LIGHTWEIGHT PURLINS

L (Length)	5800 mm
H (Total height)	38 mm
Thickness	0.5 mm
Coating Details	Az150 150 gm/sqm

FEATURES

- Lightweight
- Corrosion Resistant
- Cost Effective
- Eco-Friendly
- Professional Quality

BENEFITS

- Easy to handle and simplify transportation
- Durable and adaptable to all weather conditions
- Brings down the overall cost of roofing and allows intelligent use of other lightweight materials
- Reduction in carbon emissions through more efficient transportation cost

WHY LIGHTWEIGHT PURLINS ?

Purlins traditionally support the roof deck / cladding / sheeting and are in turn supported by the principal rafters / steel beams etc. Lightweight purlins is a cost effective structure that provides the basis for a perfectly straight roof. The steel sections are sufficiently ridged to ensure a perfect base for roof cladding. Steel does not tend to warp with age and a high quality finish is maintained over the full life span of the building.

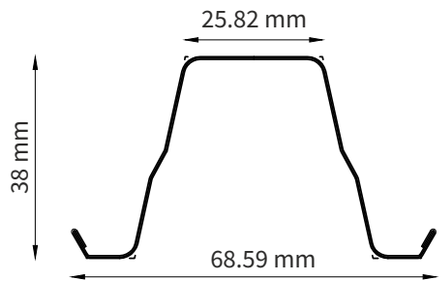
The fact that the purlin is very light in comparison to other types available in the market, makes it ideal for manual handling on site and speedy erection. Lightweight purlins, in most instances, offer a cost advantage over other roofing structures. The fact that it is easily assembled on site leads to a significant saving on transport costs.

Technical Specifications

L (Length)	W (Top width)	W1 (Base width)	H (Total height)	Thickness	Weight	Coating Type	Coating Details
5800 mm	25.82 mm	68.59 mm	38 mm	0.5 mm	0.5 kg/m	Zinc Aluminum	Az150 150 gm/sqm

Material Specifications

Yield Strength	550 MPa
Point Load (Purlin supported at 3 span)	1.6 KN (At a rafter span of 800mm)
Uniformly Divided Load	3.3 KN (At a rafter span of 800mm)



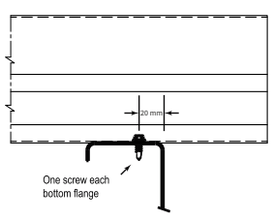
Installation Guidelines

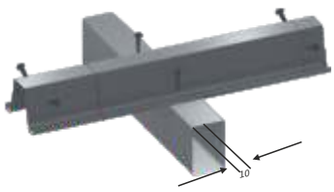
- **Fixing**

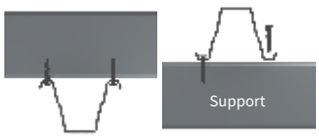
Always use the correct size and quantity of fasteners as specified. Screws at connections must be directly in line (parallel with the supporting member). One screw to be fastened on each side of purlin at the point of connection with rafters.

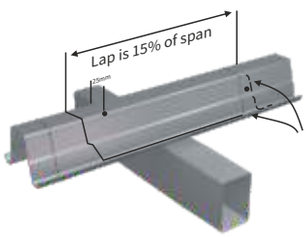
- **Laps**

Structural laps for Lightweight purlins require a minimum 15% lap length. End fastenings of Lightweight purlins should be 25mm from the section end irrespective of whether this occurs at the structure end or at an internal support.





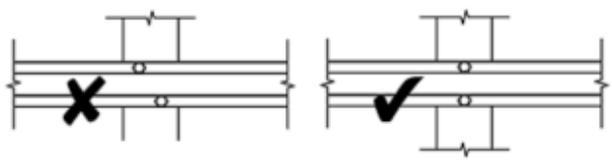




Installation Specifications

- **Fixing**

Minimum 15 cm of overlap is recommended, with minimum 4 screws per overlap. "The recommended screw size is 5mm diameter with minimum 20mm length.



- **Span**

Maximum span of rafters is 800 mm.

- **Welding**

We do not recommend the welding of lightweight purlins.
It should only be screw fastened to the supporting structure.

- **Cutting**

Cutting is preferably done by shear or hacksaw. When using abrasive disc blades care must be taken to ensure the swarf produced does not affect other materials and the burred edge should be cleaned off at the completion of cutting.

Handling and storage

Lightweight purlins must be kept dry during storage. If they become wet they should be separated and stacked openly to allow for ventilation to dry the surface.

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Onduline®
Lightweight roofing systems