Metrotile Qube Roofing Specification

Metrotile Roof Systems Project Specification Sinclair Meadows

Profile: Metrotile Qube Tile Ebony Stone Coated

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NBS Model Specification – Metrotile Qube

This model specification is designed for specifiers of Metrotile Roof Systems products who require National Building Specification clauses (NBS), for sections H67 Single Lap Metal Roof Tiles. The model specification provided below is not designed to be exhaustive and is given in good faith.

The purpose/extent of the enclosed model specification is to provide an indicative outline of the general processes required to complete a successful Metrotile Roof. It is not the intent of this model specification to provide step by step guidance covering all aspects and issues that may be relevant to the installation of your specific project. Installers must always follow the installation instructions (available at www.Metrotile.co.uk) or contact Metrotile Roof Systems technical support team if in doubt.

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Important Notes:

Metrotile recommends that a site survey be undertaken by persons tendering the contract. It shall be the responsibility of the successful contractor to ensure that all necessary preparation and working practices are achieved to produce a level of workmanship and finished appearance resulting in client satisfaction.

The Generic Model Specification shown below assumes a timber trussed structure with trusses not exceeding 600mm centres. Roof pitch 15° and greater and cold roof structure.

Metrotile Qube Description:

An exciting addition to the Metrotile range, the Qube stone coated “Ebony” tile profile offers a sleek profile with clean lines and an attractive stone coated finish. Qube is a sleek and clean rectangular design offering simplicity & beauty. This distinctive, well-defined profile will add considerable character for the most contemporary of designs while offering the roof security that ‘traditional’ materials simply can’t match.

The sound generated by rainfall and other weather is as the tile has an acoustic level to a concrete tile. Qube is available in three granular stone coated colours.

Installable in straight or broken bond, the Qube’s elegant lines offer a stunning finish to any pitched rooftop.

Each tile is equivalent to the weight of ten conventional roof tiles and may be fixed from vertical right down to a 15° pitch; tiles are overlapped and then fixed, providing excellent strength and durability

Product guidance:

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Size:
1305 x 321 mm.
Minimum pitch:
15°.
Maximum pitch:
90°.
Side lap:
64 mm.
Coverage:
2.47 per m².
Weight:
5.18 kg/m².

Product specification:

Manufacturer:

Metrotile UK Ltd
Unit 3
Sheldon Business Park
Sheldon Corner
Chippenham
Wiltshire
SN14 0RQ

Tel: +44 (0)1249 658514
www.metrotile.co.uk
sales@metrotile.co.uk

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Fixings & Battens

Tile Fixing:	50 x 2.5mm Coated Nail
Coated Nail:	Hand nailing or power tool
FixingsPer Tile:	4
Battens Required:	5 linear metres per m2 (plus wastage)

Rafter Centres	**Batten Size**
450mm	38mm x 50mm
600mm	38mm x 50mm
900mm	50mm x 50mm
1200mm	50mm x 50mm

150 (H67) METAL SINGLE LAP ROOF TILING

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To be read with Preliminaries/ General conditions.

GENERAL

110 METAL ROOF TILING TO

- Substrate: Trussed rafters at 600mm centres (Assumed).
- Pitch: 15° and greater
- Underlay: Metrotile High Performance Breather Membrane.
- Direction: Parallel to eaves.
- Head-lap (minimum): 150mm – for 15° to 34° pitch, 100mm – for 35° pitch and above.
- Battens:
- Size: 50 x 38mm
- Gauge: 320mm
- Fixing: Strictly in accordance with manufacturer instructions
- Tiles:
  - Manufacturer: Metrotile UK Ltd.
    Product reference: Metrotile Qube Tile – Colour Stone Coated Ebony
  - Finish and durability: To meet the specified performance requirements. the metal tile and accessories required must; (1) Be manufactured from high quality steel and zinc/ aluminium/magnesium galvanised for maximum performance and durability. (2) Have a mandatory polyester coating on underside. (4) Subsequent acrylic resin coatings must have a non-toxic fungicide incorporated into the coating for added protection. (5) Have a stone granular finish, which must be ceramically colour glazed before being added to the resin coating, giving a good covering with no gaps between the granules. (6) Have a finishing coat of a clear acrylic resin, incorporating a U.V inhibitor, applied over the granules. (7) Manufactured to ISO 9000 Quality Standards and ISO 14001 Environmental Management Systems. (9) Be independently assessed to have a product life span of in excess of 40 years.
  - Colour: Ebony stone coated
  - Size: 1305 x 321 mm
  - Gauge: 320mm
  - Bond: Either Straight bond – recommended for simple shapes (i.e. gable to gable roofs) or Broken bond – recommended for complex shapes (i.e. hip and valley roofs).
  - Fixing: 4 no coated Metrotile nails or screws per tile located in positions as recommended in Metrotile Roof Systems installation guides

