

STANDARD ROOFING SLATES

Main Slates Product	Nominal Size mm	Cover Width Cw	Nominal Hanging Length mm	Pitch°	Minimum Headlap mm	Maximum Gauge mm	Minimum Side Lap mm	Mass (approx) per 1000 slates Tonnes	Nominal Thickness mm	Number per m ²	Weight per m ² kg	Verge Slates Product	Nominal Size mm	Eaves & Tops Product	Nominal Size mm
15 x 9	*381 x 229	232	331	30° & above	75	150	95	3.0	14	29.1	87	15 x 13 1/2	381 x 343	10 x 9	254 x 229
18 x 12	457 x 305	311	407	25° & above	75	191	95	4.8	14	17.22	83	18 x 18	457 x 457	13 x 12	330 x 305
18 x 18	457 x 457	464	407	20°-24.5°	102	178	89	7.2	14	12.3	88	18 x 27	457 x 686	12 x 18	305 x 457
				25° & above	75	191	75			11.5	83				
24 x 18	610 x 457	468	560	17.5°-19.5°	127	241	121			9.07	96	24 x 27	610 x 686	18 x 18	457 x 457
				20°-24.5°	100	255	102	10.6	16	8.61	91				
				25° & above	75	267	107			8.2	87				
27 x 18	†686 x 457	468	636	† This slate is available for replacing damaged slates in existing roofs only											

*Also available to order as Ornamental Slates.

Batten Size: 38mm x 25mm for spans up to 450mm; 50mm x 25mm for spans from 450mm up to 600mm in accordance with BS 5534:2003.

STANDARD VERTICAL CLADDING SLATES

Main Slates Product	Nominal Size mm	Cover Width Cw	Nominal Hanging Length mm	Standard Headlap mm	Standard Gauge mm	Number per m ² at Standard Headlap	Mass per m ² at Standard Headlap kg	Mass (approx) per 1000 Slates Tonnes	Nominal Thickness mm	Verge Slates Product	Nominal Size mm	Eaves & Tops Product	Nominal Size mm
13 x 9	330 x 229	232	280	50	140	31.2	81	2.6	14	13 x 13 1/2	330 x 343	9 x 9	229 x 229
15 x 9	*381 x 229	232	331	50	165	26.5	80	3.0	14	15 x 13 1/2	*381 x 343	10 x 9	254 x 229
13 x 12	330 x 305	311	280	50	140	23.4	81	3.5	14	13 x 18	330 x 457	9 x 12	229 x 305
18 x 12	457 x 305	311	407	50	203	16.2	78	4.8	14	18 x 18	457 x 457	13 x 12	330 x 305

*Also available to order as Ornamental Slates.

DESIGNATION OF STANDARD SLATES

Product	Nominal Size (mm)	Tile Designation Code.
STANDARD ROOFING SLATES		
15 x 9	381 x 229	T - EN 490 - NL - 0 - IF - 232 - / - / - (331) - 3,0
18 x 12	457 x 305	T - EN 490 - NL - 0 - IF - 311 - / - / - (407) - 4,8
18 x 18	457 x 457	T - EN 490 - NL - 0 - IF - 464 - / - / - (407) - 7,2
24 x 18	610 x 457	T - EN 490 - NL - 0 - IF - 468 - / - / - (560) - 10,6
27 x 18	686 x 457	T - EN 490 - NL - 0 - IF - 468 - / - / - (636) - 12,2
STANDARD VERTICAL CLADDING SLATES		
13 x 9	330 x 229	T - EN 490 - NL - 0 - IF - 232 - / - / - (280) - 2,6
15 x 9	381 x 229	T - EN 490 - NL - 0 - IF - 232 - / - / - (331) - 3,0
13 x 12	330 x 305	T - EN 490 - NL - 0 - IF - 311 - / - / - (280) - 3,5
18 x 12	457 x 305	T - EN 490 - NL - 0 - IF - 311 - / - / - (407) - 4,8

RANDOM WIDTH SLATES

Slates are available in the following sizes: (length x width): 18 x 12 (457 x 305mm); 18 x 15 (457 x 381mm); 18 x 18 (457 x 457mm)

Verge slates: 18 x 27 (457 x 686mm)
 Under Eaves: 12 x 18 (305 x 457mm)
 Top Course: 13 x 12 (330 x 305mm)
 Numbers per size: Random a third of each size
 Minimum pitch: 25°

HEADLAP All sizes 75mm. Gauge common to all sizes 191mm maximum.

SIDE LAP Never less than 100mm.

WEIGHT OF RANDOM SLATES 83kg per square metre.

HIPS AND VALLEYS Purpose made to pitch.

HARDROW SLATES FIXING For pitches below 40° it is possible to hang the slates, depending on conditions, but advice should be sought from the Forticrete Technical Department. Above 40° all slates should be nailed into the batten with 2 x 40mm x 3.35mm aluminium nails (40mm x 4mm for 24 x 18 slates). The nail hole diameters are approximately 5mm with the nail holes being approximately 50mm down from the heads of the slates and 50-100mm in from the side edges.

Order your **HARDROW**® from:
 ·SLATES·

Approved stockist

Working Procedures, Safety & General Precautions

Tiles should be fixed in accordance with BS 5534:2003. Forticrete recommend that fixers of all slates and tiles regard the products as fragile as stated in BS8000:Pt6:1990 Section 5. During installation of the products, the correct setting out and working procedures should be employed to avoid walking directly on to products which have been fixed or are on any completed area of a roof. Should it be necessary to gain access via the roof where battens of adequate strength cannot be used as footholds, this should not be attempted without the use of adequate protection to the tiles or slates including the required number of crawling boards, ladders and cat ladders.

Please note that where there is a change of pitch, packing may be required between crawling boards, cat ladders and the surface of the tiles or slates to avoid damage to the product.

Fixers should note that Forticrete do not recommend the practice of cutting tiles or slates in-situ.

Other information can be obtained from the Health and Safety in Roof Work publication HSG33 and in the 'Working on Roofs' publication INDG284. Reference should also be made to the Forticrete Technical Literature and Fixing Instructions.



A CRH plc company

For sales & product enquiries contact:
 Forticrete Ltd., Boss Avenue, Off Grovebury Road,
 Leighton Buzzard, Bedfordshire LU7 4SD.
Tel: 01525 244900, Fax: 01525 850432,
 E-mail: roofing@forticrete.com

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For technical information, call the Forticrete Technical Hotline:
 FREEPHONE 0800 262136, Fax: 0151 524 1265
 or E-mail at Technical@Forticrete.co.uk.
 Internet: www.forticrete.co.uk