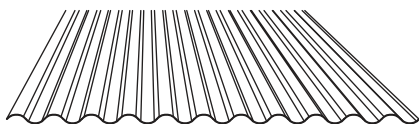


GRS Corrugated

Global Roofing Solutions Corrugated



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Typical specification

Materials

The roofing / side cladding shall be Corrugated 10.5 profile and can be light industrial / heavy industrial in (select from table below). Corrugated 10.5 is obtained from Global Roofing Solutions (Pty) Ltd.

Material	Steel	Colour One Side	Colour Two Side
Galvanised Z275	ISQ 550	—————	—————
Chromadek® Z200		✓	Special
Zincalume® AZ150	G550	—————	—————
Clean COLORBOND™ AZ150		✓	Special
ZincAL® AZ150	G550	—————	—————
COLORPLUS® AZ150		✓	Special

The Profile

Shall be roll-formed with 10,5 corrugations at 76 mm centres giving a nett cover of 762 mm. The rib height shall be 17.5 mm.

Embossing

Corrugated 10.5 sheeting can be embossed for thicknesses not less than 0,5mm. Embossing provides a quality textured finish to the sheet and reduces glare, minimises potentially unsightly “oil canning” and enhances the appearance of a metal clad building. Full Hard materials are available lightly embossed.

Lengths

In general, the maximum length of Corrugated 10.5 sheeting offered is 13.5 m. However, in the case of Corrugated 10.5 sheeting with a Global-Duro finish, the maximum recommended length should not exceed 12,0 m for handling reasons.

Roof Pitch

When using Corrugated 10.5 sheeting, the recommended minimum pitch for roof slopes in excess of 15 m is 10° and for slopes less than 15 m is 7,5°.

Bullnosing and Curving

Care must be taken when ordering bullnoses and curves as there are no

broad or narrow flutes on a Corrugated 10.5 sheeting to differentiate between a normal or reverse bullnose. Two items must be clearly indicated on a Corrugated 10.5 bullnose:

1. The position of the “lip up” or “lip down” on the sheet
2. The colour requirements.

Flashings

Stop endings must be formed at the apex to form a dam. The roof sheeting shall be closed as necessary with purpose made flashings and poly closers where necessary.

Versatile

Corrugated 10.5 is available in stainless steel, aluminium, polycarbonate and translucent fibreglass sheeting. A full range of accessories includes flashings, fascias, gutters and downpipes.

Site storage

All Corrugated 10.5 sheets and accessories should be stored clear of the ground and protected from the elements and mechanical damage. Should the sheets become wet, it is essential that they be individually dried immediately to avoid staining and eventually white rust.



Cleaning up

The Corrugated 10.5 roofing, including gutters, must be handed over free of any swarf and other debris.

Quality assurance

The manufacturer shall be assessed and certified as complying with ISO 9001:2008 Quality Management System.

Corrugated 10.5 profile



MAXIMUM ALLOWABLE SUPPORT SPACINGS							
TYPE OF SPAN	GALVANISED / CHROMADEK®			ZINCALUME® / COLORBOND™		ZINCAL® / COLORPLUS®	
	0.5 mm ISQ550	0.58 mm ISQ300	0.8 mm ISQ230	0.47 mm G550	0.53 mm G550	0.5 mm G550	0.55 mm G550
Roofs							
Single Span	0.600 m	0.600 m	0.900 m	0.600 m	0.700 m	0.600 m	0.700 m
End Span	0.900 m	0.900 m	1.200 m	0.900 m	1.300 m	0.900 m	1.300 m
Internal Span	1.100 m	1.100 m	1.350 m	1.200 m	1.700 m	1.200 m	1.700 m
Non-Stiffened Overhang	0.200 m	0.200 m	0.250 m	0.200 m	0.250 m	0.200 m	0.250 m
Walls							
Single Span	0.900 m	0.900 m	1.300 m	1.100 m	1.500 m	1.100 m	1.500 m
End Span	1.100 m	1.100 m	1.400 m	1.600 m	1.800 m	1.250 m	1.800 m
Internal Span	1.500 m	1.500 m	1.800 m	2.200 m	2.400 m	1.700 m	2.400 m
Overhang	0.200 m	0.200 m	0.280 m	0.150 m	0.200 m	0.150 m	0.200 m
Normal mass kg/m ²	5.03	5.86	7.92	4.61	5.22	5.3	5.8

Assembly

The sheeting shall be laid with side-laps on the leeward side of the prevailing wind direction and placed in position to give 1,5 corrugations side-lap. An approved side-lap sealant shall be incorporated on roofing with a pitch less than 15 degrees. Side-lap stitching shall be effected mid-span between purlins with 20 mm long TopSpeed Hex Head screws.