The bottom two course of tiles at the eaves to have a coastal coating on the rear and the tiles are marked on the rear with coastal and stone coated on the main surface

- **<u>NB</u> Metrotile Power Nail Gun is available from Metrotile UK Ltd at £450 plus VAT. Nails must be purchased from Metrotile UK Ltd to conform with conditions of guarantee**



- Other requirements: 40 years Weather Security Guarantee (consult with Metrotile for details and conditions)

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PRODUCTS

310 BATTENS/ COUNTERBATTENS - TREATED
- Timber: Sawn softwood.
  - Standard: BS 5534, clause 4.12.1.
  - Permissible characteristics and defects: Not to exceed limits in BS 5534, Annex C.
  - Moisture content at time of fixing and covering (maximum): 22%.
- Preservative treatment: As section Z12 and British Wood Preserving and Damp-proofing Association Commodity Specification C8.
- Type: Organic solvent (OS) or CCA as appropriate – see NBS section Z12, table 4.
  (Note: CCA treated wood must not be used in residential or domestic construction).

320 EAVES UNDERLAY SUPPORTS
- Type: Plastic underlay carrier.
- Manufacturer: Metrotile UK Ltd
  - Product reference: Metrotile EAVES FASCIA TRAY

325 EAVES VENTS
- Type: Fascia mounted ventilator with a continuous rafter roll eaves ventilation tray and gutter spacing brackets.
- Manufacturer: Metrotile UK Ltd.
- Product reference: Metrotile OVER FASCIA 25mm Eaves Ventilation System, in accordance with manufacturers recommendations.

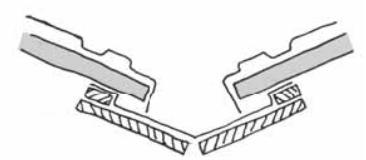
335 VERGE CAPS
- Manufacturer: Metrotile UK Ltd.
- Product reference: Metrotile Qube Barge Covers (Non Handed) stone coated Ebony

340 HIP CAPS
- Manufacturer: Metrotile UK Ltd.
- Product reference: Metrotile Qube DELTA RIDGE stone coated Ebony
- Accessories: If ventilation required, install over Metrotile HIP VENT STRIP

345 VALLEYS
- Manufacturer: Aluminium, Lead or GRP Valley Troughs complying with the requirements of BS 5534
- Product reference: Valley to be formed from metal sheet (or code 5 lead) or moulded glass fibre or similar approved lining, supported on valley boarding. See Lead valleys (if required to client's specification) in NBS sections: H71 – lead.

Lay valley boards flush with rafter level and install valley runner batten to each side of valley.

If needed install an additional packer batten, parallel to side of valley runner batten, so as to support sweep of tile batten.



Install tile battens to suit gauge of tiles, ensure that tile battens sweep up and over valley runner batten. Cut battens to rake projecting over valley to 65mm short of centre line of valley.

