

Profiled Sheet – UrbanPro Material Information Sheet

TECHNICAL
NOTE
UKEt-05/01/en/v0

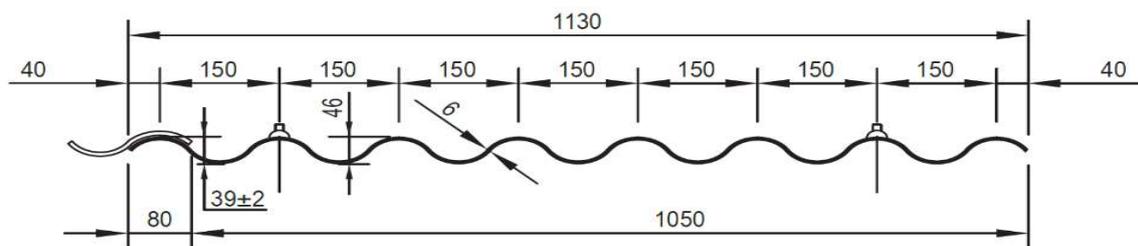
Working with UrbanPro

The recommendations of HSG 33 should be followed at all times: Fitters of UrbanPro must at all times use scaffolding platforms, planks or ladders and these must not lean directly against the corrugated sheets. Safety structures must cover the entire working area, including many building elements (load bearing structures must be used), and must be arranged in such a way that both ends are firmly held in place and a lever effect is avoided. When relocating safety measures to the next work area on the roof, fitters must not lean against the roofing.

UrbanPro sheets are classified as fragile, Do **not** walk on the sheets – always use crawling boards, roof ladders, etc.

Technical Data

UrbanPro sheets are made of: Cement; Cellulose; Water; Lime; Silica; Synthetic fibres (PVA).



	UrbanPro
Overall width	1130 mm
Net covering width	1050 mm
Thickness	6.0 mm
Density	≥ 1.4g/cm ³
Pitch of corrugations	150 mm
Depth of profile	41 mm
Profile height category	B
Side lap	80 mm
Minimum end lap	150 mm
Maximum purlin centres	1000 mm
Maximum unsupported over hang	250 mm
Approx. weight of roof as laid, with 150mm end laps, single skin including fixings	— 15.2kg/m ²
Minimum roof pitch	7°

Fixing guidance

All sheets must be fixed in accordance with the recommendations of BS 8219.

Profiled sheeting should always be fixed with 2 fasteners per sheet per purlin, with maximum 1000mm purlin centres.

The selection of the correct sheet fastener is extremely important. The integrity of the roof covering, type of purlin or rail system, and weatherproofing with washers and caps all must be considered to avoid premature failure, corrosion, or a leaking roof.

Lap requirements

Establish the requirement for lapping and sealing by reference to the map

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
≥7°	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
≥7°	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.



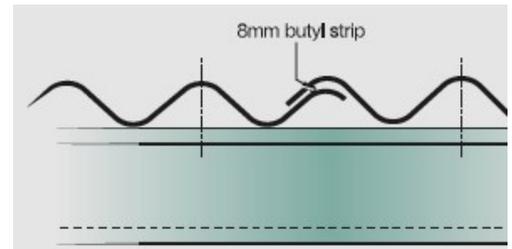
Note: When buildings stand above their surroundings or are situated in open country with no windbreaks within 5km of the sea, they should be considered subject to severe exposure conditions. Source: SR82.

It is important to select a good quality sealant. Inferior sealants can lead to cracking, chalking and failure in use. For best results, BS 8219 recommends a pre-formed 8mm diameter mastic ribbon of butyl or a polyisobutylenebased material, which has a rubbery, tacky consistency, and which will adhere to both surfaces when sheets are overlapped.

Side Lap –

When sealed side laps are required, butyl strips should be positioned as shown in Fig.1

Fig.1



End laps

The minimum end lap for UrbanPro is 150mm

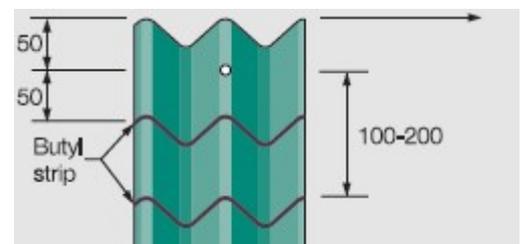
Single sealed end laps

Butyl strip sits 50mm below fixing point

Double sealed end laps

Where double sealing is necessary, with a 300mm end lap, the second butyl strip should be positioned 100 to 200mm below the fixing, as shown in Fig.2

Fig. 2



Topfix fasteners

Self-drilling, self-tapping 'topfix' fasteners are generally used to fix UrbanPro sheets to the purlins (Fig. 4). These fasteners drill through the profile sheet, creating a 2mm oversize hole and self tap into the purlin. It is important that the fasteners are installed using the correct power tools, which should have an adjustable depth setting device to ensure the washers are seated correctly. The fasteners typically have different drill points to suit the different purlin types:

When following the recommendations of the fastener manufacturers, please give particular regard to minimum purlin thickness and maximum roof pitch.

