>Fire Separating Walls - (All Properties with Party Walls)</u>
 At 90° to eaves (i.e. roof space party walls between all properties).
 Ensure that separating wall is cut on the rake 25-50mm below top of adjacent rafters. Fill space over top of wall with layers of mineral fibre quilt so that when underlay and battens are laid it is lightly compressed. Tuck edges of quilt between edges of wall and adjoining rafters. Lay 300mm wide pads of mineral fibre quilt thick enough to seal all gaps cut to fit snugly between battens. Fix in position with continuous self-adhesive tape from ridge to eaves before tiling.</p> <p>Completely seal air paths in the plane of the separating wall with 50mm wire reinforced mineral fibre nailed to rafter and carefully cut to shape.</p> <p>Where it is not possible to cut back party wall to 50mm below level of tops of the adjoining roof timbers or there are issues associated with sealing air paths Contractor is to notify the Contracts Administrator and alternative instructions are to be agreed prior to commencing recovering of the roof structure</p> | | | | | |
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2.0 Joinery:

Battens:

JB RED BATTENS/COUNTERBATTENS – MACHINE GRADED TO BS5534.

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| <p>a) Sawn softwood species to BS 5534, clause 4.11.1. Fully machine graded to the permissible characteristic requirements of BS 5534, Annex D.</p> <p>b) Moisture content not more than 22% at time of fixing.</p> <p>c) Preservative treatment: In accordance with BS 8417: 2011 Usage Class 2 and/or as section Z12 and WPA Commodity Specifications C8.</p> <p>d) Batten Identification to be in accordance with BS 5534, Clause 4.11.5. Delivery documentation and each batten marked showing supplier name, origin/species, grade to BS 5534 and size.</p> <p>e) Size: 38 x 25mm (for rafters/supports not exceeding 450mm c/cs., fixed to BS 5534).
 Permissible characteristics and defects must not exceed the limits given in BS 5534: 2003, Annex C.
 Moisture content not more than 22% at time of fixing.</p> <p><u>Preservative treatment:</u></p> <p>f) CCA or OS double vacuum as British Wood Preserving and Damp-proofing Association Commodity Specification C8.</p> <p>g) To be in straight lines aligned on adjacent areas, spanning over three supports, with no batten less than 1200mm long.
 Batten joints to be square cut and butted centrally on supports.
 Fix each batten to each support, with splay fixings at joints.
 Joints must not occur more than once in any group of four battens on any one support.
 Provide an additional batten where an unsupported lap in the underlay occurs between battens.
 Provide additional supports to batten ends at hips.
 Ensure that batten fixings are specified to the correct length and diameter to resist anticipated design loads including wind uplift.</p> | | | | | |
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3.0 **MORTAR BEDDING / POINTING:**

a) **Mortar:**

1 : 3 masonry cement : sharp sand.

Do not use in wet or frosty weather or when imminent.

Tiles to be bedded must be wetted, and surface water allowed to drain before fixing.

Finish neatly as work proceeds and remove any residue.

b) **Sand for Mortar:**

To BS 1200, unless specified otherwise.

c) **Cement for Mortar:**

When not specified otherwise, to be Portland cement or Portland blast furnace cement, to class 42.5 or 52.5, manufactured and supplied under the BSI Kitemark scheme for cement.

All cements must comply with the appropriate British Standard.

d) **Site Storage:**

Store different sands and aggregates in different stockpiles on hard clean bases which allow free drainage.

Store factory produced premixed lime : sand for mortars and ready-to-use retarded mortars in covered containers to prevent excessive drying out or wetting.

Store bags of cement and hydrated lime in dry conditions, raised off the ground not touching damp surfaces.

Do not use cement or hydrated lime affected by damp.

Avoid intermixing and contamination between stored materials and other building materials, debris or other deleterious matter.

e) **Making Mortar:**

Keep plant and banker boards clean at all times.

Measure materials accurately by volume using clean gauge boxes. Proportions of mixes are for dry sand; allow for bulking if sand is damp.

Mix ingredients thoroughly to a consistence suitable for the work and free from lumps.

Mortars containing air-entraining admixtures must be mixed by machine, but do not overmix.

Do not mix mortar when the air temperature is at or below 3° C and falling or below 1° C and rising.

Use mortar within about two hours of mixing at normal temperatures.

f) Use retarded mortar within the time and site temperature recommended by the manufacturer.

Mortar may be retempered to restore workability, but only within these time limits.

g) **Dry Verge**

The Contractor is to install a continuous Dry Verge System in accordance with the specific Concrete Tile Manufacturers recommendations.

Bonding Gutters

h) The Contractor is to allow for bonding gutters as necessary where tiling cannot be coursed through and tiles / slates are being laid adjacent to dissimilar materials.

j) **Brick work alterations at eaves Level**

The contractor shall allow for altering brickwork to head of the brick work at eaves to allow air flow as necessary.