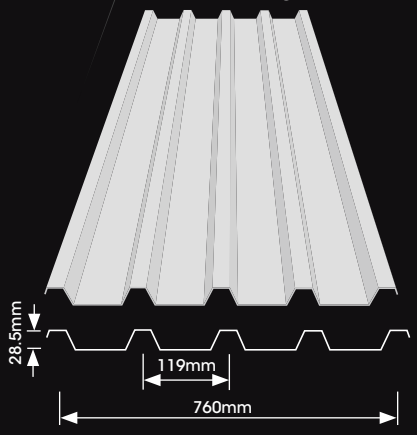
ProSpan 762

Widespan is a pierced fix metal roof sheeting system. Designed for commercial and industrial use at medium roof angles. This trapezoidal box rib product consists of 4 pans each with a stiffening rib. Widespan has five ribs, each 28.5mm high.



Cover width: 760mm
Total width: 810mm
Coil width: 925mm
All dimensions given are nominal
Minimum Pitch 7.5° (approx. 1 : 7.5)

FEATURES

- Wide cover – fewer sheets and quicker installation than IBR or Corrugated Iron 8.5.
- High ribs – 28.5mm stronger and stiffer with better water carrying capacity than Corrugated Iron; roof slope can be as low as 7.5° for sheets shorter than 30m.
- Easy to install.
- Structurally stronger than Corrugated Iron.
- Aesthetically as pleasing as IBR and covers the same as Corrugated Iron 10.5.
- Optimum Wind Load Resistance (WLR) – Improved security and peace of mind.
- Can be spring-curved or draped onto a 26m radius in the convex and 56m in the concave.
- Can be factory-cranked to a minimum radius of 450mm.

APPLICATIONS

Widespan is ideal for residential, commercial and industrial roofing applications. Its excellent strength in spanning and fast erection time makes Widespan economical from a structural and erection point of view. The narrow pans of pierced fix profiles are resilient against oil canning and is thus recommended for any application where aesthetics is a consideration.

SHEET TOLERANCE

Sheet width: ± 4mm
Sheet length: +5mm, - 0mm.

MATERIAL OPTIONS	Steel	Aluminium
Thickness (mm)	0.5 0.55 0.58 0.8	0.7 0.8
Nominal weight/square metre (kg/m²)	5.03 5.44 5.86 7.92	3.1 3.8
Draped curved roof - min. radius (m)	26 convex 56 concave	26 convex 56 concave
Purlin spacing's for drape curved roof (mm)	1500	1000
Crimp curved - min. radius (mm)	450 convex 450 concave	450 convex 450 concave
Unsupported overhang (2)	100 150 200 250	100 150

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ROOF PITCH

The rib height of Widespan enables this roofing system to perform safely at a minimum roof pitch (or roof slope) of 10° for sheets longer than 30m. If the roof sheets are shorter than 30m the roof pitch can go down to 7.5°. When Widespan roof sheets are end-lapped the roof pitch should be taken into account. The minimum end laps for roofs pitches in excess of 15° is 150 mm and for lower roof pitches a minimum of 250 mm is advisable. End laps for side sheeting should be at least 100 mm. It is recommended that end and side laps on low pitched roofs are sealed to ensure water tightness.

WIDESPAN LIMIT STATE LOAD / SPAN CAPACITY CHART

(span in mm, distributed serviceability and ultimate loads in kPa)

		3. Non-Access Roof or Wall → Side stitching necessary				
		2. Restricted-Access Roof → Side stitching necessary				
		1. Unrestricted-Access Roof → Side stitching necessary				
		2kPa				
G550 Steel 0.50mm	End Span	1200	1300	1350	1350	1400
	Internal Span	1300	1450	1550	1600	1700
G550 Steel 0.55mm	End Span	1300	1350	1400	1400	1450
	Internal Span	1500	1600	1650	1700	1750
G300 Steel 0.58mm	End Span	1400	1400	1450	1500	1550
	Internal Span	1600	1750	1850	1900	1800
G300 Steel 0.8mm	End Span	1700	1800	1900	1950	2000
	Internal Span	1650	1750	1950	2050	2200

NOTES

1. In any category, spans above the maximum shown should not be used. Category 1 and 2 maximum spans are based on static point load testing as a guide, and further limited by practical experience of roof performance under dynamic foot traffic loads. Category 3 maximum spans are limited as a guide to achieving satisfactory appearance for wall cladding.
2. Loads given are based on 6 screw fasteners/sheet/purlin.
3. Loads given are limited to a maximum of positive 2.5 kPa. If design requirements exceed this limit, contact Pro Roof for specific advice.
4. Polycarbonate – Serviceability limit state loads are not applicable to the Polycarbonate material, as it does not experience permanent deformation.
5. Ultimate loads limited by fastener pull out.

FASTENER DESIGN

Widespan should be fixed with screws to either timber or steel purlins. The use of the appropriate length of screw will prevent failure due to "screw pull-out" under normal loads.
We recommend a 12x85mm, self-drilling, class 3 TEK screw with a 19mm Ø bonded washer for steel or timber. If insulation is used over the purlins, screw length should be increased.

Over-tightening will cause dishing of the crest of the profile rib which could in turn lead to leaking.
Fasten Widespan sheets through every rib along the top and bottom sheet edges. Fasten sheet through every second rib on every purlin for internal spans. Use a staggered pattern to reduce the thermal expansion bulge.

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