

SIGA

Man-Made Slate

Product Data Sheet Smooth Square Edge

CLASSIC RANGE

Description

SIGA Man-Made Smooth Square Edge slates have a smooth surface with square edges. An ideal option if looking for a cost effective alternative to natural slates.

Available in blue-black colour, Smooth Square Edge slates are easy to install, lightweight, do not require grading and are easy to cut, making them a popular option for intricate roof designs.

Conforming to the strongest class, class B in accordance with BS EN 492:2012+A1:2016, our Smooth Square Edge slates come with a 10 year colour and 30 year structural stability guarantee.

Testing

SIGA Man-Made slates have been tested in accordance with, and comply with the relevant sections of EN 492:2012 + A1:2016 – Fibre-cement slates and fittings - product specification and test methods. The latest declarations of conformity are available upon request and should you require detailed information on EN 492:2012 + A1:2016, please contact your SIGA Man-Made Slate representative.



COLOUR:
Blue-black

TEXTURE:
Smooth surface with square edges

THICKNESS:
4mm

SIZES AVAILABLE:
Single 60 x 30
Double 60 x 60



Representative Performance

Dimensions		Tolerances
Length	600 mm	± 3 mm
Width	300 or 600 mm	± 3 mm
Thickness	4 mm	- 0,4 mm / + 1,0 mm
Squareness	≤ 2 mm	≤ 2 mm
Mechanical characteristics	Standard	
Bending moment h ≤ 350 mm	30 Nm/m	EN 492
350 < h ≤ 450 mm	40 Nm/m	
450 < h ≤ 600 mm	45 Nm/m	
Elasticity modulus (wet)	ca. 16.000 N/mm ²	
Coefficient of thermal linear expansion α	7,5 x 10 ⁻⁶ m/mK	
Durability		
Water impermeability	OK	EN 492
Wet-dry cycles	L ≥ 0,75	
Warm water	L ≥ 0,75	
Frost-thaw cycles	L ≥ 0,75	
Warmth-rain cycles	L ≥ 0,75	
Reaction to fire		
Class	A2-s1, d0	EN 13501-1
Physical characteristics		
Density (oven dry)	ρ ≥ 1.700 kg/m ³	
Weight (moisture content: 12%)	8 kg/m ²	
Coefficient of heat conductivity: λ	0,72 W/mK	
Water uptake (painted slates)	< 4% (Weight)	
Paint adhesion	Class 0	EN ISO 2409

Product Data Sheet

Technical Specifications

Fixing

SIGA Man-Made Smooth Square Edge slates must be laid in accordance to BS 5534:2014 (Code of Practice for Slating and Tiling), BS 8000-6 (Workmanship on building sites. Code of practice for slating and tiling of roofs and claddings) guidelines.

In general, the slates are fixed with two nails and a disc headed rivet. The disc rivet holds together the tail, on the centre-line of each slate, to the two slates in the course below, through the gap between them. The nails must comply with BS EN 1202-2 and 3. The nail shank should be not less than 2.65 mm and the length should be approximately 30 mm so a penetration of at least 15 mm into the batten is provided.

Use disc rivets with stem of minimum 19 mm long and diameter less than 2 mm. The disc base of the disc rivet should be formed of 0,5 mm thick copper sheet and have a diameter of minimum 19 mm. Use high quality copper disc rivets, to obtain sufficient uplift resistance. Disc rivets are bent downwards; not too tight, so some movement of the slate is still possible.

The exposure conditions, the roof pitch and the height of the building determine the requirements for the fixing of the slates.

The number of applicable fixings can be found in the chapter about slating systems (see § 3).

Some remarks:

- building height \leq 12 m
- in the edge areas or the areas surrounding roof punctures, all slates within 1 m have to be fastened with at least 2 nails

With façade cladding wrap hooks are recommended instead of drive hooks. For large façades (height > 5 m) wrap hooks are strongly recommended. The wrap hook needs to be adjusted to the thickness of the batten + the thickness of one slate.

The fixings and other metal accessories, that are used for fixing and finishing, must be made from a metal that is compatible with the slates and accessories.

Warranty

SIGA Man-Made Slate warrants its fibre cement slates and accessories insofar as the storage, treatment, construction and maintenance of the slates and accessories take place in accordance with the rules and the guidelines of our most recent applicable technical specifications, all of which under normal atmospheric conditions and conditions of use. The warranty conditions which must be met in order for the warranty to be fully applicable are mentioned in the warranty statement.

This statement is available on request.

Storage and transport

SIGA Man-Made slates should not be allowed to become wet during storage or transport as this may cause efflorescence staining as a result of water accumulating between the slates' surfaces. If stored outside for short periods, the hood should be removed and the slates should be covered with a vapour-open, watertight tarpaulin.



CLASSIC RANGE | SMOOTH SQUARE EDGE

Available at:

FOLKESTONE
Tel: 01303 226888

TUNBRIDGE WELLS
Tel: 01892 515599

MAIDSTONE
Tel: 01622 843399

GRAVESEND
Tel: 01474 532999

SITTINGBOURNE
Tel: 01795 843967

RAMSGATE
Tel: 01843 592772