

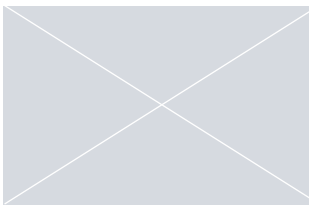
## HARDROW KEY INFORMATION



	18 x 12	18 x 18	24 x 18
Overall Length	457mm	457mm	610mm
Hanging Length	407mm	407mm	560mm
Overall Width	305mm	457mm	457mm
Cover Width	311mm	464mm	468mm
Mass (approx.)	4.8kg	7.2kg	10.6kg

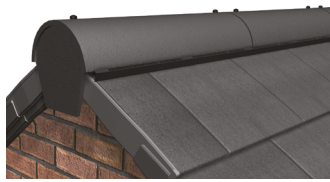
	PITCH	BATTEN SPACING	HEADLAP	SIDELAP	TILES PER M <sup>2</sup>	BATTEN PER M <sup>2</sup>	MASS PER M <sup>2</sup>	NAIL SIZE
18 x 12	25° +	191mm max	75mm min	95mm min	17.22/m <sup>2</sup>	5.24lm	83kg	40mm x 3.35mm
18 x 18	20° - 24.5°	178mm max	102mm min	89mm min	12.3/m <sup>2</sup>	5.62lm	88kg	40mm x 3.35mm
	25° +	191mm max	75mm min	75mm min	11.5/m <sup>2</sup>	5.24lm	83kg	
24 x 18	17.5° - 19.5°	241mm max	127mm min	121mm min	9.07/m <sup>2</sup>	4.15lm	96kg	40mm x 3.35mm
	20° - 24.5°	255mm max	100mm min	102mm min	8.61/m <sup>2</sup>	3.92lm	91kg	
	25° +	267mm max	75mm min	107mm min	8.2/m <sup>2</sup>	3.75lm	87kg	

### VERGE SYSTEM



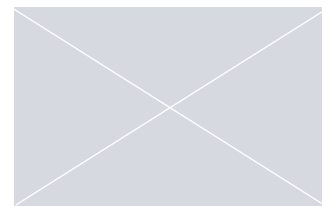
Mortar bedded only.  
Verge clips available.

### RIDGE SYSTEM



Coverage: 6m Pack  
Pitch limits: Please see dry ridge table below.

### TILE CLIPS



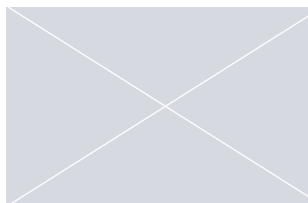
Every Hardrow tile must be twice nailed.  
Top slate clip & repair clips are available.

### VENT TILES



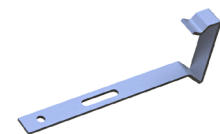
Air Vent - Vent Tile Only  
Soil Vent - Vent Tile, 110mm flexi pipe  
7860mm<sup>2</sup> Free Vent Area  
Pitch Limits: Please see table below.

### HIP SYSTEM



Wet bed only.

### VERGE CLIPS



Packs of 50  
Nails to batten  
Use with: mortar bedded verge  
Made from Stainless Steel



## HARDROW PRODUCT CODES

18 x 12		
Tile	Size	Product Code
Main Tile	18 x 12	STR/ <b>7963</b> /A001/-- (Solo Colour)
		STR/ <b>7966</b> /A001/-- (Duet Colour)
Tile & Half	18 x 18	STR/ <b>7963</b> /B001/-- (Solo Colour)
		STR/ <b>7966</b> /B001/-- (Duet Colour)
Eaves & Tops	13 x 12	STR/ <b>7963</b> /A006/-- (Solo Colour)
		STR/ <b>7966</b> /A006/-- (Duet Colour)

18 x 18		
Tile	Size	Product Code
Main Tile	18 x 18	STR/ <b>7963</b> /B001/-- (Solo Colour)
		STR/ <b>7966</b> /B001/-- (Duet Colour)
Tile & Half	18 x 27	STR/ <b>7963</b> /B002/-- (Solo Colour)
		STR/ <b>7966</b> /B002/-- (Duet Colour)
Eaves & Tops	12 x 18	STR/ <b>7963</b> /B006/-- (Solo Colour)
		STR/ <b>7966</b> /B006/-- (Duet Colour)

24 x 18		
Tile	Size	Product Code
Main Tile	24 x 18	STR/ <b>7963</b> /C001/-- (Solo Colour)
		STR/ <b>7966</b> /C001/-- (Duet Colour)
Tile & Half	24 x 27	STR/ <b>7963</b> /C002/-- (Solo Colour)
		STR/ <b>7966</b> /C002/-- (Duet Colour)
Eaves & Tops	18 x 18	STR/ <b>7963</b> /C006/-- (Solo Colour)
		STR/ <b>7966</b> /C006/-- (Duet Colour)

Ridge Tiles				
Roof Pitch	Ridge Angle - Dry Fix (nailhole ridge)		Ridge Angle - Mortar Bedded	
17.5° to 20°	105°	STR/7975/RD05/--	140°	STR/7975/R045/--
20.5° to 35°	90°	STR/7975/RD40/--	120°	STR/7975/R042/--
35.5° to 40°	70°	STR/7975/RD37/--	105°	STR/7975/R005/--
40.5° to 45°	LB Ridge	BUZ/7935/D516/-- (Half Rnd)	90°	STR/7975/R040/--
		BUZ/7935/UD16/-- (Uni Angle)		
45.5° to 55°	LB Ridge	BUZ/7935/D516/-- (Half Rnd)	70°	STR/7975/R037/--
		BUZ/7935/UD16/-- (Uni Angle)		

