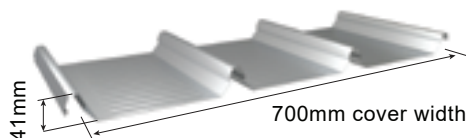


Our Concealed Fix Profiles

Klip-Tite™



Klip-Tite™

Similar to Klip-Lok 700 but with increased wind uplift resistance. The introduction of transverse stiffeners, in lieu of the traditional longitudinal pan stiffeners, form structural members spanning across the width of the pan. The deflection of the pan is thus reduced, increasing the wind uplift resistance of the sheet. These transverse pan stiffeners are a first in the South African sheeting market. Site-rolling is available.

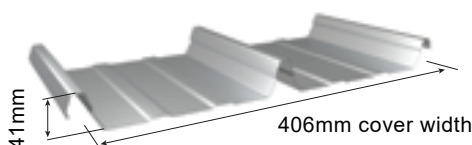
Available in long lengths and suitable for low pitched roofs as the sheet is not pierced when secured to the supporting structure.

Maximum Allowable Support Spacings					
Type of Span	0.47mm	0.5mm	0.53mm	0.55mm	0.58mm
Roofs					
Single Span	1.300m	1.400m	1.500m	1.800m	1.800m
End Span	1.600m	1.700m	1.900m	2.100m	2.100m
Internal Span	1.900m	2.000m	2.300m	2.500m	2.500m
Cantilever (unstiffened)	0.150m	0.180m	0.180m	0.200m	0.260m
Cantilever (stiffened- max. sheet length of 13m)	0.350m	0.400m	0.400m	0.450m	0.600m
Nominal Mass kg/m ²	5.1	5.5	5.7	5.75	6.6

Available in Galvanised, Zinalume®, Zinal® and Chromadek®, Colorbond™, Colorplus®

- Spans don't apply to natural sprung sheets. Consult GRS Technical Department.
- Spans for timber purlins to be in accordance with SANS 10400

Klip-Lok 406™



Klip-Lok 406™

A concealed fix profile with unique double interlocking side laps makes this a very fast installing roof sheet. This profile is ideally suited to low roof pitches. Manufactured from certified high yield steel or special grade aluminium making it lighter and stronger. Site-rolling is available.

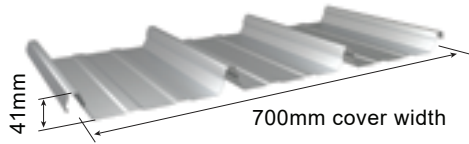
Available in long lengths and suitable for low pitched roofs as the sheet is not pierced when secured to the supporting structure.

Maximum Allowable Support Spacings					
Type of Span	0.47	0.5	0.53	0.55	0.58
Roofs					
Single Span	1.300m	1.400m	1.500m	1.800m	1.800m
End Span	1.600m	1.700m	1.900m	2.100m	2.100m
Internal Span	1.900m	2.000m	2.300m	2.500m	2.500m
Cantilever (unstiffened)	0.150m	0.180m	0.180m	0.200m	0.260m
Cantilever (stiffened- max. sheet length of 13m)	0.350m	0.400m	0.400m	0.450m	0.600m
Nominal Mass kg/m ²	5.31	5.92	5.98	6.43	6.78

Available in Galvanised, Zinalume®, Zinal® and Chromadek®, Colorbond™, Colorplus®

- Spans don't apply to natural sprung sheets. Consult GRS Technical Department.
- Spans for timber purlins to be in accordance with SANS 10400

Klip-Lok 700™



Klip-Lok 700™

Similar to Klip-Lok 406 but wider. This sheet is even faster to install yielding greater savings. This profile is ideally suited to low roof pitches. Manufactured from certified high yield steel making it lighter and stronger. Site-rolling is available. Klip-Lok 700 will be phased out and replaced by Klip-Tite, however it will be available for remedial work at limited capacity.

Available in long lengths and suitable for low pitched roofs as the sheet is not pierced when secured to the supporting structure.

