

# The Complete Roof System Selector

ROOF SOLUTIONS

**Sandtoft**



## INTRODUCTION

**Founded in 19th Century Vienna, Wienerberger is a leading provider of wall, roof and landscaping innovations. Today, we have 217 production sites in 27 countries. In the UK, Wienerberger has three showrooms, thirteen production sites and eight distribution depots, with our head office in Cheadle, Cheshire.**

With in excess of 1000 products across wall, roof and landscaping categories, we offer building solutions across the whole envelope. From the latest in construction innovation to traditional handmade and heritage techniques, we're able to provide our customers with a whole suite of added value systems and services.

As a company, we believe that everything we do should make a lasting contribution towards creating a better quality of life.

In the UK, we offer one of the broadest product portfolios in the construction business, including clay facing bricks (stock and wire-cut), specialist engineering bricks, the Porotherm clay block system, façade solutions including SVK fibre cement panels, the Corium cladding system and a wide range of brick slips. We also offer a full range of Sandtoft and Koramic clay and concrete roofing products, Keymer handmade roof tiles, bespoke heritage products and a range of domestic and commercial pavers.

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# ROOF TILE SELECTOR

## Plain Tile

### Plain Tile



Material Concrete  
Minimum roof pitch 35°  
Size of tile (mm) 265 x 165  
Quantity per pallet 768  
Covering capacity (per m<sup>2</sup>) \* 60.0 tiles  
Full product details on page 14-15

### Goxhill Plain Tile



Material Clay  
Minimum roof pitch 35°  
Size of tile (mm) 265 x 165  
Quantity per pallet 540  
Covering capacity (per m<sup>2</sup>) \* 60.0 tiles  
Full product details on page 82-83

## Large Format Flat Tile

### Calderdale Edge



Material Concrete  
Minimum roof pitch <sup>2</sup> 16.5° - 22.5°<sup>†</sup>  
Size of tile (mm) 420 x 334  
Quantity per pallet 192  
Covering capacity (per m<sup>2</sup>) 10.2 - 9.5 tiles  
Full product details on page 22-23

### Humber Plain Tile (also available in Sanded) <sup>2</sup>



Material Clay  
Minimum roof pitch 35°  
Size of tile (mm) 265 x 165  
Quantity per pallet 540  
Covering capacity (per m<sup>2</sup>) \* 60.0 tiles  
Full product details on page 36-39

### Shire Plain Tile



Material Clay  
Minimum roof pitch 40°  
Size of tile (mm) 265 x 165  
Quantity per pallet 550  
Covering capacity (per m<sup>2</sup>) \* 60.0 tiles  
Full product details on page 84

### Dual Calderdale Edge



Material Concrete  
Minimum roof pitch <sup>2</sup> 16.5° - 22.5°<sup>†</sup>  
Size of tile (mm) 420 x 334  
Quantity per pallet 192  
Covering capacity (per m<sup>2</sup>) 10.2-9.5 tiles  
Full product details on page 24-25

### Village Plain Tile



Material Clay  
Minimum roof pitch 35°  
Size of tile (mm) 265 x 165  
Quantity per pallet 540  
Covering capacity (per m<sup>2</sup>) \* 60.0 tiles  
Full product details on page 40-41

### Traditional Plain Tile



Material Clay  
Minimum roof pitch 40°  
Size of tile (mm) 265 x 165  
Quantity per pallet 760  
Covering capacity (per m<sup>2</sup>) \* 60.0 tiles  
Full product details on page 85

### TLE



Material Concrete  
Minimum roof pitch <sup>2</sup> 17.5° - 22.5°<sup>†</sup>  
Size of tile (mm) 420 x 334  
Quantity per pallet 240  
Covering capacity (per m<sup>2</sup>) 10.3 - 9.6 tiles  
Full product details on page 26-27

### Alban Plain Tile



Material Clay  
Minimum roof pitch 35°  
Size of tile (mm) 265 x 165  
Quantity per pallet 530  
Covering capacity (per m<sup>2</sup>) \* 60.0 tiles  
Full product details on page 42-43

### Peg Tile



Material Clay  
Minimum roof pitch 40°  
Size of tile (mm) 250 x 150  
Quantity per pallet 800  
Covering capacity (per m<sup>2</sup>) \* 60.0 tiles  
Full product details on page 86

### Dual TLE



Material Concrete  
Minimum roof pitch <sup>2</sup> 17.5° - 22.5°<sup>†</sup>  
Size of tile (mm) 420 x 334  
Quantity per pallet 240  
Covering capacity (per m<sup>2</sup>) 10.3 - 9.6 tiles  
Full product details on page 28-29

### Barrow Plain Tile



Material Clay  
Minimum roof pitch 35°  
Size of tile (mm) 265 x 165  
Quantity per pallet 530  
Covering capacity (per m<sup>2</sup>) \* 60.0 tiles  
Full product details on page 44-45

## Medium Format Plain Tile

### 20/20



Material Clay  
Minimum roof pitch 15° - 22.5°<sup>†</sup>  
Size of tile (mm) 330 x 226  
Quantity per pallet 480  
Covering capacity (per m<sup>2</sup>) 22.7 - 20.5 tiles  
Full product details on page 50-51

### Cassius



Material Clay  
Minimum roof pitch 22.5°  
Size of slate (mm) 418 x 335  
Quantity per pallet 240  
Covering capacity (per m<sup>2</sup>) \* 9.5 tiles  
Full product details on page 54-55

### 301 Plain Tile



Material Clay  
Minimum roof pitch 35°  
Size of tile (mm) 270 x 170  
Quantity per pallet 1152  
Covering capacity (per m<sup>2</sup>) \* 57.4 tiles  
Full product details on page 46-47

### Rivius



Material Clay  
Minimum roof pitch 22.5°  
Size of slate (mm) 418 x 335  
Quantity per pallet 240  
Covering capacity (per m<sup>2</sup>) \* 9.5 tiles  
Full product details on page 56-57

### 303 Plain Tile



Material Clay  
Minimum roof pitch 35°  
Size of tile (mm) 270 x 170  
Quantity per pallet 1152  
Covering capacity (per m<sup>2</sup>) \* 57.4 tiles  
Full product details on page 48-49

### Vauban



Material Clay  
Minimum roof pitch 22.5°  
Size of tile (mm) 366 x 202  
Quantity per pallet 350  
Covering capacity (per m<sup>2</sup>) \* 21.8 tiles  
Full product details on page 52-53

### Actua



Material Clay  
Minimum roof pitch 22.5°  
Size of tile (mm) 472 x 334  
Quantity per pallet 240  
Covering capacity (per m<sup>2</sup>) \* 10.4 tiles  
Full product details on page 58-59

## Key

- Concrete tile. \* Covering capacity at maximum gauge (per m<sup>2</sup>).
- Clay tile. † Refer to the Low Pitch Installation Guide, available on our website.
- Keymer tile. <sup>1</sup> Minimum pitches for concrete tiles are for Smooth colours only - for Sanded colours minimum pitch is 30°.
- ✦ Handmade tile. <sup>2</sup> For Calderdale Edge, Dual Calderdale Edge, TLE, Dual TLE, Double Pantile, Double Roman, 20/20, Neo Plus and Modula minimum pitch is subject to headlap.

This data is correct at the time of going to press and may be subject to change.

## Pantiles

### Shire Pantile (also available in Sanded)<sup>2</sup>



Material	Concrete
Minimum roof pitch <sup>1</sup>	17.5°
Size of tile (mm)	380 x 230
Quantity per pallet	360
Covering capacity (per m <sup>2</sup> ) * 16.4 tiles	
Full product details on page 20-21	

### Double Pantile (also available in Sanded)<sup>2</sup>



Material	Concrete
Minimum roof pitch <sup>1,2</sup>	15° - 22.5° <sup>†</sup>
Size of tile (mm)	420 x 334
Quantity per pallet	210
Covering capacity (per m <sup>2</sup> )	10.5 - 9.7 tiles
Full product details on page 32-33	

### Neo Plus



Material	Clay
Minimum roof pitch <sup>2</sup>	20° <sup>†</sup>
Size of tile (mm)	384 x 250
Quantity per pallet	432
Covering capacity (per m <sup>2</sup> ) * 14.9 tiles	
Full product details on page 60-61	

### New County Pantile



Material	Clay
Minimum roof pitch	22.5°
Size of tile (mm)	382 x 256
Quantity per pallet	378
Covering capacity (per m <sup>2</sup> ) * 15.5 tiles	
Full product details on page 62-63	

### Old English Pantile



Material	Clay
Minimum roof pitch	30°
Size of tile (mm)	342 x 252
Quantity per pallet	288
Covering capacity (per m <sup>2</sup> ) * 17.3 tiles	
Full product details on page 64-65	

### Arcadia Pantile



Material	Clay
Minimum roof pitch	30°
Size of tile (mm)	342 x 252
Quantity per pallet	288
Covering capacity (per m <sup>2</sup> ) * 17.3 tiles	
Full product details on page 66-67	

### 451 Old Hollow Pantile



Material	Clay
Minimum roof pitch	25°
Size of tile (mm)	355 x 246
Quantity per pallet	432
Covering capacity (per m <sup>2</sup> ) * 18.9 tiles	
Full product details on page 68-69	

### Olympus Double Pantile



Material	Clay
Minimum roof pitch	22.5°
Size of tile (mm)	408 x 327
Quantity per pallet	210
Covering capacity (per m <sup>2</sup> ) * 10.2 tiles	
Full product details on page 70-71	

## Roman Tiles

### Double Roman



Material	Clay
Minimum roof pitch <sup>2</sup>	17.5° - 22.5° <sup>†</sup>
Size of tile (mm)	445 x 330
Quantity per pallet	240
Covering capacity (per m <sup>2</sup> )	10.4 - 9.7 tiles
Full product details on page 30-31	

### Modula



Material	Clay
Minimum roof pitch <sup>2</sup>	17.5° - 22.5° <sup>†</sup>
Size of tile (mm)	342 x 255
Quantity per pallet	260
Covering capacity (per m <sup>2</sup> )	9.7 - 9.1 tiles
Full product details on page 72-73	

### Bridgwater



Material	Clay
Minimum roof pitch	30°
Size of tile (mm)	420 x 340
Quantity per pallet	186
Covering capacity (per m <sup>2</sup> ) * 9.6 tiles	
Full product details on page 74-75	

### Gaelic Single Roman



Material	Clay
Minimum roof pitch	30°
Size of tile (mm)	342 x 255
Quantity per pallet	260
Covering capacity (per m <sup>2</sup> ) * 17.0 tiles	
Full product details on page 76-77	

### Tempest 44 Single Roman



Material	Clay
Minimum roof pitch	22° <sup>†</sup>
Size of tile (mm)	302 x 221
Quantity per pallet	660
Covering capacity (per m <sup>2</sup> ) * 20.7 tiles	
Full product details on page 78-79	

## Profile Tiles

### Lindum (also available in Sanded)<sup>2</sup>



Material	Concrete
Minimum roof pitch <sup>1</sup>	22.5°
Size of tile (mm)	420 x 334
Quantity per pallet	216
Covering capacity (per m <sup>2</sup> ) * 9.7 tiles	
Full product details on page 16-17	

### Standard Pattern (also available in Sanded)<sup>2</sup>



Material	Concrete
Minimum roof pitch <sup>1</sup>	17.5° - 22.5° <sup>†</sup>
Size of tile (mm)	380 x 230
Quantity per pallet	360
Covering capacity (per m <sup>2</sup> )	17.9 - 16.4 tiles
Full product details on page 18-19	

# COLOUR RANGE

## Contents

Concrete	7
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Keymer	10

### Concrete Colours - Sanded

**Antique 2** SA  
DP, DR, L, PT, SP, STP



**Brindle** SA  
PT



**Mottled Red** SA  
DP, DR, L, PT, SP, STP



**Sandown** SA  
PT



### Concrete Colours - Smooth

**Brown** SM  
CE, DP, DR, DTLE, L, PT, SP, STP, TLE



**Dark Grey** SM  
CE, DCE, DP, DR, DTLE, L, PT, SP, STP, TLE



**Light Grey** SM  
CE, PT



**Terracotta Red** SM  
CE, DP, DR, L, PT, SP, STP



**Charcoal** SM  
PT, SP



**Dark Heather** SM  
DP, DR, PT



**Rustic** SM  
CE, DCE, DP, DR, DTLE, L, PT, SP, STP, TLE



Key	
CE	Calderdale Edge
DCE	Dual Calderdale Edge
DP	Double Pantile
DR	Double Roman
DTLE	Dual TLE
L	Lindum
PT	Plain Tile
SP	Shire Pantile
STP	Standard Pattern
TLE	TLE

# COLOUR RANGE

## Natural Clay

### Clay Colours - Sanded

**Bay Brown SA**



**Buckingham SA**



**Burnt Oak SA**



**Dark Rusper SA**



**Kensington SA**



**Light Rusper SA**



**Key**

301	301 Plain Tile
303	303 Plain Tile
451	451 Old Hollow Pantile
ACT	Actua
AP	Arcadia Pantile
APT	Alban Plain Tile
BPT	Barrow Plain Tile
BRI	Bridgwater
CAS	Cassius
GSR	Gaelic Single Roman
HPT	Humber Plain Tile
HSF	Humber Sandfaced
MOD	Modula
NCP	New County Pantile
NP	Neo Plus
ODP	Olympus Double Pantile
OEP	Old English Pantile
RIV	Rivius
T44	Tempest 44 Single Roman
TT	20/20
VAU	Vauban
VPT	Village Plain Tile

**Old Heather SA**



**Old Rustic SA**



**Old Weathered SA**



**Sussex Blend SA**

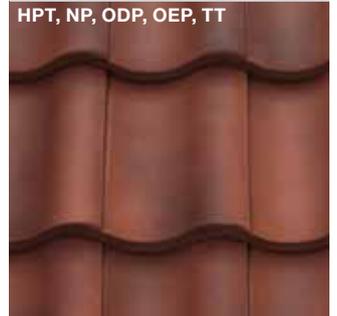


### Clay Colours - Smooth

**Natural Red SM**



**Flanders SM**



**Antique Slate SM**



**Tuscan SM**



Clay Smooth

**Amarant** SM



**Anthracite** SM



**Black Glazed** SM



**Braised Blue** SM



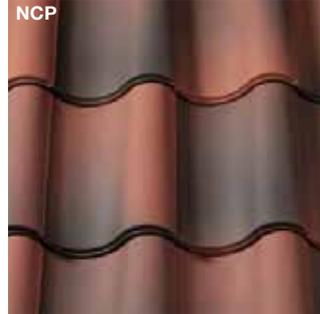
**Chilton Red** SM



**Cottage** SM



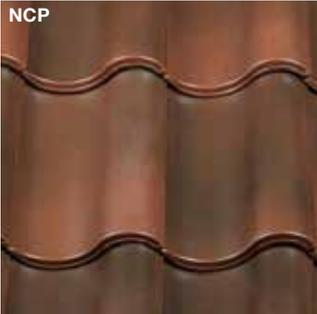
**Mixed Russet** SM



**Multiblend** SM



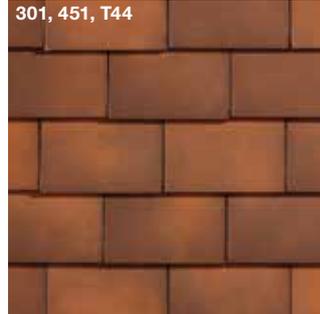
**Old Copper** SM



**Reclaimed**



**Rustic** SM



**Slate Engobe** SM



**Somerset** SM



**Toscana** SM



**Victorian** SM



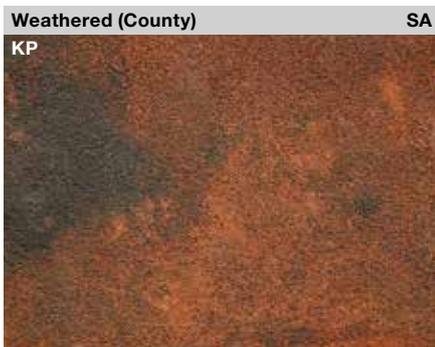
**Victorian Braised Blue** SM



# COLOUR RANGE

Keymer

## Keymer Colours



Clay is a natural and sustainable roofing material which is inherently strong and provides richness in colour which will not fade. The rich colouring of natural clay provides roofs with great beauty and character which becomes more attractive with age.

Clay tiles are manufactured to give a harmonious appearance to the finished roof. However, slight colour variations may occur as a consequence of the production process. It is therefore advisable not to mix tiles from different batches or of different colours on the roof. To achieve the best effect, tiles should be taken from several pallets and mixed at random on the roof.

Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Therefore, before deciding on the batten gauge and cover width, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved.

Key	
GPT	Goxhill Plain Tile
KP	Peg Tile
KSH	Shire Plain Tile
KTR	Traditional Plain Tile

SA Sanded SM Smooth



# CONCRETE

## Contents

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Dual TLE	28-29
Double Roman	30-31
Double Pantile	32-33





# PLAIN TILE

Concrete



**This versatile cross-cambered concrete tile is perfect for complex detailing and curved roof applications.**

## Product Technical Information Sheet

### Roof Tiling

<b>Minimum roof pitch</b>	<b>35°</b>
Headlap (minimum)	65 mm
Batten spacing at maximum gauge	100 mm
Size of tile	265 x 165 mm
Covering capacity	60 tiles per m <sup>2</sup>
Cover width	165 mm
Profile depth	13 mm
Hanging length	245 mm
Weight as laid	78.0 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.322 tonnes
Weight per tile	1.3 kg
Weight per pallet (including pallet and packaging)	1.015 tonnes
Bond	Cross / Broken
Quantity per pallet	768
Battens per m <sup>2</sup>	10 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

### Vertical Tiling

<b>Minimum roof pitch</b>	<b>75°</b>
Headlap (minimum)	38 mm
Batten spacing at maximum gauge	114 mm
Size of tile	265 x 165 mm
Covering capacity	53 tiles per m <sup>2</sup>
Cover width	165 mm
Profile depth	13 mm
Hanging length	245 mm
Weight as laid	68.9 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.322 tonnes
Weight per tile	1.3 kg
Weight per pallet (including pallet and packaging)	1.015 tonnes
Bond	Cross / Broken
Quantity per pallet	768
Battens per m <sup>2</sup>	8.8 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

Unless otherwise stated, data is based on the tiles laid at minimum headlap. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

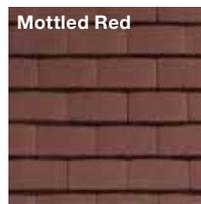
\* Lead times may apply. \*\* For use as fitting only.

Due to the limitations of the printing process and screen calibration settings images shown may not be an accurate representation of the final product colour. Please obtain a sample if unsure.

## Smooth



## Sanded



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these Standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online tool at [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Fittings

### Eaves/Tops Tile

200 x 165 x 13mm



### Tile and a Half

265 x 247 x 13mm



### Bonnet Hip

225 x 230mm



### Valley Tile

270 x 310mm



### External Angle

265 x 165 x 80mm



### Feature Tile (Club)

265 x 165mm



LH and RH available in both 90° and 135°  
(LH 90° shown)

### Additional Fittings

Arris Hip (35° & 40°)

Internal Angle 90° (LH & RH)

Cloaked Verge (LH & RH)

## Accessories

### InvisiVent<sup>1</sup>

490 x 310mm



## Associated Ridge / Hip

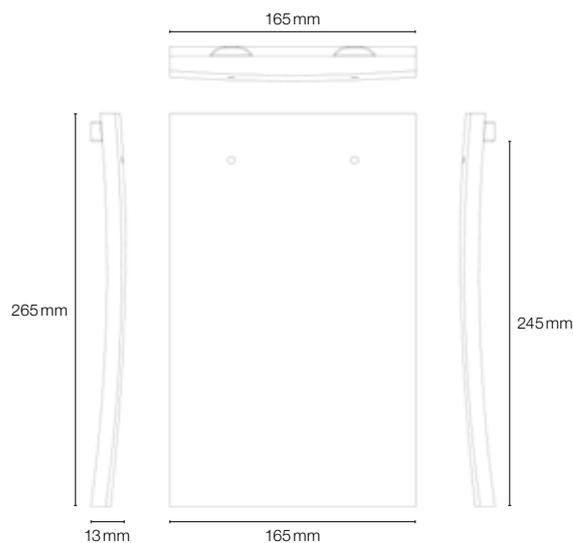
### Half Round Ridge 457mm



### Segmental Ridge 457mm



## Tile Dimensions



## Associated Systems

### Dry Ridge/Hip Systems

HR Roll Ridge Pack 6m CON

HR Profile Ridge Pack 6m CON

Seg Roll Hip Pack 6m CON

HR Profile MonoRidge Pack 6m CON

### Additional Systems

10mm Eaves Ventilation Pack

25mm Eaves Ventilation Pack

Top Abutment Ventilator Kit

<sup>1</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

All dimensions are nominal and taken from the drawing.

Actual product dimensions may vary slightly from those referenced above.

# LINDUM

## Concrete



**An interlocking concrete tile which provides a classic low profile roof.**

### Product Technical Information Sheet

#### Roof Tiling

<b>Minimum roof pitch</b>	<b>22.5° smooth at 100 mm headlap 30° sanded at 75 mm headlap</b>
Headlap (minimum)	75 mm
Headlap (maximum)	120 mm
Batten spacing at maximum gauge	345 mm
Batten spacing at minimum gauge	300 mm
Size of tile	420 x 334 mm
Covering capacity	9.7 tiles per m <sup>2</sup>
Cover width	300 mm
Profile depth	42 mm
Hanging length	401 mm
Weight as laid	45.2 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	4.71 tonnes
Weight per tile	4.65 kg
Weight per pallet (including pallet and packaging)	1.017 tonnes
Bond	Straight
Quantity per pallet	216
Battens per m <sup>2</sup>	2.9 m at 75 mm headlap
Batten size - up to 450 mm rafter centres	38 x 25 mm
Batten size - up to 600 mm rafter centres	50 x 25 mm
Nail size/type for tiles	50 x 3.35 mm aluminium ring shank clout head
Nail size/type for tile clips	50 x 3.35 mm aluminium ring shank clout head

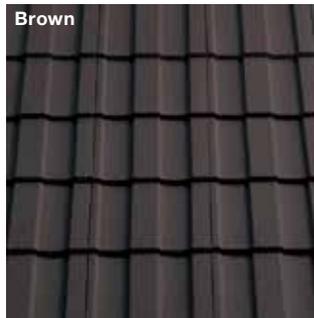
Unless otherwise stated, data is based on the tiles laid at minimum headlap. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

### Smooth

Brown



Dark Grey



Rustic

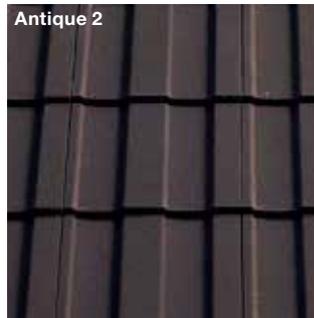


Terracotta Red\*



### Sanded

Antique 2



Mottled Red\*



### Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these Standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online tool at [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

\* Lead times may apply.

Due to the limitations of the printing process and screen calibration settings images shown may not be an accurate representation of the final product colour. Please obtain a sample if unsure.

## Accessories

### Tile Clip

Nail size 50 x 3.35 mm



### Eaves Clip<sup>1</sup>

Nail size 20 x 3.35 mm



### Verge Clip

Nail size 20 x 3.35 mm



### Additional Accessories

Cowl Vent<sup>2,3</sup>

## Associated Ridge / Hip

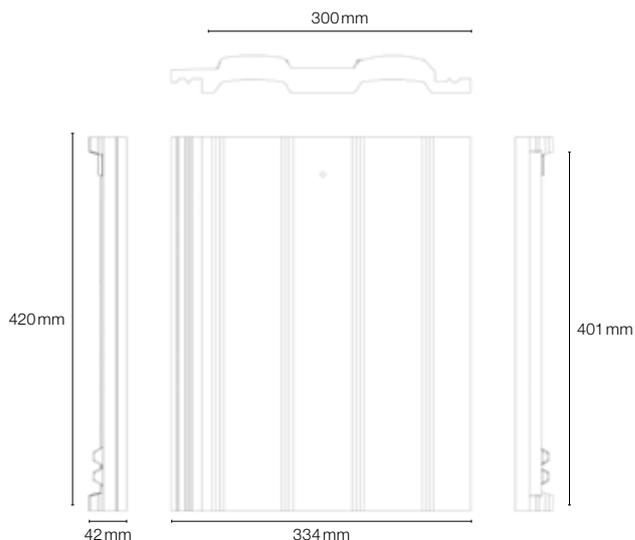
### Half Round Ridge 457 mm



### Segmental Ridge 457 mm



## Tile Dimensions



## Associated Systems

### Dry Ridge/Hip Systems

HR Roll Ridge Pack 6m CON  
HR Profile Ridge Pack 6m CON<sup>4</sup>  
Seg Roll Hip Pack 6m CON  
HR Profile MonoRidge Pack 6m CON<sup>4</sup>  
Mortarless Hip/Valley Tile Top Clip  
Mortarless Hip/Valley Tail Clip STD  
Profile Dry Ridge Fillers

### Dry Verge Systems

LH Multiverge Unit  
RH Multiverge Unit  
LH Multiverge Eaves Unit  
RH Multiverge Eaves Unit  
Ridge Closure Comb  
Ridge End Cap

### Additional Systems

10 mm Eaves Ventilation Pack  
25 mm Eaves Ventilation Pack  
Top Abutment Ventilator Kit<sup>4</sup>

BIM Object  
Download



<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>2</sup> Requires Flexi Pipe for connection to soil or mechanical extraction.

<sup>3</sup> Not suitable for roof pitches below 22.5°.

<sup>4</sup> Profile Dry Ridge Fillers sold separately in box quantities sufficient for 6m of Ridge/12m of MonoRidge.

All dimensions are nominal and taken from the drawing.  
Actual product dimensions may vary slightly from those referenced above.

# STANDARD PATTERN

Concrete



Easy to install and highly durable, this tile is ideal for re-roofing and comes in convenient banded packs of eight.

## Product Technical Information Sheet

Roof Tiling	
Minimum roof pitch*	17.5° smooth at 100mm headlap 22.5° smooth at 75mm headlap 30° sanded at 75mm headlap
Headlap (minimum)	75mm
Headlap (maximum)	120mm
Batten spacing at maximum gauge	305mm
Batten spacing at minimum gauge	260mm
Size of tile	380 x 230mm
Covering capacity	17.9 tiles per m <sup>2</sup> at 100mm headlap
	16.4 tiles per m <sup>2</sup> at 75mm headlap
Cover width	200mm
Profile depth	40mm
Hanging length	355mm
Weight as laid	52.9kg per m <sup>2</sup> at 100mm headlap
	48.4kg per m <sup>2</sup> at 75mm headlap
Weight per 1000 (including pallet and packaging)	3.0 tonnes
Weight per tile	2.95kg
Weight per pallet (including pallet and packaging)	1.078 tonnes
Bond	Straight
Quantity per pallet	360
Battens per m <sup>2</sup>	3.6m at 100mm headlap
	3.3m at 75mm headlap
Batten size - up to 450mm rafter centres	38 x 25mm
Batten size - up to 600mm rafter centres	50 x 25mm
Nail size/type for tiles	50 x 3.35mm aluminium ring shank clout head
Nail size/type for tile clips	55 x 3.35mm aluminium ring shank clout head

Unless otherwise stated, data is based on the tiles laid at minimum headlap. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved.

\*For projects where the rafters are below 22.5 degrees the roof substructure must be installed in accordance with the Sandtoft low pitch installation guide. Rafter length restrictions apply at minimum roof pitch.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

\*\* Lead times may apply.

Due to the limitations of the printing process and screen calibration settings images shown may not be an accurate representation of the final product colour. Please obtain a sample if unsure.

## Smooth



## Sanded



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these Standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online tool at [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Accessories

### Tile Clip

Nail size 55 x 3.35 mm



### Eaves Clip<sup>1</sup>

Nail size 20 x 3.35 mm



### Verge Clip

Nail size 20 x 3.35 mm



## Associated Ridge / Hip

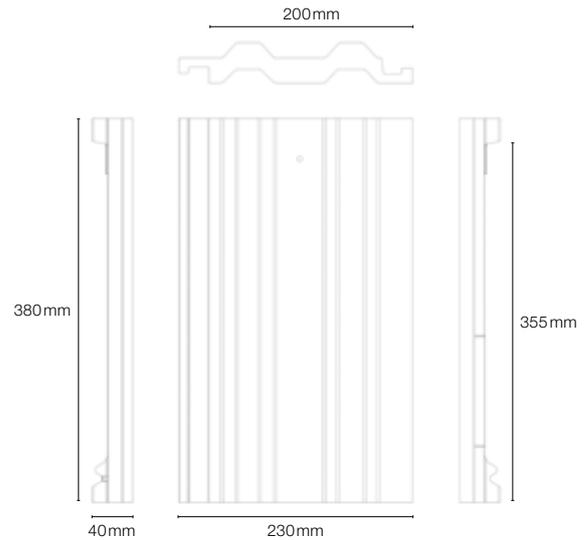
### Half Round Ridge 457 mm



### Segmental Ridge 457 mm



## Tile Dimensions



## Associated Systems

### Dry Ridge/Hip Systems

HR Roll Ridge Pack 6m CON  
 HR Profile Ridge Pack 6m CON<sup>2</sup>  
 Seg Roll Hip Pack 6m CON  
 HR Profile MonoRidge Pack 6m CON<sup>2</sup>  
 Mortarless Hip/Valley Tile Top Clip  
 Mortarless Hip/Valley Tail Clip STD  
 Profile Dry Ridge Fillers

### Dry Verge Systems

LH Multiverge Unit  
 RH Multiverge Unit  
 LH Multiverge Eaves Unit  
 RH Multiverge Eaves Unit  
 Ridge Closure Comb  
 Ridge End Cap

### Additional Systems

10 mm Eaves Ventilation Pack  
 25 mm Eaves Ventilation Pack  
 Top Abutment Ventilator Kit<sup>2</sup>

<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40 mm for 10 mm Over Fascia Ventilator Strip, or 50 mm for 25 mm Over Fascia Ventilator Strip.

<sup>2</sup> Profile Dry Ridge Fillers sold separately in box quantities sufficient for 6 m of Ridge/12 m of MonoRidge.

All dimensions are nominal and taken from the drawing.  
 Actual product dimensions may vary slightly from those referenced above.

# SHIRE PANTILE

Concrete



**This classic pantile is now re-engineered for easier installation and improved performance.**

## Product Technical Information Sheet

Roof Tiling	
<b>Minimum roof pitch</b>	<b>17.5° smooth</b> <b>30° sanded</b>
Headlap (minimum)	75 mm
Headlap (maximum)	120 mm
Batten spacing at maximum gauge	305 mm
Batten spacing at minimum gauge	260 mm
Size of tile	380 x 230 mm
Covering capacity	16.4 tiles per m <sup>2</sup> at 75 mm headlap
Cover width	200 mm
Profile depth	70 mm
Hanging length	360 mm
Weight as laid	46.5 kg per m <sup>2</sup> at 75 mm headlap
Weight per 1000 (including pallet and packaging)	2.88 tonnes
Weight per tile	2.83 kg
Weight per pallet (including pallet and packaging)	1.036 tonnes
Bond	Straight
Quantity per pallet	360
Battens per m <sup>2</sup>	3.3 m at 75 mm headlap
Batten size - up to 450mm rafter centres	38 x 25 mm
Batten size - up to 600mm rafter centres	50 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head
Nail size/type for metal tile clips	50 x 3.35 mm aluminium ring shank clout head

Unless otherwise stated, data is based on the tiles laid at minimum headlap. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved.

