VILLATILE®

VILLATILE

Villatile panels roof pitches from 10° to 90°

Villatile lightweight roofing tiles, to be supplied by Britmet Tileform Ltd. Each tile must be secured using four no. coloured 2.6mm x 50mm galvanised fixing nails,driven through the downturned nose of the tile into the face of the battens, (for 0.9mm Villatile, a coloured Tek screw can be used- part no: ASF2-OOE55) Note: Stagger bond the tiles

BATTENS

Treated tiling battens of approved quality (e.g. tanalised), of suitable section laid at 370mm centres (for 0.45mm thick) or 368mm centres (for 0.9mm thick) except the eaves batten (see eaves section) and secured to the rafters using galvanised nails. Joints in the battens should be staggered and meet half way across the top of the rafters, as standard code of practice.

LINIDERLAY

Approved reinforced felt, BS747 (type 1F) or VPU Breather membrane to be laid over rafters, lapped and secured to the rafters with galvanised clout nails and carried well into gutters. All to comply with current regulations.

VENTED TOP ROW (Under Half Round Ridge)

Two tile battens to be fitted side by side on both sides of the ridge, using galvanised nails. If necessary, the top course of tiles to be cut and bent using a guillotine and folder (available from Britmet Tileform Ltd) The rear edge of the tile is to be turned up to form a 25mm upstand against the top tile batten. Each tile must be secured using four nails driven through downturn as previously described. The vented top row flashing is to be fitted over each side, and fastened to the tile battens, nailed through the downturn of the vented top row, into the tile upstand, and face of the batten, using five nails per side.

HALF ROUND RIDGE

The ridge caps to be laid across the ridge of the vented top row flashing, and fastened down through the top of ridge flange., into the ridge of vented top row flashings. The end caps to be fitted at ridge/ hip ends, and exposed cut edges should be treated with touch up kit supplied.

ANGLE HIP FLASHING (Half Round Ridge)

A 38mm x 38mm hip batten to be nailed to the tile battens on each side of the hip rafter, using galvanised nails.

Tiles to be cut and bent to form a 25mm - 35mm upstand against the hip battens, using a guillotine and bender (available from Britmet Tileform Ltd).

The hip half round ridge flashing is to be fitted over the battens and nailed through the downturn, into the face of the battens using four nails on each side.

EAVES

The bottom course of tiles to be secured using four no. coloured, 50mm tek screws fixing driven vertically through the tile, as near to the high point of the tile profile as possible and into the fascia board, or through the eaves batten placed approximately 20mm behind the fascia board if the Villatile eaves ventilation system is used. These nail heads to be sealed using the Villatile finishing kit.

The top of the fascia board or eaves vent, if used, to be in line with top of battens. Fit Lay Board or Tilting Fillet at the eaves if appropriate, to ensure any moisture on the underlay drains into gutter.

EAVES VENTILATION

Roof pitch above 15°

The top of the fascia board should be fixed 23mm below the top face of the eaves batten allowing for the Villatile 10mm eaves vent system.

Roof pitch below 15°

The top of the fascia board should be fixed 25mm below the top face of the eaves batten allowing for the Villatile, 25mm eaves vent system. Note: Where

the insulation follows the roof slope, the Villatile ventilation tray should be installed between the rafters

VALLEY

The valley should be formed from lead, moulded glass fibre or similar approved lining, supported on valley boards. Tile battens should project over the valley to provide fixing for the tiles.

Villatile panels to be measured, cut and bent, using the guillotine and bender (available from Britmet Tileform Ltd) allowing sufficient downturn into the valley.

BARGE BOARD COVER

The timber barge board should project 25mm above the top of the tile battens. A 50mm x 50mm timber batten to run parallel to the fascia board. Villatile panels should be cut and bent up against the timber barge batten.

The Villatile scribed barge board cover to be secured using 5 fixing nails driven through the downturned edge into the barge board and five nails to be driven vertically into the barge batten (the heads of the vertically fixed nails to be sealed, using the Villatile finishing kit

SIDE-WALL FLASHING

Villatile scribed side-wall flashing to be secured using fixing nails, one driven vertically into each batten (these nail heads to be covered, using the Villatile finishing kit)

Villatile cover flashing to be dressed over the vertical section of the side-wall flashing and be dressed into the brickwork.

VILLATILE INLINE TILE AND SOIL VENT

To provide additional ventilation, the Villatile inline tile vents are available providing an airflow of $7,500 \, \mathrm{mm2}$

The tile underlay must be cut to allow the spigot of the tile vent to pass through. The Villatile panel vent is installed to provide full weather security. The tile vent is secured by overlapping a Villatile panel on either side and nailing through the nose of the tile, as previously described. Nails must not penetrate the vent tile.

The Villatile inline vent tile can also be used as a weather protected exit point for soil pipes or extractor fan ducts by means of a flexi hose and pipe adapter that connects the vent to 100mm stacts or duct work.

VILLATILE GAS FLUE RIDGE TERMINAL

Available to suit angle ridge. Type (R) adapter and extension piece supplied by others.

Please note: If full top course tiles need cutting at ridge, you must measure and fold tile first, and then cut tile to correct ridge measurement

Please note: This information is to be used as a guide only. It assumes that the structure of the existing building is in accordance with the building practice.

At your request a custom specification can be written for your individual project. Please contact our technical department at the address shown below.