360 TOP ABUTMENT (UNVENTILATED METAL PROFILE UPSTANDS
- Manufacturer: Metrotile UK Ltd.

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- Product reference: Metrotile Top Course Flashing & Metrotile D Ridge/Hip Sealing Strip (Universal Expanding Hip Sealer 4m) - for use at unventilated top edge abutments

360A TOP ABUTMENT (VENTILATED) METAL PROFILE UPSTANDS
- Manufacturer: Metrotile UK Ltd.
- Product reference: Metrotile Qube Delta Ridge & Metrotile Universal Vent Strip to provide a ventilated top abutment, see clause 385)

375 RIDGE CAPS
- Manufacturer: Metrotile UK Ltd.
- Product reference: Metrotile Qube Delta end Cap Ridge stone coated ebony
- Accessories: Metrotile Universal Vent Strip to provide ventilation. Tile to be upturned, as per recommended installation guide.

385A STRIP VENTILATORS
- Manufacturer: Metrotile UK Ltd.
- Product reference: Metrotile Universal Vent Strip (ridge vent)
- Location: Ridges and top edge abutments

395 ROOF SLOPE VENTILATORS
- Manufacturer: Metrotile UK Ltd.
- Product reference: Metrotile Qube COWL VENT - 7,500mm2 (with spigot) stone coated
- Location: TBA by Client

EXECUTION

605 BASIC WORKMANSHIP
- General: Fix metal tiling and accessories to make the whole sound and weathertight at earliest opportunity.
- Setting out: To regular appearance, with neat fit at edges, junctions and features.
- Fixings of accessories: As recommended by metal tile manufacturer.
- Metal tiles: Laps must face away from valley or rainwater discharge pipes on roof.
- Cut metal tiles: Cold cut and treat as recommended by manufacturer. Tiles and accessories must not be cut with an angle grinder.
- Flashings: Fix with or immediately after metal tiling. Form neatly.

610 REMOVING EXISTING TILING
- General: Carefully remove tiles, battens, underlay, etc. with minimum disturbance of adjacent retained tiling.

615 FIRE SEPARATING WALLS
- Separating walls: Completely fill space between top of wall and underside of metal tiles with mineral wool quilt to provide fire stopping.
- Boxed eaves: Completely seal air paths in plane of separating wall with wire reinforced mineral wool, not less than 50 mm thick, fixed to rafters and carefully cut to shape to provide fire stopping.

625 LAYING UNDERLAY
- Handling: Do not tear or puncture.
- Laying: Maintain consistent tautness.
- Vertical laps (minimum): 100 mm wide, coinciding with supports and securely fixed.
- Fixing: Aluminium or steel coated by zinc or zinc alloy, 20 x 3 mm clout head nails.
- Eaves: Where exposed, underlay must be BS 747/ BS 5534, Annex A Type 5U, or an equivalent UV durable type.
- Penetrations: Use proprietary underlay seals or cut underlay to give a watertight fit around pipes and components.

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- Ventilation paths: Do not obstruct.

645 FIXING BATTENS - ROOF TILING
- Setting out: Align parallel to ridge in straight horizontal lines to gauge required by the metal tile. Align on adjacent areas.
- Batten length (minimum): Sufficient to span over three supports.
- Joints in length: Square cut. Butt centrally on supports.
- Rafters up to 600 mm centres: Not more than one batten joint in any four consecutive battens on the same support.
- Rafters over 600 mm centres: Stagger batten joints to avoid coincidence on same support.
- Additional battens: Provide where unsupported laps in underlay occur between battens.
- Fixing: Each batten to each support. Skew fix at joints in length.

655 FIXING METAL TILES
- Setting out: Lay each course to specified bond.
- Side laps: 64mm
- Fixing: As recommended by metal tile manufacturer.
- Nail heads: Treat vertically driven nail heads with Metrotile finishing kit.

660 VENTILATED EAVES FOR COLD ROOF CONSTRUCTION
- Eaves vents: Fix to top of fascia board.
- Ventilator trays: Fix to provide free passage of air over insulation.
- Underlay support: Continuous to prevent water-retaining troughs.
- Gutter: Dress underlay or underlay support tray to form drip into gutter. Ensure gutter brackets are fixed to provide a ventilation path to eaves vents.
- First course metal tiles: Fix with tails projecting 40 mm over gutter or to centre of gutter, whichever dimension is the lesser Seal the heads of vertically driven nails with Metrotile finishing kit.
- Fixing: Fix with 4no. Metrotile nails on each side
- Manufacturer: Metrotile UK Ltd.