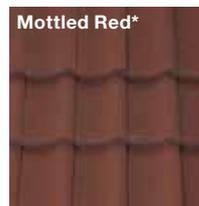
Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

## Smooth



## Sanded



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these Standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online tool at [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

\* Lead times may apply.

Due to the limitations of the printing process and screen calibration settings images shown may not be an accurate representation of the final product colour. Please obtain a sample if unsure.

## Accessories

### Tile Clip

Nail size 50 x 3.35 mm



### Eaves Clip<sup>1</sup>

Nail size 20 x 3.35 mm



### Verge Clip

Nail size 20 x 3.35 mm



### In-Line Vent<sup>2,4</sup>

430 x 385 x 125 mm



Smoothfaced colours only

### Additional Accessories

Cowl Vent<sup>3,4</sup>

## Associated Ridge / Hip

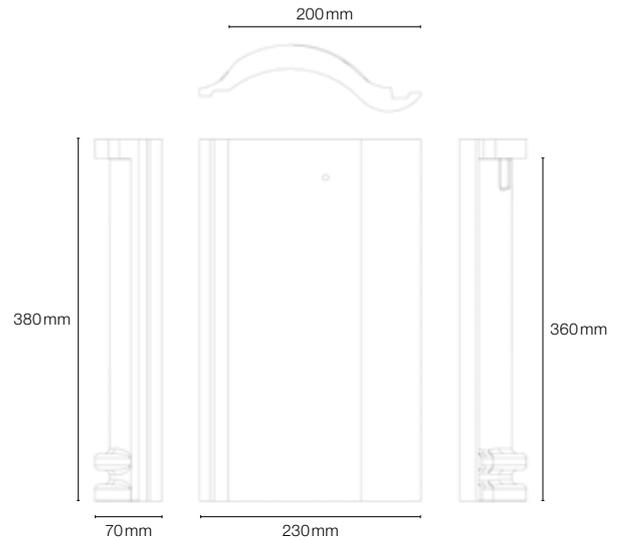
### Half Round Ridge 457 mm



### Segmental Ridge 457 mm



## Tile Dimensions



## Associated Systems

### Dry Ridge/Hip Systems

HR Roll Ridge Pack 6m CON  
HR Profile Ridge Pack 6m CON<sup>5</sup>  
Seg Roll Hip Pack 6m CON  
HR Profile MonoRidge Pack 6m CON<sup>5</sup>  
Mortarless Hip/Valley Tile Top Clip  
Mortarless Hip/Valley Tail Clip STD  
Profile Dry Ridge Fillers  
Dentil Slip

### Dry Verge Systems

LH Multiverge Unit  
RH Multiverge Unit  
LH Multiverge Eaves Unit  
RH Multiverge Eaves Unit  
Ridge Closure Comb  
Ridge End Cap

### Additional Systems

10mm Eaves Ventilation Pack  
25mm Eaves Ventilation Pack  
Top Abutment Ventilator Kit<sup>5</sup>  
Bird Comb Filler

<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>2</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

<sup>3</sup> Requires Flexi Pipe for connection to soil or mechanical extraction.

<sup>4</sup> Not suitable for roof pitches below 22.5°.

<sup>5</sup> Profile Dry Ridge Fillers sold separately in box quantities sufficient for 6m of Ridge/12m of Monoridge.

All dimensions are nominal and taken from the drawing.  
Actual product dimensions may vary slightly from those referenced above.

# CALDERDALE EDGE

Concrete



**Calderdale Edge...sometimes it's taking a product you know, and re-engineering it to be quicker, stronger and better value.**

## Product Technical Information Sheet

Roof Tiling	
<b>Minimum roof pitch*</b>	<b>16.5° at 100mm headlap</b> <b>22.5° at 75mm headlap</b>
Headlap (minimum)	75mm
Headlap (maximum)	120mm
Batten spacing at maximum gauge	345mm
Batten spacing at minimum gauge	300mm
Size of tile	420 x 334mm
Covering capacity	10.2 tiles per m <sup>2</sup> at 100mm headlap
	9.5 tiles per m <sup>2</sup> at 75mm headlap
Cover width	307mm
Profile depth	28mm
Hanging length	405mm
Weight as laid	50.5 kg per m <sup>2</sup> at 100mm headlap
	47.1 kg per m <sup>2</sup> at 75mm headlap
Weight per 1000 (including pallet and packaging)	5.104 tonnes
Weight per tile	4.95 kg
Weight per pallet (including pallet and packaging)	0.980 tonnes
Bond	Cross / Broken
Quantity per pallet	192
Battens per m <sup>2</sup>	3.2m at 100mm headlap
	2.9m at 75mm headlap
Batten size - up to 450mm rafter centres	38 x 25mm
Batten size - up to 600mm rafter centres	50 x 25mm
Nail size/type for tiles	50 x 3.35mm aluminium ring shank clout head
Nail size/type for tile clips	Nail included within the clip

Unless otherwise stated, data is based on the tiles laid at minimum headlap. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved.

\*For projects where the rafters are below 22.5 degrees the roof substructure must be installed in accordance with the Sandtoft low pitch installation guide. Rafter length restrictions apply at minimum roof pitch.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

## Smooth



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these Standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online tool at [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Fittings

### Left Hand Verge

420 x 307 x 28mm



Made to order

### Half Tile Pair

420 x 334 x 28mm



Made to order

## Accessories

### Monkey Grip Tile Clip

Nail integrated with clip



### Monkey Grip Eaves Clip<sup>1</sup>

Nail size 20 x 3.35mm



### Verge Clip

Nail size 20 x 3.35mm



### In-Line Vent<sup>2,4</sup>

421 x 335 x 85mm



### Cowl Vent<sup>3,4</sup>

420 x 334 x 13mm

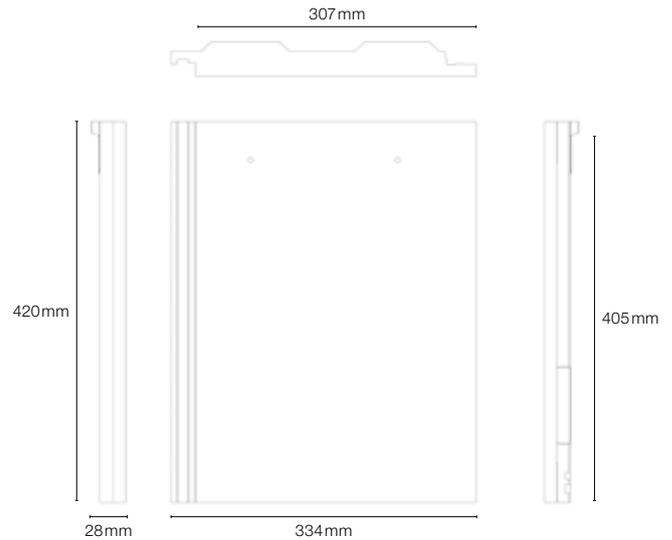


## Associated Ridge / Hip

### Multi Angle Ridge 457 mm



## Tile Dimensions



## Associated Systems

### Dry Ridge/Hip Systems

MA Profile Ridge Pack 6m  
MA Roll Ridge & Hip Pack 6m  
MA Profile MonoRidge Pack 6m  
Mortarless Hip/Valley Tile Top Clip  
Mortarless Hip/Valley Tail Clip STD

### Additional Systems

10mm Eaves Ventilation Pack  
25mm Eaves Ventilation Pack  
Top Abutment Ventilator Kit

### Dry Verge Systems

LH Multiverge Unit  
RH Multiverge Unit  
LH Multiverge Eaves Unit  
RH Multiverge Eaves Unit  
Ridge Closure Comb  
Ridge End Cap

<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>2</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

<sup>3</sup> Requires Flexi Pipe for connection to soil or mechanical extraction.

<sup>4</sup> Not suitable for roof pitches below 22.5°.

All dimensions are nominal and taken from the drawing.  
Actual product dimensions may vary slightly from those referenced above.

# DUAL CALDERDALE EDGE Concrete



**Dual Calderdale Edge gives a slate-like appearance and offers all the benefits of modern interlocking design.**

## Product Technical Information Sheet

Roof Tiling	
<b>Minimum roof pitch*</b>	<b>16.5° at 100mm headlap</b> <b>22.5° at 75mm headlap</b>
Headlap (minimum)	75mm
Headlap (maximum)	120mm
Batten spacing at maximum gauge	345mm
Batten spacing at minimum gauge	300mm
Size of tile	420 x 334mm
Covering capacity	10.52 tiles per m <sup>2</sup> at 100mm headlap
	9.5 tiles per m <sup>2</sup> at 75mm headlap
Cover width	307mm
Profile depth	28mm
Hanging length	405mm
Weight as laid	50.5 kg per m <sup>2</sup> at 100mm headlap
	47.1 kg per m <sup>2</sup> at 75mm headlap
Weight per 1000 (including pallet and packaging)	5.104 tonnes
Weight per tile	4.95 kg
Weight per pallet (including pallet and packaging)	980 kg
Bond	Quarter bond
Quantity per pallet	192
Battens per m <sup>2</sup>	3.1 m at 100mm headlap
	2.9m at 75mm headlap
Batten size - up to 450mm rafter centres	38 x 25mm
Batten size - up to 600mm rafter centres	50 x 25mm
Nail size/type for tiles	50 x 3.35mm aluminium ring shank clout head
Nail size/type for tile clips	Nail included within the clip

Unless otherwise stated, data is based on the tiles laid at minimum headlap. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved.

\*For projects where the rafters are below 22.5 degrees the roof substructure must be installed in accordance with the Sandtoft low pitch installation guide. Rafter length restrictions apply at minimum roof pitch.

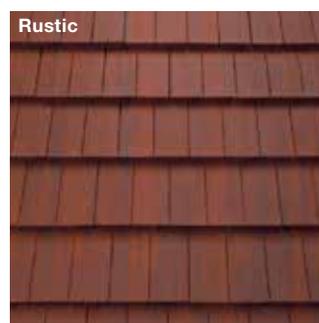
Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

## Smooth



Dark Grey



Rustic

## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these Standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online tool at [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Accessories

### Monkey Grip Tile Clip

Nail integrated with clip



### Eaves Clip<sup>1</sup>

Nail size 20 x 3.35 mm



### Verge Clip

Nail size 20 x 3.35 mm



### In-Line Vent<sup>2,4</sup>

421 x 335 x 85 mm



### Cowl Vent<sup>3,4</sup>

420 x 334 mm

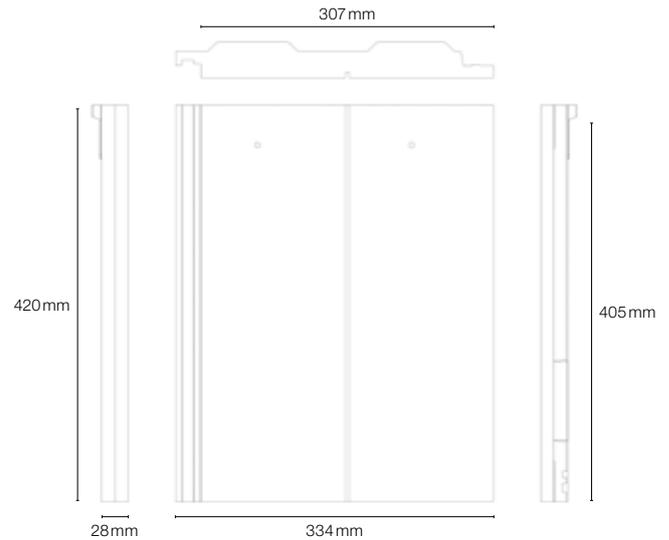


## Associated Ridge / Hip

### Multi Angle Ridge 457 mm



## Tile Dimensions



## Associated Systems

### Dry Ridge/Hip Systems

MA Profile Ridge Pack 6m  
MA Roll Ridge & Hip Pack 6m  
MA Profile MonoRidge Pack 6m  
Mortarless Hip/Valley Tile Top Clip  
Mortarless Hip/Valley Tail Clip STD

### Additional Systems

10 mm Eaves Ventilation Pack  
25 mm Eaves Ventilation Pack  
Top Abutment Ventilator Kit

### Dry Verge Systems

LH Multiverge Unit  
RH Multiverge Unit  
LH Multiverge Eaves Unit  
RH Multiverge Eaves Unit  
Ridge Closure Comb  
Ridge End Cap

<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>2</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

<sup>3</sup> Requires Flexi Pipe for connection to soil or mechanical extraction.

<sup>4</sup> Not suitable for roof pitches below 22.5°.

All dimensions are nominal and taken from the drawing.  
Actual product dimensions may vary slightly from those referenced above.



**TLE is one of the thinnest leading edges on the market. It gives a slate-like appearance and offers all the benefits of a modern interlocking design.**

### Product Technical Information Sheet

Roof Tiling	
<b>Minimum roof pitch</b>	<b>17.5° at 100mm headlap</b> <b>22.5° at 75mm headlap</b>
Headlap (minimum)	75mm
Headlap (maximum)	120mm
Batten spacing at maximum gauge	345mm
Batten spacing at minimum gauge	300mm
Size of tile	420 x 334mm
Covering capacity	10.3 tiles per m <sup>2</sup> at 100mm headlap
	9.6 tiles per m <sup>2</sup> at 75mm headlap
Cover width	305mm
Profile depth	21mm
Hanging length	400mm
Weight as laid	49.5 kg per m <sup>2</sup> at 100mm headlap
	46.1 kg per m <sup>2</sup> at 75mm headlap
Weight per 1000 (including pallet and packaging)	4.9 tonnes
Weight per tile	4.8kg
Weight per pallet (including pallet and packaging)	1.176 tonnes
Bond	Cross / Broken
Quantity per pallet	240
Battens per m <sup>2</sup>	3.2m at 100mm headlap
	2.9m at 75mm headlap
Batten size - up to 450mm rafter centres	38 x 25mm
Batten size - up to 600mm rafter centres	50 x 25mm
Nail size/type for tiles	45 x 3.35mm aluminium ring shank clout head
Nail size/type for tile clips	Nail included within the clip

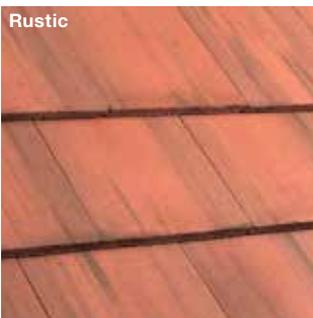
Unless otherwise stated, data is based on the tiles laid at minimum headlap. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved.

\*For projects where the rafters are below 22.5 degrees the roof substructure must be installed in accordance with the Sandtoft low pitch installation guide. Rafter length restrictions apply at minimum roof pitch.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

### Smooth



### Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these Standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online tool at [www.all4roof.co.uk](http://www.all4roof.co.uk)

\*\* Made to order.

Due to the limitations of the printing process and screen calibration settings images shown may not be an accurate representation of the final product colour. Please obtain a sample if unsure.

## Fittings

### Left Hand Verge

420 x 305 x 19mm



Made to order

### Half Tile Set

420 x 334 x 19mm



Made to order

## Accessories

### Monkey Grip Tile Clip

Nail integrated with clip



### Monkey Grip Eaves Clip<sup>1</sup>

Nail size 20 x 3.35mm



### Verge Clip

Nail size 20 x 3.35mm



### In-Line Vent<sup>2,4</sup>

435 x 337 x 85mm



### Cowl Vent<sup>3,4</sup>

420 x 334mm

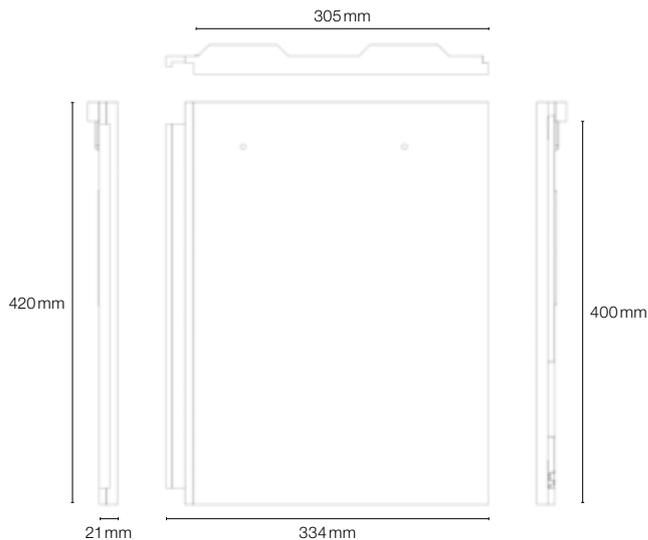


## Associated Ridge / Hip

### Multi Angle Ridge 457 mm



## Tile Dimensions



## Associated Systems

### Dry Ridge/Hip Systems

MA Profile Ridge Pack 6m  
MA Roll Ridge & Hip Pack 6m  
MA Profile MonoRidge Pack 6m  
Mortarless Hip/Valley Tile Top Clip  
Mortarless Hip/Valley Tail Clip TLE

### Additional Systems

10mm Eaves Ventilation Pack  
25mm Eaves Ventilation Pack  
Top Abutment Ventilator Kit

### Dry Verge Systems

LH Multiverge Unit  
RH Multiverge Unit  
LH Multiverge Eaves Unit  
RH Multiverge Eaves Unit  
Ridge Closure Comb  
Ridge End Cap

<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>2</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

<sup>3</sup> Requires Flexi Pipe for connection to soil or mechanical extraction.

<sup>4</sup> Not suitable for roof pitches below 22.5°.

All dimensions are nominal and taken from the drawing.  
Actual product dimensions may vary slightly from those referenced above.

# DUAL TLE Concrete



Dual TLE is one of the thinnest leading edges on the market. It gives a slate-like appearance and offers all the benefits of a modern interlocking design.

## Product Technical Information Sheet

Roof Tiling	
<b>Minimum roof pitch*</b>	<b>17.5° at 100mm headlap</b> <b>22.5° at 75mm headlap</b>
Headlap (minimum)	75mm
Headlap (maximum)	120mm
Batten spacing at maximum gauge	345mm
Batten spacing at minimum gauge	300mm
Size of tile	420 x 334mm
Covering capacity	10.3 tiles per m <sup>2</sup> at 100mm headlap
	9.6 tiles per m <sup>2</sup> at 75mm headlap
Cover width	305mm
Profile depth	21mm
Hanging length	400mm
Weight as laid	49.5 kg per m <sup>2</sup> at 100mm headlap
	46.1 kg per m <sup>2</sup> at 75mm headlap
Weight per 1000 (including pallet and packaging)	4.9 tonnes
Weight per tile	4.8kg
Weight per pallet (including pallet and packaging)	1.176 tonnes
Bond	Quarter bond
Quantity per pallet	240
Battens per m <sup>2</sup>	3.2m at 100mm headlap
	2.9m at 75mm headlap
Batten size - up to 450mm rafter centres	38 x 25mm
Batten size - up to 600mm rafter centres	50 x 25mm
Nail size/type for tiles	45 x 3.35mm aluminium ring shank clout head
Nail size/type for tile clips	Nail included within the clip

Unless otherwise stated, data is based on the tiles laid at minimum headlap. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved.

\*For projects where the rafters are below 22.5 degrees the roof substructure must be installed in accordance with the Sandtoft low pitch installation guide. Rafter length restrictions apply at minimum roof pitch.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

## Smooth



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these Standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online tool at [www.all4roof.co.uk](http://www.all4roof.co.uk)



\*\* Made to order.

Due to the limitations of the printing process and screen calibration settings images shown may not be an accurate representation of the final product colour. Please obtain a sample if unsure.

## Accessories

### Monkey Grip Tile Clip

Nail integrated with clip



### Eaves Clip<sup>1</sup>

Nail size 20 x 3.35 mm



### Verge Clip

Nail size 20 x 3.35 mm



### In-Line Vent<sup>2,4</sup>

435 x 337 x 85 mm



### Cowl Vent<sup>3,4</sup>

420 x 334 mm

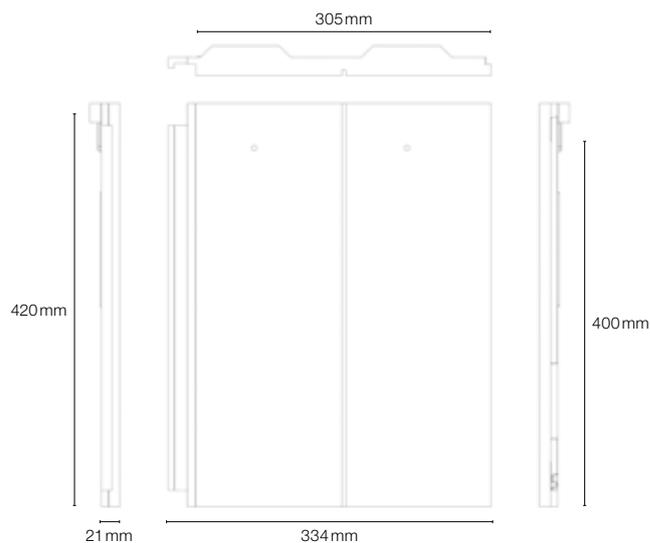


## Associated Ridge / Hip

### Multi Angle Ridge 457 mm



## Tile Dimensions



## Associated Systems

### Dry Ridge/Hip Systems

MA Profile Ridge Pack 6m  
MA Roll Ridge & Hip Pack 6m  
MA Profile MonoRidge Pack 6m  
Mortarless Hip/Valley Tile Top Clip  
Mortarless Hip/Valley Tail Clip TLE

### Additional Systems

10 mm Eaves Ventilation Pack  
25 mm Eaves Ventilation Pack  
Top Abutment Ventilator Kit

### Dry Verge Systems

LH Multiverge Unit  
RH Multiverge Unit  
LH Multiverge Eaves Unit  
RH Multiverge Eaves Unit  
Ridge Closure Comb  
Ridge End Cap

<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>2</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

<sup>3</sup> Requires Flexi Pipe for connection to soil or mechanical extraction.

<sup>4</sup> Not suitable for roof pitches below 22.5°.

All dimensions are nominal and taken from the drawing.  
Actual product dimensions may vary slightly from those referenced above.

# DOUBLE ROMAN

Concrete



A long established Roman design popular in most regions, ideal for both new build and refurbishment.

## Product Technical Information Sheet

Roof Tiling	
Minimum roof pitch*	17.5° smooth at 100mm headlap 22.5° smooth at 75mm headlap 30° sanded at 75mm headlap
Headlap (minimum)	75mm
Headlap (maximum)	120mm
Batten spacing at maximum gauge	345mm
Batten spacing at minimum gauge	300mm
Size of tile	420 x 334mm
Covering capacity	10.5 tiles per m <sup>2</sup> at 100mm headlap
	9.7 tiles per m <sup>2</sup> at 75mm headlap
Cover width	300mm
Profile depth	50mm
Hanging length	398mm
Weight as laid	44.0 kg per m <sup>2</sup> at 100mm headlap
	40.7 kg per m <sup>2</sup> at 75mm headlap
Weight per 1000 (including pallet and packaging)	4.3 tonnes
Weight per tile	4.19kg
Weight per pallet (including pallet and packaging)	0.929 tonnes
Bond	Straight
Quantity per pallet	216
Battens per m <sup>2</sup>	3.2m at 100mm headlap
	2.9m at 75mm headlap
Batten size - up to 450mm rafter centres	38 x 25mm
Batten size - up to 600mm rafter centres	50 x 25mm
Nail size/type for tiles	65 x 3.75mm aluminium ring shank clout head
Nail size/type for metal tile clips	50 x 3.35mm aluminium ring shank clout head

Unless otherwise stated, data is based on the tiles laid at minimum headlap. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved.

\*For projects where the rafters are below 22.5 degrees the roof substructure must be installed in accordance with the Sandtoft low pitch installation guide. Rafter length restrictions apply at minimum roof pitch.

Product specification is subject to change and will be updated accordingly.

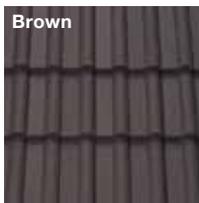
Note: Lead times may apply. Colour availability may vary.

\*\* Lead times may apply.

Due to the limitations of the printing process and screen calibration settings images shown may not be an accurate representation of the final product colour. Please obtain a sample if unsure.

## Smooth

Brown



Dark Grey



Dark Heather\*\*



Rustic



Terracotta Red

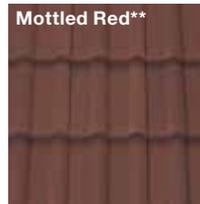


## Sanded

Antique 2



Mottled Red\*\*



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these Standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online tool at [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Fittings

### Half Tile

420 x 185 mm



### Cloaked Verge

420 x 358 mm



LH and RH available (LH shown)

## Accessories

### Tile Clip

Nail size 55 x 3.35 mm



### Eaves Clip<sup>1</sup>

Nail size 20 x 3.35 mm



### Verge Clip

Nail size 20 x 3.35 mm



### In-Line Vent<sup>2,4</sup>

420 x 334 x 108 mm



Smoothfaced only

### Cowl Vent<sup>3,4</sup>

420 x 334 mm



## Associated Ridge / Hip

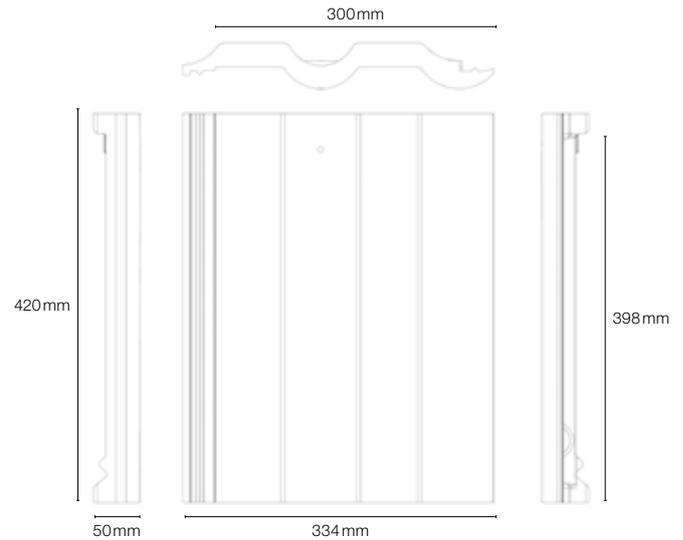
### Half Round Ridge 457 mm



### Segmental Ridge 457 mm



## Tile Dimensions



## Associated Systems

### Dry Ridge/Hip Systems

HR Roll Ridge Pack 6m CON  
 HR Profile Ridge Pack 6m CON<sup>5</sup>  
 Seg Roll Hip Pack 6m CON  
 HR Profile MonoRidge Pack 6m CON<sup>5</sup>  
 Mortarless Hip/Valley Tile Top Clip  
 Mortarless Hip/Valley Tail Clip STD  
 Profile Dry Ridge Fillers

### Dry Verge Systems

LH Multiverge Unit  
 RH Multiverge Unit  
 LH Multiverge Eaves Unit  
 RH Multiverge Eaves Unit  
 Ridge Closure Comb  
 Ridge End Cap

### Additional Systems

10mm Eaves Ventilation Pack  
 25mm Eaves Ventilation Pack  
 Top Abutment Ventilator Kit<sup>5</sup>

<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>2</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

<sup>3</sup> Requires Flexi Pipe for connection to soil or mechanical extraction.

<sup>4</sup> Not suitable for roof pitches below 22.5°.

<sup>5</sup> Profile Dry Ridge Fillers sold separately in box quantities sufficient for 6m of Ridge/12m of Monoridge.

All dimensions are nominal and taken from the drawing.  
 Actual product dimensions may vary slightly from those referenced above.

# DOUBLE PANTILE

Concrete



**A high quality concrete tile that recreates the flowing lines of a traditional pantile with an inherent strength in its curved design.**

## Product Technical Information Sheet

Roof Tiling	
<b>Minimum roof pitch*</b>	<b>15° smooth at 100mm headlap</b> <b>22.5° smooth at 75mm headlap</b> <b>30° Sanded at 75mm headlap</b>
Headlap (minimum)	75mm
Headlap (maximum)	120mm
Batten spacing at maximum gauge	345mm
Batten spacing at minimum gauge	300mm
Size of tile	420 x 334mm
Covering capacity	10.5 tiles per m <sup>2</sup> at 100mm headlap
	9.7 tiles per m <sup>2</sup> at 75mm headlap
Cover width	300mm
Profile depth	55mm
Hanging length	402mm
Weight as laid	49.6 kg per m <sup>2</sup> at 100mm headlap
	45.8 kg per m <sup>2</sup> at 75mm headlap
Weight per 1000 (including pallet and packaging)	4.87 tonnes
Weight per tile	4.72 kg
Weight per pallet (including pallet and packaging)	1.021 tonnes
Bond	Straight
Quantity per pallet	210
Battens per m <sup>2</sup>	3.2m at 100mm headlap
	2.9m at 75mm headlap
Batten size - up to 450mm rafter centres	38 x 25mm
Batten size - up to 600mm rafter centres	50 x 25mm
Nail size/type for tiles	65 x 3.75mm aluminium ring shank clout head
Nail size/type for metal tile clips	50 x 3.35mm aluminium ring shank clout head

Unless otherwise stated, data is based on the tiles laid at minimum headlap. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved.

\*For projects where the rafters are below 22.5 degrees the roof substructure must be installed in accordance with the Sandtoft low pitch installation guide. Rafter length restrictions apply at minimum roof pitch.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

\*\* Lead times may apply.

Due to the limitations of the printing process and screen calibration settings images shown may not be an accurate representation of the final product colour. Please obtain a sample if unsure.

## Smooth

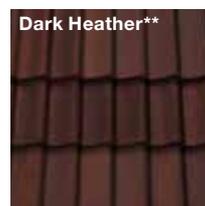
Brown



Dark Grey



Dark Heather\*\*



Rustic



Terracotta Red

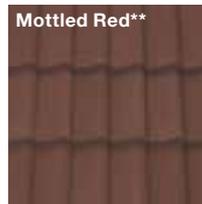


## Sanded

Antique 2



Mottled Red\*\*



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these Standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online tool at [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Fittings

### Half Tile

420 x 185 mm



### Cloaked Verge

420 x 358 mm



LH and RH available (LH shown)

## Accessories

### Tile Clip

Nail size 50 x 3.35 mm



### Eaves Clip<sup>1</sup>

Nail size 20 x 3.35 mm



### Verge Clip

Nail size 20 x 3.35 mm



### In-Line Vent<sup>2,4</sup>

420 x 334 x 112 mm



Smoothfaced only

### Cowl Vent<sup>3,4</sup>

420 x 334 mm



## Associated Ridge / Hip

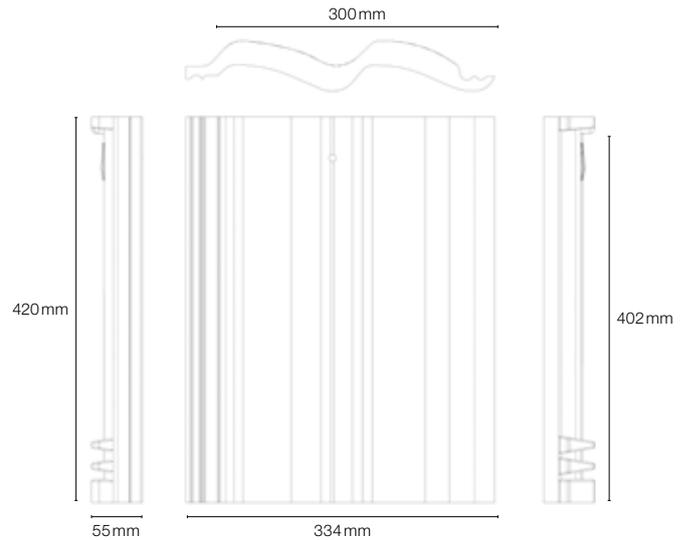
### Half Round Ridge 457 mm



### Segmental Ridge 457 mm



## Tile Dimensions



## Associated Systems

### Dry Ridge/Hip Systems

- HR Roll Ridge Pack 6m CON
- HR Profile Ridge Pack 6m CON<sup>5</sup>
- Seg Roll Hip Pack 6m CON
- HR Profile MonoRidge Pack 6m CON<sup>5</sup>
- Mortarless Hip/Valley Tile Top Clip
- Mortarless Hip/Valley Tail Clip STD
- Profile Dry Ridge Fillers
- Dentil Slip

### Dry Verge Systems

- LH Multiverge Unit
- RH Multiverge Unit
- LH Multiverge Eaves Unit
- RH Multiverge Eaves Unit
- Ridge Closure Comb
- Ridge End Cap

### Additional Systems

- 10mm Eaves Ventilation Pack
- 25mm Eaves Ventilation Pack
- Top Abutment Ventilator Kit<sup>5</sup>
- Bird Comb Filler

<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>2</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

<sup>3</sup> Requires Flexi Pipe for connection to soil or mechanical extraction.

