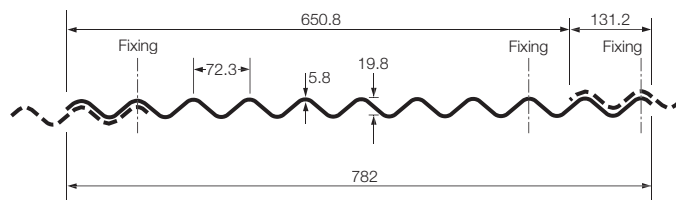


Profile 3 installation guide

Key facts

- Minimum pitch: 10° (176mm fall in 1m)
- Maximum purlin centres: 925mm for loadings up to 1.79kN/m² (multiple span) or 1.49kN/m² (single span).
- There must always be 2 fasteners per sheet per purlin, no more and no less.
- Do not walk on the sheets – always use crawling boards, roof ladders, etc.



Lap requirements

Establish the requirement for lapping and sealing by reference to the map of the UK right and the tables below.

Sheltered to moderate sites

Less than 56.5 l/m² of wind-driven rain per spell.


Minimum Roof pitch	Minimum End lap	End laps treatment	Side laps treatment
≥22.5°	150mm	Unsealed	Unsealed
≥15°	300mm	Unsealed	Unsealed
≥15°	150mm	Sealed	Unsealed
≥10°	150mm	Sealed	Sealed

Moderate to severe sites

More than 56.5 l/m² of wind-driven rain per spell.



Minimum Roof pitch	Minimum End lap	End laps treatment	Side laps treatment
≥25°	150mm	Unsealed	Unsealed
≥17.5°	150mm	Sealed	Unsealed
≥15°	150mm	Sealed	Sealed
≥10°	300mm	Sealed	Sealed

Buildings that stand above their surroundings, or are in area with no windbreaks within 1km, such as on coasts or hilltops, should be considered to be in areas of severe exposure.

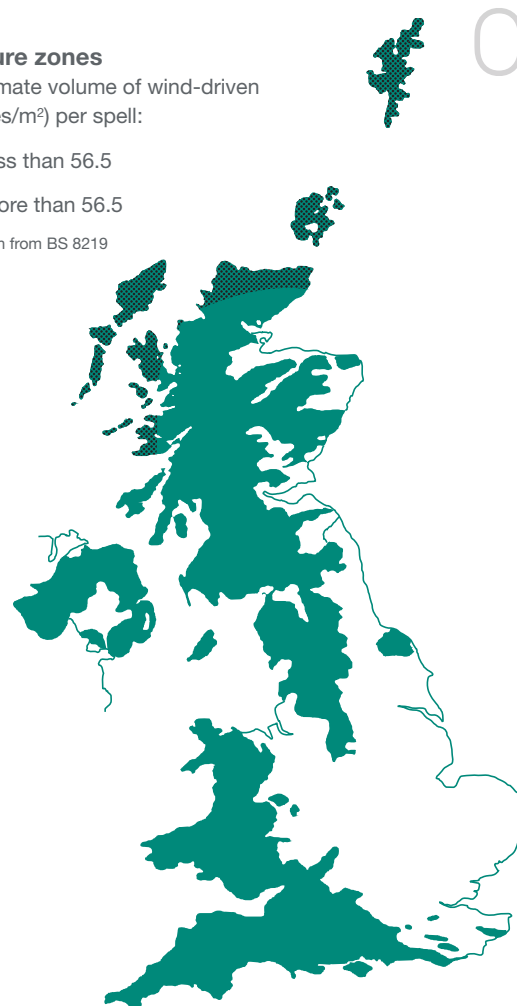
For buildings in the North and West of Scotland and the Isles, denoted on the map by  refer to the Highlands and Islands data sheet.

Exposure zones

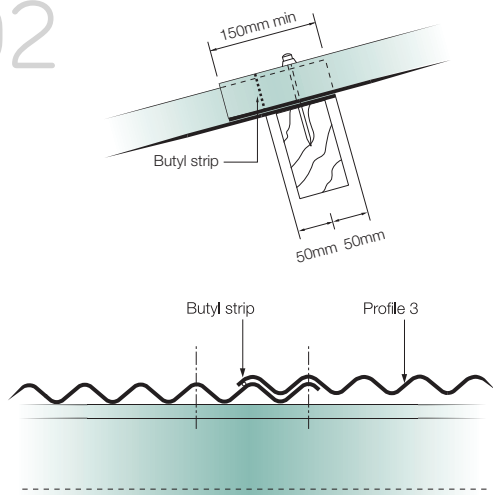
Approximate volume of wind-driven rain (litres/m²) per spell:

-  less than 56.5
-  more than 56.5

Note: Taken from BS 8219



02



Sealing

Lap sealant to be 6mm diameter butyl strip sealant, positioned as shown above. Gun grade sealants are not suitable.

03

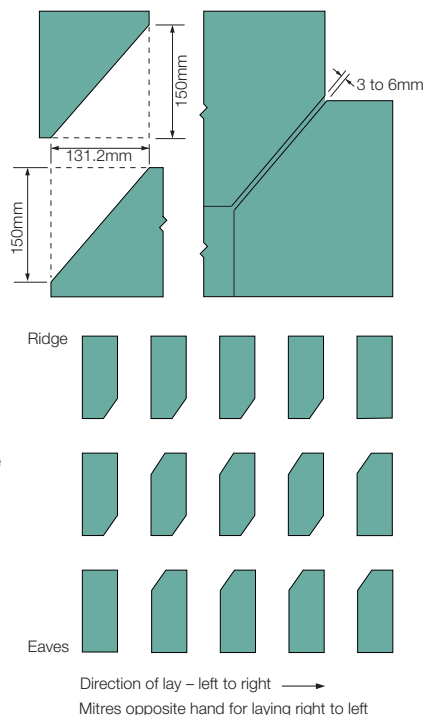
Laying the sheets

Sheeting on both slopes should commence at one end of the building, rising in vertical tiers, 1 sheet wide from eaves to ridge.

04

Mitres

To avoid 4 thicknesses of sheet at the junctions of side and end laps, 2 of the sheets have the corners mitred so they lay in the same plane. The nominal dimension of the mitre cut is the side lap (131mm) x the end lap (minimum 150mm). The gap between the mitre cuts of the 2 sheets should be 3-6mm.



05

Fasteners

There must be 2 fasteners per sheet per purlin. Holes through the sheet must be drilled, never punched, and be 2 mm larger than the fastener diameter.

6.5 x 90mm topfix fasteners for timber are commonly used as these drill through the Profile 3 sheet, open up the oversize hole and drill into the purlin. They also have an integral sealing washer.

Traditional fasteners, such as M6 x 80mm drive screws for timber, crook bolts for zed purlins and hook bolts for angle section purlins, should be used with sealing washers and caps.

The fasteners should be positioned on the first full corrugation to the side of the side lap (see opposite page). At end laps, the fasteners should be 50mm from the top end of the lap.

For vertical sheeting contact Marley Eternit for further advice.

Call 01283 722588
 Email info@marleyeternit.co.uk
 Or visit www.marleyeternit.co.uk



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