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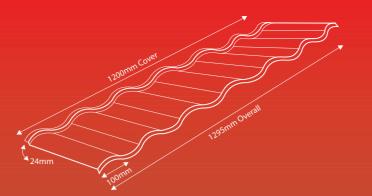
CI/SfB (47) Nh2

VILLATILE



BRITMET TILEFORM LIMITED

VILLATULE



SUITABLE FOR THE FOLLOWING TYPES OF PROJECTS

- Converting flat roofs to pitched.
- Non traditional/traditional housing.
- Pre-fabricated buildings.
- Holiday centre accommodation.
- · Community Centres.
- Re-roofing of schools/prisons.
- Over-roofing of asbestos/felt/industrial sheeting.

APPROVALS

ation systems comply with Building Regulations 1990(F2) & BS5250 (1989)







TABLE 1 RECOMMENDED TIMBER BATTEN SIZES (roofing & vertical applications)

Rafter or truss spacing (mm)	Minimum nailing requirements	Batten Width mm	Batten Depth mm	
450	1 no 75mm x 3.35mm	38	25	
600	1 no 75mm x 3.35mm	50	25	
900*	1 no 100mm x 4.00mm	50	50	
1200*	1 no 100mm x 4.00mm	50	50	
1500*	1 no 125mm x 12g screw	50	75	
*underlay supports between rafters/truss to be used, (wire support or nylon tape).				

TABLE 2

RECOMMENDED ROOFING UNDERLAY

Roofing underlay is required & BS 5534: Part 1: 1997 & BS 8000	ing underlay is required & should comply with recommendation's of 534: Part 1: 1997 & BS 8000		
Unsupported (roofing under- lay draped over rafters or counter-battens)	Roofing underlay should comply with BS747 type 1F or 5U		
Fully supported (roofing underlay laid directly to boarding or sarking)	Roofing underlay should comply with recommendation's of BS5534: Part 1: 1997 section 2.10.2 and vapour transmission tested in accordance with BS 3177 (n.b. good quality BS 747 type 1F underlay comply with this test)		

TABLE 3

RECOMMENDED LAPS FOR UNDERLAY

Pitch	I		Millimum			
Titell	Not fully Supported	Fully Supported	Sidelap			
10° to 12°	300mm	200mm	100 - 150mm			
12½° to 14°	225mm	150mm	100 - 150mm			
15° to 34°	150mm	100mm	100 -150mm			
35° & above	100mm	75mm	100 - 150mm			
NB. Any penetrations to the underlay should be suitably sealed to prevent water ingress. Roofing underlay laps to valleys should comply with recommendations of BS 5534: Part 1:1997 section 4.2.1.6						

TABLE 4

CALCULATION CHART (estimating guide for 0.45 only)

Chart below allows for a 25mm fascia and 20mm to the first batten.

Overall Roof Length (m)	N° of Tile Panels	Rafter Length to suit full courses of tile inc. facia	Number of Tiles Required		
1.2	1	0.295	1		
2.4	2	0.665	2		
3.6	3	1.035	3		
4.8	4	1.405	4		
6.0	5	1.775	5		
7.2	6	2.145	6		
8.4	7	2.515	7		
9.6	8	2.885	8		
10.8	9	3.255	9		
12.0	10	3.625	10		
13.2	11	3.995	11		
14.4	12	4.365	12		
15.6	13	4.735	13		
16.8	14	5.105	14		
For wastage on Hips & Valleys, allow an additional 1.32 tiles per lm					

ADVANTAGES

• Designed to give a traditional tile appearance.

• Lightweight.

• Minimum pitch 10°.

• Good vandal resistance (0.9mm steel base).

• Easy to handle.

• Offers reduced structure.

Ouick installation.

• Less labour intensive.

Cost effective.

• Virtually maintenance free.

· Extensive range of accessories and flashings available.

• Fully dry-fixed.

• Guaranteed for 30-years against weather penetration.

• Full technical support available.

TECHNICAL DATA

10° Min. pitch: Max. pitch: 90° Overall width: 1295mm Cover width: 1200mm Side lap: 95mm Step: 24mm Batten gauge (0.45mm): 370mm Batten gauge (0.9mm): 368mm Individual tile width: 100mm **Roof cover per tile panel:** 0.44m² Villa panels per m²: 2.25

Steel base: 0.45mm & 0.9mm Weight as laid per m2: 7kg & 11kg Acrylic resin. Base coat:

Top coat: Stone granules with clear acrylic overglaze. Titanium grey, Bramble Brown, Tartan Green, Colours available: Rustic Terracotta. Brindle available on request.

Chemical resistance: Unaffected by normal pollution. Non toxic fungicide incorporated. Biological resistance:

manufacturers recommended fixings and sealant.

Ventilation: Roof ventilation should meet recommendations of Building Regulations 1991 (amended '92, '94).

Approved Document F2 1995 'Condensation in roofs', BS 5250: 1989' Control of condensation'.





Britmet Tileform has one of the widest ranges of lightweight Tile/Slate effect roofing systems available on the market today. To view our up-to-date product information, please visit our web-site.

Acrylic Top Coat

Stone Granules *****

Acrylic Base Coat ▶

0.9mm Galvanised Steel Panel

Epoxy Primer >

Epoxy Primer

Polyester Coating |



Offers instant access to: Performance properties, full range of product applications photographs, product information, specifications, technical drawing library (CAD & .BMP format) and much more.