<sup>4</sup> Not suitable for roof pitches below 22.5°.

<sup>5</sup> Profile Dry Ridge Fillers sold separately in box quantities sufficient for 6m of Ridge/12m of Monoridge.

All dimensions are nominal and taken from the drawing. Actual product dimensions may vary slightly from those referenced above.

# CLAY

## Contents

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# HUMBER

Plain Tile

Clay



**A traditional, cross-cambered, machine made clay plain tile that gives complete design flexibility and is perfect for complex roofs or vertical cladding.**

## Product Technical Information Sheet

### Roof Tiling

<b>Minimum roof pitch</b>	<b>35°</b>
Headlap	65 mm
Batten spacing (fixed gauge) <sup>†</sup>	100 mm
Size of tile <sup>†</sup>	265 x 165 mm
Covering capacity	60 tiles per m <sup>2</sup>
Cover width	165 mm
Profile depth	13 mm
Hanging length	245 mm
Weight as laid	63.0 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.123 tonnes
Weight per tile	1.05 kg
Weight per pallet (including pallet and packaging)	0.606 tonnes
Bond	Cross / Broken
Quantity per pallet	540
Battens per m <sup>2</sup>	10 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

### Vertical Tiling

<b>Minimum roof pitch</b>	<b>75°</b>
Headlap	38 mm
Batten spacing at (fixed gauge) <sup>†</sup>	114 mm
Size of tile <sup>†</sup>	265 x 165 mm
Covering capacity at max. gauge	53 tiles per m <sup>2</sup>
Cover width	165 mm
Profile depth	13 mm
Hanging length	245 mm
Weight as laid	55.7 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.123 tonnes
Weight per tile	1.05 kg
Weight per pallet (including pallet and packaging)	0.606 tonnes
Bond	Cross / Broken
Quantity per pallet	540
Battens per m <sup>2</sup>	8.8 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

<sup>†</sup>Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

\* For use as fitting only.

Due to the limitations of the printing process and screen calibration settings images shown may not be an accurate representation of the final product colour. Please obtain a sample if unsure.

## Smooth

### Antique Slate\*



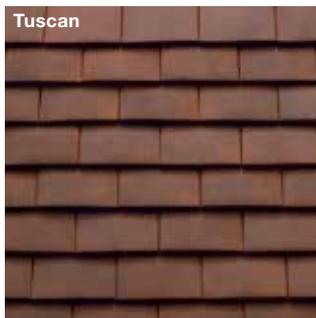
### Flanders



### Natural Red



### Tuscan



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Fittings

### Eaves/Tops Tile

210 x 165 x 13mm



### Tile and a Half

265 x 247 x 13mm



### Bonnet Hip

270 x 330 x 13mm



### Valley Tile

280 x 350 x 13mm



### External Angle°

265 x 160 x 80mm



### Feature Tile (Club)

265 x 165 x 13mm



LH and RH available in both 90° and 135°  
(LH 90° shown)

### Additional Fittings

Arris Hip (35°, 40°, 45°, 50°)

Internal Angle 90° & 135° (LH & RH)

## Accessories

### InvisiVent<sup>1</sup>

490 x 310mm



## Associated Ridge / Hip

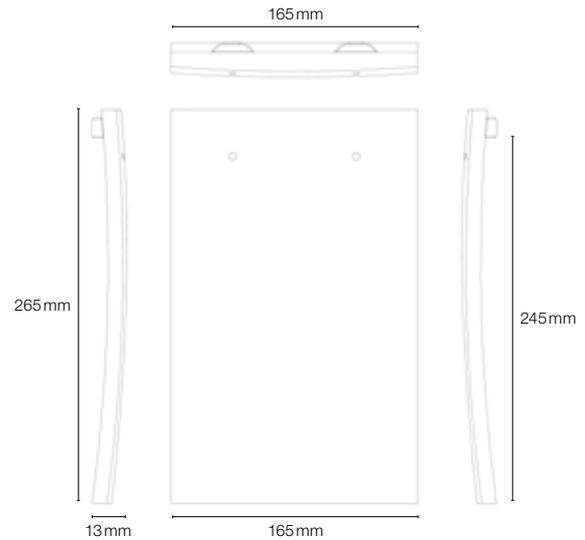
### Half Round Ridge 305mm



### Third Round Ridge 305mm



## Tile Dimensions



## Associated Systems

### Ridge/Hip Systems

HR Roll Ridge Pack 6m CLY

HR Profile Ridge Pack 6m CLY

TR Roll Hip Pack 6m CLY

HR Profile MonoRidge Pack 6m CLY

### Additional Systems

10mm Eaves Ventilation Pack

25mm Eaves Ventilation Pack

Top Abutment Ventilator Kit

<sup>1</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

All dimensions are nominal and taken from the drawing.  
Actual product dimensions may vary slightly from those referenced above.

# HUMBER SANDFACED

Plain Tile  
Clay



Perfectly engineered and designed, the Humber sandfaced clay plain tile is a versatile, flexible option that combines the natural colourfast quality of clay with modern fixture and fitting technology.

## Product Technical Information Sheet

### Roof Tiling

<b>Minimum roof pitch</b>	<b>35°</b>
Headlap	65 mm
Batten spacing (fixed gauge) <sup>†</sup>	100 mm
Size of tile <sup>†</sup>	265 x 165 mm
Covering capacity	60 tiles per m <sup>2</sup>
Cover width	165 mm
Profile depth	13 mm
Hanging length	245 mm
Weight as laid	63.6 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.14 tonnes
Weight per tile	1.06 kg
Weight per pallet (including pallet and packaging)	0.602 tonnes
Bond	Cross / Broken
Quantity per pallet	530
Battens per m <sup>2</sup>	10 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

### Vertical Tiling

<b>Minimum roof pitch</b>	<b>75°</b>
Headlap	38 mm
Batten spacing at (fixed gauge) <sup>†</sup>	114 mm
Size of tile <sup>†</sup>	265 x 165 mm
Covering capacity at max. gauge	53 tiles per m <sup>2</sup>
Cover width	165 mm
Profile depth	13 mm
Hanging length	245 mm
Weight as laid	56.2 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.14 tonnes
Weight per tile	1.06 kg
Weight per pallet (including pallet and packaging)	0.602 tonnes
Bond	Cross / Broken
Quantity per pallet	530
Battens per m <sup>2</sup>	8.8 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

<sup>†</sup>Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

## Sanded

### Buckingham



### Kensington



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

# HUMBER SANDFACED

Plain Tile  
Clay

## Fittings

### Eaves/Tops Tile

210 x 165 x 13mm



### Tile and a Half

265 x 247 x 13mm



### Bonnet Hip

270 x 330 x 13mm



### Valley Tile

280 x 350 x 13mm



### External Angle

265 x 160 x 80mm



### Feature Tile (Club)

265 x 165 x 13mm



LH and RH available in both 90° and 135°  
(LH 90° shown)

### Additional Fittings

Arris Hip (35°, 40°, 45°, 50°)

Internal Angle 90° & 135° (LH & RH)

## Accessories

### InvisiVent<sup>1</sup>

490 x 310mm



## Associated Ridge / Hip

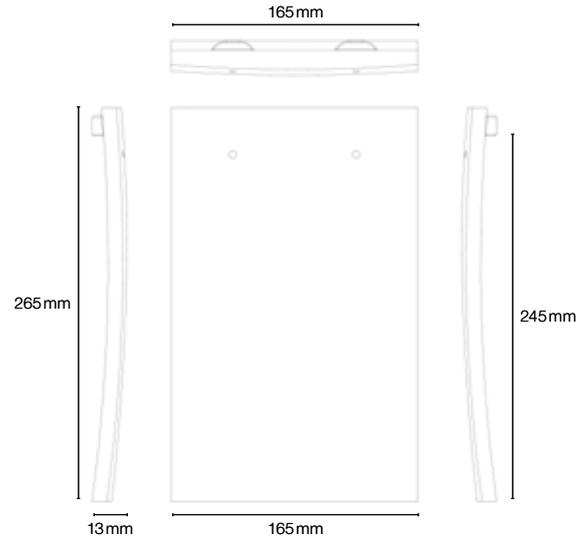
### Half Round Ridge 305mm



### Third Round Ridge 305mm



## Tile Dimensions



## Associated Systems

### Ridge/Hip Systems

HR Profile Ridge Pack 6m CLY

HR Profile MonoRidge Pack 6m CLY

### Additional Systems

10mm Eaves Ventilation Pack

25mm Eaves Ventilation Pack

Top Abutment Ventilator Kit

<sup>1</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

All dimensions are nominal and taken from the drawing.  
Actual product dimensions may vary slightly from those referenced above.

# VILLAGE

Plain Tile

Clay



**The Village plain tile is perfect for use on porches and dormers as an accompaniment to our Arcadia Pantile.**

## Product Technical Information Sheet

### Roof Tiling

<b>Minimum roof pitch</b>	<b>35°</b>
Headlap	65 mm
Batten spacing (fixed gauge) <sup>†</sup>	100 mm
Size of tile <sup>†</sup>	265 x 165 mm
Covering capacity	60 tiles per m <sup>2</sup>
Cover width	165 mm
Profile depth	13 mm
Hanging length	245 mm
Weight as laid	63.0 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.123 tonnes
Weight per tile	1.05 kg
Weight per pallet (including pallet and packaging)	0.606 tonnes
Bond	Cross / Broken
Quantity per pallet	540
Battens per m <sup>2</sup>	10 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

### Vertical Tiling

<b>Minimum roof pitch</b>	<b>75°</b>
Headlap	38 mm
Batten spacing at (fixed gauge) <sup>†</sup>	114 mm
Size of tile <sup>†</sup>	265 x 165 mm
Covering capacity at max. gauge	53 tiles per m <sup>2</sup>
Cover width	165 mm
Profile depth	13 mm
Hanging length	245 mm
Weight as laid	55.7 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.123 tonnes
Weight per tile	1.05 kg
Weight per pallet (including pallet and packaging)	0.606 tonnes
Bond	Cross / Broken
Quantity per pallet	540
Battens per m <sup>2</sup>	8.8 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

<sup>†</sup>Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

\* For use as fitting only.

Due to the limitations of the printing process and screen calibration settings images shown may not be an accurate representation of the final product colour. Please obtain a sample if unsure.

## Weathered

### Reclaimed\*



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Fittings

### Eaves/Tops Tile

210 x 165 x 13mm



### Tile and a Half

265 x 247 x 13mm



### Bonnet Hip

270 x 330 x 13mm



### Valley Tile

280 x 350 x 13mm



### External Angle

265 x 160 x 80mm



### Feature Tile (Club)

265 x 165 x 13mm



LH and RH available in both 90° and 135° (LH 90° shown)

### Additional Fittings

Arris Hip (35°, 40°, 45°, 50°)

Internal Angle 90° & 135° (LH & RH)

## Accessories

### InvisiVent<sup>1</sup>

490 x 310mm



## Associated Ridge / Hip

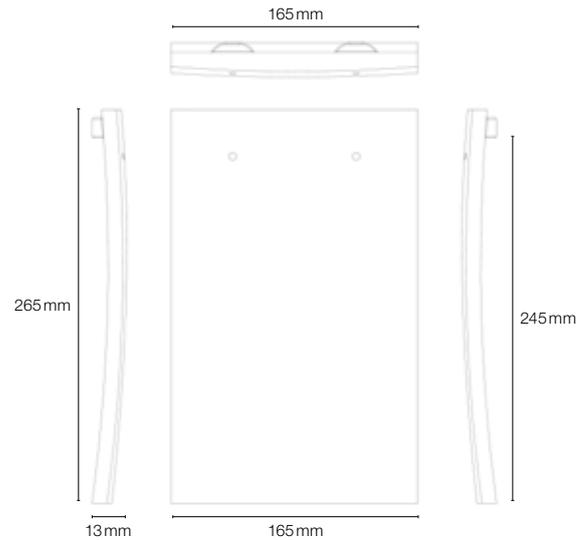
### Half Round Ridge 305mm



### Third Round Ridge 305mm



## Tile Dimensions



## Associated Systems

### Ridge/Hip Systems

HR Roll Ridge Pack 6m CLY

HR Profile Ridge Pack 6m CLY

TR Roll Hip Pack 6m CLY

HR Profile MonoRidge Pack 6m CLY

### Additional Systems

10mm Eaves Ventilation Pack

25mm Eaves Ventilation Pack

Top Abutment Ventilator Kit

<sup>1</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

All dimensions are nominal and taken from the drawing. Actual product dimensions may vary slightly from those referenced above.

# ALBAN

Plain Tile

Clay



**With its sanded texture, irregular form and rustic tones, the Alban plain tile adds charm and character to any roof.**

## Product Technical Information Sheet

### Roof Tiling

<b>Minimum roof pitch</b>	<b>35°</b>
Headlap	65 mm
Batten spacing (fixed gauge) <sup>†</sup>	100 mm
Size of tile <sup>†</sup>	265 x 165 mm
Covering capacity	60 tiles per m <sup>2</sup>
Cover width	165 mm
Profile depth	13 mm
Hanging length	245 mm
Weight as laid	60.6 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.1 tonnes
Weight per tile	1.01 kg
Weight per pallet (including pallet and packaging)	0.583 tonnes
Bond	Cross / Broken
Quantity per pallet	530
Battens per m <sup>2</sup>	10 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

### Vertical Tiling

<b>Minimum roof pitch</b>	<b>75°</b>
Headlap	38 mm
Batten spacing (fixed gauge) <sup>†</sup>	114 mm
Size of tile <sup>†</sup>	265 x 165 mm
Covering capacity	53 tiles per m <sup>2</sup>
Cover width	165 mm
Profile depth	13 mm
Hanging length	245 mm
Weight as laid	53.6 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.1 tonnes
Weight per tile	1.01 kg
Weight per pallet (including pallet and packaging)	0.583 tonnes
Bond	Cross / Broken
Quantity per pallet	530
Battens per m <sup>2</sup>	8.8 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

<sup>†</sup>Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

## Sanded

### Sussex Blend



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these Standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online tool at [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Fittings

### Eaves Tile

210 x 165 x 13mm



### Tile and a Half

265 x 247 x 13mm



### Bonnet Hip

270 x 330 x 13mm



### Valley Tile

280 x 350 x 13mm



### External Angle

265 x 160 x 80mm



### Feature Tile (Club)

265 x 165 x 13mm



LH and RH available in both 90° and 135°  
(LH 90° shown)

### Additional Fittings

Arris Hip (35°, 40°, 45°, 50°)

Internal Angle 90° & 135° (LH & RH)

## Accessories

### InvisiVent<sup>1</sup>

490 x 310mm



## Associated Ridge / Hip

### Half Round Ridge 305mm



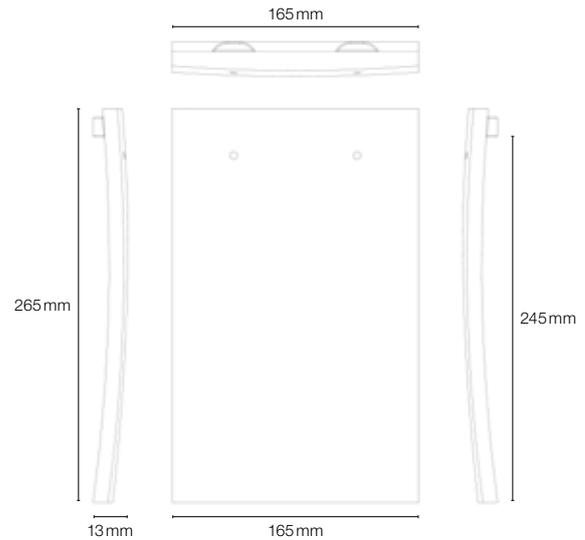
### Third Round Ridge 305mm



<sup>1</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

All dimensions are nominal and taken from the drawing.  
Actual product dimensions may vary slightly from those referenced above.

## Tile Dimensions



## Associated Systems

### Ridge/Hip Systems

HR Profile Ridge Pack 6m CLY

HR Profile MonoRidge Pack 6m CLY

### Additional Systems

10mm Eaves Ventilation Pack

25mm Eaves Ventilation Pack

Top Abutment Ventilator Kit

# BARROW

Plain Tile

Clay



**A handcrafted clay plain tile with a sanded finish. Each tile has a subtle irregular form which creates the appearance of a traditional, aged roof with character.**

## Product Technical Information Sheet

### Roof Tiling

<b>Minimum roof pitch</b>	<b>35°</b>
Headlap	65 mm
Batten spacing (fixed gauge) <sup>†</sup>	100 mm
Size of tile <sup>†</sup>	265 x 165 mm
Covering capacity at max. gauge	60 tiles per m <sup>2</sup>
Cover width	165 mm
Profile depth	13 mm
Hanging length	245 mm
Weight as laid	61.8 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.1 tonnes
Weight per tile	1.03 kg
Weight per pallet (including pallet and packaging)	0.583 tonnes
Bond	Cross / Broken
Quantity per pallet	530
Battens per m <sup>2</sup>	10 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

### Vertical Tiling

<b>Minimum roof pitch</b>	<b>75°</b>
Headlap (minimum)	38 mm
Batten spacing at max. gauge <sup>†</sup>	114 mm
Size of tile <sup>†</sup>	265 x 165 mm
Covering capacity at max. gauge	53 tiles per m <sup>2</sup>
Cover width	165 mm
Profile depth	13 mm
Hanging length	245 mm
Weight as laid	54.6 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.1 tonnes
Weight per tile	1.03 kg
Weight per pallet (including pallet and packaging)	0.583 tonnes
Bond	Cross / Broken
Quantity per pallet	530
Battens per m <sup>2</sup>	8.8 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

<sup>†</sup>Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

## Sanded

### Bay Brown



### Burnt Oak



### Dark Rusper



### Light Rusper



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Fittings

### Eaves/Tops Tile

210 x 165 x 13mm



### Tile and a Half

265 x 247 x 13mm



### Bonnet Hip

270 x 330 x 13mm



### Valley Tile

280 x 350 x 13mm



### External Angle

265 x 160 x 80mm



### Feature Tile (Club)

265 x 165 x 13mm



LH and RH available in both 90° and 135°  
(LH 90° shown)

### Additional Fittings

Arris Hip (35°, 40°, 45°, 50°)

Internal Angle 90° & 135° (LH & RH)

## Accessories

### InvisiVent<sup>1</sup>

490 x 310mm



## Associated Ridge / Hip

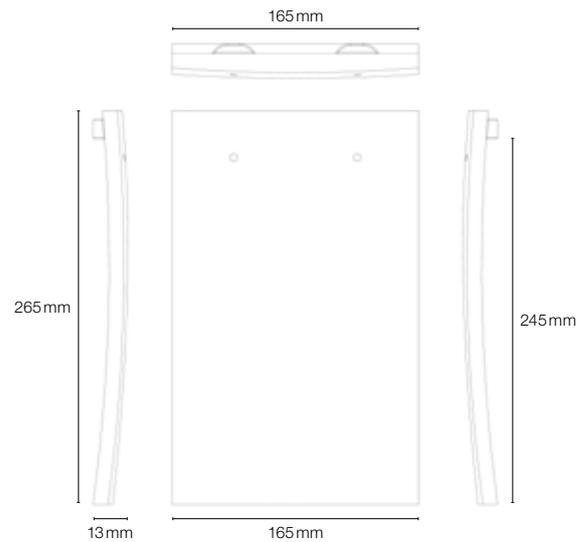
### Half Round Ridge 305mm



### Third Round Ridge 305mm



## Tile Dimensions



## Associated Systems

### Additional Systems

10mm Eaves Ventilation Pack

25mm Eaves Ventilation Pack

Top Abutment Ventilator Kit

<sup>1</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

All dimensions are nominal and taken from the drawing.  
Actual product dimensions may vary slightly from those referenced above.

301

Plain Tile

Clay



**A traditional clay plain tile that gives complete design flexibility, perfect for adding character to any roof and wall.**

### Product Technical Information Sheet

#### Roof Tiling

<b>Minimum roof pitch</b>	<b>35°</b>
Headlap	65 mm
Batten spacing (fixed gauge) <sup>†</sup>	102.5 mm
Size of tile <sup>†</sup>	270 x 170 mm
Covering capacity	57.4 tiles per m <sup>2</sup>
Cover width	170 mm
Profile depth	12 mm
Hanging length	254 mm
Weight as laid	58.6 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.06 tonnes
Weight per tile	1.02 kg
Weight per pallet (including pallet and packaging)	1.221 tonnes
Bond	Cross / Broken
Quantity per pallet	1152
Battens per m <sup>2</sup>	9.8 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

#### Vertical Tiling

<b>Minimum roof pitch</b>	<b>75°</b>
Headlap	38 mm
Batten spacing (fixed gauge) <sup>†</sup>	116 mm
Size of tile <sup>†</sup>	270 x 170 mm
Covering capacity	50.8 tiles per m <sup>2</sup>
Cover width	170 mm
Profile depth	12 mm
Hanging length	254 mm
Weight as laid	51.9 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.06 tonnes
Weight per tile	1.02 kg
Weight per pallet (including pallet and packaging)	1.221 tonnes
Bond	Cross / Broken
Quantity per pallet	1152
Battens per m <sup>2</sup>	8.7 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

<sup>†</sup>Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

### Smooth

#### Amarant



#### Natural Red



#### Rustic



#### Toscana



### Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these Standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online tool at [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Fittings

### Eaves / Tops Tile

185 x 170 x 12 mm



### Tile and a Half

270 x 255 x 12 mm



### Bonnet Hip

300 x 335 x 12 mm



### Valley Tile

290 x 325 x 12 mm



### External Angle 90°

270 x 180 x 55 mm



### Feature Tile (Club)

270 x 170 x 12 mm



LH and RH available (LH shown)

Lead times may apply

## Accessories

### InvisiVent<sup>1 2</sup>

490 x 310 mm

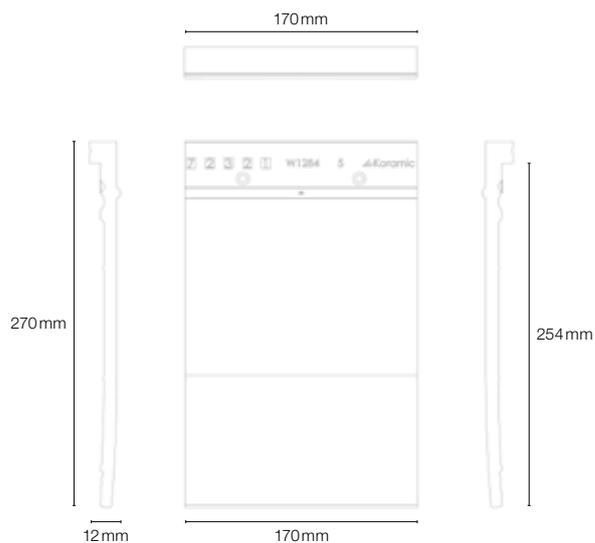


## Associated Ridge / Hip

### Koramic 325mm Ridge



## Tile Dimensions



## Associated Systems

### Additional Systems

- 10mm Eaves Ventilation Pack
- 25mm Eaves Ventilation Pack
- Top Abutment Ventilator Kit

<sup>1</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

<sup>2</sup> Not suitable for roof pitches below 22.5°.

All dimensions are nominal and taken from the drawing. Actual product dimensions may vary slightly from those referenced above.



**A traditional clay plain tile with a sanded finish, available in a choice of three colours.**

### Product Technical Information Sheet

#### Roof Tiling

<b>Minimum roof pitch</b>	<b>35°</b>
Headlap	65 mm
Batten spacing (fixed gauge) <sup>†</sup>	102.5 mm
Size of tile <sup>†</sup>	270 x 170 mm
Covering capacity	57.4 tiles per m <sup>2</sup>
Cover width	170 mm
Profile depth	12 mm
Hanging length	254 mm
Weight as laid	60.9 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.07 tonnes
Weight per tile	1.06 kg
Weight per pallet (including pallet and packaging)	1.233 tonnes
Bond	Cross / Broken
Quantity per pallet	1152
Battens per m <sup>2</sup>	9.8 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

#### Vertical Tiling

<b>Minimum roof pitch</b>	<b>75°</b>
Headlap	38 mm
Batten spacing (fixed gauge) <sup>†</sup>	116 mm
Size of tile <sup>†</sup>	270 x 170 mm
Covering capacity	50.8 tiles per m <sup>2</sup>
Cover width	170 mm
Profile depth	12 mm
Hanging length	254 mm
Weight as laid	53.9 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.07 tonnes
Weight per tile	1.06 kg
Weight per pallet (including pallet and packaging)	1.233 tonnes
Bond	Cross / Broken
Quantity per pallet	1152
Battens per m <sup>2</sup>	8.7 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

<sup>†</sup>Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

### Sanded

#### Old Heather



#### Old Rustic



#### Old Weathered



### Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these Standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online tool at [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Fittings

### Eaves / Tops Tile

185 x 170 x 12 mm



### Tile and a Half

270 x 255 x 12 mm



### Bonnet Hip

300 x 335 x 12 mm



### Valley Tile

290 x 325 x 12 mm



### External Angle 90

270 x 180 x 55 mm



### Feature Tile Club

270 x 170 x 12 mm



LH and RH available (LH shown)

Lead times may apply

## Accessories

### InvisiVent<sup>1 2</sup>

490 x 310 mm

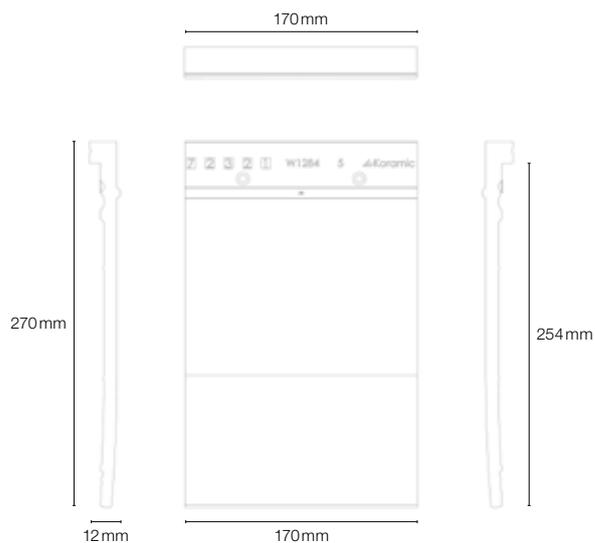


## Associated Ridge / Hip

### Koramic 325mm Ridge



## Tile Dimensions



## Associated Systems

### Additional Systems

- 10 mm Eaves Ventilation Pack
- 25 mm Eaves Ventilation Pack
- Top Abutment Ventilator Kit

<sup>1</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

<sup>2</sup> Not suitable for roof pitches below 22.5°.

All dimensions are nominal and taken from the drawing. Actual product dimensions may vary slightly from those referenced above.

20/20

Clay



**A new generation interlocking clay plain tile. The 20/20 makes a plain tile roof more affordable through an innovative design that reduces labour and material costs, and cuts completion times.**

### Product Technical Information Sheet

Roof Tiling	
Minimum roof pitch*	15° at 100mm headlap 22.5° at 75mm headlap
Headlap (minimum)	75 mm
Headlap (maximum)	120 mm
Batten spacing at maximum gauge†	255 mm
Batten spacing at minimum gauge†	210 mm
Size of tile†	330 x 226 mm
Covering capacity	23.2 tiles per m <sup>2</sup> at 100mm headlap
	20.9 tiles per m <sup>2</sup> at 75 mm headlap
Cover width	188 mm
Profile depth	16 mm
Hanging length	300 mm
Weight as laid	43.9 kg per m <sup>2</sup> at 100mm headlap
	49.6 kg per m <sup>2</sup> at 75 mm headlap
Weight per 1000 (including pallet and packaging)	1.992 tonnes
Weight per tile	1.89 kg
Weight per pallet (including pallet and packaging)	956 kg
Bond	Cross / Broken
Quantity per pallet	480
Quantity per row/band	40
Quantity per mini pack	10
Quantity per layer	120
Mini packs per row	4
Battens per m <sup>2</sup>	4.4 m at 100 mm headlap
	4.0 m at 75 mm headlap
Batten size - up to 450 mm rafter centres	38 x 25 mm
Batten size - up to 600 mm rafter centres	50 x 25 mm
Nail size/type for tiles	45 x 3.35 mm aluminium ring shank clout head
Nail size/type for metal tile clips	55 x 3.35 mm aluminium ring shank clout head

\*For projects where the rafters are below 22.5 degrees the roof substructure must be installed in accordance with the Sandtoft low pitch installation guide. Rafter length restrictions apply at minimum roof pitch.

†Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

### Smooth

Antique Slate



Flanders



Natural Red



Tuscan



### Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these Standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online tool at [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Fittings

### Left Hand Verge

330 x 191 x 16mm



### Tile and a Half Left Hand

330 x 286 x 16mm



### Tile and a Half Right Hand

330 x 321 x 16mm



## Accessories

### Tile Clip

Nail size 55 x 3.35mm



### Eaves Clip<sup>1</sup>

Nail size 20 x 3.35mm



### Verge Clip

Nail size 20 x 3.35mm



### In-Line Vent<sup>2,3</sup>

470 x 401 x 140mm



## Associated Ridge / Hip

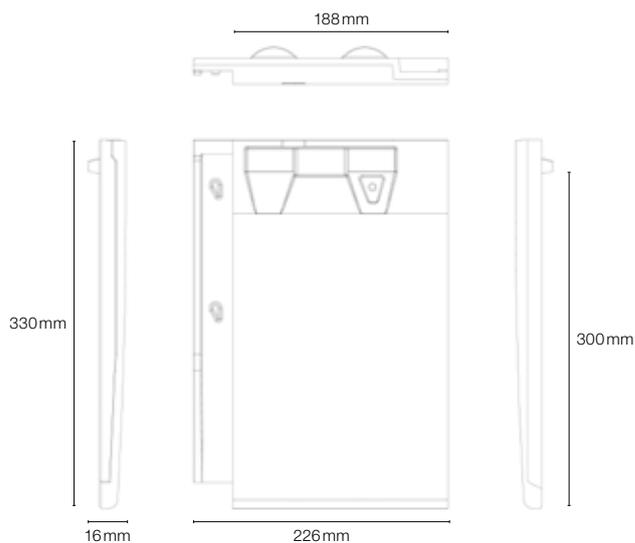
### Half Round Duracoat® Ridge 457mm



### Segmental Duracoat® Ridge 457mm



## Tile Dimensions



## Associated Systems

### Ridge/Hip Systems

HR Roll Ridge Pack 6m CON  
HR Profile Ridge Pack 6m CON  
Seg Roll Hip Pack 6m CON  
HR Profile MonoRidge Pack 6m CON  
Mortarless Hip/Valley Tile Top Clip  
Mortarless Hip/Valley Tail Clip TLE

### Dry Verge Systems

LH TLE/MF Dry Verge Unit  
RH TLE/MF Dry Verge Unit  
LH TLE/MF Dry Verge Eaves Unit  
RH TLE/MF Dry Verge Eaves Unit  
Ridge Closure Comb  
Ridge End Cap

### Additional Systems

10mm Eaves Ventilation Pack  
25mm Eaves Ventilation Pack  
Top Abutment Ventilator Kit

<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>2</sup> Requires Flexi Pipe for connection to soil or mechanical extraction.