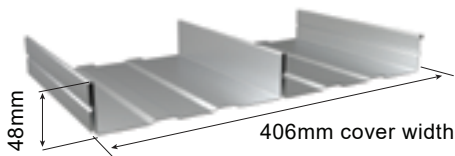
Maximum Allowable Support Spacings					
Type of Span	0.47mm	0.5mm	0.53mm	0.55mm	0.58mm
Roofs					
Single Span	1.300m	1.400m	1.500m	1.800m	1.800m
End Span	1.600m	1.700m	1.900m	2.100m	2.100m
Internal Span	1.900m	2.000m	2.300m	2.500m	2.500m
Cantilever (unstiffened)	0.150m	0.180m	0.180m	0.200m	0.260m
Cantilever (stiffened- max. sheet length of 13m)	0.350m	0.400m	0.400m	0.450m	0.600m
Nominal Mass kg/m ²	5.1	5.5	5.7	5.75	6.6

Available in Galvanised, Zinalume®, Zinal® and Chromadek®, Colorbond™, Colorplus®

- Spans don't apply to natural sprung sheets. Consult GRS Technical Department.

- Spans for timber purlins to be in accordance with SANS 10400

Brownbuilt™



Brownbuilt™

This classic and well-known concealed fix sheeting system is available upon request and also for site rolling in neighbouring countries (subject to minimum order quantities). Also frequently used as underslung / ceiling sheets on fuel station canopies.

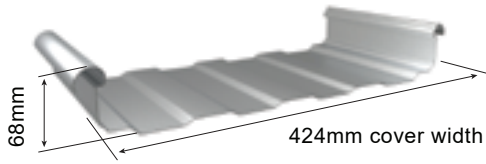
Available in long lengths and suitable for low pitched roofs as the sheet is not pierced when secured to the supporting structure.

Maximum Allowable Support Spacings				
Type of Span	0,58mm	0,8mm	0,8mm Aluminium	0,6mm Stainless Steel
Roofs				
Single Span	1.500m	2.400m	1.200m	1.500m
End Span	1.500m	2.400m	1.200m	1.500m
Internal Span	1.800m	2.700m	1.500m	1.800m
Cantilever (unstiffened)	0.200m	0.300m	0.100m	0.200m
Cantilever (stiffened- max. sheet length of 13m)	0.450m	0.600m	0.100m	0.450m
Walls				
Internal Span	2.700m	3.000m	1.500m	2.700m
Cantilever	0.400m	0.600m		
Nominal Mass kg/m ²	8.16	10.26	3.61	8.16

- Spans don't apply to natural sprung sheets. Consult GRS Technical Department.

- Spans for timber purlins to be in accordance with SANS 10400

Zip-Tek 420



Zip-Tek 420

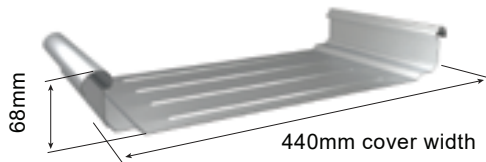
This unique concealed fix system is commonly known as a standing seam system. This is one of the only concealed fix systems where the sheet can be tapered, as well as smooth curved. It is also the only concealed system that can be reverse curved.

Available in long lengths and suitable for low pitched roofs as the sheet is not pierced when secured to the supporting structure.

Maximum Allowable Support Spacings				
Type of Span	0.53mm	0.55mm	0.58mm	0.8mm Aluminium
Roofs				
End Span	1.900m	1.900m	2.100m	2.200m
Internal Span	2.300m	2.300m	2.500m	2.500m
Cantilever unstiffened	-	-	-	-
Cantilever (stiffened)	0.210m	0.230m	0.260m	0.180m
Nominal Mass kg/m ²	5.8	6.0	6.63	3.13
Available in Galvanised, Zinalume®, Zinal® and Chromadek®, Colorbond™, Colorplus®				Mill Finish, Colour-Tech G4 & PVDF

- Spans don't apply to natural sprung sheets. Consult GRS Technical Department.
- Spans for timber purlins to be in accordance with SANS 10400

Zip-Tek 440



Zip-Tek 440

Similar to Zip-Tek 420 but wider, and incorporates transverse stiffener ribs. Please note, Zip-Tek 440 is only available for exports, SADC and African countries.

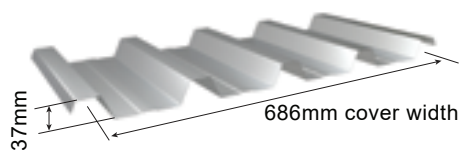
Available in long lengths and suitable for low pitched roofs as the sheet is not pierced when secured to the supporting structure.