For roofs allow a minimum end lap of 230 mm between 10° and 15° pitch and 150 mm above 15°. For walls allow a minimum end lap of 100 mm.

Fasteners

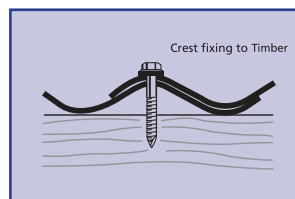
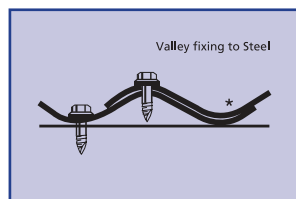
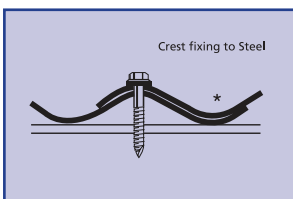
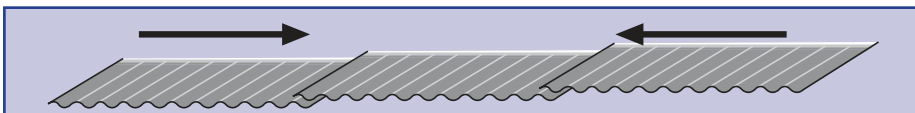
For a range of fasteners to be used with Corrugated 10.5, please refer to the GRS installation manual.

Note

Fasteners must be selected to match the life expectancy of the roofing and cladding material. Class 3 fasteners, complying with SANS 1273, should be used in conjunction with all roofing and cladding material. For a full range of compatible fasteners, please refer to the GRS Installation Manual.

DIRECTION OF SHEET LAYING

DIRECTION OF PREVAILING WEATHER

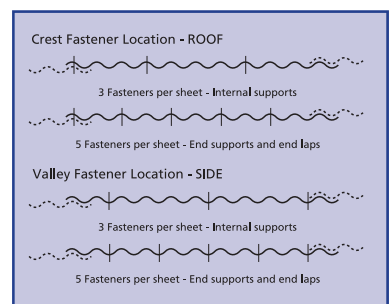


*DO NOT place fastener in this valley. Leakage through underlap will result if pierced.

NOTE: Do not over-tighten screws. Drive screw until slight deformation is just visible at crest of rib.

Fastener holes

Do not use punches to form fastener holes. Use correct size drill to suit fastener, or self-drilling screws where applicable.

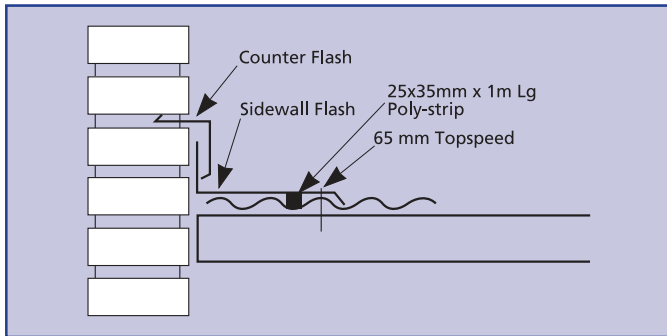


Popular flashings

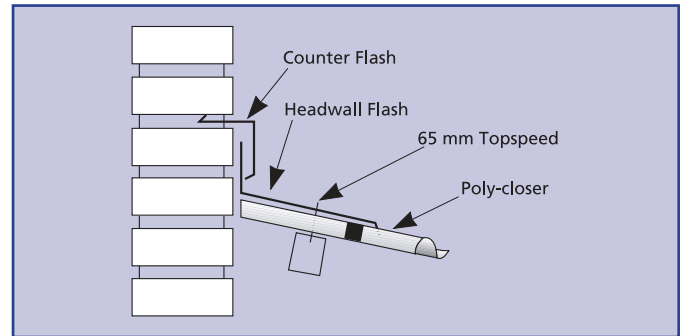
Available in 0.58 mm / 0.8 mm thick commercial quality galvanised Z275 steel, 0.53 mm thick Zinalume® AZ150 or 0.55 mm thick ZincAL® AZ150. Or with a colour option

Chromadek® (Galvanised Z200), Clean COLORBOND™ (Zinalume® AZ150) or COLORPLUS® (ZincAL® AZ150) finish to one / two sides.