<sup>3</sup> Not suitable for roof pitches below 22.5°. Low pitch In-Line Vent w/Pipe Adaptor also available for pitches below 22.5°

All dimensions are nominal and taken from the drawing.

Actual product dimensions may vary slightly from those referenced above.

# VAUBAN

## Clay



The Vauban is a medium format interlocking clay tile that gives a clean contemporary look, and can perform down to pitches as low as 22.5°.

### Product Technical Information Sheet

#### Roof Tiling

<b>Minimum roof pitch</b>	<b>22.5°</b>
Headlap (minimum)	93 mm
Headlap (maximum)	108 mm
Batten spacing at maximum gauge <sup>†</sup>	273 mm
Batten spacing at minimum gauge <sup>†</sup>	258 mm
Size of tile <sup>†</sup>	366 x 202 mm
Covering capacity	21.9 tiles per m <sup>2</sup> at 75 mm headlap
Cover width	168 mm
Profile depth	20 mm
Hanging length	326 mm
Weight as laid	51.5 kg per m <sup>2</sup> at 75 mm headlap
Weight per 1000 (including pallet and packaging)	2.26 tonnes
Weight per tile	2.35 kg
Weight per pallet (including pallet and packaging)	0.826 tonnes
Bond	Cross / Broken
Quantity per pallet	350
Battens per m <sup>2</sup>	3.7 m
Batten size - up to 450 mm rafter centres	38 x 25 mm
Batten size - up to 600 mm rafter centres	50 x 25 mm
Nail size/type for tiles	50 x 3.35 mm aluminium ring shank clout head
Nail size/type for metal tile clips	55 x 3.35 mm aluminium ring shank clout head

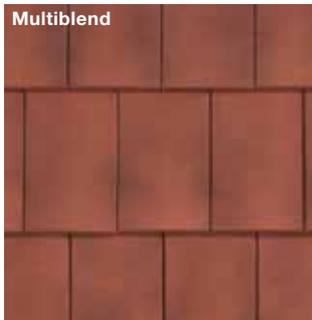
<sup>†</sup>Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

### Smooth

#### Multiblend



#### Natural Red



#### Slate Engobe



### Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Fittings

### Eaves Tile

366 x 202 x 30mm



### Left Hand Vergé

366 x 168 x 30mm



### Tile and a Half Left Hand

366 x 252 x 30mm



### Tile and a Half Right Hand

366 x 295 x 30mm



## Accessories

### Tile Clip

Nail size 50 x 3.35mm



### Eaves Clip<sup>1</sup>

Nail size 20 x 3.35mm



### Vergé Clip

Nail size 20 x 3.35mm



### In-Line Vent<sup>2,3</sup>

457 x 370 x 131mm



## Associated Ridge / Hip

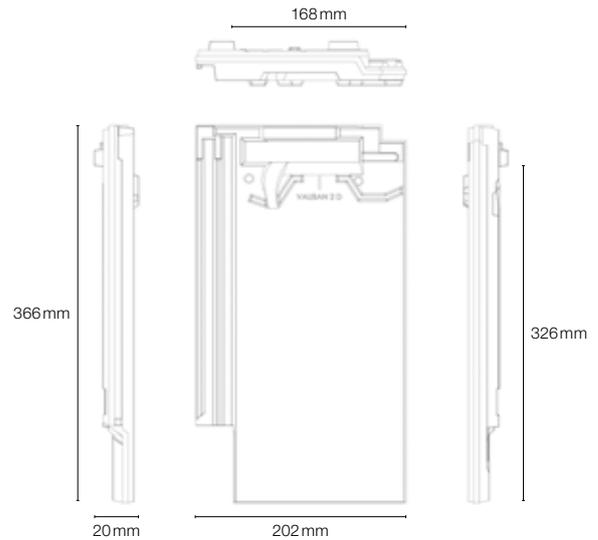
### Half Round Duracoat® Ridge 457mm



### Segmental Duracoat® Ridge 457mm



## Tile Dimensions



## Associated Systems

### Ridge/Hip Systems

HR Roll Ridge Pack 6m CON  
HR Profile Ridge Pack 6m CON  
Seg Roll Hip Pack 6m CON  
HR Profile MonoRidge Pack 6m CON  
Mortarless Hip/Valley Tile Top Clip  
Mortarless Hip/Valley Tail Clip STD

### Dry Vergé Systems

Continuous Dry Vergé  
Vergé Connector  
Eaves Stop End

### Additional Systems

10mm Eaves Ventilation Pack  
25mm Eaves Ventilation Pack  
Top Abutment Ventilator Kit

<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm

Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>2</sup> Requires Flexi Pipe for connection to soil or mechanical extraction.

<sup>3</sup> Not suitable for roof pitches below 22.5°.

All dimensions are nominal and taken from the drawing.

Actual product dimensions may vary slightly from those referenced above.

# CASSIUS

## Clay



**Cassius is a thin leading edge large format tile that creates an attractive natural clay roof, while the large format size and interlocking design reduce material and installation costs.**

### Product Technical Information Sheet

#### Roof Tiling

<b>Minimum roof pitch</b>	<b>22.5°</b>
Headlap (minimum)	75 mm
Headlap (maximum)	120 mm
Batten spacing at maximum gauge †	343 mm
Batten spacing at minimum gauge †	298 mm
Size of tile*	418 x 335 mm
Covering capacity	9.5 tiles per m <sup>2</sup> at 75 mm headlap
Cover width	307 mm
Profile depth	16 mm
Hanging length	390 mm
Weight as laid	38.5 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	4.19 tonnes
Weight per tile	4.05 kg
Weight per pallet (including pallet and packaging)	1.004 tonnes
Bond	Cross / Broken
Quantity per pallet	240
Quantity per row/band	40
Quantity per mini pack	5
Quantity per layer	120
Mini packs per row	8
Battens per m <sup>2</sup>	3.0m at 75 mm headlap
Batten size - up to 450 mm rafter centres	38 x 25 mm
Batten size - up to 600 mm rafter centres	50 x 25 mm
Nail size/type for tiles	45 x 3.35 mm aluminium ring shank clout head
Nail size/type for metal tile clips	55 x 3.35 mm aluminium ring shank clout head

† Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

### Smooth

#### Antique Slate



### Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)



## Fittings

### Left Hand Vergé

418 x 289 x 16mm



### Left Hand Half Tile

418 x 145 x 16mm



### Right Hand Half Tile

418 x 186 x 16mm



### Cloaked Vergé

430 x 125 x 30mm



LH & RH available (RH shown)

## Accessories

### Tile Clip

Nail size 55 x 3.35mm



### Eaves Clip<sup>1</sup>

Nail size 20 x 3.35mm



### Vergé Clip

Nail size 20 x 3.35mm



### In-Line Vent<sup>2,4</sup>

453 x 335 x 85mm



### Additional Fittings

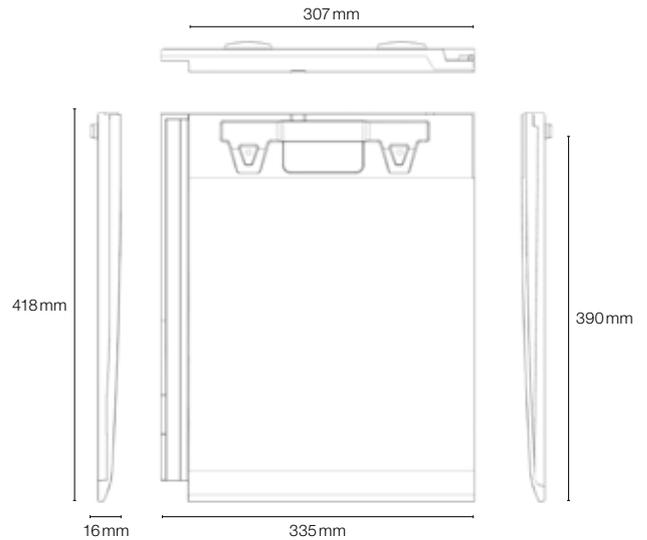
Cowl Vent<sup>3,4</sup>

## Associated Ridge / Hip

### Multi Angle Duracoat<sup>®</sup> Ridge 457mm



## Tile Dimensions



## Associated Systems

### Ridge/Hip Systems

MA Profile Ridge Pack 6m  
MA Roll Ridge & Hip Pack 6m  
MA Profile MonoRidge Pack 6m  
Mortarless Hip/Valley Tile Top Clip  
Mortarless Hip/Valley Tail Clip TLE

### Additional Systems

10mm Eaves Ventilation Pack  
25mm Eaves Ventilation Pack  
Top Abutment Ventilator Kit

### Dry Vergé Systems

LH Dry Vergé Unit  
RH Dry Vergé Unit  
LH Dry Vergé Eaves Unit  
RH Dry Vergé Eaves Unit  
Ridge Closure Comb  
Ridge End Cap

<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>2</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

<sup>3</sup> Requires Flexi Pipe for connection to soil or mechanical extraction.

<sup>4</sup> Not suitable for roof pitches below 22.5°.

All dimensions are nominal and taken from the drawing. Actual product dimensions may vary slightly from those referenced above.



Featuring a riven surface and dressed edges with a colour permanent ceramic finish, this large format interlocking slate offers significant cost savings over double lap slate products.

### Product Technical Information Sheet

#### Roof Tiling

<b>Minimum roof pitch</b>	<b>22.5°</b>
Headlap (minimum)	75 mm
Headlap (maximum)	120 mm
Batten spacing at maximum gauge <sup>†</sup>	343 mm
Batten spacing at minimum gauge <sup>†</sup>	298 mm
Size of tile <sup>1</sup>	418 x 335 mm
Covering capacity	9.5 tiles per m <sup>2</sup> at 75 mm headlap
Cover width	307 mm
Profile depth	16 mm
Hanging length	390 mm
Weight as laid	39.9 kg per m <sup>2</sup> at 75 mm headlap
Weight per 1000 (including pallet and packaging)	4.4 tonnes
Weight per tile	4.2 kg
Weight per pallet (including pallet and packaging)	1.056 tonnes
Bond	Cross / Broken
Quantity per pallet	240
Quantity per row/band	40
Quantity per mini pack	5
Quantity per layer	120
Mini packs per row	8
Battens per m <sup>2</sup>	3.0m at 75 mm headlap
Batten size - up to 450 mm rafter centres	38 x 25 mm
Batten size - up to 600 mm rafter centres	50 x 25 mm
Nail size/type for tiles	45 x 3.35 mm aluminium ring shank clout head
Nail size/type for metal tile clips	55 x 3.35 mm aluminium ring shank clout head

<sup>†</sup>Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

### Sanded

#### Antique Slate



### Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)



## Fittings

### Left Hand Vergé

418 x 289 x 16mm



### Left Hand Half Tile

418 x 145 x 16mm



### Right Hand Half Tile

418 x 186 x 16mm



### Cloaked Vergé

430 x 125 x 30mm



LH & RH available (RH shown)

## Accessories

### Tile Clip

Nail size 55 x 3.35mm



### Eaves Clip<sup>1</sup>

Nail size 20 x 3.35mm



### Vergé Clip

Nail size 20 x 3.35mm



### In-Line Vent<sup>2,4</sup>

453 x 335 x 85mm



### Additional Fittings

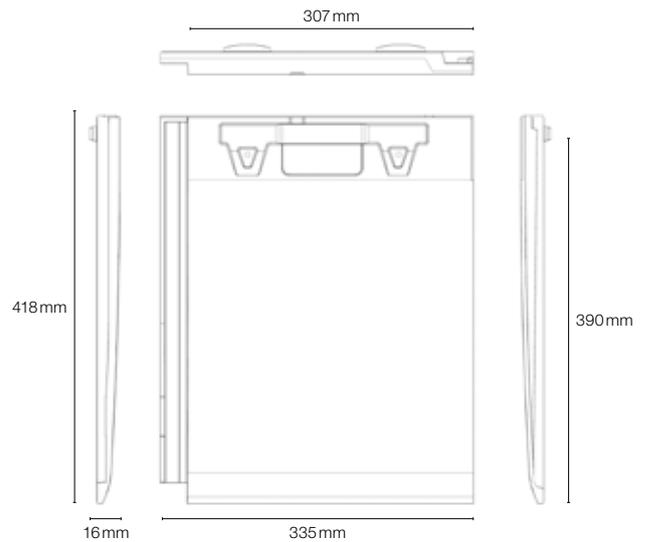
Cowl Vent<sup>3,4</sup>

## Associated Ridge / Hip

### Multi Angle Duracoat<sup>®</sup> Ridge 457mm



## Tile Dimensions



## Associated Systems

### Ridge/Hip Systems

MA Profile Ridge Pack 6m  
MA Roll Ridge & Hip Pack 6m  
MA Profile MonoRidge Pack 6m  
Mortarless Hip/Valley Tile Top Clip  
Mortarless Hip/Valley Tail Clip TLE

### Additional Systems

10mm Eaves Ventilation Pack  
25mm Eaves Ventilation Pack  
Top Abutment Ventilator Kit

### Dry Vergé Systems

LH Dry Vergé Unit  
RH Dry Vergé Unit  
LH Dry Vergé Eaves Unit  
RH Dry Vergé Eaves Unit  
Ridge Closure Comb  
Ridge End Cap

<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>2</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

<sup>3</sup> Requires Flexi Pipe for connection to soil or mechanical extraction.

<sup>4</sup> Not suitable for roof pitches below 22.5°.

All dimensions are nominal and taken from the drawing. Actual product dimensions may vary slightly from those referenced above.



**Contemporary, large format, flat interlocking tile which has been designed to perform down to 22.5° and also as a vertical cladding solution.**

### Product Technical Information Sheet

Roof Tiling	
<b>Minimum roof pitch</b>	<b>22.5°</b>
Headlap (minimum)	102 mm
Headlap (maximum)	162 mm
Batten spacing at maximum gauge†	370 mm
Batten spacing at minimum gauge†	310 mm
Size of tile†	472 x 303 mm
Covering capacity	10.4 tiles per m <sup>2</sup> at 102 mm headlap
Cover width	262 mm
Profile depth	31 mm
Hanging length	440 mm
Weight as laid	45.8 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	4.42 tonnes
Weight per tile	4.4 kg
Weight per pallet (including pallet and packaging)	1.06 tonnes
Bond	Cross / Broken
Quantity per pallet	240
Battens per m <sup>2</sup>	2.8 m at 102 mm headlap
Batten size - up to 450 mm rafter centres	38 x 25 mm
Batten size - up to 600 mm rafter centres	50 x 25 mm
Nail size/type for tiles	55 x 3.35 mm aluminium ring shank clout head
Nail size/type for metal tile clips	Integrated with clip

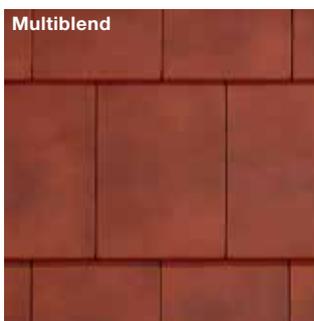
†Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

### Smooth

#### Multiblend



#### Slate Engobe



### Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these Standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online tool at [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Fittings

### Left Hand Verge

472 x 262 x 31 mm



### Left Hand Half Tile

472 x 132 x 31 mm



### Right Hand Half Tile

472 x 177 x 31 mm



### Cloaked Verge

472 x 253 x 100 mm



LH & RH available (LH shown)  
Lead times may apply

## Accessories

### Tile Clip



Nail integral to clip

### Eaves Clip<sup>1</sup>

Nail size 20 x 3.35 mm



### Verge Clip

Nail size 20 x 3.35 mm

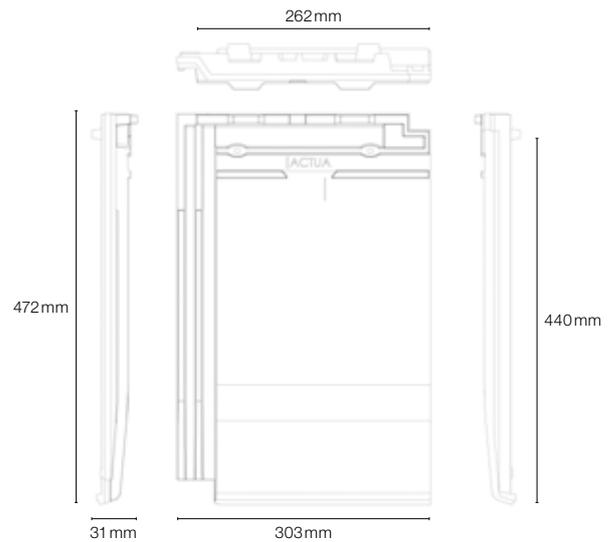


### In-Line Vent<sup>2,3</sup>

540 x 303 x 145 mm



## Tile Dimensions



## Associated Systems

### Ridge/Hip Systems

MA Profile Ridge Pack 6m  
MA Roll Ridge & Hip Pack 6m  
MA Profile MonoRidge Pack 6m  
Mortarless Hip/Valley Tile Top Clip  
Mortarless Hip/Valley Tail Clip STD

### Additional Systems

10 mm Eaves Ventilation Pack  
25 mm Eaves Ventilation Pack  
Top Abutment Ventilator Kit

### Dry Verge Systems

Deep Profile Continuous Dry Verge  
Verge Connector  
Eaves Stop End

## Associated Ridge / Hip

### Multi Angle Duracoat® Ridge 457mm



<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm

Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>2</sup> Requires Flexi Pipe for connection to soil or mechanical extraction.

<sup>3</sup> Not suitable for roof pitches below 22.5°.

All dimensions are nominal and taken from the drawing.

Actual product dimensions may vary slightly from those referenced above.

# NEO PLUS

Clay



**Introducing the Neo Plus, our improved and updated Neo Pantile. We have taken this classic design and re-engineered it for improved performance and even easier installation.**

## Product Technical Information Sheet

Roof Tiling	
<b>Minimum roof pitch*</b>	<b>20° at 100mm headlap 22.5° at 75mm headlap</b>
Headlap (minimum)	75 mm
Headlap (maximum)	120 mm
Batten spacing at maximum gauge†	309 mm
Batten spacing at minimum gauge†	264 mm
Size of tile†	387 x 246mm
Covering capacity	14.9 tiles per m <sup>2</sup> at 75 mm headlap
	16.0 tiles per m <sup>2</sup> at 100mm headlap
Cover width	218mm
Profile depth	69mm
Hanging length	357 mm
Weight as laid	40.3 kg per m <sup>2</sup> at 75mm headlap
	43.2 kg per m <sup>2</sup> at 100 mm headlap
Weight per 1000 (including pallet and packaging)	2.809 tonnes
Weight per tile	2.7 kg
Weight per pallet (including pallet and packaging)	0.809 tonnes
Bond	Straight
Quantity per pallet	288
Quantity per row/band	6 per band / 36 per row
Quantity per layer	72
Battens per m <sup>2</sup>	3.3m at 75 mm headlap
	3.5m at 100mm headlap
Batten size - up to 450 mm rafter centres	38 x 25 mm
Batten size - up to 600 mm rafter centres	50 x 25 mm
Nail size/type for tiles	45 x 3.35 mm aluminium ring shank clout head
Nail size/type for metal tile clips	55 x 3.35 mm aluminium ring shank clout head

## Smooth



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)



\*For projects where the rafters are below 22.5 degrees the roof substructure must be installed in accordance with the Sandtoft low pitch installation guide. Rafter length restrictions apply at minimum roof pitch.

†Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

Due to the limitations of the printing process and screen calibration settings images shown may not be an accurate representation of the final product colour. Please obtain a sample if unsure.

## Fittings

### Left Hand Verge

387 x 246 x 69mm



### Cloaked Verge

392 x 290 x 135mm



LH & RH available (LH shown)

## Accessories

### Tile Clip<sup>1</sup>

Nail size 55 x 3.35mm



### Eaves Clip<sup>2</sup>

Nail size 20 x 3.35mm



### Verge Clip

Nail size 20 x 3.35mm



### In-Line Vent<sup>3,5</sup>

384 x 245 x 125mm



### Cowl Vent<sup>4,5</sup>

387 x 246mm



## Associated Ridge / Hip

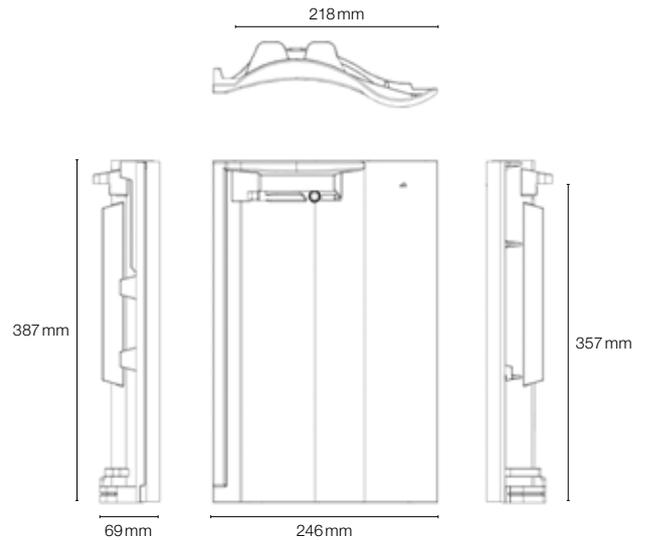
### Half Round Ridge 305mm



### Third Round Ridge 305mm



## Tile Dimensions



## Associated Systems

### Ridge/Hip Systems

HR Roll Ridge Pack 6m CLY  
HR Profile Ridge Pack 6m CLY<sup>6</sup>  
TR Roll Hip Pack 6m CLY  
HR Profile MonoRidge Pack 6m CLY<sup>6</sup>  
Mortarless Hip/Valley Tile Top Clip  
Mortarless Hip/Valley Tail Clip STD  
Profile Dry Ridge Fillers  
Double Dentil Slip

### Dry Verge Systems

LH Multiverge Unit  
RH Multiverge Unit  
LH Multiverge Eaves Unit  
RH Multiverge Eaves Unit  
Ridge Closure Comb  
Ridge End Cap

### Additional Systems

10mm Eaves Ventilation Pack  
25mm Eaves Ventilation Pack  
Top Abutment Ventilator Kit<sup>6</sup>  
Bird Comb Filler

<sup>1</sup> Plastic clip also available.

<sup>2</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>3</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

<sup>4</sup> Requires Flexi Pipe for connection to soil or mechanical extraction.

<sup>5</sup> Not suitable for roof pitches below 22.5°.

<sup>6</sup> Profile Dry Ridge Fillers sold separately in box quantities sufficient for 6m of Ridge/12m of Monoridge.

All dimensions are nominal and taken from the drawing.  
Actual product dimensions may vary slightly from those referenced above.

# NEW COUNTY

Pantile  
Clay



**The County Pantile combines the visual qualities of a traditional clay pantile, with the enhanced performance of a double interlocking design.**

## Product Technical Information Sheet

### Roof Tiling

<b>Minimum roof pitch</b>	<b>22.5°</b>
Headlap (minimum)	62 mm
Headlap (maximum)	77 mm
Batten spacing at maximum gauge <sup>†</sup>	320 mm
Batten spacing at minimum gauge <sup>†</sup>	305 mm
Size of tile <sup>†</sup>	382 x 256 mm
Covering capacity	15.5 tiles per m <sup>2</sup> at 62 mm headlap
Cover width	202 mm
Profile depth	65 mm
Hanging length	355 mm
Weight as laid	38.0 kg per m <sup>2</sup> at 62 mm headlap
Weight per 1000 (including pallet and packaging)	2.505 tonnes
Weight per tile	2.45 kg
Weight per pallet (including pallet and packaging)	0.963 tonnes
Bond	Straight
Quantity per pallet <sup>‡</sup>	378
Quantity per row/band	42
Quantity per mini pack	6
Quantity per layer	126
Mini packs per row	7
Battens per m <sup>2</sup>	3.2m at 62mm headlap
Batten size - up to 450mm rafter centres	38 x 25mm
Batten size - up to 600mm rafter centres	50 x 25mm
Nail size/type for tiles	38 x 3.35mm aluminium ring shank clout head
Nail size/type for metal tile clips	Nail integrated with clip

<sup>†</sup> Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

<sup>‡</sup> Pallet quantity for Antique Slate is 252.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

## Smooth

### Antique Slate



### Mixed Russet



### Natural Red



### Old Copper



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Fittings

### Left Hand Verge

382 x 292 x 65mm



### Cloaked Verge

382 x 292 x 125mm



LH and RH available (LH shown)

## Accessories

### Tile Clip



Nail integrated with clip

### Eaves Clip<sup>1</sup>

Nail size 50 x 3.35mm



### Verge Clip

Nail size 20 x 3.35mm



### In-Line Vent<sup>2,3</sup>

452 x 458 x 143mm

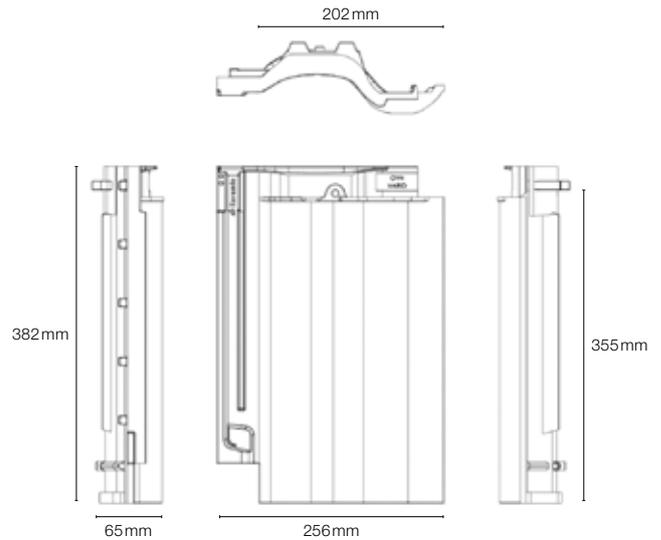


## Associated Ridge / Hip

### Koramic 325mm Ridge



## Tile Dimensions



## Associated Systems

### Ridge/Hip Systems

Koramic 325 Profile Ridge<sup>4</sup>  
Profile Dry Ridge Fillers  
Double Dentil Slip

### Additional Systems

10mm Eaves Ventilation Pack  
25mm Eaves Ventilation Pack  
Top Abutment Ventilator Kit<sup>4</sup>  
Bird Comb Filler

<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>2</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

<sup>3</sup> Not suitable for roof pitches below 22.5°.

<sup>4</sup> Profile Dry Ridge Fillers sold separately in box quantities sufficient for 6m of Ridge/12m of Monoridge.

All dimensions are nominal and taken from the drawing.

Actual product dimensions may vary slightly from those referenced above.

# OLD ENGLISH

Pantile  
Clay



**A traditional clay pantile offering beauty by design. This classic shape, with its carefully proportioned profile, creates a long lasting, beautiful roof.**

## Product Technical Information Sheet

### Roof Tiling

<b>Minimum roof pitch</b>	<b>30°</b>
Headlap	75 mm
Batten spacing (fixed gauge)†	290 mm
Size of tile†	365 x 250 mm
Covering capacity	17.3 tiles per m <sup>2</sup> at 75 mm headlap
Cover width	200 mm
Profile depth	45 mm
Hanging length	340 mm
Weight as laid	41.6 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	2.55 tonnes
Weight per tile	2.4 kg
Weight per pallet (including pallet and packaging)	0.734 tonnes
Bond	Straight
Quantity per pallet	288
Quantity per row/band	36
Quantity per mini pack	9
Quantity per layer	144
Mini packs per row	4
Battens per m <sup>2</sup>	3.5m at 75 mm headlap
Batten size - up to 450 mm rafter centres	38 x 25 mm
Batten size - up to 600 mm rafter centres	50 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head
Nail size/type for metal tile clips	Nail integrated with clip

†Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

## Smooth

### Antique Slate



### Flanders



### Natural Red



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Fittings

### Left Hand Verge

365 x 272 x 45mm



## Accessories

### Tile Clip



Nail integrated with clip

### Eaves Clip<sup>1</sup>

Nail size 20 x 3.35mm



### Verge Clip

Nail size 20 x 3.35mm



### In-Line Vent<sup>2,4</sup>

435 x 445 x 127mm



### Cowl Vent<sup>3,4</sup>

408 x 327mm



## Associated Ridge / Hip

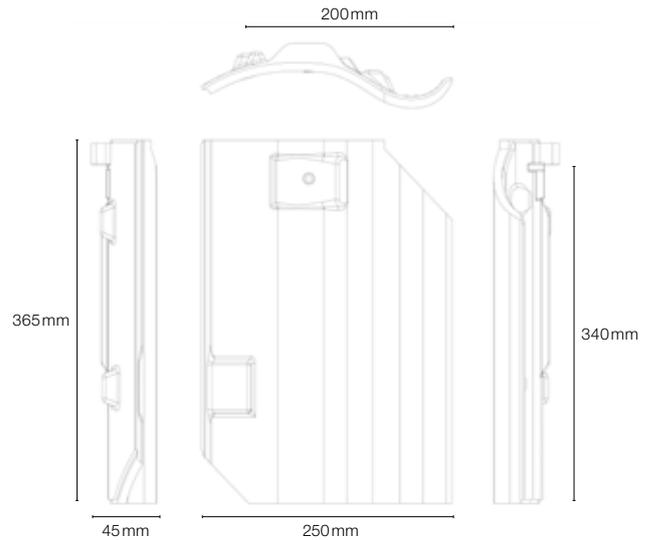
### Half Round Ridge 305mm



### Third Round Ridge 305mm



## Tile Dimensions



## Associated Systems

### Ridge/Hip Systems

Double Dentil Slip

### Additional Systems

10mm Eaves Ventilation Pack

25mm Eaves Ventilation Pack

<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>2</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

<sup>3</sup> Requires Flexi Pipe for connection to soil or mechanical extraction.

<sup>4</sup> Not suitable for roof pitches below 22.5°.

All dimensions are nominal and taken from the drawing.  
Actual product dimensions may vary slightly from those referenced above.

