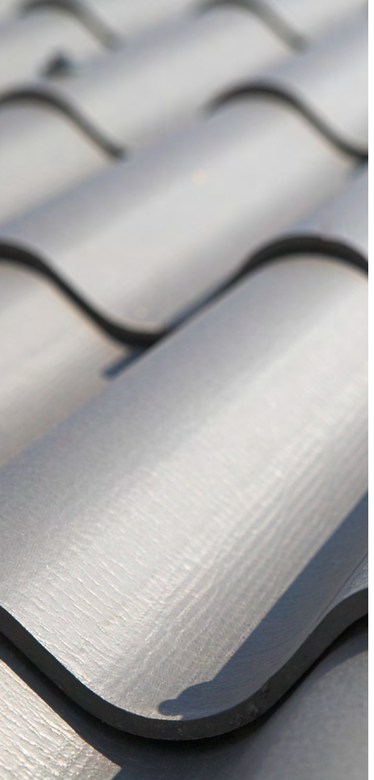


Mitring scheme

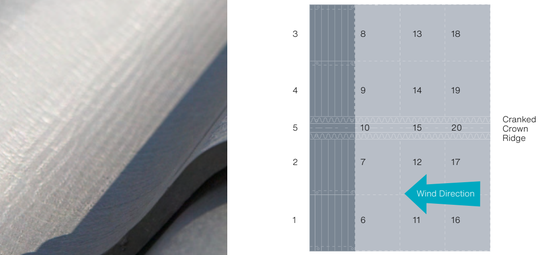
To avoid having 4 layers of overlapping roof sheets, the corners of two sheets must be mitred.

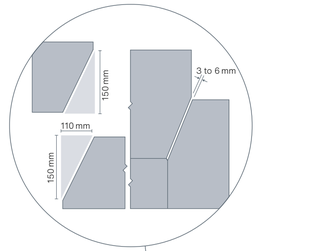
Each mitre must be cut straight and cleanly either by hand or by power saw. The angle and size of mitre is governed by the end and side lap dimensions. It is recommended that a good quality butyl mastic strip is used to seal the overlapping sheets to provide a weatherproof join. Two corners of opposing sheets should be mitred the equivalent of the head and side lap (i.e. maximum 110 mm x 150 mm) with a gap between sheets of 3 – 6 mm.

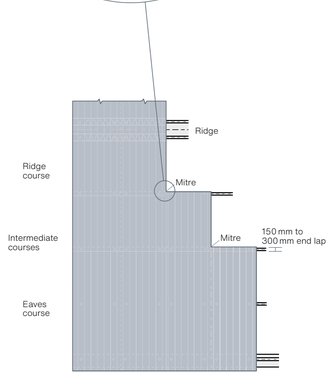
Sheets on the perimeter of the roof will have one mitre (except the first and last sheets which remain complete), all other sheets will therefore have two mitres.

Sheets are laid from eaves to ridge one column at a time, with the side lap corresponding to the prevailing wind direction. On duo pitched roofs opposing columns of sheets should be installed sequentially to assist in locating the cranked crown (see below).

Laying Sequence



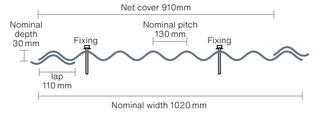




Installation & sealing end laps

Profile specification comparison

	Existing 3" profile	New B5 profile
Cover width	651 mm	910 mm
Width	782 mm	1200 mm ($^{+10}_{-5}$)
Side lap	131 mm	110 mm
Min. end lap	150 mm	150 mm
Max. purlin centres	925 mm	1200 mm
Overhang	250 mm	250 mm
Thickness	5.8 mm	6 mm ($^{+0.6}_{-0.6}$)
Density	1400 kg/m³	1400 kg/m³
Weight of roof (with 150mm end laps)	14.5 kg/m²	13 kg/m²
Pitch of Corrugations	72.3 mm	130 mm ($^{+5}_{-5}$)
	25.6 mm	36 mm ($^{+3}_{-3}$)
Min. pitch*	10°	5° see below
Fixing points	2nd and 9th corrugation	2nd and 6th corrugation



(Every sheet should be twice fixed at each purlin)

Pre-drilling

It is extremely important that the correct roof purlins/rail system, type of fixing and washers are selected, to eliminate leakage/corrosion and the general deterioration of the construction. It is recommended that a self-drilling Top-Fix screw is adopted. This simple method offers a fast, low-cost fixing solution. Using a high-speed screw gun, drive in the fixing. The fixing system is only suitable for roofs up to and including 30° pitch.