670A VERGES
- Barge board: The top of the barge board should be level the top face of the battens
- Underlay: Carry over full width of verge and turn up face of barge board.
- Battens: Carry over underlay and finish adjacent to barge board.
- Verge fixing batten: Size: 2no. 50 x 38mm
- Fixing: To battens and external face of bargeboard
- Metal tiles: Cut and form to an upstand.
- Verge and end caps: Fix with 4no. Metrotile nails on each side.

675 HIPS
- Underlay: Lay courses over hip.
- Overlaps (minimum):150 mm.
- Hip fixing battens:
- Size: 50 x 38mm
- Fixing: Install over Metrotile Ridge/Hip sealing strip (Ref: Universal Expanding Hip Sealer 4m) and secure through tile into underlying battens.
- Metal tiles: Raking cut tiles.
- Hip and end caps: Fix to face of fixing battens with 4no. Metrotile nails on each side of the D Ridge.

690 LAYING GRP VALLEY
- Valley boards: Locate in a position suitable to accept metal tiling.
- Underlay: Lay as recommended by GRP valley manufacturer.
- Battens: Project over valley to provide fixing for metal tiles.
- Metal tiles: Cut adjacent tiles to fit neatly, allowing sufficient downturn to cover battens.
- Valley width between tiles: as appropriate to comply with the requirements of BS 5534

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700 SIDE ABUTMENTS WITH METAL PROFILE UPSTAND
- Underlay: Turn up not less than 100 mm.
- Metal tiles: Cut and form to an upstand.
- Side abutment metal profile: Fix as recommended by manufacturer.
- Flashing: Dress over metal profile upstand.

705 SIDE ABUTMENTS
- Underlay: Turn up not less than 100 mm.
- Metal tiles: Cut and form to an upstand.
- Flashing: Dress over metal tiles.

710A TOP ABUTMENTS (UNVENTILATED) WITH METAL PROFILE UPSTAND
- Underlay: Turn up not less than 100 mm.
- Battens: Position and fix to suit metal profile upstand.
- Abutment fixing battens:
- Size: 50mm x 38mm
- Fixing: Install over Metrotile Ridge/Hip sealing strip (Ref: Universal Expanding Hip Sealer 4m) to battens.
- Metal tiles: Cut tile.
- Top abutment metal profile: Fix as recommended by manufacturer.
- Flashing: Dress over metal profile upstand.

720A VENTILATED TOP ABUTMENTS WITH METAL PROFILE UPSTAND
- Underlay: Provide 5 mm air gap at abutment.
- Battens: Position and fix to suit metal profile upstand and maintain air gap.
- Metal tiles: Cut tiles close to abutment and maintain air gap
- Abutment fixing battens:
- Size: 50mm x 38mm
- Fixing: Install over Metrotile Ridge/Hip sealing strip (Ref: Universal Expanding Hip Sealer 4m) through tile into underlying tile battens.
- Ventilator: Metrotile HIP VENT STRIP (600mm). Install between upstand of tile and top course flashing unit.
- Top abutment metal profile: Cut and bend Metrotile Delta Ridge to form a top course flashing unit and install as recommended by manufacturer.
- Flashing: Dress over metal profile upstand.

730 ROOF WINDOW PERIMETERS
- Tiling substrate work: Prepare roof structure as recommended by manufacturer.
- Underlay: Turn up not less than 100 mm at window surrounds under integral flashings/ soakers.
- Metal tiles: Cut, bend and fix forming appropriate upstands and downturns to suit adjacent roof window.