# ARCADIA

Pantile

Clay



**The Arcadia pantile provides the look of an aged pantile from the day it is installed on the roof. It replicates the charm and character of reclaimed pantiles from new.**

## Product Technical Information Sheet

Roof Tiling	
Minimum roof pitch	30°
Headlap	75 mm
Batten spacing (fixed gauge)†	290 mm
Size of tile†	365 x 250 mm
Covering capacity	17.3 tiles per m <sup>2</sup>
Cover width	200 mm
Profile depth	45 mm
Hanging length	340 mm
Weight as laid	41.6 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	2.55 tonnes
Weight per tile	2.4 kg
Weight per pallet (including pallet and packaging)	0.734 tonnes
Bond	Straight
Quantity per pallet	288
Quantity per row/band	36
Quantity per mini pack	9
Quantity per layer	144
Mini packs per row	4
Battens per m <sup>2</sup>	3.5 m
Batten size - up to 450 mm rafter centres	38 x 25 mm
Batten size - up to 600 mm rafter centres	50 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head
Nail size/type for metal tile clips	Nail integrated with clip

†Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

## Colours - Weathered

Reclaimed



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Accessories

### Tile Clip



Nail integrated with clip

### Eaves Clip<sup>1</sup>

Nail size 20 x 3.35 mm



### Verge Clip (LH)

Nail size 20 x 3.35 mm



### Verge Clip (RH)

Nail size 20 x 3.35 mm



### In-Line Vent<sup>2,4</sup>

435 x 445 x 127 mm

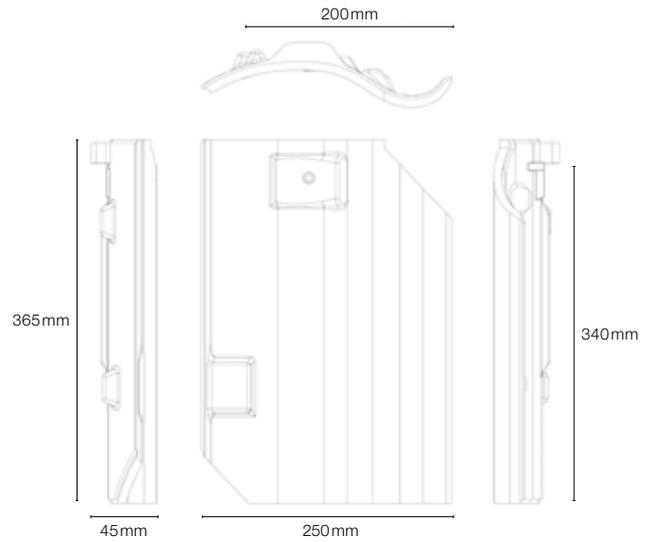


### Cowl Vent<sup>3,4</sup>

365 x 250 mm



## Tile Dimensions



## Associated Systems

### Ridge/Hip Systems

Double Dentil Slip

### Additional Systems

10 mm Eaves Ventilation Pack

25 mm Eaves Ventilation Pack

## Associated Ridge / Hip

### Half Round Ridge 305mm



### Third Round Ridge 305mm



<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>2</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

<sup>3</sup> Requires Flexi Pipe for connection to soil or mechanical extraction.

<sup>4</sup> Not suitable for roof pitches below 22.5°.

All dimensions are nominal and taken from the drawing. Actual product dimensions may vary slightly from those referenced above.

# 451 OLD HOLLOW

Pantile

Clay



**A reclaimed style tile designed to complement reclaimed brick, this traditional pantile can provide an authentic weathered appearance.**

## Product Technical Information Sheet

### Roof Tiling

<b>Minimum roof pitch</b>	<b>25°</b>
Headlap	75 mm
Batten spacing (fixed gauge)†	273 mm
Size of tile†	348 x 246 mm
Covering capacity	18.9 tiles per m <sup>2</sup>
Cover width	194 mm
Profile depth	65 mm
Hanging length	325 mm
Weight as laid	43.5 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	2.39 tonnes
Weight per tile	2.3 kg
Weight per pallet (including pallet and packaging)	1.033 tonnes
Bond	Straight
Quantity per pallet‡	432
Battens per m <sup>2</sup>	3.7 m
Batten size - up to 450mm rafter centres	38 x 25 mm
Batten size - up to 600mm rafter centres	50 x 25 mm
Nail size/type for tiles	45 x 3.35 mm aluminium ring shank clout head
Nail size/type for metal tile clips	Integrated with clip

†Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

‡Pallet quantity for Braised Blue and Victorian Braised Blue is 320.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

## Smooth

### Anthracite



### Black Glazed\*



### Braised Blue\*



### Natural Red



### Rustic

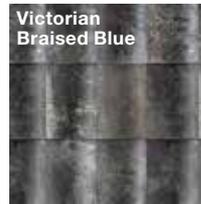


## Colours - Weathered

### Victorian



### Victorian Braised Blue



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

\* Lead times may apply.

Due to the limitations of the printing process and screen calibration settings images shown may not be an accurate representation of the final product colour. Please obtain a sample if unsure.

## Fittings

### Left Hand Verge

348 x 280 x 55 mm



### Cloaked Verge

348 x 285 x 65 mm



LH and RH available (LH shown)  
Lead times may apply

## Accessories

### Tile Clip

Nail integrated with clip



### Eaves Clip<sup>1</sup>

Nail size 20 x 3.35 mm



### Left Hand Verge Clip

Nail size 20 x 3.35 mm



### Right Hand Verge Clip

Nail size 20 x 3.35 mm

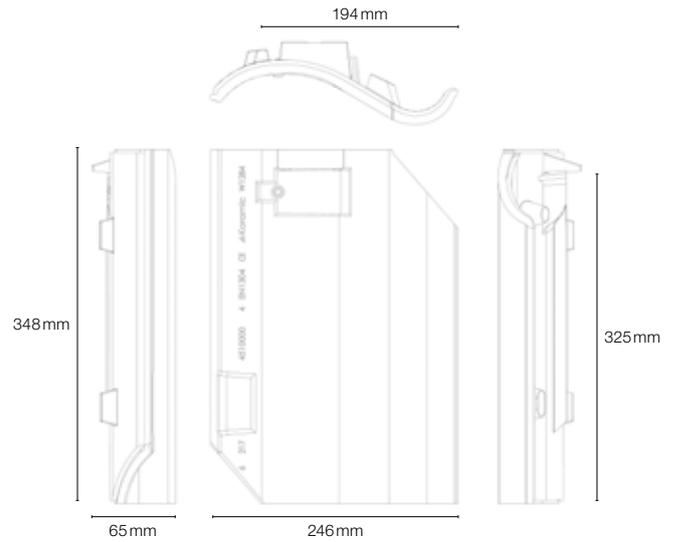


## Associated Ridge / Hip

### Koramic 325 mm Ridge



## Tile Dimensions



## Associated Systems

### Additional Systems

10 mm Eaves Ventilation Pack

25 mm Eaves Ventilation Pack

<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

All dimensions are nominal and taken from the drawing.  
Actual product dimensions may vary slightly from those referenced above.

# OLYMPUS

Double Pantile

Clay



**A New Generation clay tile designed to provide all the benefits of a natural clay roof at an affordable price thanks to its innovative design and large format size.**

## Product Technical Information Sheet

### Roof Tiling

<b>Minimum roof pitch</b>	<b>22.5°</b>
Headlap (minimum)	75 mm
Headlap (maximum)	120 mm
Batten spacing at maximum gauge <sup>†</sup>	333 mm
Batten spacing at minimum gauge <sup>†</sup>	288 mm
Size of tile <sup>†</sup>	408 x 327 mm
Covering capacity	10.2 tiles per m <sup>2</sup> at 75 mm headlap
Cover width	295 mm
Profile depth	57 mm
Hanging length	382 mm
Weight as laid	35.2 kg per m <sup>2</sup> at 75 mm headlap
Weight per 1000 (including pallet and packaging)	3.69 tonnes
Weight per tile	3.45 kg
Weight per pallet (including pallet and packaging)	0.776 tonnes
Bond	Straight
Quantity per pallet	210
Quantity per row/band	35
Quantity per mini pack	5
Quantity per layer	105
Mini packs per row	7
Battens per m <sup>2</sup>	3.1 m at 75 mm headlap
Batten size - up to 450 mm rafter centres	38 x 25 mm
Batten size - up to 600 mm rafter centres	50 x 25 mm
Nail size/type for tiles	65 x 3.75 mm aluminium ring shank clout head
Nail size/type for metal tile clips	55 x 3.35 mm aluminium ring shank clout head

<sup>†</sup>Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

## Smooth

### Flanders



### Natural Red



### Tuscan



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Fittings

### Left Hand Verge

408 x 330 x 57 mm



## Accessories

### Tile Clip<sup>1</sup>

Nail size 55 x 3.35 mm



### Eaves Clip<sup>2</sup>

Nail size 20 x 3.35 mm



### Verge Clip

Nail size 20 x 3.35 mm



### In-Line Vent<sup>3,5</sup>

408 x 327 x 110 mm



### Cowl Vent<sup>4,5</sup>

408 x 327 mm



## Associated Ridge / Hip

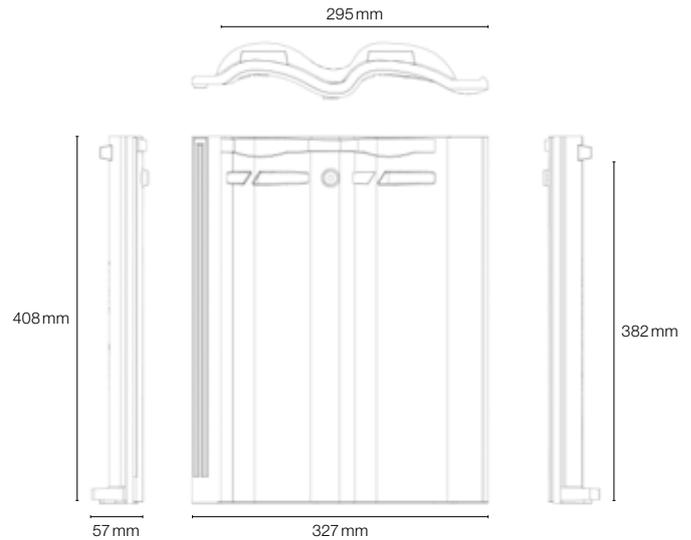
### Half Round Duracoat® Ridge 457mm



### Segmental Duracoat® Ridge 457mm



## Tile Dimensions



## Associated Systems

### Ridge/Hip Systems

HR Roll Ridge Pack 6m CON  
HR Profile Ridge Pack 6m CON<sup>6</sup>  
Seg Roll Hip Pack 6m CON  
HR Profile MonoRidge Pack 6m CON<sup>6</sup>  
Mortarless Hip/Valley Tile Top Clip  
Mortarless Hip/Valley Tail Clip STD  
Profile Dry Ridge Fillers

### Additional Systems

10mm Eaves Ventilation Pack  
25mm Eaves Ventilation Pack  
Top Abutment Ventilator Kit<sup>6</sup>  
Bird Comb Filler

### Dry Verge Systems

LH Multiverge Unit  
RH Multiverge Unit  
RH Multiverge Eaves Unit  
RH Multiverge Eaves Unit  
Ridge Closure Comb  
Ridge End Cap

<sup>1</sup> Plastic clip also available.

<sup>2</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>3</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

<sup>4</sup> Requires Flexi Pipe for connection to soil or mechanical extraction.

<sup>5</sup> Not suitable for roof pitches below 22.5°.

<sup>6</sup> Profile Dry Ridge Fillers sold separately in box quantities sufficient for 6m of Ridge/12m of Monoridge.

All dimensions are nominal and taken from the drawing.

Actual product dimensions may vary slightly from those referenced above.

# MODULA

## Clay



**Whether it's renovation or new build projects, the Modula Clay Double Roman can be installed quickly and efficiently with a cover width of 300mm.**

### Product Technical Information Sheet

Roof Tiling	
<b>Minimum roof pitch*</b>	<b>17.5° at 100mm headlap</b> <b>22.5° at 75mm headlap</b>
Headlap (minimum)	75mm
Headlap (maximum)	120mm
Batten spacing at maximum gauge†	368mm
Batten spacing at minimum gauge†	323mm
Size of tile†	443 x 328mm
Covering capacity	9.7 tiles per m <sup>2</sup> at 100mm headlap
	9.1 tiles per m <sup>2</sup> at 75mm headlap
Cover width	300mm
Profile depth	54mm
Hanging length	416mm
Weight as laid	38.5 kg per m <sup>2</sup> at 100mm headlap
	35.4kg per m <sup>2</sup> at 75mm headlap
Weight per 1000 (including pallet and packaging)	4.05 tonnes
Weight per tile	3.89kg
Weight per pallet (including pallet and packaging)	0.972 tonnes
Bond	Straight
Quantity per pallet	240
Battens per m <sup>2</sup>	3.0m at 100mm headlap
	2.8m at 75mm headlap
Batten size - up to 450mm rafter centres	38 x 25mm
Batten size - up to 600mm rafter centres	50 x 25mm
Nail size/type for tiles	45 x 3.35mm aluminium ring shank clout head
Nail size/type for tile clips	Integrated with clip

\*For projects where the rafters are below 22.5 degrees the roof substructure must be installed in accordance with the Sandtoft low pitch installation guide. Rafter length restrictions apply at minimum roof pitch.

†Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

### Smooth

Chilton Red



Natural Red



### Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Fittings

### Left Hand Verge

443 x 233 x 40mm



### Half Tile

443 x 176 x 40mm



### Cloaked Verge

443 x 199 x 110mm



LH and RH available (LH shown)

## Accessories

### Tile Clip



Nail integral to clip

### Eaves Clip<sup>1</sup>

Nail size 20 x 3.35mm



### Verge Clip

Nail size 20 x 3.35mm



### In-Line Vent<sup>2,3</sup>

445 x 325 x 120mm



## Associated Ridge / Hip

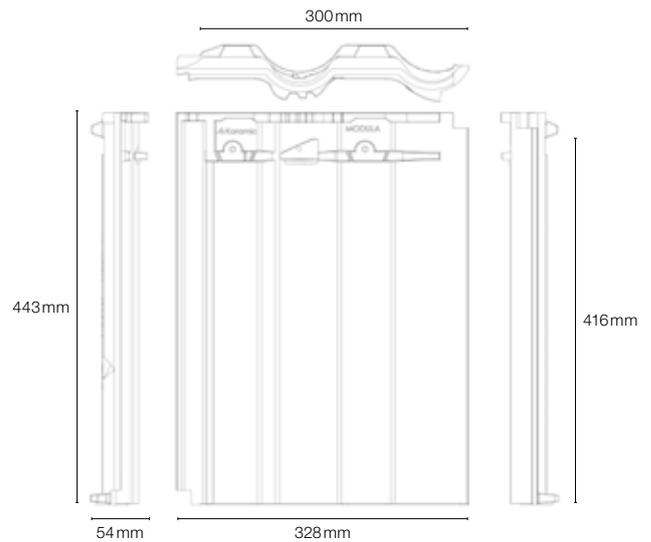
### Half Round Duracoat® Ridge 457mm



### Segmental Duracoat® Ridge 457mm



## Tile Dimensions



## Associated Systems

### Ridge/Hip Systems

- HR Roll Ridge Pack 6m CON
- Seg Roll Hip Pack 6m CON
- Mortarless Hip/Valley Tile Top Clip
- Mortarless Hip/Valley Tail Clip STD

### Additional Systems

- 10mm Eaves Ventilation Pack
- 25mm Eaves Ventilation Pack

### Dry Verge Systems

- Deep Profile Continuous Dry Verge
- Verge Connector
- Eaves Stop End

<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>2</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

<sup>3</sup> Not suitable for roof pitches below 22.5°.

All dimensions are nominal and taken from the drawing. Actual product dimensions may vary slightly from those referenced above.

# BRIDGWATER

## Clay



The Sandtoft Bridgwater has been designed to satisfy the need for a traditional tapered clay double roman tile, predominantly found in the south west of England.

### Product Technical Information Sheet

#### Roof Tiling

<b>Minimum roof pitch</b>	<b>30°</b>
Headlap	75 mm
Batten spacing (fixed gauge)†	345 mm
Size of tile†	420 x 340 mm
Covering capacity	9.6 tiles per m <sup>2</sup>
Cover width	305 mm
Profile depth	42 mm
Hanging length	403 mm
Weight as laid	43.9 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	4.78 tonnes
Weight per tile	4.57 kg
Weight per pallet (including pallet and packaging)	0.888 tonnes
Bond	Straight
Quantity per pallet	186
Quantity per row/band	31
Quantity per layer	93
Battens per m <sup>2</sup>	2.9 m
Batten size - up to 450 mm rafter centres	38 x 25 mm
Batten size - up to 600 mm rafter centres	50 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head
Nail size/type for metal tile clips	55 x 3.35 mm aluminium ring shank clout head

†Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

### Smooth

#### Natural Red\*



#### Somerset



### Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

\* Made to order.

Due to the limitations of the printing process and screen calibration settings images shown may not be an accurate representation of the final product colour. Please obtain a sample if unsure.

## Accessories

### Tile Clip

Nail size 65 x 3.35mm



### Eaves Clip<sup>1</sup>

Nail size 20 x 3.35mm



### Verge Clip

Nail size 20 x 3.35mm



## Associated Ridge / Hip

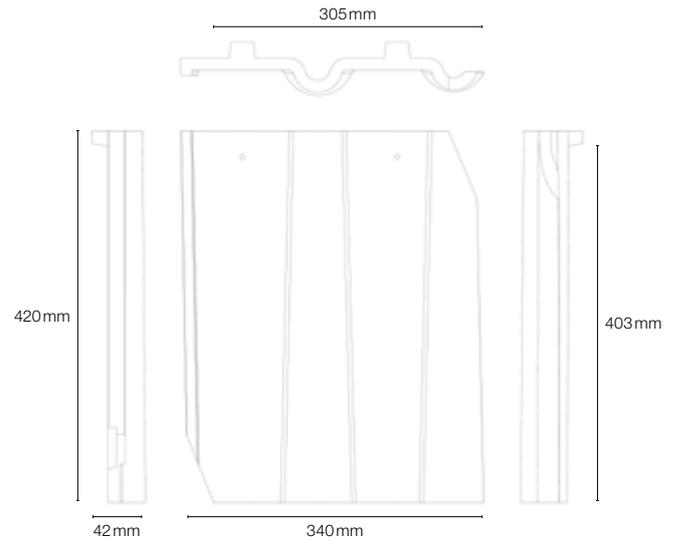
### Half Round Ridge 305mm



### Third Round Ridge 305mm



## Tile Dimensions



## Associated Systems

### Additional Systems

10mm Eaves Ventilation Pack

25mm Eaves Ventilation Pack

<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>2</sup> Requires Pipe Adaptor & Flexi Pipe for connection to soil or mechanical extraction.

<sup>3</sup> Not suitable for roof pitches below 22.5°.

All dimensions are nominal and taken from the drawing.  
Actual product dimensions may vary slightly from those referenced above.

# GAELIC

Single Roman

Clay



**A specialist clay tile with a delicate single roll, the Gaelic is ideal for refurbishment or new build work in conservation areas.**

## Product Technical Information Sheet

### Roof Tiling

<b>Minimum roof pitch</b>	<b>30°</b>
Headlap	75 mm
Batten spacing (fixed gauge)†	267 mm
Size of tile†	342 x 255 mm
Covering capacity	17.0 tiles per m <sup>2</sup>
Cover width	220 mm
Profile depth	43 mm
Hanging length	315 mm
Weight as laid	40.8 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	2.577 tonnes
Weight per tile	2.4 kg
Weight per pallet (including pallet and packaging)	0.670 tonnes
Quantity per pallet	260
Quantity per row/band	Bottom 43 Centre 43 Top 43
Quantity per layer	Bottom 86 Centre 86 Top 88
Battens per m <sup>2</sup>	3.7 m
Batten size - up to 450 mm rafter centres	38 x 25 mm
Batten size - up to 600 mm rafter centres	50 x 25 mm
Nail size/type for tiles	50 x 3.35 mm aluminium ring shank clout head

†Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

## Smooth

### Natural Red



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Accessories

### Tile Clip

Nail size 65 x 3.35mm



Nail integral to clip

### Eaves Clip<sup>1</sup>

Nail size 20 x 3.35mm



### Verge Clip

Nail size 20 x 3.35mm



### Cowl Vent<sup>2,3</sup>

342 x 255mm



## Associated Ridge / Hip

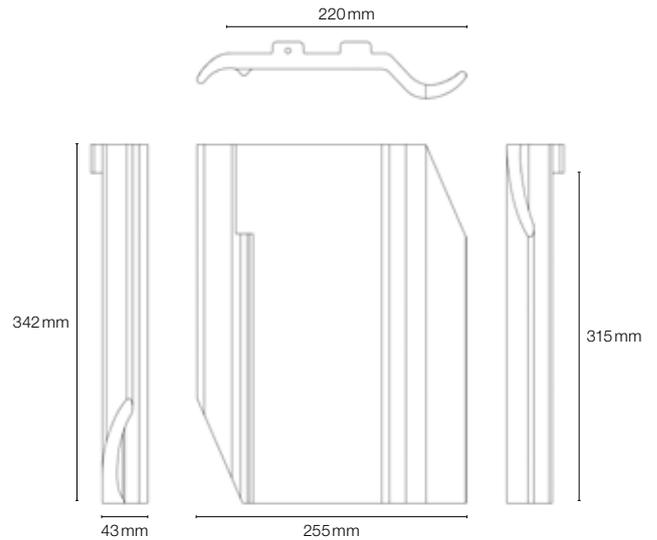
### Half Round Ridge 305mm



### Third Round Ridge 305mm



## Tile Dimensions



## Associated Systems

### Additional Systems

10mm Eaves Ventilation Pack

25mm Eaves Ventilation Pack

<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

<sup>2</sup> Requires Flexi Pipe for connection to soil or mechanical extraction.

<sup>3</sup> Not suitable for roof pitches below 22.5°.

All dimensions are nominal and taken from the drawing.  
Actual product dimensions may vary slightly from those referenced above.

# TEMPEST 44

Single Roman

Clay



The Tempest is the original 'Roman' and has been manufactured since 1906. This single roman clay tile is ideal for refurbishment or new build projects in conservation areas.

## Product Technical Information Sheet

### Roof Tiling

Minimum roof pitch*	22°
Headlap	54 mm
Batten spacing (fixed gauge)†	248 mm
Size of tile†	302 x 221 mm
Covering capacity	20.7 tiles per m <sup>2</sup>
Cover width	195 mm
Profile depth	38 mm
Hanging length	282 mm
Weight as laid	39.6 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.8 tonnes
Weight per tile	1.91 kg
Weight per pallet (including pallet and packaging)	1.296 tonnes
Bond	Straight
Quantity per pallet	720
Battens per m <sup>2</sup>	4.1 m
Batten size - up to 450mm rafter centres	38 x 25 mm
Batten size - up to 600mm rafter centres	50 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head
Nail size/type for metal tile clips	Integrated with clip

\*For projects where the rafters are below 22.5 degrees the roof substructure must be installed in accordance with the Sandtoft low pitch installation guide. Rafter length restrictions apply at minimum roof pitch.

†Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

## Smooth

### Natural Red



### Rustic



### Cottage\*\*



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

\*\* Lead times may apply.

Due to the limitations of the printing process and screen calibration settings images shown may not be an accurate representation of the final product colour. Please obtain a sample if unsure.

#### Fittings

##### Left Hand Vergé

304 x 237 x 15mm



##### Cloaked Vergé

304 x 232 x 108mm



LH and RH available (LH shown)  
Lead times may apply

#### Accessories

##### Tile Clip

Nail integrated with clip



##### Eaves Clip<sup>1</sup>

Nail size 20 x 3.35mm



##### Verge Clip

Nail size 20 x 3.35mm

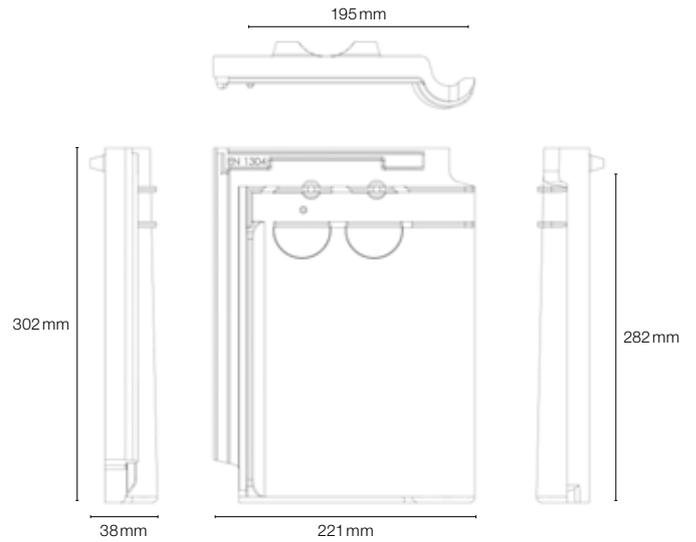


#### Associated Ridge / Hip

##### Koramic 325mm Ridge



#### Tile Dimensions



#### Associated Systems

##### Additional Systems

10mm Eaves Ventilation Pack

25mm Eaves Ventilation Pack

<sup>1</sup> When used in conjunction with Over Fascia Ventilator Strip, nail length should be increased to 40mm for 10mm Over Fascia Ventilator Strip, or 50mm for 25mm Over Fascia Ventilator Strip.

All dimensions are nominal and taken from the drawing.  
Actual product dimensions may vary slightly from those referenced above.

# KEYMER

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# GOXHILL

Plain Tile

Clay



One of the finest and most distinctive roof coverings available, this premium handmade plain tile gives a rich textured roofscape that will become more attractive with age.

## Product Technical Information Sheet

### Roof Tiling

<b>Minimum roof pitch</b>	<b>35°</b>
Headlap	65 mm
Batten spacing (fixed gauge) <sup>†</sup>	100 mm
Size of tile <sup>†</sup>	265 x 165 mm
Covering capacity	60 tiles per m <sup>2</sup>
Cover width	165 mm
Profile depth	13 mm
Hanging length	245 mm
Weight as laid	72.6 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.31 tonnes
Weight per tile	1.21 kg
Weight per pallet (including pallet and packaging)	0.707 tonnes
Bond	Cross / Broken
Quantity per pallet	540
Battens per m <sup>2</sup>	10 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

### Vertical Tiling

<b>Minimum roof pitch</b>	<b>75°</b>
Headlap	38 mm
Batten spacing (fixed gauge) <sup>†</sup>	114 mm
Size of tile <sup>†</sup>	265 x 165 mm
Covering capacity	53 tiles per m <sup>2</sup>
Cover width	165 mm
Profile depth	13 mm
Hanging length	245 mm
Weight as laid	64.2 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.31 tonnes
Weight per tile	1.21 kg
Weight per pallet (including pallet and packaging)	0.707 tonnes
Bond	Cross / Broken
Quantity per pallet	540
Battens per m <sup>2</sup>	8.8 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

<sup>†</sup>Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

## Sanded

### Autumn Brown



### Dark Chestnut



### Dark Red



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**

## Fittings

### Eaves Tile

210 x 165 x 13mm



### Tile and a Half

265 x 247 x 13mm



### Bonnet Hip

270 x 330 x 13mm



### Valley Tile

280 x 350 x 13mm



### External Angle

265 x 160 x 80mm



LH and RH available in both 90° and 135°  
(LH 90° shown)

### Feature Tile (Club)

265 x 165 x 13mm



Also available:  
Bullnose, Arrowhead & Fishtail

### Additional Fittings

Arris Hip (35°, 40°, 45°, 50°)

Internal Angle 90° & 135° (LH & RH)

## Accessories

### InvisiVent<sup>1</sup>

490 x 310mm



## Associated Ridge / Hip

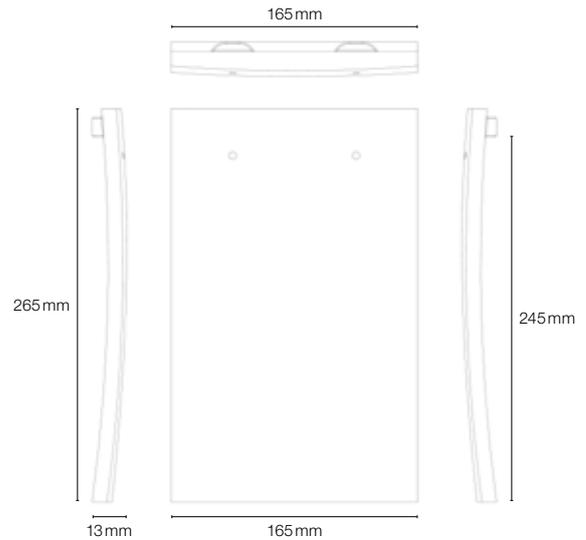
### Half Round Ridge 305mm



### Third Round Ridge 305mm



## Tile Dimensions



## Associated Systems

### Additional Systems

3 Piece Bat Tile

10mm Eaves Ventilation Pack

25mm Eaves Ventilation Pack

Top Abutment Ventilator Kit

# SHIRE

Plain Tile

Clay



Testament to over 400 years of manufacturing excellence, our Shire tiles range offers authentic British premium handmade clay roof tiles with lifelong durability. These Shire tiles offer a serious alternative to the traditional style of clay roof tiles.

## Product Technical Information Sheet

### Roof Tiling

<b>Minimum roof pitch</b>	<b>40°</b>
Headlap	65 mm
Batten spacing (fixed gauge) <sup>†</sup>	100 mm
Size of tile <sup>†</sup>	265 x 165 mm
Covering capacity	60 tiles per m <sup>2</sup>
Cover width	165 mm
Profile depth	13 mm
Hanging length	245 mm
Weight as laid	73.2 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.3 tonnes
Weight per tile	1.22 kg
Weight per pallet (including pallet and packaging)	0.715 tonnes
Bond	Cross / Broken
Quantity per pallet	550
Battens per m <sup>2</sup>	10 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

### Vertical Tiling

<b>Minimum roof pitch</b>	<b>75°</b>
Headlap	38 mm
Batten spacing (fixed gauge) <sup>†</sup>	114 mm
Size of tile <sup>†</sup>	265 x 165 mm
Covering capacity	53 tiles per m <sup>2</sup>
Cover width	165 mm
Profile depth	13 mm
Hanging length	245 mm
Weight as laid	64.7 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.3 tonnes
Weight per tile	1.22 kg
Weight per pallet (including pallet and packaging)	0.715 tonnes
Bond	Cross / Broken
Quantity per pallet	550
Battens per m <sup>2</sup>	8.8 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

<sup>†</sup>Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

## Sanded

### Downs Red



### Heritage



### Priory



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)

**All4Roof**



# TRADITIONAL

Plain Tile

Clay

**Our traditional clay plain tiles are hand made using Weald Clay. The rich reds of the clay give them their deep natural colour. The tiles do not all sit flat next to each other in total conformity but in gentle undulations reminiscent of a centuries old cottage.**

## Product Technical Information Sheet

### Roof Tiling

<b>Minimum roof pitch</b>	<b>40°</b>
Headlap	65 mm
Batten spacing (fixed gauge) <sup>†</sup>	100 mm
Size of tile <sup>†</sup>	265 x 165 mm
Covering capacity	60 tiles per m <sup>2</sup>
Cover width	165 mm
Profile depth	13 mm
Hanging length	245 mm
Weight as laid	73.2 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.3 tonnes
Weight per tile	1.22 kg
Weight per pallet (including pallet and packaging)	0.988 tonnes
Bond	Cross / Broken
Quantity per pallet	760
Battens per m <sup>2</sup>	10 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

### Vertical Tiling

<b>Minimum roof pitch</b>	<b>75°</b>
Headlap	38 mm
Batten spacing (fixed gauge) <sup>†</sup>	114 mm
Size of tile <sup>†</sup>	265 x 165 mm
Covering capacity	53 tiles per m <sup>2</sup>
Cover width	165 mm
Profile depth	13 mm
Hanging length	245 mm
Weight as laid	64.7 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.3 tonnes
Weight per tile	1.22 kg
Weight per pallet (including pallet and packaging)	0.988 tonnes
Bond	Cross / Broken
Quantity per pallet	760
Battens per m <sup>2</sup>	8.8 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

<sup>†</sup>Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

## Sanded

### Antique



### Elizabethan



### Wealdon Red



## Tile Fixing

Sandtoft roof tiles must be laid and fixed to comply with BS 5534: the British Standard Code of practice for slating and tiling, and BS 8000: Part 6: the British Standard Code of practice for workmanship on building sites. To ensure compliance with these standards we strongly recommend that a calculated fixing specification be obtained from Sandtoft Technical Support or using Sandtoft's online All4Roof tool: [www.all4roof.co.uk](http://www.all4roof.co.uk)



# PEG TILE Clay



**Crafted from the famous Keymer South Wealden Clay, each tile produces a unique finish that is guaranteed to set your roof apart.**

## Product Technical Information Sheet

Roof Tiling	
Minimum roof pitch	40°
Headlap	60 mm
Batten spacing (fixed gauge) <sup>†</sup>	95 mm
Size of tile <sup>†</sup>	250 x 150 mm
Covering capacity	70.2 tiles per m <sup>2</sup>
Cover width	150 mm
Profile depth	13 mm
Hanging length	230 mm
Weight as laid	84.3 kg per m <sup>2</sup>
Weight per 1000 (including pallet and packaging)	1.24 tonnes
Weight per tile	1.2 kg
Weight per pallet (including pallet and packaging)	0.939 tonnes
Bond	Cross / Broken
Quantity per pallet	760
Battens per m <sup>2</sup>	10.6 m
Batten size - up to 600mm rafter centres	38 x 25 mm
Nail size/type for tiles	38 x 3.35 mm aluminium ring shank clout head

## Vertical Tiling

Peg Tiles are a traditional product and therefore are not manufactured to a British Standard. When vertical tiling please contact your local conservation officer regarding installation information.