To achieve a watertight and weathertight seal, it is important to confirm that the sealing washer is correctly tightened. Not over tight, not too loose. After a period of time, when the material has settled, the fixings may require re-tightening with hand tools. Be sure to use roof ladders to avoid walking on the roof sheets.

NEVER fix side laps together as this prevents thermal movement and can cause sheets to crack.

Using a tungsten carbide tipped drill at 90° angle to the sheet, drill a hole 2mm larger than the selected fixing. The drill point should be no less than 60° to the sheet. Always drill at the 'apex' of the profile. Do not fix a sheet in the 'valley' or on a 'slope' of the profile.

NEVER hammer fixing through the sheet. This will invalidate the guarantee. Fibre-cement sheets will shatter under impact and subsequently allow water to penetrate the apparent fixing. **ALWAYS** pre-drill.

Fixings

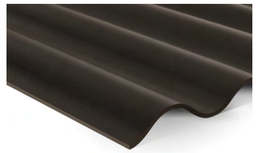
For timber construction, fixings should be at least 90 mm long and 6 mm diameter drilled at least 40 mm into purlin.
For steel construction, fixings should be at least 90 mm long and 5.5 mm diameter.
All fixings should be used with an aluminium or EPDM washer and bituminous gasket or plastic cap.
Maximum purlin centres – 1200 mm.

* Minimum pitch – for small roof areas such as domestic garages pitches below 10° can be accommodated. End laps need to be extended to 300 mm and be double sealed with mastic strips.

SWISSPEARL

B5 Corrugated Sheet

B5 Corrugated Sheet



Swisspearl B5 is a corrugated fibre cement board with timeless aesthetics and durable quality. A colour spectrum of saturated, natural tones and subtle shades of grey to black allows for versatile use.

B5 offers a durable and economical solution for large roof areas in particular. The corrugated sheets are quick to install and easy to replace if damaged. They are weather-resistant, storm-proof and the diffusion-open material minimises condensation. In addition, noise is minimised in the event of weather influences such as wind, rain or hail, which contributes significantly to animal welfare when roofing stables.

Colour options


Natural Grey


Blue Black


Black

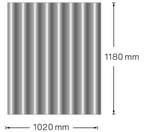

Tile Red

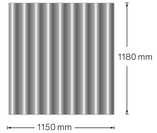

Red


Mocca


Olive Green

Technical data





Panels
Base panel: Grey based.
Coating: Opaque.

Panel format
Wave height 36 mm,
W130-8 1020 x L mm,
W130-9 1150 x L mm,
panel thickness 6 mm.

For a detailed summary of the sizing and colour options, please refer to our website.

Quality Assurance
B5 corrugated sheets are manufactured in accordance with a quality assurance system to BS EN 9001:2015 and to the requirements of BS EN 494:2012.

Environment
B5 corrugated sheets are manufactured in accordance with the requirements of BS EN 14001:2015.

Technical data
Detailed information can be found in the "DIM – Design and Installation Manual".

Accessories

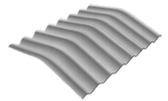
Cranked Crown Ridge

One piece close fitting ridge.

Available in 300 × 300 wing in 5°, 12.5°, 20°.

Length: 1020 mm

Net cover: 910 mm



Two-piece Close Fitting Ridge

Two piece ridge fitting adjustable to roof pitches not covered by standard cranked crown ridge.

320 mm wing

Net cover: 910 mm

Plain Wing Angle Ridge

Can be used to create high level ventilation

300 × 300 wing
5° to 60° in 5° increments

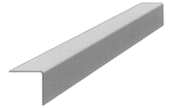
Length: 1200 mm

Net cover: 1080 mm

Cemsix Barge Board

Used to close verge at gable ends. Nominal 200mm wing for single skin constructions and 300 × 300 mm for double skin.

Lengths: 2400 and 3000 mm



Cemsix Roll Top Bargeboard

Used to close verge at gable ends. Nominal 200mm wing for single skin constructions and 300 × 300 mm for double skin.

Lengths: 1800 mm
(300 × 300 mm only),
2500 and 3000 mm

One-piece Finial

Closes verge apex when plain wing bargeboard is used.

320 × 370 mm

Two-piece Roll Top Finial

Closes verge apex when roll-top bargeboard is used.

200 mm wing × 360 mm deep
300 mm wing × 500 mm deep

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