740 VENTILATED RIDGES
- Underlay: Lay to provide a 10 mm air gap centred on the ridgeline.
- Battens: Position and fix to suit ridge cap profile.
- Ridge fixing battens:
- Size: 50mm x 38mm
- Fixing: Install with Metrotile Universal Vent Strip and secure through the tile into underlying battens.
- Metal tiles: Cut tiles.
- Ventilator: Metrotile Universal Vent Strip. Install between fixing batten and top surface of tile
- Ridge and end caps: Fix to face of fixing battens through continuous ventilator.

765 INSTALLING ROOF SLOPE VENTILATORS
- Ventilator tiles:
- Requirement: To ventilate roof void (for cold roof structures). To ventilate above insulation (for warm roof structures)

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- Position: _____

COMPLETION

910 COMPLETION
- Roof area: Clean.
- Rainwater pipes, gutters and outlets: Clear.
- Metal tile profiles: Free from defects.
- Roof edges, junctions and features: Watertight.

LEADWORK & ASSOCIATED LEAD FLASHINGS:

As an alternative to the use of traditional lead flashings we have included in this specification for the use of proprietary lead substitute products.

NOTE: There are currently no specific NBS clauses produced for lead free waterproof flashing systems. For the purpose of this specification we have modified the clauses contained within NBS section H71 lead sheet coverings and flashings to suit a lead free waterproof flashing system. All users of this specification must verify the information and ensure that it is suitable for the particular project application for which it is required

H71 LEAD SHEET COVERINGS/FLASHINGS

To be read with Preliminaries/ General conditions. NOTE: There are currently no specific NBS clauses produced for lead free waterproof flashing systems. For the purpose of this specification we have modified the clauses contained within NBS section H71 lead sheet coverings and flashings to suit a lead free waterproof flashing system. All users of this specification must verify the information and ensure that it is suitable for the particular project application for which it is required

60A MATERIALS AND WORKMANSHIP GENERALLY:
- Lead Free Flashing Systems
  - Manufacturer: As approved by Metrotile UK Ltd
  - Product reference: Lead free waterproof flashing for use in all applications where lead is traditionally installed
  - Finish and durability: SEBS modified bitumen on a malleable aluminium mesh finished with a fine grey granular finish on the outer face and a polyethylene film on the inner face, or equivalent
  - Colour: TBA by client
- Site Work & Installation:
  - Product is installed and worked in a similar way to traditional lead flashing, without the need for protective measures, except for wearing gloves to protect from cuts.
  - Product may be cut with a sharp knife or tin snips.
  - When installed in exposed conditions, product should be mechanically fixed with appropriate stainless steel flat headed self drilling fasteners. Where fastening to Metrotile Tiles the fasteners should be installed in the same positions as the general positioning of the nails used to fasten the Metrotile roof tiles (e.g. Fasteners along the vertical plane of the roof should be located through the downturned nose as shown in the Metrotile's installation guides. Fasteners along the horizontal plane of the roof should be located 10mm from the high point of the pan for Metrotile profiles
  - is weldable with hot air gun or flame free welder.
  - Cut, joint and dress product neatly and accurately, to provide fully waterproof coverings/flashings, free from ripples, kinks, buckling and cracks.

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- Comply with BS 6915 and good practice as described in the latest editions of 'The Lead Sheet Manual' published by the Lead Sheet Association, unless agreed otherwise.
- Ensure that finished flashings are fully supported, adequately fixed to resist wind uplift but also able to accommodate thermal movement without distortion or stress

30A APRON FLASHINGS
- Material: Metrotile Approved lead substitute
- End to end joints: Laps of not less than 100 mm.
- Upstand not less than 75 mm.
- Cover to abutment: in accordance with Lead Sheet Association recommendations
- Fixing: Dress product into joint/chase and fix with wedges (cut from Metrotile Approved lead substitute) at not more than 300 mm centres. Product should be mechanically fixed with appropriate stainless steel flat headed self drilling fasteners see clause 60A

35A COVER FLASHINGS:
- Material: Metrotile Approved lead substitute
- End to end joints: Laps of not less than 100 mm.
- Cover: Overlap to upstand of not less than 75 mm.
- Fixing: Dress into joint/chase and fix with wedges (cut from Metrotile Approved lead substitute) at not more than 300 mm centres. Product should be mechanically fixed with appropriate stainless steel flat headed self drilling fasteners see clause 60A

