



# Technical Information



Load Span Capabilities (Based on 1.5kPa distributed uplift load)								Curved roofing minimum drapecurve radius (m)	
Grade	1800g/m <sup>2</sup>	2000g/m <sup>2</sup>	2400g/m <sup>2</sup>	2800g/m <sup>2</sup>	3050g/m <sup>2</sup>	3660g/m <sup>2</sup>	3660g/m <sup>2</sup>	1800g/m <sup>2</sup>	2200g/m <sup>2</sup>
Sheet thickness	1.1mm	1.2mm	1.5mm	1.9mm	2.0mm	2.5mm	Ultra-Safe	1.1mm	1.3mm
Profile (to match)									
Corrugated, Custom Orb	1.000(s)	–	1.250	1.400	1.500	1.600	1.600	3.8	4
5 Rib (Trimdek etc)	1.200(s)	–	1.500	1.600	1.700	2.000	1.800	8	9
Plumbdek, Trimline	1.200(s)	–	1.500	1.600	1.700	2.000	1.800	8	9
MC700, MC750, MC770	1.200(s)	–	1.500	1.600	1.700	2.000	1.800	8	9
Ribline 960	–	–	1.500	1.600	1.700	2.000	1.800	8	9
Hi Five, Six Rib	1.200(s)	–	1.500	1.600	1.700	2.000	1.800	8	9
MC1000, Metric™, Windek™	1.200(s)	–	1.500	1.600	1.700	2.000	1.800	8	9
V Rib™	1200	–	1.500	1.600	1.700	2.000	1.800	12	14
ST7, Silbery7, LT7™, V8, ST900, Multirib, BB900™, MF 900	–	–	1.800	1.950	2.100	2.400	1.800	12	14
Multispan, MC930, Mega 5, Topspan™, Maxispan, SS900, RM900	–	–	2.200	2.400	2.600	3.000	2.500	16	18
Purlindek	1.900(s)	–	2.650	2.900	3.300	3.600	2.500	18	21
Concealed clip Deck Profiles	–	1.200(s)	1.500	1.550	1.700	2.000	1.600	16	18
Supersix	1.150(s)	–	1.500	1.550	1.650	1.950	1.900	16	17

Alsynite NZ Ltd has utilised the NZMRM Test bed facility to test industrial roof profiles in excess of 2.0kPa UDL. Product spanning can be increased by increasing the weight (thickness) of the sheet. Based on 1.5kPa UDL the information contained in the chart is relative to intermediate Purlins, where the sheeting is in single runs and is to be supported by the main roofing and cladding at each side lap. It is important that Purlin spacing be reduced for curved structures, and Alsynite NZ Ltd should be consulted for specific design criteria.

(s) Denotes standard translucent roof sheet weight ex stock. For all other profiles and weights contact Alsynite NZ Ltd.

## Profiles

All Topglass® products are available to match common roof profiles, subject to minimum quantity order and raw material availability.

## Colour Variation

Due to variations in raw materials shade variations can occur between manufacturing batches.

## Weight/Thickness of Sheeting

Alsynite GRP roofing products can be manufactured in varying thicknesses:

Roof profiles: 1800g/m<sup>2</sup> (1.1mm) – 3660g/m<sup>2</sup> (2.5mm)

## Sheet Lengths

As Topglass® products are manufactured in New Zealand, all roofing profiles can be manufactured to any length.

## Design Considerations

Metal roofing profile height is an important design consideration where GRP natural lighting will be installed in conjunction with long lengths of metal roofing. Very low roof pitches (5 degrees or less) combined with low profile metal roofing risk water ingress. Alsynite recommends in this instance roofing profiles with at least a minimum of 32mm should be utilised in these applications.

Please consult Alsynite where wind loads exceed 1.5 kPa (kilopascal) for recommended spanning information.