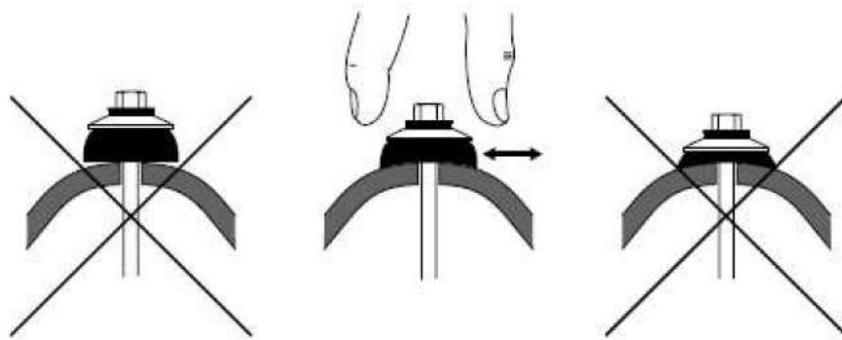


Fig. 4 Checking the topfix fasteners for tightness

Setting out of the roof

Checking the structure -

Before sheeting is commenced, the structure should be checked to ensure that all purlins and rails are in a true plane, correctly spaced and securely fixed and adequately restrained.

Laying the sheets –

All UrbanPro sheets are pre-mitred ready for sheeting right to left only.

Roof sheeting for UrbanPro sheets should commence from the right hand side of the building at eaves level, rising in vertical tiers, one sheet wide, from eaves to ridge.

The end laps of each row of sheets should form a continuous straight line from gable to gable and must not be staggered. Similarly, the side laps should be aligned from eaves to ridge.

Mitring

UrbanPro sheets are factory mitred, meaning the sheets can only be laid right to left on both roof slopes.

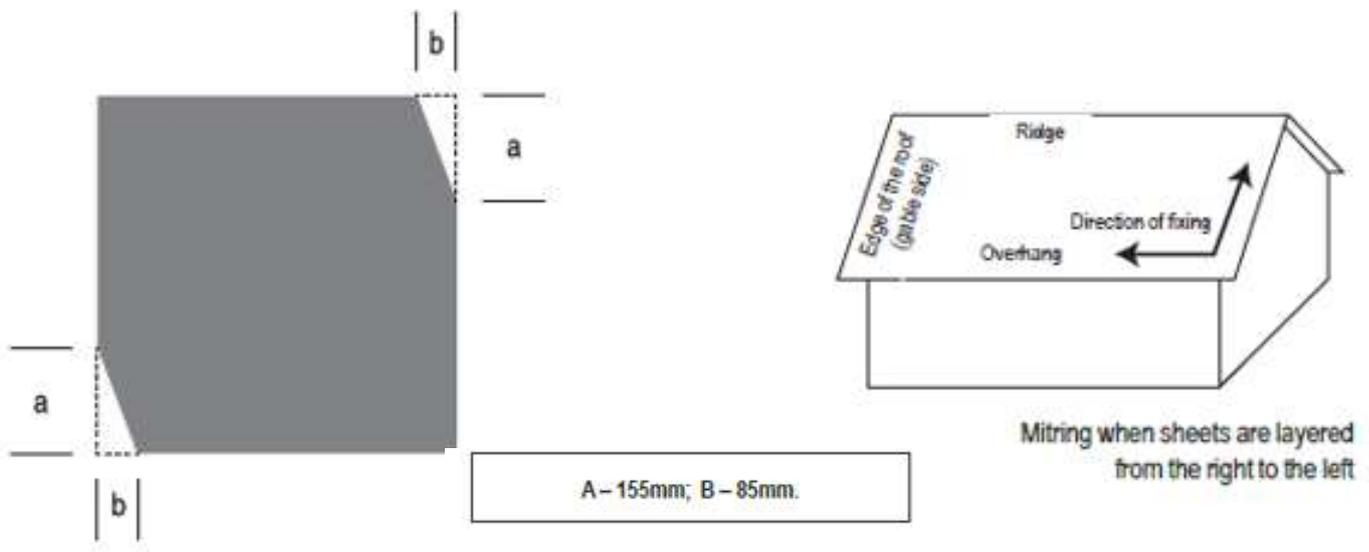
Mitring is required to avoid four thicknesses of sheeting at the junctions of side and end laps, it is necessary for two of the sheets at each junction to be mitred at the corners so that they lie in the same plane.

Mitres on UrbanPro sheets should be cut from a point 155mm up the vertical edge from the corner (or the amount of the end lap) to a point 85mm along the horizontal edge, i.e., the width of the side lap by the length of the end lap.

Ideally, the gap between mitres should be a minimum of 3mm to a maximum of 6mm. Box mitres should be avoided. The mitred joint is covered top and bottom by the other two sheets and is thus weatherproof and unseen.

(See typical mitring details below.)

Note: Mitres must not be cut in situ.



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