Maximum Allowable Support Spacings				
Type of Span	0.53mm	0.55mm	0.58mm	0.8mm Aluminium
Roofs				
End Span	1.900m	1.900m	2.100m	2.200m
Internal Span	2.300m	2.300m	2.500m	2.500m
Cantilever unstiffened	-	-	-	-
Cantilever (stiffened)	0.180m	0.180m	0.260m	0.180m
Nominal Mass kg/m ²	5.8	6.0	6.63	3.13
Available in Galvanised, Zinalume®, Zinal® and Chromadek®, Colorbond™, Colorplus®				Mill Finish, Colour-Tech G4 & PVDF

- Spans don't apply to natural sprung sheets. Consult GRS Technical Department.
- Spans for timber purlins to be in accordance with SANS 10400

Our Pierced Fix Profiles

IBR 686



IBR 686

The trapezoidal flute design still offers the optimum strength, mass and load – span characteristics compared to alternative profiles.

Available in transportable lengths and fixed by securing a screw through the narrow flute when used as roofing. Typically when used as side cladding the profile is fixed with broad flutes outwards.

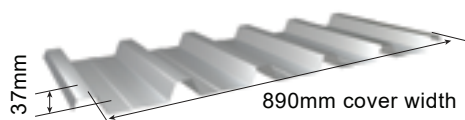
IBR 686 Maximum Allowable Support Spacings (mm)						
Type of Span	0.47mm 550 MPa	0.5mm 550 MPa	0.53mm 550 MPa	0.55mm 550 MPa	0.58mm 300 MPa	0.8mm 230 MPa
Roofs						
Single Span	1.550m	1.550m	1.750m	1.750m	1.750m	2.250m
End Span	1.700m	1.700m	1.800m	1.800m	1.800m	2.300m
Internal Span	1.800m	1.800m	2.100m	2.100m	2.100m	2.500m
Cantilever	0.350m	0.350m	0.450m	0.450m	0.450m	0.550m
Walls						
Single Span	2.400m	2.400m	2.600m	2.600m	2.600m	2.950m
End Span	2.500m	2.500m	2.700m	2.700m	2.700m	3.000m
Internal Span	2.750m	2.750m	2.950m	2.950m	2.900m	3.600m
Cantilever	0.850m	0.850m	1.000m	1.000m	1.000m	1.150m
Nominal mass kg/m ²	4.92	5.48	5.75	5.8	6.37	8.76

Available in Galvanised, Zinalume®, Zinal® and Chromadek®, Colorbond™, Colorplus®

- Spans don't apply to natural sprung sheets. Consult GRS Technical Department.

- Spans for timber purlins to be in accordance with SANS 10400

IBR 890



IBR 890 (Supa-Clad)

This wide span trapezoidal profile provides the choice of wider cover and more effective installation, saving on purlins and labour.

Available in transportable lengths and fixed by securing a screw through the narrow flute when used as roofing. Typically when used as side cladding the profile is fixed with broad flutes outwards.

IBR 890 / Supa-Clad Maximum Allowable Support Spacings (mm)				
Type of Span	0.47mm 550 MPa	0.5mm 550 MPa	0.53mm 550 MPa	0.58mm 550 MPa
Roofs				
Single Span	1.800m	1.800m	2.000m	2.000m
End Span	2.000m	2.100m	2.300m	2.300m
Internal Span	2.100m	2.200m	2.600m	2.600m
Cantilever	0.270m	0.270m	0.300m	0.300m
Walls				
Single Span	2.400m	2.400m	2.500m	2.500m
End Span	2.900m	2.900m	3.100m	3.100m
Internal Span	3.100m	3.100m	3.400m	3.400m
Cantilever	1.100m	1.100m	1.200m	1.200m
Nominal mass kg/m ²	4.92	5.42	5.75	6.28

Available in Galvanised, Zinalume®, Zinal® and Chromadek®, Colorbond™, Colorplus®

- Spans don't apply to natural sprung sheets. Consult GRS Technical Department.

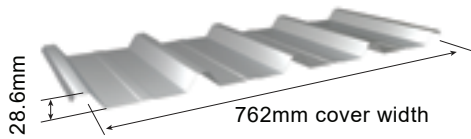
- Spans for timber purlins to be in accordance with SANS 10400

Nu-Rib™

Nu-Rib™

Effectively bridges the gap between Corrugated and the standard IBR 686 box ribbed profile.