Ridge Blockend Tiles				
Roof Pitch	Ridge Blockend Angle - Dry Fix (nailhole ridge)		Ridge Blockend Angle - Mortar Bedded	
17.5° to 20°	105°	STR/7975/RBD5/--	140°	STR/7975/RBD4/--
20.5° to 35°	90°	STR/7975/RBD2/--	120°	STR/7975/RBD3/--
35.5° to 40°	70°	STR/7975/RBD1/--	105°	STR/7975/RBD5/--
40.5° to 45°	LB Ridge	BUZ/7940/D524/-- (Half Rnd)	90°	STR/7975/RBD2/--
		BUZ/7940/U524/-- (Uni Angle)		
45.5° to 55°	LB Ridge	BUZ/7940/D524/-- (Half Rnd)	70°	STR/7975/RBD1/--
		BUZ/7940/U524/-- (Uni Angle)		

- **Hardrow Ridge tile length - 900mm**
- **LB Ridge tile length - 450mm**
- **All Blockends are nailed**



## HARDROW PRODUCT CODES

Dry Ridge Packs		
Roof Pitch	Dry Ridge Pk (6m)	Product Code (grey or rustic colours)
17.5° to 20°	105°	STR/7951/DT05/36
20.5° to 35°	90°	STR/7951/DT40/36
35.5° to 40°	70°	STR/7951/DT37/36
Above 40°	LB Ridge Pk	BUZ/7951/GMT5/--

Hardrow Ridge Tiles Used on Hips		
Roof Pitch	Hardrow Ridge Tile	Product Code (non nailhole)
17.5° to 20°	140°	STR/7975/R045/--
20.5° to 35°	140°	STR/7975/R045/--
35.5° to 42.5°	120°	STR/7975/R042/--
43° to 50°	105°	STR/7975/R005/--
51° to 60°	90°	STR/7975/R040/--

Colours	
SOLO (7963)	DUET (7966)
Oldstone (31)	Barley (21)
Yellow (34)	Dusk (22)
Brown (35)	Twilight (29)
Light Grey (36)	
Dark Grey (37)	
Thatch (38)	

Concrete Vent Tiles		
Hardrow Tile	Air Vent	Soil Vent (inc flexi pipe)
18 x 12	STR/7972/P001/--	STR/7972/P005/--
18 x 18	STR/7972/P002/--	STR/7972/P006/--
18 x 24	STR/7972/P003/--	STR/7972/P007/--

Plastic Vent Tiles		
Hardrow Tile	Air Vent	Soil Vent (inc flexi pipe)
Suitable for:		
18x12	STR/7951/AV12/37	STR/7951/SV12/37
18x18		

**Plastic Vents not suitable for 24x18**

Hardrow Harmony Colour Mixes	
Harmonies	Mix
Symphony	60 % Brown, 20 % Yellow, 20 % Light Grey
Overture	60 % Light Grey, 20 % Dark Grey, 20 % Thatch
Collyweston	55 % Light Grey, 40 % Yellow, 5 % Brown
Cotswold	20 % Brown, 40 % Light Grey, 30 % Yellow, 10 % Thatch

Tile Clips	
Clip Type	Product Code
Verge Clips (Pk 50)	BUZ/7960/V253/00
Top Slate Clip (Single)	STR/7961/TC51/00
Repair Clip (Single)	STR/7961/HRRC/00

Misc Plastic	
Product	Product Code
Eave Vent Pack (6m)	BUZ/7955/U5E5/00
Ext Pack (6m)	BUZ/7955/U5E5/00

# HARDROW STANDARD HIPS & VALLEYS

## Key Points

- Standard Hips/Valleys are one per course
- Hip tiles will be supplied with a nailhole
- Valley tiles do not have a nailhole
- Surface finish will vary from main tiles due to hand made production process

## Valley Tiles

PITCH	18" (457mm)
20°	STR/7971/V013/--
22.5°	STR/7971/V014/--
25°	STR/7971/V015/--
27.5°	STR/7971/V016/--
30°	STR/7971/V017/--
32.5°	STR/7971/V018/--
35°	STR/7971/V019/--
37.5°	STR/7971/V020/--
40°	STR/7971/V021/--
42.5°	STR/7971/V022/--
45°	STR/7971/V023/--
47.5°	STR/7971/V024/--
50°	STR/7971/V025/--
52.5°	STR/7971/V026/--
55°	STR/7971/V027/--

## Hip Tiles

PITCH	18" (457mm)
20°	STR/7971/H013/--
22.5°	STR/7971/H014/--
25°	STR/7971/H015/--
27.5°	STR/7971/H016/--
30°	STR/7971/H017/--
32.5°	STR/7971/H018/--
35°	STR/7971/H019/--
37.5°	STR/7971/H020/--
40°	STR/7971/H021/--
42.5°	STR/7971/H022/--
45°	STR/7971/H023/--
47.5°	STR/7971/H024/--
50°	STR/7971/H025/--
52.5°	STR/7971/H026/--
55°	STR/7971/H027/--