<sup>†</sup>Clay tiles are subject to small variations in size because of drying and firing shrinkage in the manufacturing process. Before deciding on the batten gauge and linear coverage, the roof tiler should inspect each batch of tiles to ensure that the correct minimum headlap and sidelap are achieved. Unless otherwise stated, data is based on the tiles laid at minimum headlap.

Product specification is subject to change and will be updated accordingly.

Note: Lead times may apply. Colour availability may vary.

## Sanded

### Antique



### Weathered (County)



## Tile Fixing

For information regarding tile fixing please contact the Heritage team.

Keymer manufacture the largest range of handmade clay fittings you'll find. The true skill of the Keymer master tile maker is well displayed, from the valley to the ridge. Using wealden clay, these fittings are not only the natural choice in conservation areas but also add character and value to any new building too.

## Fittings

## Ridge

### Plain Tile

265 x 165 mm



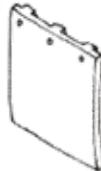
### Eaves Tile

200 x 165 mm



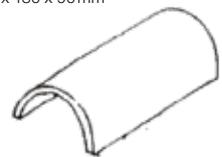
### Gable Tile

265 x 248 mm



### Half Round

305 x 180 x 90 mm



### Peg Tile (Kent or County)

250 x 150 mm



### Peg Eaves

150 x 150 mm



### Peg Gable

250 x 225 mm



### Hogback

305 x 235 x 125 mm



### Standard Bonnet

40°- 50°



### Traditional Bonnet

40°- 45°



Made to order

### Kent Bonnet

50°- 60°



Made to order

### Third Round

305 mm



### Standard Valley

40°- 50°



### Gull Wing Valley (Cambered)

40°- 45°



Made to order

### 60° Valley

50°- 60°



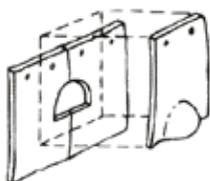
Made to order

### Monopitch Ridge

305 mm



### 3 Piece Bat Vent



### Vertical Angle 90° (Handed)

External



### Vertical Bay Angle 135° (Handed)

External



### Porch Ridge

305 mm



# RIDGE

## Contents

Concrete Ridge	90-91
Concrete Decorative Ridge	92-93
Clay Ridge	94-95
Duracoat® Ridge	96-97
Clay Decorative Ridge	98-99



# RIDGE

## Concrete



### Half Round Ridges

Half Round Ridge



### Segmental Ridges

Segmental Ridge



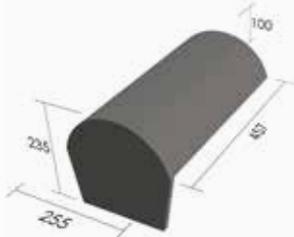
### Multi Angle Ridges

Multi Angle Ridge

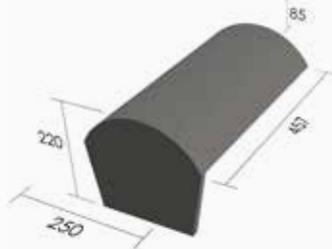


Smooth only

Half Round Ridge with Block End

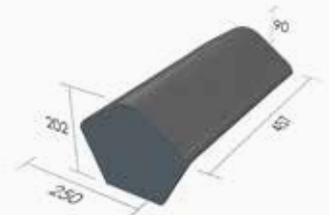


Segmental Ridge with Block End



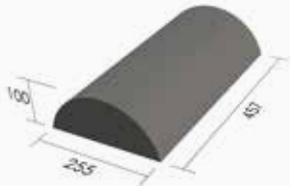
Made to order

Multi Angle Ridge with Block End



Smooth only

Half Round Ridge with Gable Stop End



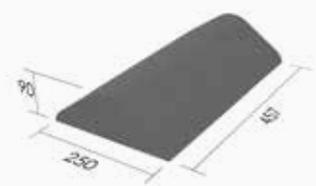
Made to order

Segmental Ridge with Gable Stop End



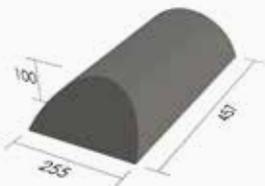
Made to order

Multi Angle Ridge with Gable Stop End



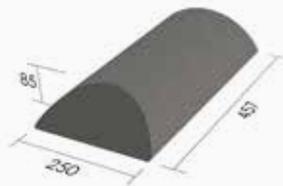
Made to order

Half Round Ridge with Hip End



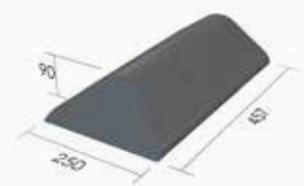
Made to order

Segmental Ridge with Hip End



Made to order

Multi Angle Ridge with Hip End

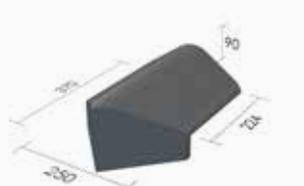


Made to order

Segmental Hip Starter Ridge



Multi Angle Hip Starter Ridge



Smooth only

## Half Round Mono Ridges

### Half Round Mono Ridge



## Multi Angle Mono Ridges

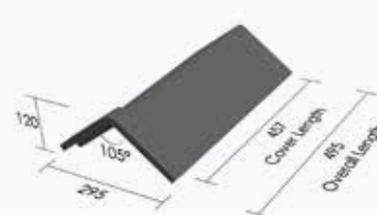
### Multi Angle Mono Ridge



Smooth only

## Specialist Ridges

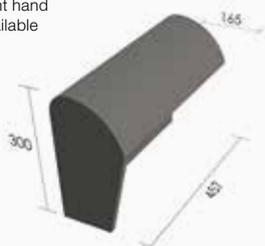
### Capped Angle Ridge 105°



Smooth only

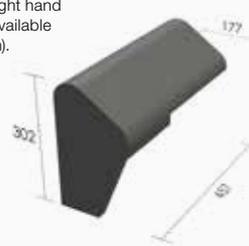
### Half Round Ridge with Block End

Left and right hand versions available (LH shown).



### Multi Angle Mono Ridge with Block End

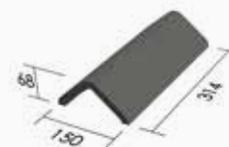
Left and right hand versions available (LH shown).



Smooth only

### Baby Ridge

For use on bay windows only.



## Maximum pitches

### Half Round Ridge Max Roof Pitches

	Profile Ridge	Roll Ridge	Mortar Bedded
Plain Tile	50°	50°	50°
Lindum	50°	50°	55°
Standard Pattern	50°	50°	55°
Shire Pantile	50°	50°	60°
Double Roman	50°	50°	60°
Double Pantile	50°	50°	60°

### Multi Angle Ridge Max Roof Pitches

	Profile Ridge	Roll Ridge	Mortar Bedded
Calderdale Edge	45°	45°	50°
Dual Calderdale Edge	45°	45°	50°
TLE	45°	45°	50°
Dual TLE	45°	45°	50°

# DECORATIVE RIDGE

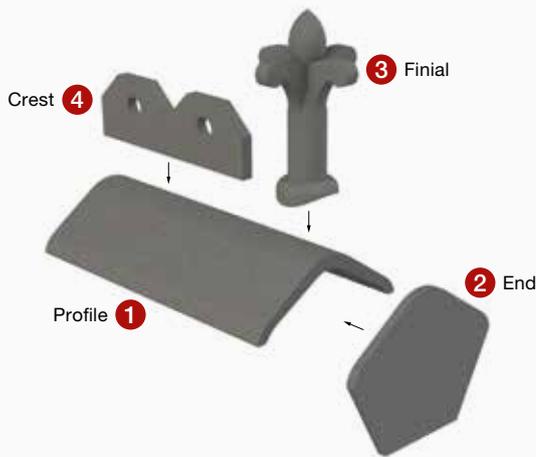
## Concrete



A variety of ridge profiles are available with different end pieces and decorative crests and/or finials. The ridges are named by their elements in the order set out below.

### Decorative Ridge Diagram

#### Element Order



Made to order (Terracotta Red & Dark Grey only)

Please note that when combining a finial with a crest on a decorative ridge, the crest design is adjusted to accommodate the finial. For example, a three hole crest will become a two hole crest as illustrated.

With all decorative ridge orders there is a 72 hour cancellation period from receipt of order acknowledgement. After which time, any changes made would incur a 50% cancellation fee.

### Step 1 Profiles

#### Half Round

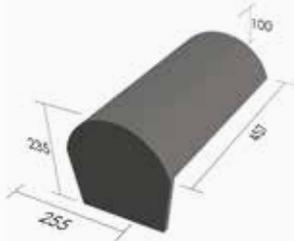


#### Multi Angle

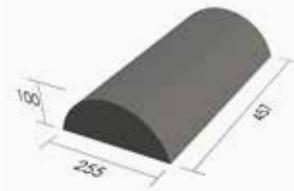


### Step 2 Ends

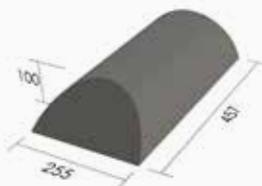
#### Block End Ridge



#### Gable Stop End



#### Hip End



### Step 3 Crests

#### Club Crest



#### Cockscomb Crest



#### Three Hole Crest



#### Fleur-de-lys Crest



### Step 4 Finials

#### Scroll Finial



Available in 1 height: 140mm

#### Fleur-de-lys Finial



Available in 2 heights: Short (270mm), or Tall (370mm)

#### Ball Finial



Available in 2 heights: Short (240mm), or Tall (340mm)

# RIDGE

## Clay



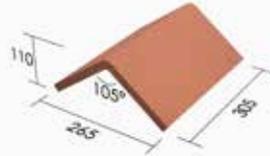
### Half Round Ridges

#### Half Round Ridge



### Angle Ridges

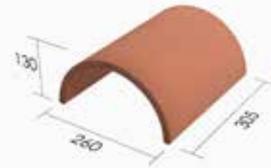
#### Angle Ridge



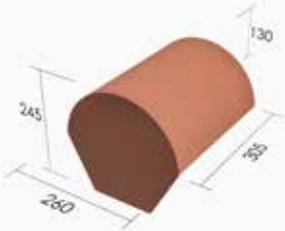
Smooth only

### Handmade Ridges

#### Half Round Sanded Handmade Ridge

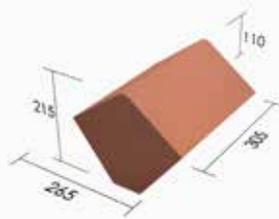


#### Half Round Ridge with Block End



Smooth only

#### Angle Ridge with Block End

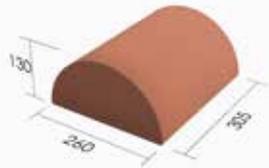


Smooth only / Made to order

#### Third Round Sandfaced Handmade Ridge

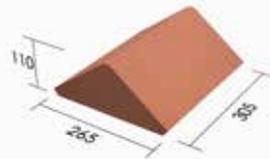


#### Half Round Ridge with Gable Stop End



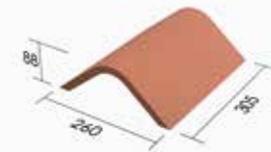
Smooth only / Made to order

#### Angle Ridge with Gable Stop End

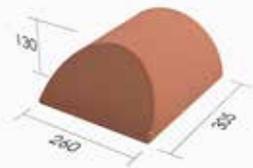


Smooth only / Made to order

#### Hogsback Ridge

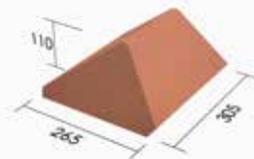


#### Half Round Ridge with Hip End



Smooth only / Made to order

#### Angle Ridge with Hip End



Smooth only / Made to order

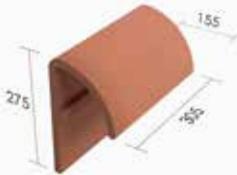
### Half Round Koramic Ridges

#### Koramic 325mm Ridge



## Half Round Mono Ridges

### Half Round Mono Ridge



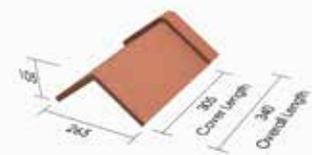
## Third Round Ridges

### Third Round Ridge



## Specialist Clay Ridges

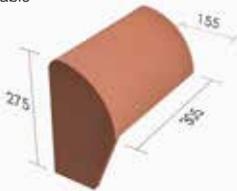
### Capped Angle Ridge 105°



Smooth only

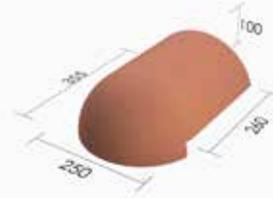
### Half Round Ridge with Block End

Left and right hand versions available (LH shown).



Smooth only

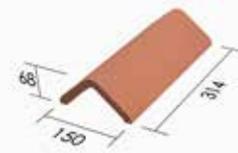
### Third Round Hip Starter Ridge



Smooth only

### Baby Ridge

For use on bay windows only.



## Maximum pitches

### Half Round Ridge Max Roof Pitches

	Profile Ridge	Roll Ridge	Mortar Bedded
Humber PT	50°	50°	60°
Humber PT Sandfaced	50°	N/A	60°
Village PT	50°	50°	60°
Alban	50°	N/A	60°
Barrow	50°	N/A	60°
Neo Plus	50°	50°	60°
Old English	N/A	N/A	60°
Arcadia	N/A	N/A	60°
New County	45°	N/A	70°
Bridgwater	N/A	N/A	65°
Gaelic	N/A	N/A	65°

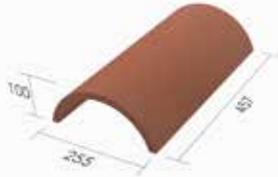
### Koramic 325mm Ridge Max Roof Pitches

	Profile Ridge	Roll Ridge	Mortar Bedded
301	50°	N/A	50°
303	50°	N/A	50°
Old Hollow 451	N/A	N/A	40°
Tempest 44	N/A	N/A	50°

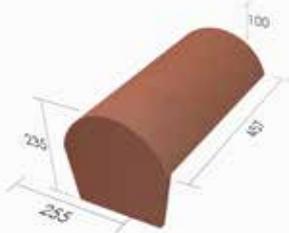


**Half Round Ridges**

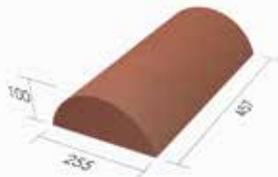
**Half Round Ridge**



**Half Round Ridge with Block End**

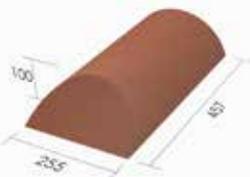


**Half Round Ridge with Gable Stop End**



Made to order

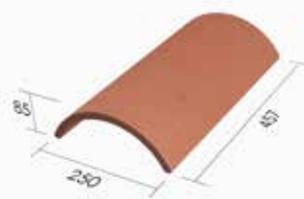
**Half Round Ridge with Hip End**



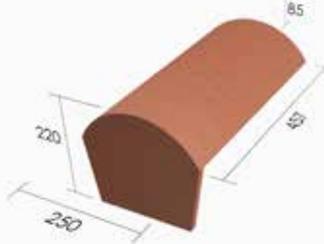
Made to order

**Segmental Ridges**

**Segmental Ridge**

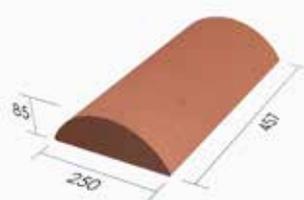


**Segmental Ridge with Block End**



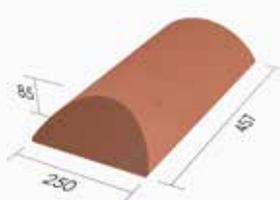
Made to order

**Segmental Ridge with Gable Stop End**



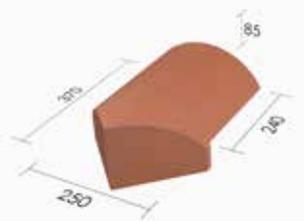
Made to order

**Segmental Ridge with Hip End**



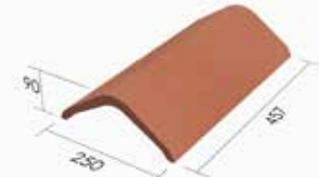
Made to order

**Segmental Hip Starter Ridge**

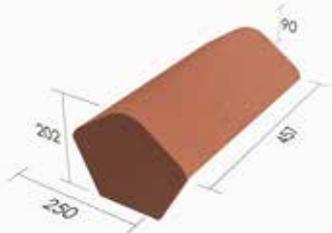


**Multi Angle Ridges**

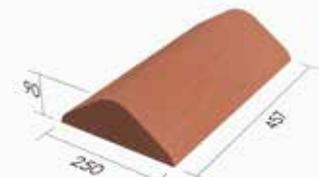
**Multi Angle Ridge**



**Multi Angle Ridge with Block End**

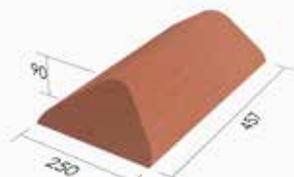


**Multi Angle Ridge with Gable Stop End**



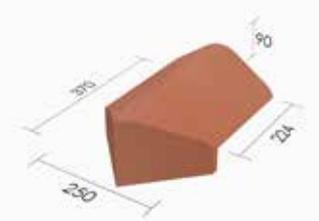
Made to order

**Multi Angle Ridge with Hip End**



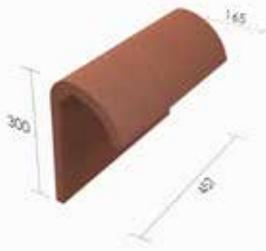
Made to order

**Multi Angle Hip Starter Ridge**



### Half Round Mono Ridges

#### Half Round Mono Ridge



### Multi Angle Mono Ridges

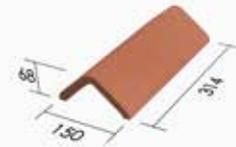
#### Multi Angle Mono Ridge



### Specialist Ridges

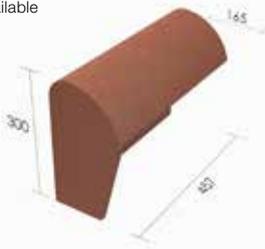
#### Baby Ridge

For use on bay windows only.



#### Half Round Ridge with Block End

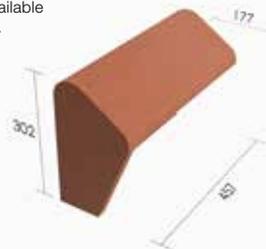
Left and right hand versions available (LH shown).



Made to order

#### Multi Angle Mono Ridge with Block End

Left and right hand versions available (LH shown).



Made to order

### Maximum pitches

#### Half Round Ridge Max Roof Pitches

	Profile Ridge	Roll Ridge	Mortar Bedded
20/20	50°	50°	50°
Vauban	50°	50°	55°
Modula	N/A	50°	50°
Olympus	50°	50°	60°

#### Multi Angle Ridge Max Roof Pitches

	Profile Ridge	Roll Ridge	Mortar Bedded
Cassius	45°	45°	50°
Rivius	45°	45°	50°
Actua	45°	35°	40°

# DECORATIVE RIDGE

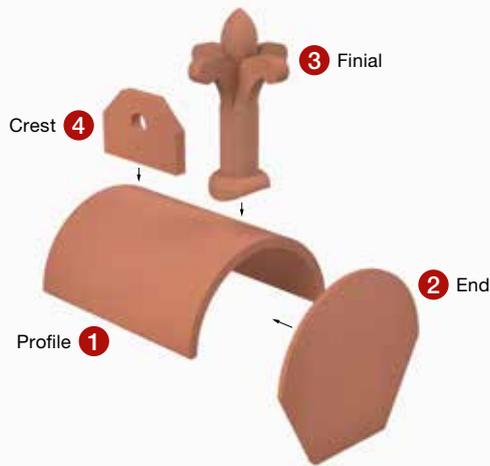
## Clay



A variety of ridge profiles are available with different end pieces and decorative crests and/or finials in both clay and Duracoat®. The ridges are named by their elements in the order set out below.

### Decorative Ridge Diagram

#### Element Order



Made to order (Smoothfaced colours only)

Please note that when combining a finial with a crest on a decorative ridge, the crest design is adjusted to accommodate the finial. For example, a clay two hole crest will become a single hole crest as illustrated.

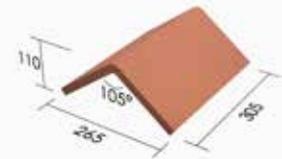
With all decorative ridge orders there is a 72 hour cancellation period from receipt of order acknowledgement. After which time, any changes made would incur a 50% cancellation fee.

### Step 1 Profiles

#### Half Round

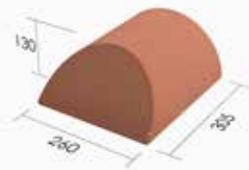


#### 105 Angle Ridge



### Step 2 Ends

#### Block End Ridge



#### Gable Stop End



#### Hip End



### Step 3 Crests

#### Club Crest



#### Cockscomb Crest



#### Hole Crest



### Step 4 Finials

#### Scroll Finial



Available in 1 height: 140mm

#### Fleur-de-lys Finial



Available in 2 heights: Short (270mm), or Tall (370mm)

#### Ball Finial

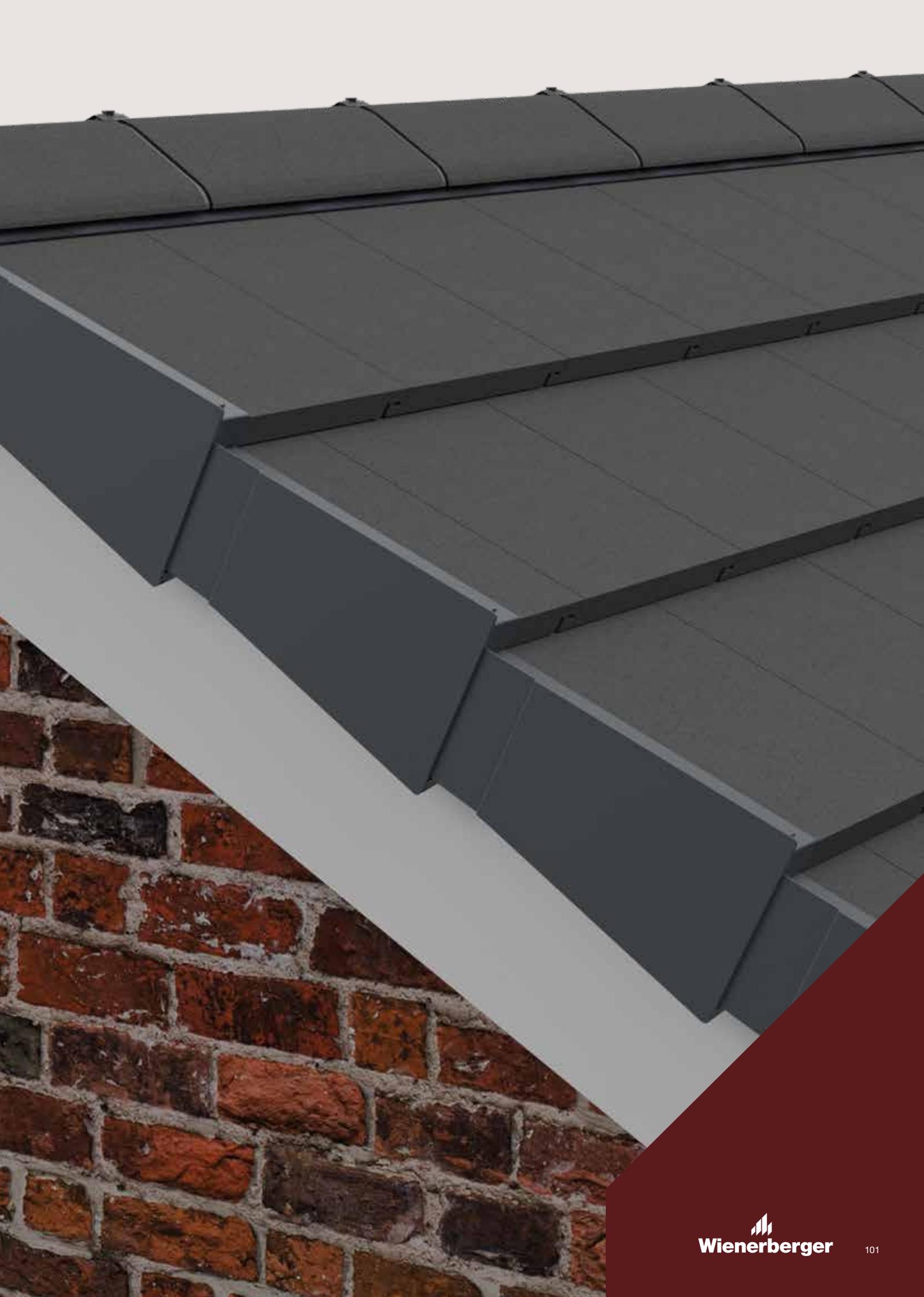


Available in 2 heights: Short (240mm), or Tall (340mm)

# ROOFING SYSTEMS

## Contents

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**Sandtoft VPM Classic and Sandtoft VPM Super can be used with all concrete and clay roof tiles and slates and are suitable for both warm and cold roof designs on any roof shape and building type.**

## Product Technical Information Sheet

	Sandtoft Super VPM	Sandtoft Classic VPM	Sandtoft Classic Taped VPM
Roll Size	50m x 1.0m (50m <sup>2</sup> )	50m x 1.0m (50m <sup>2</sup> )	50m x 1.0m (50m <sup>2</sup> )
Weight	160 (-10/+18)gsm	130 (+/-5)gsm	130 (+/-5)gsm
Resistance to water penetration	Before and After artificial ageing: Class W1	Before and After artificial ageing: Class W1	Before and After artificial ageing: Class W1
Flexibility at low temperature	-40°C	-40°C	-40°C
Water vapour resistance	≤0.15 (-0.05/+0.1)MNs/g	≤0.15MNs/g	≤0.15MNs/g
Equivalent air layer thickness	≤0.03 (-0.01/+0.02)sd(m)	≤0.03sd(m)	≤0.03sd(m)
Reaction to fire	(NPD)	(NPD)	(NPD)

## Product Image



## Guidance

Product specification is subject to change and will be updated accordingly.

Both membranes perform all the usual functions of a good quality roof underlay; i.e. they act as a secondary line of defence against wind driven rain and snow, they reduce the wind loading on the roof tiles and slates and act as a temporary roof covering during building construction. These membranes also provide many benefits over the traditional bitumen-based underlays; in particular they help avoid condensation in the roof space.



## Wind Uplift Performance

### Sandtoft Super VPM

Batten Gauge ≤ 310mm  
Rafter Centres ≤ 600mm



### Sandtoft Classic VPM

Batten Gauge ≤ 310mm  
Rafter Centres ≤ 600mm



### Sandtoft Classic Taped VPM

Batten Gauge ≤ 310mm  
Rafter Centres ≤ 600mm



Batten Gauge ≤ 345mm  
Rafter Centres ≤ 600mm



Batten Gauge ≤ 345mm  
Rafter Centres ≤ 600mm



Batten Gauge ≤ 345mm  
Rafter Centres ≤ 600mm



The Sandtoft TLEMF Dry Verge system comprises left and right hand verges, is easy to use and provides a neat, secure and mortarless finish at roof verges.

### Product Technical Information Sheet

#### General Information

<b>Minimum roof pitch</b>	<b>Suits the minimum roof pitch of all compatible tiles</b>
Gauge	295 - 345 mm
Gauge (with vertical batten installed)	210 - 345 mm
Size of unit	420 x 128 x 44 mm
Colours	Dark Grey/Antique Slate
	Red Multi
	Tuscan
	Natural Red
Primary fixing (supplied)	35 x 4 mm screw
Secondary eaves fixing (not supplied)	Minimum 45mm length screw
Box quantity	50
Material	HIPS

#### Tile Compatibility

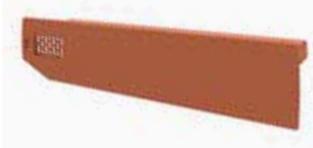
20/20	Dual TLE	TLE
Cassius	Rivius	

### Colours

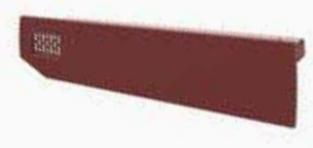
#### Brown



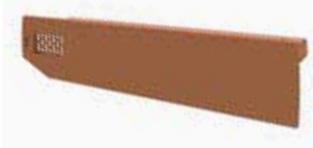
#### Natural Red



#### Red Multi



#### Tuscan



### Guidance

Product specification is subject to change and will be updated accordingly.

Used in conjunction with: TLE/MF Eaves Unit (p122), Ridge End Cap (p122), Ridge Closure Comb (p122), Ridge Blockend (p90)

### Product Image

#### Dark Grey/Antique Slate



Verge unit pictured with Ridge Closure Comb

### Technical Drawing



# MULTIVERGE



The Sandtoft Multiverge system comprises left and right hand verges, is easy to use and provides a neat, secure and mortarless finish at roof verges.

## Product Technical Information Sheet

### General Information

<b>Minimum roof pitch</b>	<b>Suits the minimum roof pitch of all compatible tiles</b>
Gauge	280 - 345 mm
Gauge (with vertical batten installed)	260 - 345 mm
Size of unit	420 x 178 x 46 mm
Colours	Dark Grey/Antique Slate
	Red Multi
	Natural Red
	Brown
Primary fixing (supplied)	35 x 4 mm screw
Secondary eaves fixing (not supplied)	Minimum 60mm length screw
Box quantity	50
Material	HIPS

### Tile Compatibility

Calderdale Edge	Dual Calderdale Edge	Rivius
Cassius	Dual TLE	TLE
Double Pantile	Lindum	
Double Roman	Olympus	

### Tile Compatibility (Medium Format)

Neo Plus	Shire Pantile	Standard Pattern
----------	---------------	------------------

## Colours

### Brown



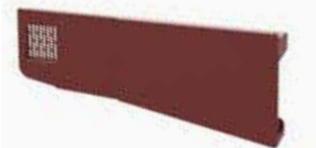
### Dark Grey/Antique Slate



### Natural Red



### Red Multi



## Guidance

Product specification is subject to change and will be updated accordingly.

Available in colours to complement the roof tiles.

