

Alterna Fibre Cement Slates



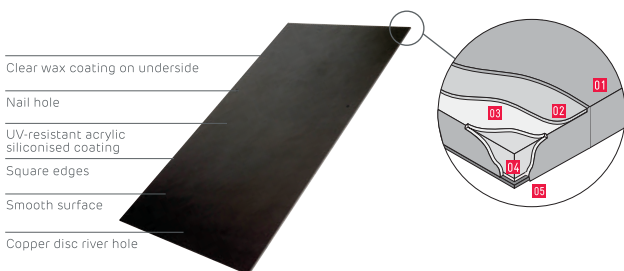


Marley Alterna slates, combine the best of both worlds – a highly functional and versatile roof and wall covering solution, able to deliver outstanding clean and modular aesthetics.

Marley Alterna Fibre Cement Slates

Marley Alterna Slates provide the best-in-class Fibre Cement roofing solution, meeting the highest performance in durability and aesthetics.

Anatomy of an Alterna Cement Slate



Fibre cement slate coatings

- 01** UV-resistant acrylic siliconised coating
- 02** Primer coating
- 03** Secondary coating (cement/pigment/iron oxide)
- 04** Fibre cement base sheet
- 05** Clear wax coating

Advantages

- > Modern Aesthetic – Produces clean modern roof line
- > Ultimate Assurance - Service lifespan of over 30 years
- > Extreme Durability - Coated with an acrylic siliconized coating producing a highly durable surface finish which is more water repellent
- > Exceptional Cool Roof Solution - Unaffected by a range of climatic temperatures (-20°C to +70°C)
- > Ultra Versatile - Non-combustible and unrestricted usage on roofs and walls
- > Superior Strength - Higher density and higher fibre content

Technical Information

Technical Data	
Size of slate	600 x 300 mm
Minimum Pitch	17,5° (110mm headlap)
Maximum Pitch	90°
Density	Min. 1750kg/m ² per nominal thickness of 4mm
Fire Resistance	Non-combustible
Heat / Frost	Unaffected (-20°C to +70°C)
Strength	Ave > 45Nm/m
Typical laps	100, 110mm
Batten Gauge	245-250mm
Slate Thickness	4mm
Covering Capacity	13,4 tiles/m ² (net) at 100mm headlap
	13,6 tiles/m ² (net) at 110mm headlap
Weight of Slating	+ - 20,4kg/m ² (0.20 kN/m ²) at 100mm lap
	+ - 20,9kg/m ² (0.20 kN/m ²) at 110mm headlap
Battens Required	4,00 lin.m/m ² at 100mm headlap
Batten Size Recommended	
38 x 38mm for rafters/support not exceeding 450mm centres	
50 x 38mm for rafters/support not exceeding 600mm	
Thermal Resistance (R-value)	
0.011m ² K/W (For the purpose of thermal transmittance calculations, The R-value should be substituted by 0.12m ² K/W which includes the roof covering and airspace behind the slates.	

A high standard of finish can be accomplished if the supporting structure is precise and level. Inferior battens or trusses will reflect negatively on the finished plane of the roof.

Marley Alterna Slates are manufactured using cement, water, selected cellulose and plyometric fibres, bonded together using the Hatschek rotational cylinder process compliant to EN492 standard, Type NT, 4,0mm thick, with a nominal density of 1930/m³.

Marley Alterna slates have a smooth surface with a square edge and are offered with a 20 year manufacturer's colour guarantee due to our siliconized painting process and a 30 year structural guarantee. (Terms and Conditions apply).

Our products are independently certified as meeting requirements of ISO9001 (quality), ISO 14001 (environment), OHSAS 18001 (safety) and BES 6001 (responsible sourcing.)

Colour Range

> Marley Alterna Slate Black



Installation Guidelines

Slate Dimensions:

Table 1: Slate dimensions

Size of slate (mm)	Typical laps (mm)	Gauge of battens (mm)	Battens per m ²	No. of slates (per m ²)	Weight of slates as laid (kg/m ²)
600 x 300	110	245	4.08	13.6	20.9

Lap Treatments:

Please note that information presented here is for normal weather and wind conditions. All design factors are dependent on pitch of roof, exposure of the site, site elevation, near coastal build, heavy rain or snow, length of rafters and other external component, the advice contained here-in is subject to final approval from an Architect or Engineer.

Marley Alterna Fibre Cement Slates: Normal Exposure

Size of slate (mm)	25° -30° (mm)	30° -35° (mm)	>35° (mm)
600 x 300	110	100	90

Marley Alterna Fibre Cement Slates: Severe Exposure

Size of Slate (mm)	25° -30° (mm)	30° -35° (mm)	>35° (mm)
600 x 300	110*	110	100

Windloading

Size of slate	Maximum wind suction loading**
600mm x 300mm	2000 N/m ²

Battens:

All timber used in structural applications shall be seasoned (where the maximum moisture content does not exceed 17%) in accordance with SANS 1783-1.

Only timber that is stress graded in accordance with SANS 1783-2 and SANS 1783-4 for structural applications should be used. All timber shall be treated against termites, woodborer attack and fungal decay – the treatment shall be in accordance with SANS 10005.

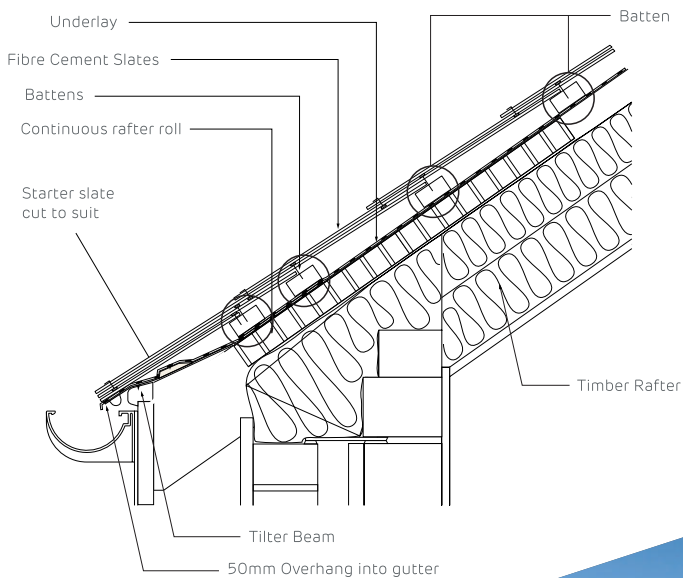
Batten Size

Rafter spacing (mm)	Recommended batten size(mm)
Up to 600	38 x 38
601 - 900	38 x 50
901 - 1100	50 x 50

Section through roof:

25mm over fascia eaves vent system

Warm roof construction*



We are all about convenience, hence we have included our product description and code below to make ordering of this product as easy as possible.

MARLEY ALTERNA FIBRE CEMENT SLATES

PRODUCT DESCRIPTION	PRODUCT CODE
ALTERNA ENDUR 600X300 S/BLACK	158245



We know how important it is to find practical information and to keep up with the latest development in Roofing. Visit our website or scan the QR code for more information on the latest in Roofing news, product and tips.

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