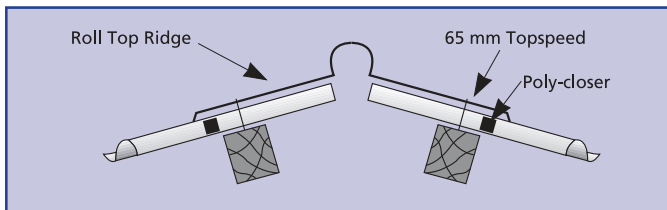
Sidewall Flashing



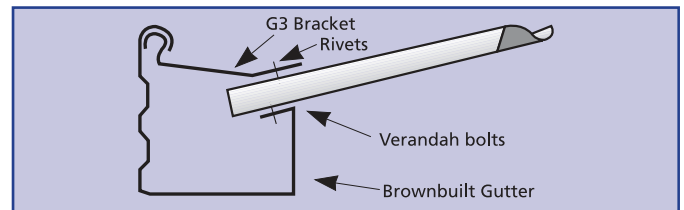
Headwall Flashing



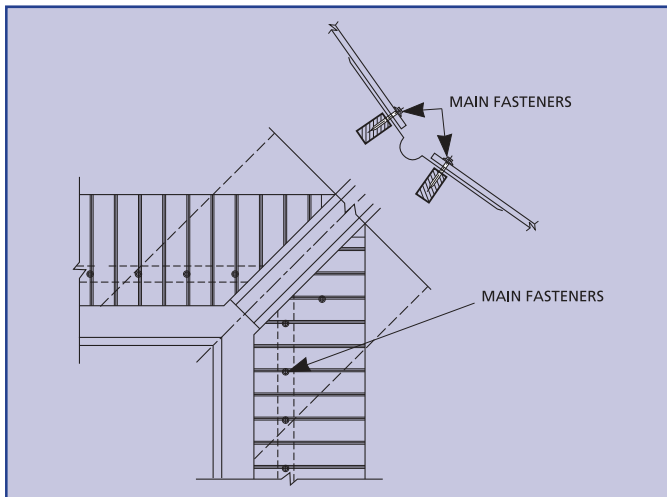
Ridge Flashing



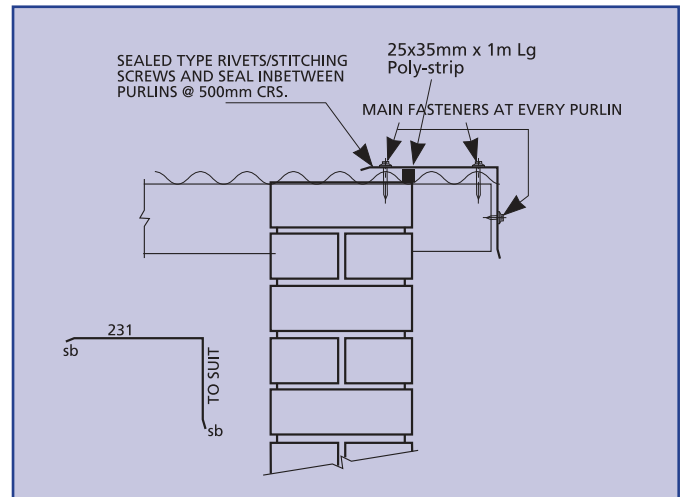
Gutter Detail



Valley Flashing



Gable Flashing



Please visit our website or contact GRS for standard flashing details

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Durban	Tel: (031) 538 0940/1/2	Fax: (031) 502 3764
East London	Tel: (043) 731 1895/98	Fax: (043) 731 1926
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