Used in conjunction with: Multiverge Eaves Unit (p122), Ridge End Cap (p122), Ridge Closure Comb (p122), Ridge Blockend (p90)

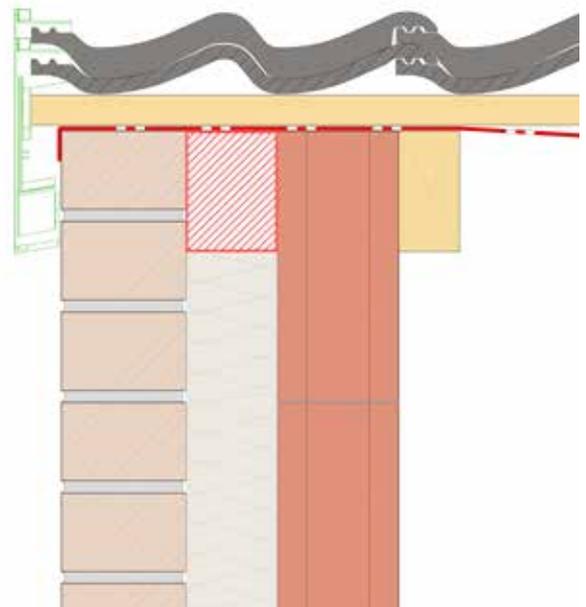
## Product Image

### Natural Red



Eave/Verge units pictured with Ridge Closure Comb

## Technical Drawing



**Sandtoft Roll Ridge is an extremely quick roll out system that uses the minimum of components.**

## Product Technical Information Sheet

### General Information

Size of Pack	380 mm (L) x 190 mm (W) x 320 mm (H)
Component quantities	To suit 6 metres of ridge
Roll material	Aluminium & Butyl
Joint material	PP
Hip Strap material	Iron Galvanised
Fixing Plate material	Stainless Steel
Screw material	Stainless Steel + rubber washer

### Tile Compatibility\*

20/20	Dual Calderdale Edge	Rivius
Actua	Dual TLE	Shire Pantile
Calderdale Edge	Humber Plain Tile	Standard Pattern
Cassius	Lindum	TLE
Concrete Plain Tile	Modula	Vauban
Double Pantile	Neo Plus	
Double Roman	Olympus	

### Ridge Compatibility

Clay Half Round Ridge	305 mm
Concrete Half Round Ridge	457 mm
Concrete Multi Angle Ridge	457 mm <sup>1</sup>
Duracoat Half Round Ridge	457 mm
Duracoat Multi Angle Ridge	457 mm

## Guidance

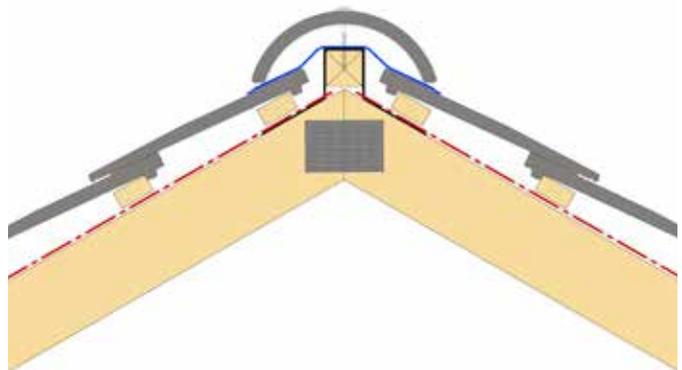
Product specification is subject to change and will be updated accordingly.

The system comprises a ventilated 6m ridge roll, batten straps to secure the ridge timber and ridge joints with fixings.

## Product Image



## Technical Drawing



<sup>1</sup> The multi Angle Roll Ridge system is also suitable for use on the hip.

\*It is suitable for use with most clay and concrete tiles and slates (except Sanded tiles).

# ROLL HIP



**Sandtoft Roll Hip is an extremely quick roll out system. Roll Hip comprises a ventilated hip roll to seal the junction between roof elevations and trays to support the hip ridges.**

## Product Technical Information Sheet

### General Information

Size of Pack	380 mm (L) x 190 mm (W) x 320 mm (H)
Component quantities	To suit 6 metres of hip
Roll material	Aluminium & Butyl
Joint material	PP
Hip Strap material	Iron Galvanised
Fixing Plate material	Stainless Steel
Screw material	Stainless Steel + rubber washer

### Tile Compatibility\*

20/20	Dual Calderdale Edge	Rivius
Actua	Dual TLE	Shire Pantile
Calderdale Edge	Humber Plain Tile	Standard Pattern
Cassius	Lindum	TLE
Concrete Plain Tile	Modula	Vauban
Double Pantile	Neo Plus	
Double Roman	Olympus	

### Ridge Compatibility

Clay Half Round Ridge	305 mm
Concrete Half Round Ridge	457 mm
Concrete Multi Angle Ridge	457 mm <sup>1</sup>
Duracoat Half Round Ridge	457 mm
Duracoat Multi Angle Ridge	457 mm

## Guidance

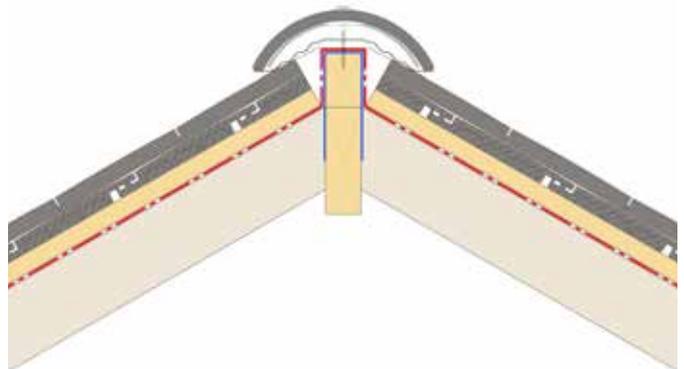
Product specification is subject to change and will be updated accordingly.

Hip unions are available to suit most Sandtoft concrete, Duracoat and clay hip profiles and provide an efficient seal between each hip ridge, giving the appearance of a 10 mm mortar joint.

## Product Image



## Technical Drawing



\*Please note: The Roll Hip System is not suitable for tile colours with a sanded finish.

<sup>1</sup> The Multi Angle Roll Hip system is also suitable for use on the ridge.

# MULTIVERSAL RIDGE AND HIP

The Multiversal Ridge and Hip system is a low cost, easy and quick way to install system providing a secure and mortar-free fix solution at ridge and hip.

## Product Technical Information Sheet

### General Information

Size of Pack	380 mm (L) x 190 mm (W) x 320 mm (H)
Component quantities	To suit 6 metres of ridge or hip
Roll material	Aluminium & Butyl
Joint material	PP
Hip Strap material	Iron Galvanised
Fixing Plate material	Stainless Steel
Screw material	Stainless Steel + rubber washer

### Tile Compatibility\*

20/20	Dual Calderdale Edge	Rivius
Actua	Dual TLE	Shire Pantile
Calderdale Edge	Humber Plain Tile	Standard Pattern
Cassius	Lindum	TLE
Concrete Plain Tile	Modula	Vauban
Double Pantile	Neo Plus	
Double Roman	Olympus	

### Ridge Compatibility

Clay Third Round Ridge	305mm
Concrete Half Round Ridge	457mm
Concrete Segmental Ridge	457mm
Concrete Multi Angle Ridge	457mm
Duracoat Segmental Ridge	457mm
Duracoat Half Round Ridge	457mm
Duracoat Multi Angle Ridge	457mm

## Guidance

Product specification is subject to change and will be updated accordingly.

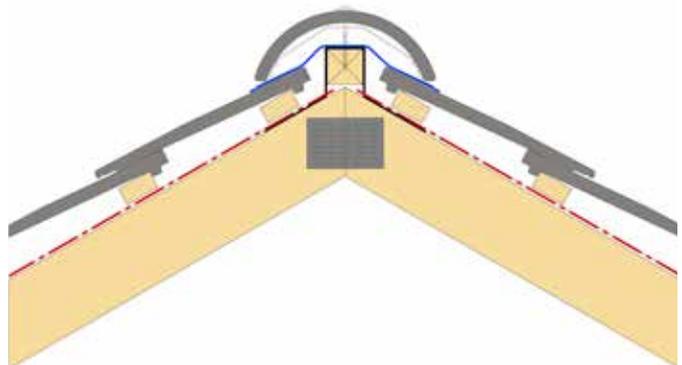
The Sandtoft Multiversal ridge & hip system is a low cost, easy and quick to install system providing a secure and dry fix solution. The system is suitable for most slates, flat tiles, profile tiles and can be used with most common ridge and hip tiles.

For further guidance, download the Multiversal Ridge & Hip - 6m Installation Guide.

## Product Image



## Technical Drawing



\* Please note: The Multiversal Ridge & Hip System is not suitable for tile colours with a sanded finish.

# PROFILE RIDGE



The Profile Ridge system incorporates ventilation strips to support the ridges and provide high level ventilation.

## Product Technical Information Sheet

### General Information

Size of Pack	1040mm (L) x 230mm (W) x 170 mm (H)
Component quantities	To suit 6 metres of ridge
Profile Dry Ridge Ventilation Strip material	PP
Joint material	PP
Hip Strap material	Iron Galvanised
Fixing Plate material	Stainless Steel
Screw material	Stainless Steel + rubber washer

### Tile Compatibility (Flat Tiles)

20/20	Dual Calderdale Edge	TLE
Actua	Dual TLE	Vauban
Calderdale Edge	Plain Tiles (All)	
Cassius	Rivius	

### Tile Compatibility (Profiled Tiles) \*

Double Pantile	Neo Plus	Shire Pantile
Double Roman	New County	Standard Pattern
Lindum	Olympus	

### Ridge Compatibility

Clay Half Round Ridge	305 mm
Clay Koramic Ridge	325 mm
Concrete Half Round Ridge	457 mm
Concrete Multi Angle Ridge	457 mm
Duracoat Half Round Ridge	457 mm
Duracoat Multi Angle Ridge	457 mm

## Guidance

Product specification is subject to change and will be updated accordingly.

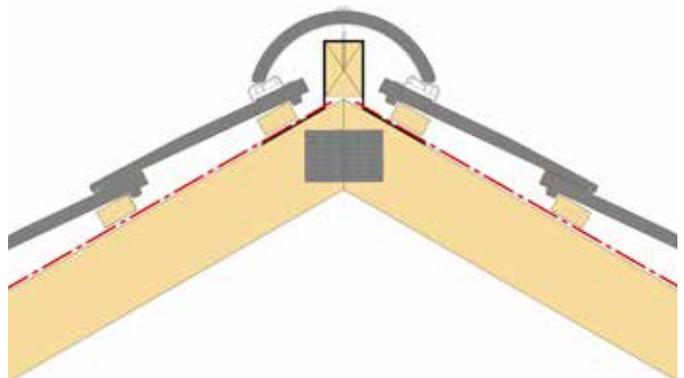
Ridge joints provide an efficient seal between each ridge and give the appearance of a 10mm mortar joint.

To complete the system, and to enhance aesthetics, profile fillers are available for profiled tile types. The fillers click into the ventilation strips and both are marked to ensure correct orientation (p121).

## Product Image



## Technical Drawing



The Profile Mono Ridge system incorporates ventilation strips to support the ridges and provide high level roof space ventilation.

### Product Technical Information Sheet

#### General Information

Size of Pack	1040mm (L) x 230mm (W) x 170mm (H)
Component quantities	To suit 6 metres of ridge
Profile Dry Ridge Ventilation Strip material	PP
Joint material	PP
Hip Strap material	Iron Galvanised
Screw material	Stainless Steel + rubber washer

#### Tile Compatibility (Flat Tiles)

20/20	Dual Calderdale Edge	TLE
Actua	Dual TLE	Vauban
Calderdale Edge	Plain Tiles (All)	
Cassius	Rivius	

#### Tile Compatibility (Profiled Tiles)

Double Pantile	Neo Plus	Shire Pantile
Double Roman	New County	Standard Pattern
Lindum	Olympus	

#### Ridge Compatibility

Clay Half Round Mono Ridge	305mm
Concrete Half Round Mono Ridge	457mm
Concrete Multi Angle Mono Ridge	457mm
Duracoat Half Round Mono Ridge	457mm
Duracoat Multi Angle Mono Ridge	457mm

### Guidance

Product specification is subject to change and will be updated accordingly.

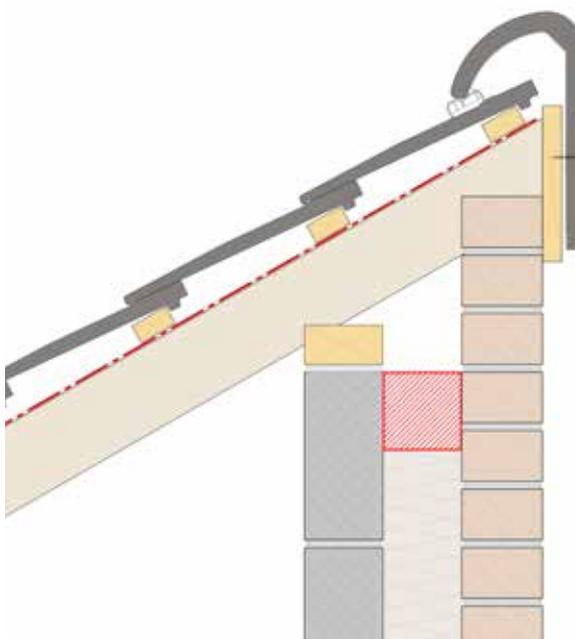
Ridge joints provide an efficient seal between each ridge, giving the appearance of a 10mm mortar joint. To complete the system, and to enhance aesthetics, profile fillers are available for profiled tile types. The fillers easily click into the ventilation strips and both are marked to ensure correct orientation.

The mono ridges are secured to the wall or fascia using the screws and sealing washers supplied.

### Product Image



### Technical Drawing



# IN-LINE TILE VENTILATORS



**In-Line ventilators are designed to maximise the aesthetic features of the roof by being virtually unseen once installed and can be used for both low-level and high-level ventilation, as well as for connection to soil or mechanical extraction pipes.**

## Product Technical Information Sheet

### General Information

<b>Minimum roof pitch*</b>	<b>All tile vents can be laid at a minimum pitch of 22.5°, or the minimum roof pitch of the compatible tile should that exceed 22.5°</b>
Free vent area	10,000mm <sup>2</sup> **
Spacing at low level (10,000mm <sup>2</sup> per m)	1.00m intervals
Spacing at high level (5,000mm <sup>2</sup> per m)	2.00m intervals
Material	Mix of ABS and PP

Tile Compatibility	Number of Tiles Replaced	Pipe Adaptor included with vent	Cut Batten Required for Installation*
20/20	2	Yes	Yes
Actua	1	Yes	Yes
Arcadia	2	No	Yes
Calderdale Edge	1	No	No
Cassius	1	No	No
Double Pantile	1	No	No
Double Roman	1	No	No
Dual Calderdale Edge	1	No	No
Dual TLE	1	No	No
Lindum	1	No	No
Modula	1	No	No
Neo Plus	1	No	Yes
New County	2	No	Yes
Old English	2	No	Yes
Olympus	1	No	No
Rivius	1	No	No
Shire Pantile	2	No	No (38mm) Yes (50mm)
TLE	1	No	No
Vauban	2	Yes	Yes

## Guidance

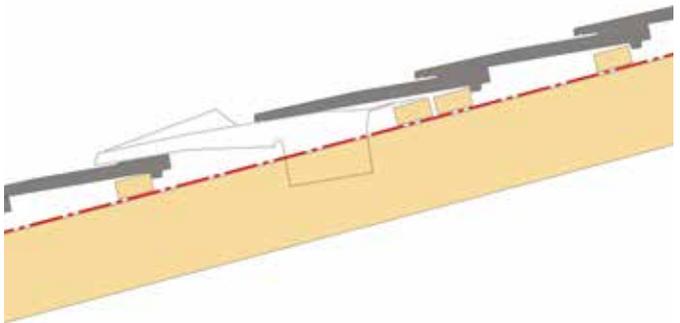
Product specification is subject to change and will be updated accordingly.

## Product Image



Image shown: 20/20 In-Line Tile Ventilator - Natural Red

## Technical Drawing



\* A low pitch in-line ventilator is available for the 20/20 tile which can be laid down to 15°.

\*\* Free vent area is 7,500mm<sup>2</sup> on the low pitch 20/20 in-line vent.

**Cowl Ventilators provide a practical solution for high level roof space ventilation and for connection to soil or mechanical extraction pipes.**

## Product Technical Information Sheet

### General Information

<b>Minimum roof pitch</b>	<b>22.5**</b>
Free vent area	3,000mm <sup>2</sup>
Spacing at high level (5,000mm <sup>2</sup> per m)	0.56 m intervals
Material	Product matches the associated tile material (Clay or Concrete)
Compatible accessories	In-Line/InvisiVent Pipe Adapter Flexi Pipe

### Tile Compatibility<sup>1</sup>

Arcadia	Dual TLE	Rivius
Calderdale Edge	Lindum	Shire Pantile
Cassius	Neo Plus	Tempest 44
Double Pantile	Old English Pantile	TLE
Double Roman	Old Hollow 451	
Dual Calderdale Edge	Olympus	

## Guidance

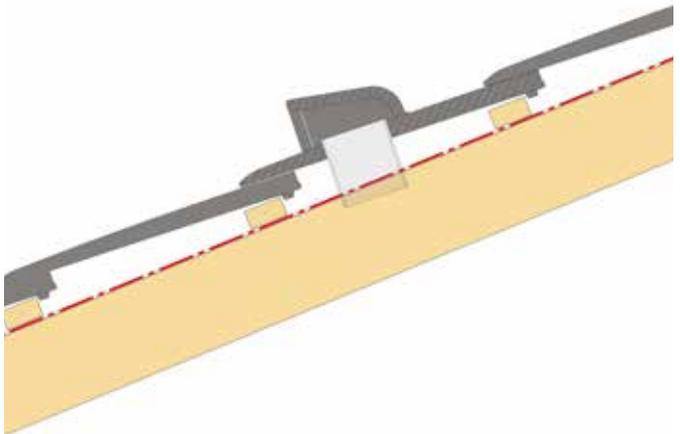
Product specification is subject to change and will be updated accordingly.

For airflow resistance advice please contact Technical Services on 0330 383 0379.

## Product Image



## Technical Drawing



<sup>1</sup> Not available in colours with a sanded finish.

\* Where the minimum roof pitch recommended for a particular tile is greater than the ventilator minimum pitch then this minimum pitch also applies to the ventilator.

# PLAIN TILE INVISIVENT®



The InvisiVent® is designed to be virtually unseen once installed and can be used for both low and high level ventilation, and for connection to soil or mechanical extraction pipes.

## Product Technical Information Sheet

### General Information

<b>Minimum roof pitch</b>	<b>35° (40° Handmade)</b>
Free vent area	7,500mm <sup>2</sup>
Spacing at low level (10,000mm <sup>2</sup> per m)	0.75 m intervals
Spacing at high level (5,000mm <sup>2</sup> per m)	1.50 m intervals
Material	Product matches the associated tile material (Clay or Concrete)
Compatible accessories	In-Line/InvisiVent Pipe Adapter Flexi Pipe

### Tile Compatibility<sup>1</sup>

301 Plain Tile	Concrete Plain Tile	Peg Tile
303 Plain Tile	Goxhill Plain Tile	Shire Plain Tile
Alban Plain Tile	Humber Plain Tile	Traditional Plain Tile
Barrow Plain Tile	Humber sandfaced Plain Tile	Village Plain Tile

## Guidance

Product specification is subject to change and will be updated accordingly.

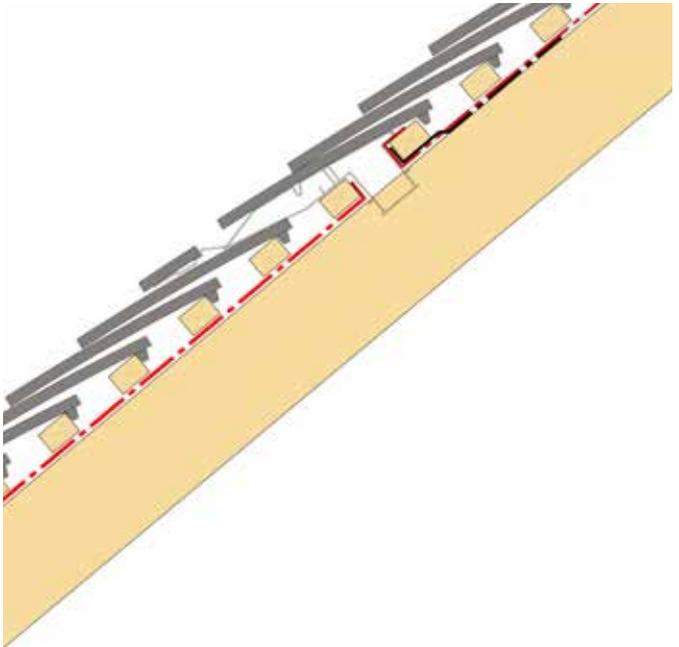
For airflow resistance advice please contact Technical Services on 0330 383 0379.

## Product Image



Image shown: Humber PT InvisiVent - Natural Red

## Technical Drawing



<sup>1</sup> Not available in colours with a sanded finish.

Designed as a complete and comprehensive solution, Sandtoft over fascia ventilation provides continuous free vent areas of 10,000mm<sup>2</sup> and 25,000mm<sup>2</sup> and insulation retention irrespective of rafter centres and soffit width.

## Product Technical Information Sheet

### General Information

Free vent area (10mm Over Fascia Ventilator)	10,000mm <sup>2</sup> per linear m
Free vent area (25mm Over Fascia Ventilator)	25,000mm <sup>2</sup> per linear m
Component quantities	To suit 6 metres of eave
Underlay Support Tray material	PVC
Over fascia Ventilator material	PP
Spacer tray material	Recycled PVC

### Tile Compatibility

All Wienerberger Tiles

### Additional Bird Comb Filler Required (Sold Separately)

Double Pantile	New County	Shire Pantile
Modula	Old Hollow 451	
Neo Plus	Olympus	

## Guidance

Product specification is subject to change and will be updated accordingly.

The over fascia ventilation strip provides effective resistance to large insects and driving rain.

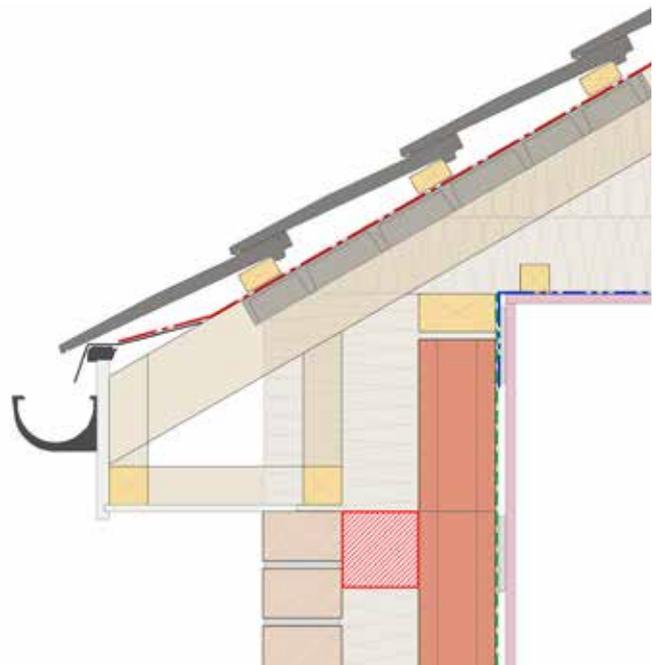
The spacer tray provides a clear air path over the insulation irrespective of soffit width and roof pitch.

The underlay support tray prevents sagging of the underlay behind the fascia and eliminates the problem of long-term deterioration of the underlay at the eaves.

## Product Image



## Technical Drawing



# TOP ABUTMENT VENTILATOR

The Sandtoft top abutment ventilation system provides a neat and discreet way of ventilating the roof space at a top abutment.

## Product Technical Information Sheet

### General Information

<b>Minimum roof pitch</b>	<b>Suits the minimum roof pitch of all compatible tiles</b>
Compatible flashing	WBLR, Lead
Free Vent Area	5,000 mm <sup>2</sup> /linear metre
Fixings	A minimum of 3 fixings per unit
Size of pack	1040 x 240 x 170 mm
Component quantities	To suit 6 metres of Top Abutment
Top Abutment Ventilator material	PS and Aluminium
Screw and washer material	Stainless Steel

### Tile Compatibility (Flat Tiles)

301	Calderdale Edge	Humber Plain Tile
303	Cassius	Humber Sandfaced Plain Tile
20/20	Concrete Plain Tile	Rivius
Alban Plain Tile	Dual Calderdale Edge	TLE
Barrow Plain Tile	Dual TLE	Village Plain Tile

### Tile Compatibility (Profiled Tiles)\*

Double Pantile	Neo Plus	Shire Pantile
Double Roman	New County	Standard Pattern
Lindum	Olympus	

## Guidance

Product specification is subject to change and will be updated accordingly.

The system comprises of 1 m vent units that click together, fillers can then be attached to the vent units for profiled tiles. Once the vent units are fixed in place a WBLR or lead flashing can be dressed into place, please refer to our installation guide for more information.

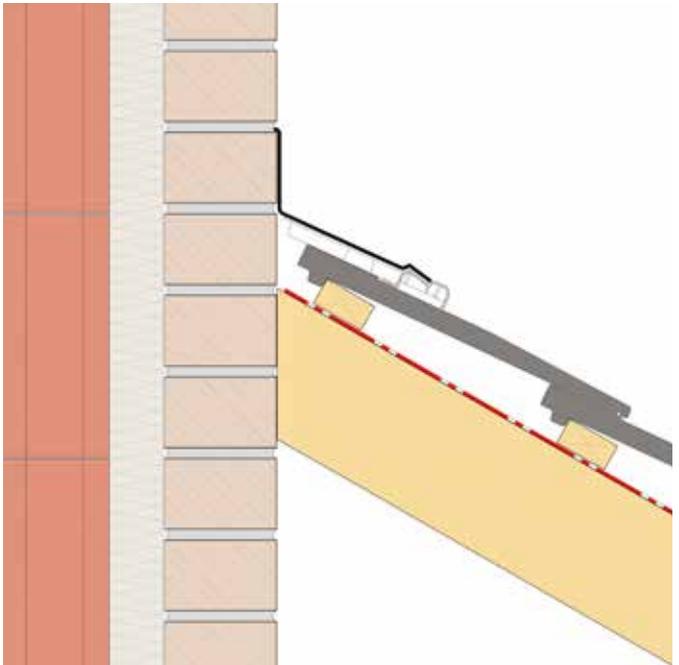
The Sandtoft top abutment ventilation system provides 5000mm<sup>2</sup>/linear metre free vent area.

Contact Sandtoft technical services for further information.

## Product Image



## Technical Drawing



\* Profile fillers are available separately.

**Wienerberger Lead Replacement is an alternative to lead for weathering flashing material for buildings. It is aluminium based and available in two unique surface finishes (cross-corrugated and embossed) depending on the application.**

## Product Technical Information Sheet

### General Information

Material	Aluminium and Butyl
Roll Length	5m
Roll Widths	300mm 450mm
Thickness	Corrugated - 4.1 mm Embossed - 0.65 mm
Installation temperature	Do not install if the outside temperature is 5°C or lower
Working temperature (when installed)	Minus 40°C - 90°C
Colours	Grey, Red*

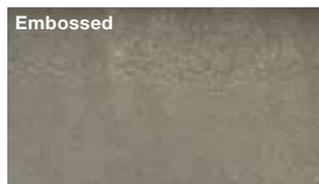
### Compatibility

Compatible with all roof coverings that do not contain a granular surface

### Overlaps

Roof covering	150 mm minimum
Extended up abutments	75 mm minimum
Adjacent WBLR product	150 mm minimum

## Surface Finishes



## Guidance

Product specification is subject to change and will be updated accordingly.

## Product Image



\* Minimum quantity applies when ordering in red.

# MORTARLESS BONDING GUTTER

An easy to install solution to weather the junction between roof coverings, such as in cases where an adjoining property is re-roofed in a different material.

## Product Technical Information Sheet

### General Information

Minimum roof pitch	17.5°
Size of pack	3 Metre Lengths
Fixings	Nail through the outer flanges and into the battens on both sides and at 500mm centres maximum
Material	GRP
Compatible accessories	Multiversal Top and Tail Clips

### Tile Compatibility (75mm Upstand)\*

301	Cassius	Rivius
303	Dual Calderdale	Standard Pattern
20/20	Dual TLE	TLE
Actua	Lindum	Vauban
Calderdale Edge	Plain Tiles (All)	

### Tile Compatibility (100mm Upstand)\*

Arcadia	Modula	Old Hollow 451
Bridgwater	Neo Plus	Olympus
Double Pantile	New County Pantile	Shire Pantile
Double Roman	Old English	Tempest 44

## Guidance

Product specification is subject to change and will be updated accordingly.

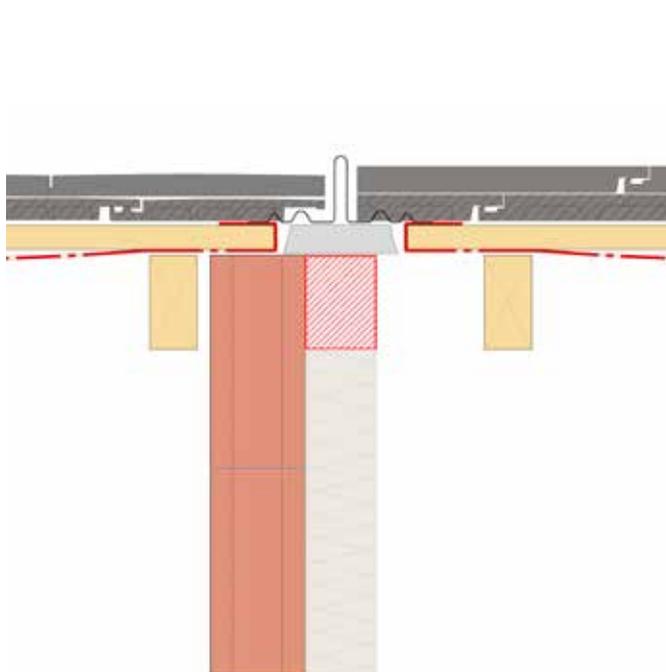
The bonding gutter is available in two upstand heights to suit most flat and profile tiles and slates.

Roof tiles or slates are installed close to the bonding gutter upstand. Where the installation of small cut tiles is unavoidable Sandtoft provides a range of top and tail clips (available separately).

## Product Image



## Technical Drawing



**Sandtoft Universal Dry Valley trough is an easy to install solution that eliminates the problems associated with mortar-bedded valleys.**

## Product Technical Information Sheet

### General Information

<b>Minimum roof pitch</b>	<b>17.5°</b>
<b>Maximum Roof Pitch</b>	<b>60°</b>
Size of pack	3 Metre Lengths
Fixings	Nail through the outer flange into the supporting timbers at 500mm centres maximum
Material	GRP
Compatible accessories	Mortarless Hip/Valley Tile Top Clip Mortarless Hip/Valley Tile Tail Clip
Fire rating	Fire resistant. Designated AB fire rating
Tile Compatibility	All Tiles
<b>Rafter Pitch</b>	
<b>Min. Lap Length</b>	
17.5° to 19.5°	300mm
20° to 40°	220mm
Over 40°	150mm

## Guidance

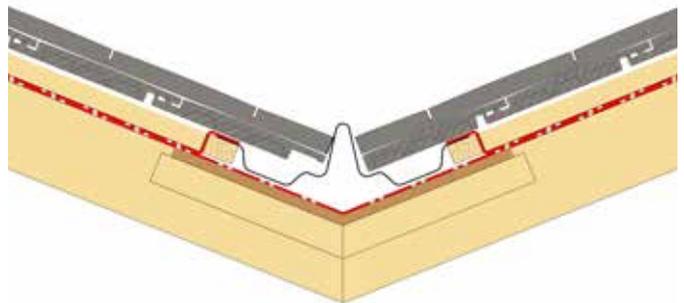
Product specification is subject to change and will be updated accordingly.