45A STEP AND COVER FLASHINGS:
- Material: Metrotile Approved lead substitute
- End to end joints: Laps of not less than 100 mm.
- Dimensions:
  Upstand: Not less than 85 mm.
  Cover to roof: Not less than 150 mm.
- Fixing: Dress into joint/chase and fix with wedges at every course (cut from product) at not more than 300 mm centres. Product should be mechanically fixed with appropriate stainless steel flat headed self drilling fasteners see clause 60A

52A CHIMNEY FLASHINGS:
- Front apron: Metrotile Approved lead substitute
  Length: Width of chimney plus not less than 150 mm underlap to each side flashing.
  Upstand: Not less than 75 mm.
  Cover to roof: in accordance with Lead Sheet Association recommendations
  Fixing: Dress into joint/chase and fix with wedges (cut from Metrotile Approved lead substitute) at not more than 300 mm centres. Product should be mechanically fixed with appropriate stainless steel flat headed self-drilling fasteners see clause 60A
- Back gutter: Metrotile Approved lead substitute
  Length: Width of chimney plus not less than 100 mm overlap to each side flashing.
  Upstand: Not less than 100 mm.
  Gutter Sole: Not less than 150 mm.
  Cover up roof: Not less than 225 mm.
- Back gutter cover flashing: Metrotile Approved lead substitute
  Length: Width of chimney plus not less than 100 mm overlap to each side flashing.
  Cover: Overlap to back gutter upstand of not less than 75 mm.
  Fixing: Dress into joint/chase and fix with wedges (cut from Metrotile Approved lead substitute) at not more than 300 mm centres. Product should be mechanically fixed with appropriate stainless steel flat headed self-drilling fasteners see clause 60A

65A EXISTING LEAD TO BE REMOVED will become the property of the contractor. The scrap value of such lead must be estimated by the contractor, itemised separately in the tender, and set against the tender sum.

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70A REPLACEMENT OF EXISTING LEAD WITH LEAD SUBSTITUTE must be carried out in small sections at a time to reduce the risk of weather damage. Provide temporary waterproof coverings to prevent damage to the existing base and building.

75A TIMBER FOR USE WITH METROTILE APPROVED LEAD SUBSTITUTE:
- Planed, free from wane, pitch pockets, decay and insect attack except pinhole borers.
- Moisture content: Not more than 22% at time of covering.
  Inform CA if moisture content greater than 16%.
- Preservative treatment: As section Z12 and British Wood Preserving and Damp-proofing Association Commodity Specification C8.
  - Type: Organic solvent (OS) or CCA as appropriate – see NBS section Z12, table 4.
    (Note: CCA treated wood must not be used in residential or domestic construction).

84A WELTED JOINTS:
- Where a welted joint is necessary form with a 50 mm overlap, 25 mm underlap and mechanically fix with appropriate stainless steel flat headed self drilling fasteners at 450 mm centres.

90A WEDGE FIXING INTO JOINTS/CHASES:
- Carefully rake out joint/chase to a depth of not less than 25 mm.
- Dress into joint/chase and fix with wedges (cut from Metrotile Approved lead substitute) at not more than 450 mm centres, at every change of direction and with at least two for each piece of Metrotile Approved lead substitute.
- Prepare joint/chase and apply appropriate sealant.

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2. All users must verify the information and ensure that it is suitable for the particular project application for which it is required.
3. This model specification assumes that the new or existing roof structure is in a satisfactory condition and is built in accordance with accepted building practice. It is the client's responsibility to satisfy itself that the roof is structurally sound and that local conditions and current Health and Safety Regulations have been taken into account before any contract is undertaken.
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NBS
The Old Post Office
St Nicholas Street
Newcastle upon Tyne
NE1 1RH

Tel: 0345 200 1056
Email: info@theNBS.com
Web: http://www.thenbs.com

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