

## Product



• THIS DETAIL SHEET RELATES TO METROROMAN, A PREFORMED ACRYLIC-COATED, ALUMINIUM-ZINC ALLOY-COATED STEEL TILE WHICH SIMULATES FIVE CONVENTIONAL ROOFING TILES.

• MetroRoman tiles have a mineral-filled acrylic coating followed by stone granules and a clear acrylic glaze coat, and are available in 11 colours with a steel thickness of 0.45 mm.

• The tiles may be installed on conventional steel or timber structures with a minimum pitch of 10°.

This Detail Sheet must be read in conjunction with the Front Sheets, which give the product's position regarding the Building Regulations and general information relating to the products, and the Conditions of Certification, respectively.

## Technical Specification

### 1 Description

1.1 MetroRoman tiles are pressed from epoxy or acrylic-coated aluminium-zinc alloy-coated steel sheet to a shape simulating five conventional tiles (see Figure 1). The tiles are finished with a mineral filled acrylic coating followed by stone granules and a clear acrylic glaze coat (see Figure 2).

1.2 The tiles have dimensions of:

thickness of sheet (mm)	0.45
length of sheet (mm)	1280
cover length (mm)	1210
cover width (mm)	370
upstand (mm)	27
side lap (mm)	70
weight of tile (kg)	2.7
weight of tiled roof (kgm <sup>-2</sup> )	6.3

1.3 The tiles have a downturned lower edge and an upturned upper edge for interlocking purposes (see Figure 3).

1.4 Adjacent tiles are overlapped with side laps of 70 mm.

1.5 The tiles are available in five standard colours:

- terracotta
- charcoal
- coffee
- greenstone
- red.

Figure 1 MetroRoman tiles and nailing points



Figure 2 Section through tile

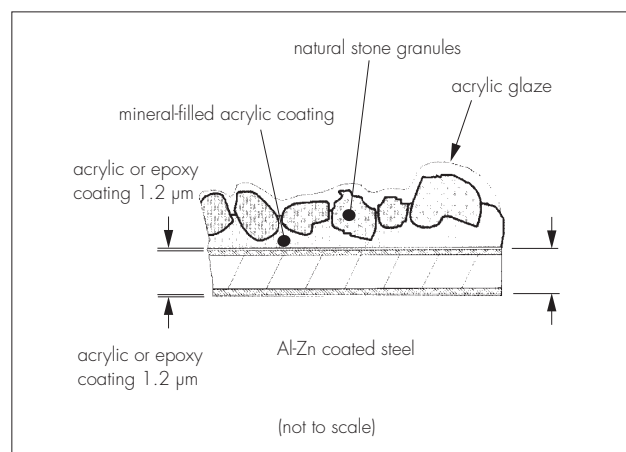
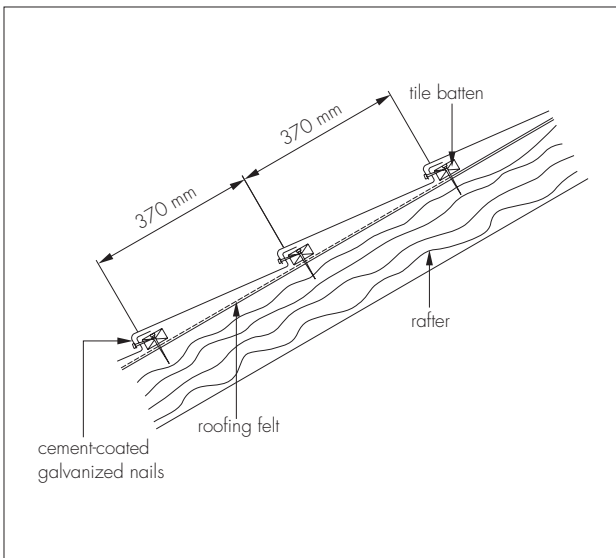


Figure 3 Spacing and fixing details



## Installation

### 2 General

2.1 The required batten size for standard truss spacings is given in Table 1. The roof construction should be in accordance with the relevant requirements of BS 5534 : 2003.

Table 1 Minimum permitted batten size for standard truss spacings

Tile profile batten size (mm)	Rafter/Truss spacing (mm)
50 x 25	450
50 x 40	600
50 x 40	900
50 x 50	1200

2.2 Where the rafters/trusses are spaced at 900 mm or 1200 mm centres, polypropylene or nylon tapes must be nailed to the rafters to support the underlay.

2.3 Rafters must be securely tied to the building structure with, for example, galvanized steel straps complying with BS 5628-3 : 2005.

2.4 Battens are secured over the underlay and roof trusses. The fixings used to secure the battens to the rafters must be adequate to resist predicted wind loads.

2.5 Where timber boarding is laid on the rafters, timber counter battens should be installed in accordance with BS 5534 : 2003.

2.6 Tiles are laid onto the battens with the upper and lower edges interlocking and with side laps of one small corrugation. Fixing is by nailing through the small corrugations adjacent to the battens on the down-turned nose and rear upstand interlocking edges using four 50 mm long by 2.8 mm diameter nails per tile (see Figures 1 and 3).

2.7 To avoid tearing the underlay fixings should not penetrate the bottom of the battens.

2.8 Tiles are preferably cut and formed with a guillotine and a tile-bending machine, but small quantities may, with care, be cut with tin snips or sheet metal cutters and bent by hand.

2.9 The accessories are cut, formed and installed as necessary to complete the installation.

## Bibliography

BS 5534 : 2003 *Code of practice for slating and tiling (including shingles)*

BS 5628-3 : 2005 *Code of practice for the use of masonry — Materials and components, design and workmanship*



On behalf of the British Board of Agrément

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Chief Executive