Roof tiles or slates are installed close to the valley trough upstand. Where the installation of small cut tiles is unavoidable Sandtoft provides a range of top and tail clips (available separately).

## Product Image



## Technical Drawing



# ACCESSORIES

## Contents

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## Ridge Ventilation

Half Round Roll Ridge Kit CON



Half Round Roll Ridge Kit CLY



Multi Angle Roll Ridge & Hip Kit



Multiversal Roll Ridge & Hip Kit



Segmental Roll Hip Kit CON



Third Round Roll Hip Kit CLY



HR Profile Ridge Kit CON



HR Profile Ridge Kit CLY



MA Profile Ridge Kit



HR Profile Mono Ridge Kit CON



HR Profile Mono Ridge Kit CLY



MA Profile Mono Ridge Kit



Koramic 325 Profile Ridge Kit



Mortarless Hip/Valley Tile Top Clip



Mortarless Hip/Valley Tail Clip STD



Mortarless Hip/Valley Tail Clip TLE



Hip Tray



Mortar Bedded Ridge Fixing Kit



Multi Tape - 60mm x 25m



Nail Tape - Butyl



**Ridge Ventilation (all items below are sold within packs)**

<p><b>HR Ridge Joint CON</b></p> 	<p><b>HR Ridge Joint CLY</b></p> 	<p><b>Multi Angle Ridge Joint</b></p> 	<p><b>Multiversal Ridge Joint</b></p> 
<p><b>Segmental Ridge Joint</b></p> 	<p><b>HR Mono Ridge Joint CON</b></p> 	<p><b>HR Mono Ridge Joint CLY</b></p> 	<p><b>Multi Angle Mono Ridge Joint</b></p> 
<p><b>Profile Dry Ridge Ventilation Strip</b></p> 	<p><b>Ridge Fixing Pack CON</b></p> 	<p><b>Ridge Fixing Pack CLY</b></p> 	<p><b>Mono Ridge Fixing Pack</b></p> 
<p><b>Double Pantile PDR Filler</b></p> 	<p><b>Double Roman PDR Filler</b></p> 	<p><b>Lindum PDR Filler</b></p> 	<p><b>Neo Plus PDR Filler</b></p> 
<p><b>New County PDR Filler</b></p> 	<p><b>Olympus PDR Filler</b></p> 	<p><b>Shire Pantile PDR Filler</b></p> 	<p><b>Standard Pattern PDR Filler</b></p> 

# ACCESSORIES



## Ventilation

### InvisiVent



### 10mm Eaves Ventilation Pack



### In-Line Vent



### 25mm Eaves Ventilation Pack



### InvisiVent Pipe Adapter



### Flexi Pipe (110mm diameter)



### Bird Comb Filler



For use with profiled tiles.

## Dry Verge System

### Multiverge Standard Unit



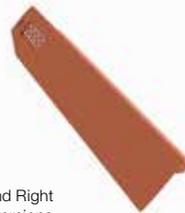
Left and Right hand versions available (LH shown).

### Multiverge Eaves Unit



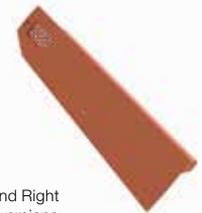
Left and Right hand versions available (LH shown).

### TLE/MF Standard Unit



Left and Right hand versions available (LH shown).

### TLE/MF Eaves Unit



Left and Right hand versions available (LH shown).

### Ridge Closure Comb



For use with Block End Ridges.

### Continuous Dry Verge D-Type



R-Type profile also available.

### Continuous Dry Verge Connector



### Continuous DV Eaves Stop End



## Dry Verge System Colours

	Dark Grey / Antique Slate	Red Multi	Tuscan	Natural Red	Brown	Red	Black
Ridge							
Multiverge	✓	✓		✓	✓		
TLE/MF	✓	✓	✓	✓	✓		
Continuous Dry Verge						✓	✓
Half Round Ridge End Cap	✓	✓	✓	✓	✓		
Multi Angle Ridge End Cap	✓	✓		✓	✓		

### Half Round Ridge End Cap



### Multi Angle Ridge End Cap



## Flashing System

### Abutment Soaker - Large



### Abutment Soaker - Medium



### Abutment Soaker - TLE



### Continuous Side Abutment Secret Gutter 3m



### Top Abutment Ventilator Kit



## Valley

### Universal Dry Valley



## Bonding Gutter

### Mortarless Bonding Gutter 70mm Upstand



### Mortarless Bonding Gutter 100mm Upstand



## VPM

### Sandtoft Super VPM



### Sandtoft Classic VPM



### Sandtoft Classic Taped VPM



### Underlay Support Tray



The logo for 'in-roofsolar' features the text 'in-roofsolar' in a sans-serif font, with 'in-roof' in black and 'solar' in a bold black. A green chevron shape is positioned to the right of the text. The background of the entire page is a photograph of a grey-tiled roof with several solar panels installed. A white semi-transparent box is overlaid on the left side of the roof, containing the logo and a table of contents. A green geometric shape is visible in the bottom-left corner of the page.

# in-roofsolar

## Contents

A complete solar system for tomorrow's homes today	126
The in-roof solar solution	127
Which system size is right for my roof?	128
Unlock the full potential of your solar system	129





## EVERYTHING YOU NEED FOR A SOLAR ROOF

### What is in-roof solar?

In-roof solar is more than just a solar panel, it is a solar roof. No trays or complicated and unsightly mounting systems, in-roof solar is a seamless integrated roof panel that is easy to install and applied directly to the

roof battens. In-roof solar sets a new standard for the modern roof that embraces the traditional aesthetic of an overlapping tile, whilst providing a seamlessly integrated sustainable energy source.



MCS certified minimum roof pitch of 15 degrees.



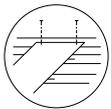
Independently wind-driven-rain tested at the BRE.



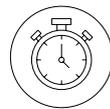
15-year product warranty\* and 25-year performance guarantee.



Seamlessly smart integrated solar panels with no mess.



Mounts directly on battens; no trays needed.



Fast, easy install with one-minute panel-to-panel connection.



### What is in an inverter?

An inverter is one of the most important pieces of equipment in a solar energy system. It converts Direct Current (DC) electricity, generated from the solar panel, to Alternating Current (AC) electricity, that can be used to power electrical appliances and feed into the electrical grid.

\*Sandtoft 15 year Roofspec offering incorporates both tiles and in-roof solar installation as a complete roof structure.



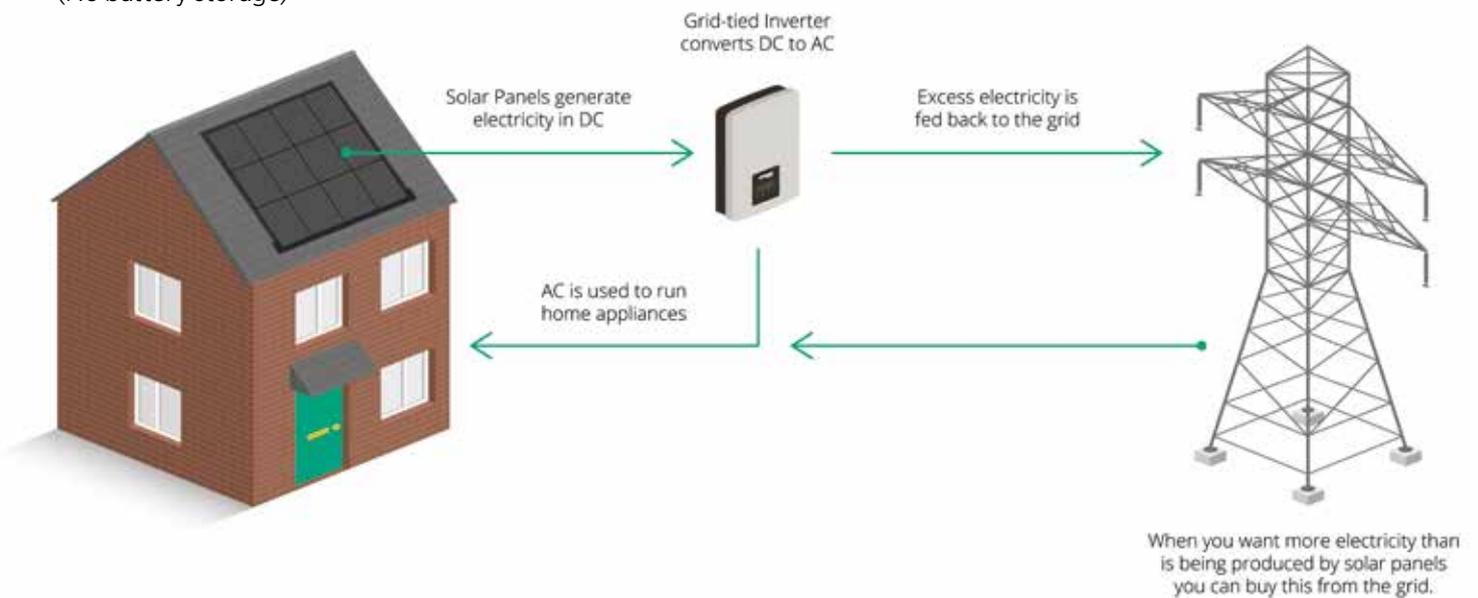
## What is a battery?

A battery can store the excess electricity generated from solar panels or it can store electricity it's able to take directly from the grid. This stored energy can be used to power the property at times when solar panels don't generate enough electricity, including nights, cloudy days, or during power outages, or even when the energy demand is high by taking advantage of cheaper rates provided by the property's electricity provider.

## The system options available

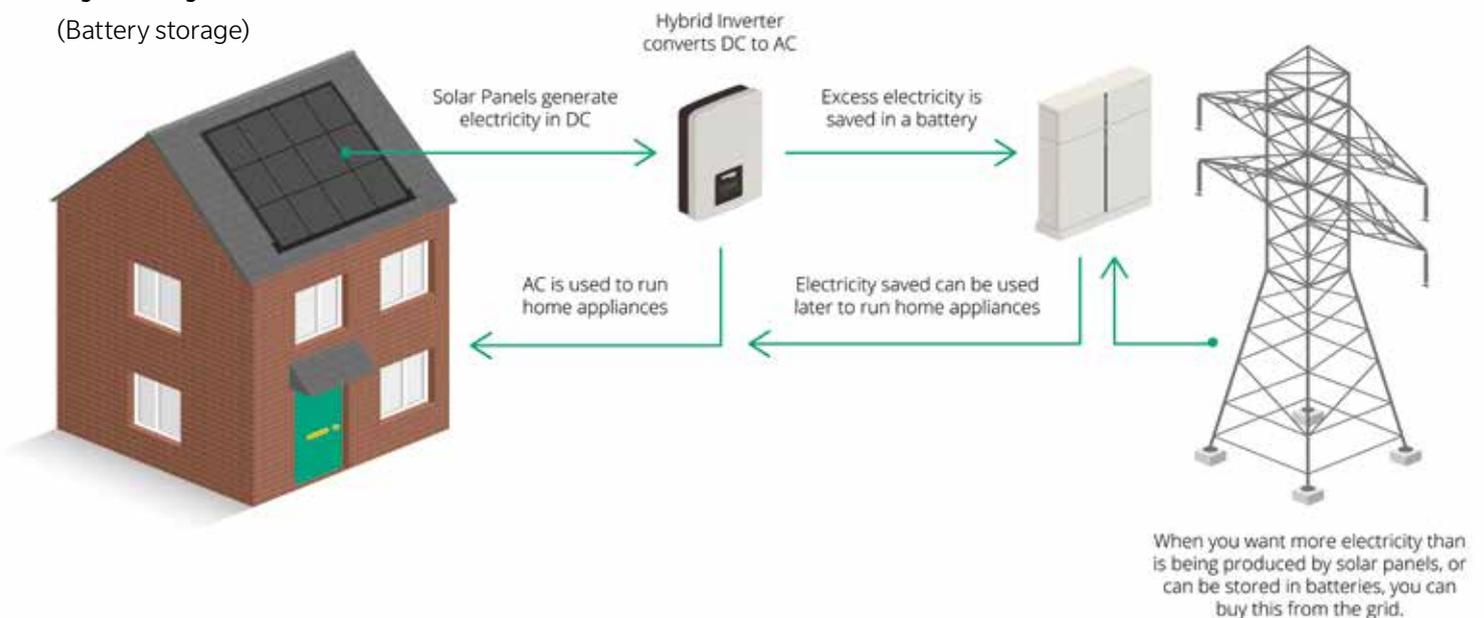
### Grid-tied System

(No battery storage)



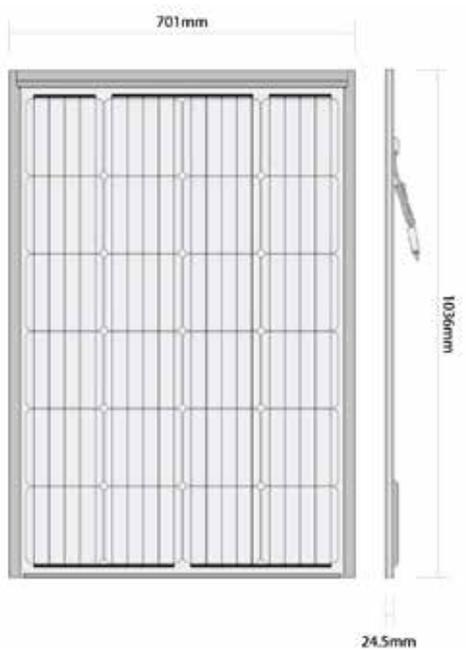
### Hybrid System

(Battery storage)



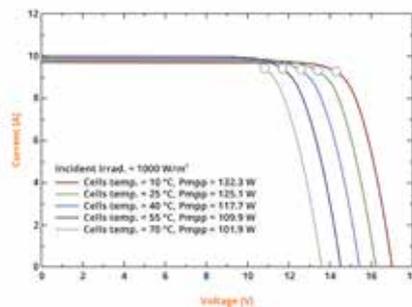
# THE IN-ROOF SOLAR SOLUTION

## Front and side profile



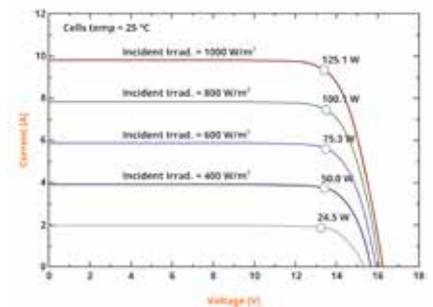
### Cell Temperature I-V Curve

Showing how the voltage is affected by cell temperature.

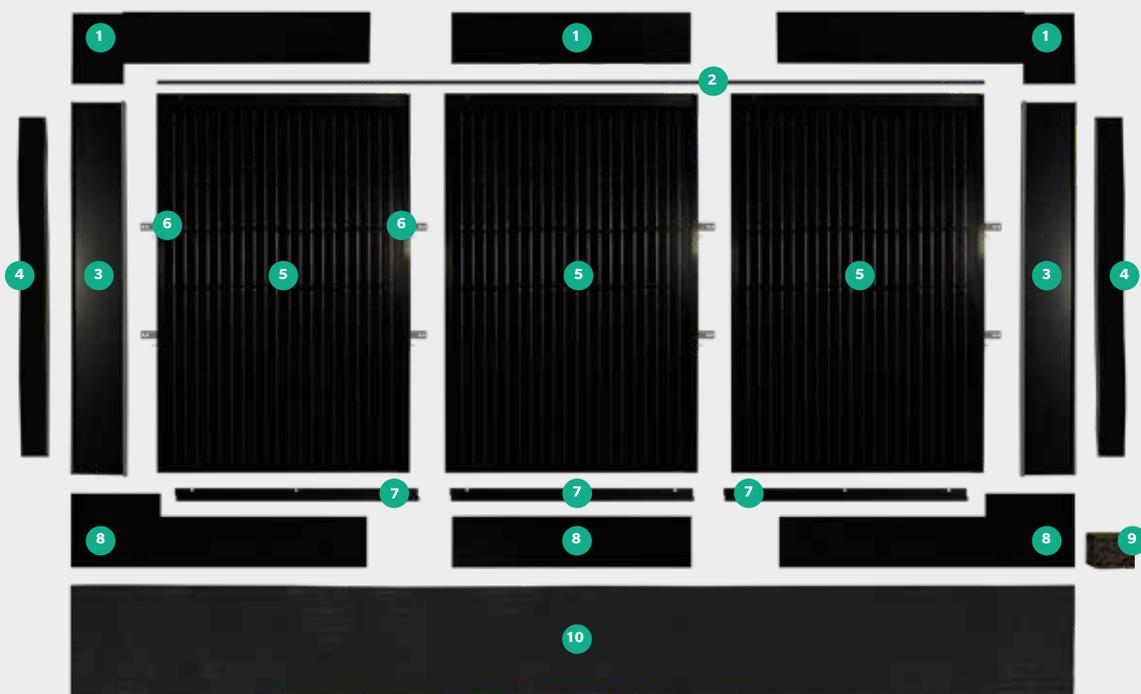


### Irradiance I-V Curve

Showing how the current, power and voltage is affected by different light.



## System components



- 1. Aluminium flashing top (left, middle, right)
- 2. Seal strip O1
- 3. Aluminium flashing side (left & right)
- 4. Seal strip O2
- 5. IRT Panels (left, middle, right)
- 6. Mid-clamp (right & left)
- 7. Bottom edge
- 8. Aluminium flashing bottom (left, middle, right)
- 9. Self tapping screws
- 10. Lead replacement

# TECHNICAL DETAILS

## Electrical Performance

Module type	PLM-125MB-24 SERIES		
Power output	Pmax	Wp	125
Voltage at Pmax	Vmpp	V	13.33
Current at Pmax	Imp	A	9.38
Open circuit voltage	Voc	V	16.22
Short-circuit current	Isc	A	9.79
Module efficiency	Eff	%	18.2

STC: 1000W/m<sup>2</sup> irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-3 Power measurement uncertainty is within +/- 3%

## Thermal Characteristics

Nominal operating cell temperature	NOCT	°C	45±2
Temperature coefficient of Pmax	γ	%/ °C	-0.40
Temperature coefficient of Voc	βVoc	%/ °C	-0.30
Temperature coefficient of Isc	αIsc	%/ °C	0.06

## Operating Conditions

Max. system voltage	1000VDC
Limiting reverse current	15A
Operating temperature range	-40°C to 85°C
Max. static load front (e.g., snow)	5400Pa
Max. static load back (e.g. wind)	3420Pa

## Mechanical Characteristics

Front cover (material / thickness)	low-iron tempered glass/3.2mm
Backsheet (colour)	black
Cell (quantity/material/dimensions)	monocrystalline silicon/156.75x156.75mm
Frame (material/colour)	anodized aluminium alloy/black
Junction box (protection degree)	≥IP67
Cables & Plug connectors	900mm/4mm <sup>2</sup> & MC4 compatible/IP67
Module Dimensions (L/W/H)	1036mmx701mmx24.5mm
Module Weight	8.95kg

# INVERTERS AND BATTERIES FOR YOUR SOLAR SYSTEM

When it comes to harnessing the power of solar energy, it takes more than just high-quality panels to create a truly efficient and reliable system. That’s why we are proud to offer inverters and batteries, in partnership with our chosen supplier Solax. All our inverters and batteries come with a 5 year product guarantee to provide you with a complete integrated solution.

## Inverters

We offer a range of both grid-tied and hybrid inverters (see page 5) to cater to a wide range of project sizes and requirements. Whether you need a grid-tied or hybrid solution, we have the perfect inverter for you. From small

residential installations to medium-sized commercial projects, all the way up to large-scale applications, our inverter options ensure optimum performance and seamless integration with your solar system.

### Solax Grid-tied Inverters



#### Small systems

Available in:

1.1kW, 1.5kW, 2.0kW, 2.5kW

#### Medium systems

Available in:

3.0kW, 3.6kW, 4.2kW, 5.0kW, 6.0kW

#### Large systems

Available in:

8.0kW

#### Features:

-  Remote Upgrade and Control
-  Waterproof
-  LCD Touch Display
-  Online Monitoring

#### Applicable only to large systems:

-  Support EV Charger (Fast Charging Mode)

### Solax Hybrid Inverters (Compatible with batteries)



#### Small systems

Available in:

3.0kW & 3.7kW

#### Medium systems

Available in:

5.0kW & 6.0kW

#### Large systems

Available in:

7.5kW

-  Remote Upgrade and Control
-  Waterproof
-  LCD Touch Display
-  Online Monitoring

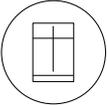
#### Applicable only to large systems:

-  Support EV Charger (Fast Charging Mode)

## Empower Your System with Batteries

If you're looking to take your solar system to the next level, our selection of batteries are here to provide you with enhanced energy management capabilities. By incorporating batteries into your setup (available in 3,6,9 and 12kW) you can store excess energy generated during the day and use it during peak demand or when the sun isn't shining. With our range of batteries, you have the flexibility to choose the solution that aligns perfectly with your energy needs.

### Why choose a battery?

-  Store both electricity generated from your solar system and supplied directly from the grid.
-  Take advantage of cheaper rates with a battery system. It is cheaper to use stored energy than exporting it to the grid and buying it back at higher prices.
-  You can purchase and store energy from the grid at a cheaper price (usually at night) and use it for the rest of the day or whenever suits your lifestyle.
-  Help to meet Part L legislation and envisaged Future Homes Standards 2025 by reducing household carbon emissions.

### Solax Triple Power 3.0 Battery



For all technical information you may need, scan the QR code



SCAN ME

### Maximise energy generation and reduce costs

We understand that navigating through the intricacies of inverters and batteries can be overwhelming. But fear not, our team of experts are here to guide you every step of the way. With their deep knowledge and experience, we'll work closely with you to understand your unique requirements and help select the most efficient and cost-effective solution for your project. Our experts are committed to ensuring that you have

a solar system that both maximise energy generation and reduces costs.

Take the next step towards a greener future today with a solar system that empowers you with clean, sustainable energy.

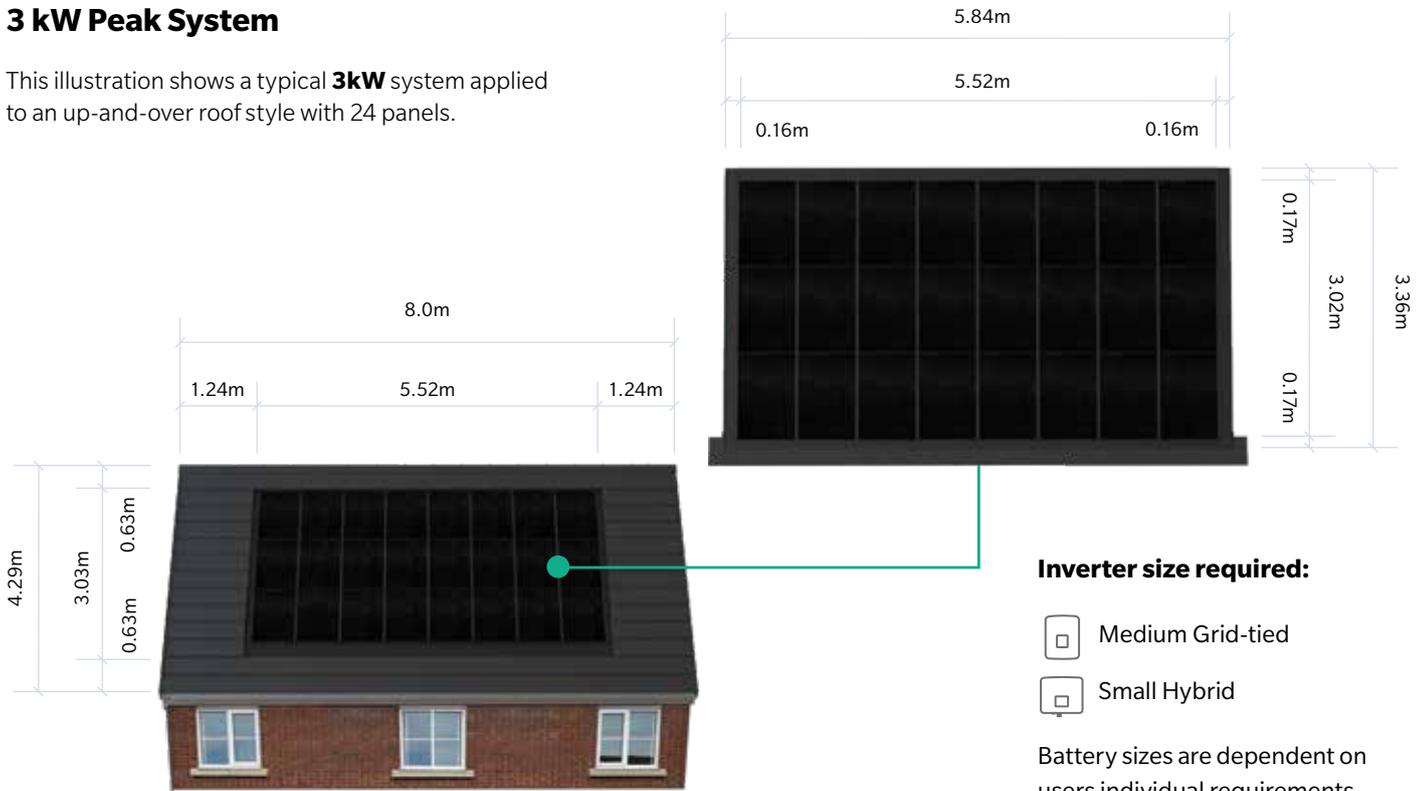
Get in touch: [wbukmarketing@wienerberger.com](mailto:wbukmarketing@wienerberger.com)

# WHICH SYSTEM SIZE IS RIGHT FOR MY ROOF?

When applying in-roof solar it's useful to know what system is suitable for your roof type.

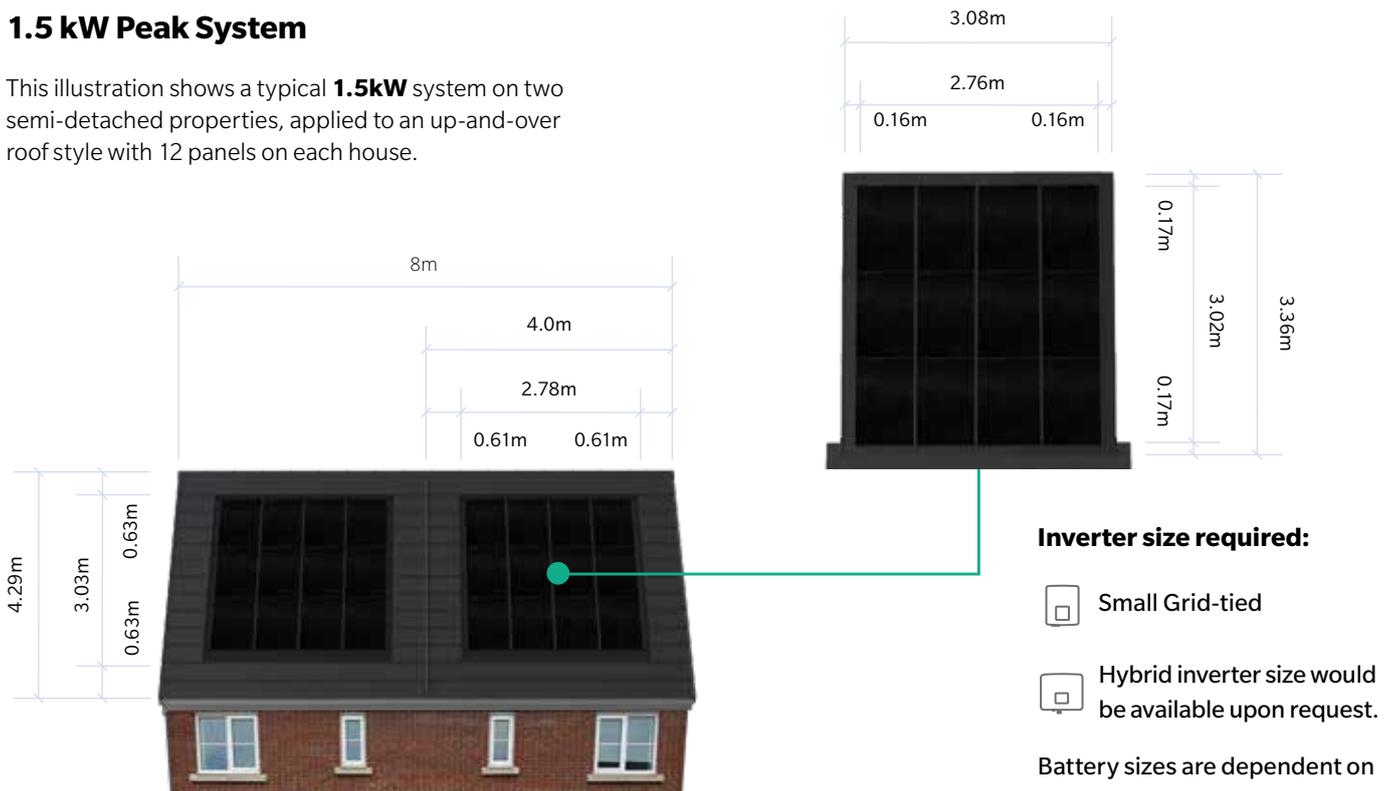
## 3 kW Peak System

This illustration shows a typical **3kW** system applied to an up-and-over roof style with 24 panels.



## 1.5 kW Peak System

This illustration shows a typical **1.5kW** system on two semi-detached properties, applied to an up-and-over roof style with 12 panels on each house.



# UNLOCK THE FULL POTENTIAL OF YOUR SOLAR SYSTEM

Uncertain about the specific products that would best suit your solar system?

Our design team is here to alleviate the stress out of roof specification. We understand that selecting the right components can be overwhelming, which is why we are happy to collaborate with you to:

- Maximise the potential of your solar system by allowing us to select the right system for you.
- Enhance the efficiency of your solar system and minimise technical complications.
- Simplify the installation process by allowing our experts to specify the most compatible products for your solar system.



## How our design team can help?



Tailored specification requirements for your specific projects needs.



Easy access to on-hand technical experts whenever you need us.



Complete roof design with all relevant details provided.



A four-day maximum turnaround to any query.

Find the perfect solution for your roof by filling out our convenient enquiry form using the QR code below. Alternatively, you can visit our website, and our dedicated team will promptly be in touch to assist you.

## What do you get?

- Roof specification plans.
- Panel placement (arrangement, spacing, alignment).
- Positioning/layout recommendations.
- Electrical connection advice.
- Safety measures and compliance regulations (Considerations document).
- Recommendation on Inverter sizing.

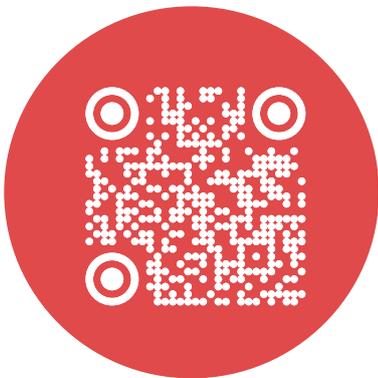


Scan here to get started

or visit: [www.wienerberger.co.uk/solar](http://www.wienerberger.co.uk/solar)







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Date issued: October 2024

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