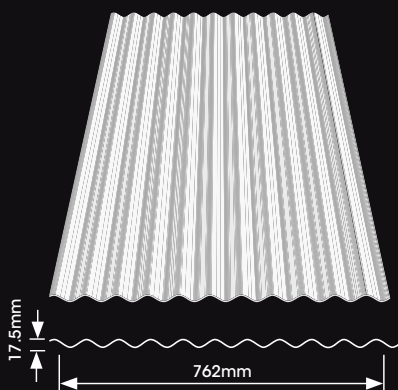




Corrugated iron as a galvanized sheet first made its appearance in England around 1830 when pre-cut and drum rolled steel sheets were hot dipped galvanized. The Transvaal Iron and Steel Company from Kempton Park was the first South African company to buy a rolling-mill in 1905. Tried and tested through many decades, this smooth curving profile, also known as S-rib has been used in every conceivable construction application. Today, nearly 182 years after its invention, it is still a very popular residential roof covering.



Cover width: 762mm  
 Total width: 856mm  
 Coil width: 925mm  
 All dimensions given are nominal  
 Minimum Pitch 15° (approx. 1 : 3.7) single lap  
 Minimum Pitch 10° (approx. 1 : 5.6) double lap



## FEATURES

- CORRUGATED IRON covers a wider area for every linear meter than any other profile on the market.
- CORRUGATED is aesthetically pleasing.
- Can be spring-curved (draped) onto a 23m radius in the convex and 23m in the concave.
- Can be factory- cranked to a minimum radius of 450mm.

## APPLICATIONS

Corrugated iron sheeting is ideal for residential applications. Corrugated is also ideal for commercial applications where aesthetics is important. The absence of flat surfaces gives Corrugated the unique ability to completely repel oil canning.

## 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
Nominal weight/square metre (kg/m <sup>2</sup> )	5.03	5.44	5.86	7.92	3.1	3.8
Draped curved roof - min. radius (m)	23 convex		23 concave		23 convex	23 concave
Purlin spacing's for drape curved roof (mm)	1100				1000	
Crimp curved - min. radius (mm)	450 convex		450 concave		450 convex	450 concave
Unsupported overhang (2)	100	150	200	250	100	150



## CORRUGATED LIMIT STATE LOAD / SPAN CAPACITY CHART

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

3. Non-Access Roof or Wall						
2. Restricted-Access Roof						
1. Unrestricted-Access Roof						
		Side stitching necessary	1.5kPa			
G550 Steel 0.50mm	End Span	N /R	500	700	800	1000
	Internal Span	N /R	700	800	1000	1100
G550 Steel 0.55mm	End Span	700	800	900	1100	1200
	Internal Span	800	900	1100	1200	1300
G300 Steel 0.58mm	End Span	900	1000	1100	1300	1400
	Internal Span	1000	1100	1200	1400	1500
G300 Steel 0.8mm	End Span	1100	1200	1300	1500	1600
	Internal Span	1200	1300	1400	1600	1700

### 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. N/R = not recommended.
6. Ultimate loads limited by fastener pull out.

### FASTENER DESIGN

CORRUGATED 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 diameter 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 Corrugated iron sheets through every second rib (corrugated crest) along the top and bottom sheet edges. Fasten sheet through every fourth rib (corrugated crest) on every purlin for internal spans. Use a staggered pattern to reduce the thermal expansion bulge.

#### Pretoria

69 Willem Cruywagen Street  
Klerksoord, Rosslyn, Pretoria.  
Tel: +27 12 542 7554  
E-mail: sales-pta@prorooft.co.za  
GPS Coordinates: S 25° 37' 58.4"  
E 028° 07' 43.9"

#### Cape Town

27 Junction Road, Tygerberg Business Park  
Parow Industria.  
Tel: +27 21 959 9000 Fax: +27 21 951 5004  
E-mail: sales-cpt@prorooft.co.za  
GPS Coordinates: S 33° 92' 95.81"  
E 18° 61' 42.18"

#### Vereeniging

2 Nuffield Street  
Duncanville, Vereeniging.  
Tel: +27 12 542 7554 Fax: +27 16 450 5884/6  
E-mail: sales-vrn@prorooft.co.za  
GPS Coordinates: S 26° 66' 30.74"  
E 27° 93' 54.48"