Available in transportable lengths and fixed through a narrow rib with a fastener to the supporting structure. Mostly used as side cladding.



Nu-Rib Maximum Allowable Support Spacings (mm)						
Type of Span	0.47mm 550 MPa	0.5mm 550 MPa	0.53mm 550 MPa	0.55mm 550 MPa	0.58mm 300 MPa	0.8mm 230 MPa
Roofs						
Single Span	1.300m	1.300m	1.400m	1.400m	1.400m	1.600m
Internal Span	1.550m	1.550m	1.650m	1.650m	1.650m	1.900m
Cantilever	0.400m	0.400m	0.450m	0.450m	0.450m	0.550m
Walls						
Single Span	1.800m	1.800m	1.950m	1.950m	1.950m	2.200m
Internal Span	2.200m	2.200m	2.350m	2.350m	2.350m	2.750m
Cantilever	0.900m	0.900m	1.000m	1.000m	1.000m	1.150m
Nominal mass kg/m ²	4.4	4.9	5.2	5.3	5.7	7.8

Available in Galvanised, Zinalume®, Zinal® and Chromadek®, Colorbond™, Colorplus®

- Spans don't apply to natural sprung sheets. Consult GRS Technical Department.

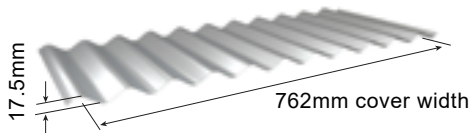
- Spans for timber purlins to be in accordance with SANS 10400

Corrugated

Corrugated 10.5

Corrugated 10.5 has a tranquil appearance, is relatively light, easy to handle and provides an economical coverage per unit mass.

Available in transportable lengths.



Corrugated Maximum Allowable Support Spacings (mm)						
Type of Span	0.47mm 550 MPa	0.5mm 550 MPa	0.53mm 550 MPa	0.55mm 550 MPa	0.58mm 300 MPa	0.8mm 230 MPa
Roofs						
Single Span	0.600m	0.650m	0.700m	0.700m	0.600m	0.900m
End Span	0.900m	1.100m	1.300m	1.350m	1.050m	1.200m
Internal Span	1.200m	1.450m	1.700m	1.750m	1.300m	1.700m
Cantilever	0.200m	0.200m	0.250m	0.250m	0.200m	0.250m
Walls						
Single Span	1.200m	1.350m	1.500m	1.500m	1.200m	1.500m
End Span	1.600m	1.800m	2.000m	2.000m	1.600m	2.000m
Internal Span	2.200m	2.300m	2.400m	2.450m	1.900m	2.400m
Cantilever	0.200m	0.200m	0.250m	0.250m	0.200m	0.250m
Nominal mass kg/m ²	4.61	5.10	5.22	5.8	5.86	7.92

Available in Galvanised, Zinalume®, Zinal® and Chromadek®, Colorbond™, Colorplus®

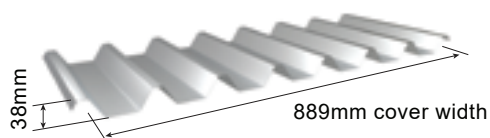
- Spans don't apply to natural sprung sheets. Consult GRS Technical Department.

- Spans for timber purlins to be in accordance with SANS 10400

BR7

BR7 was designed to provide a more effective utilisation of aluminium with its span vs. economics element. BR7 can also be manufactured in steel.

Available in transportable lengths and fixed by securing a screw through the narrow flute when used as roofing.



Maximum Allowable Support Spacings		
Type of Span	Aluminium	
	0.8mm 3004 / 9017 (H44)	0.9mm 3004 / 9014 (H44)
Roofs		
Single Span	1.500m	1.600m
End Span	1.700m	1.800m
Internal Span	2.000m	2.100m
Cantilever	0.550m	0.600m
Walls		
Single Span	2.050m	2.150m
End Span	2.300m	2.400m
Internal Span	2.600m	2.700m
Cantilever	0.750m	0.800m

Purlin Support Centres are based on the following design criteria and obtained through testing:

Roofs – Ultimate Super-Imposed Distributed Load of 1,50 kN/m² and Ultimate Uplift Load of 1,60 kN/m².

Walls – Ultimate Super-Imposed Distributed Load of 0,75 kN/m².

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