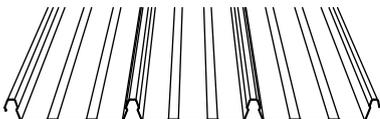


Global Roofing Solutions Klip-Lok 700™



Talk to us, **THE SMART ROOF PEOPLE**
Visit www.globalroofs.co.za or email
info@globalroofs.co.za



Typical specification

Materials

The roofing shall be Klip-Lok 700™ profile, roll-formed in continuous lengths and can be light industrial / heavy industrial in (select

from table below). Klip-Lok 700™ 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

Is roll-formed from certified steel complying with (select from steel column in above table). The profile shall have 4 trapezoidal ribs at 233 mm centres giving a net cover of 700 mm. The rib shall have spurs at 285 mm centres to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs.

Assembly

It is recommended that Klip-Lok 700™ sheeting be laid by an approved contractor in strict accordance with manufacturers specifications. When using a Brownbuilt Approved Contractor, a five year guarantee of site-workmanship and water-tightness can be issued after approval by Global Roofing Solutions (Pty) Ltd.

Flashing

Stop endings must be formed at the apex and the pan turned down at the eaves to form a drip. The roof sheeting shall be closed as necessary with purpose made flashings

of a design approved by the supplier. These flashings shall be notched around ribs where necessary and fixed on S10 clips. All these operations must be performed with special tools available from the supplier.

Site handling

All Klip-Lok 700™ materials should be suitably supported under cover until required to be hoisted into final position.

Cleaning up

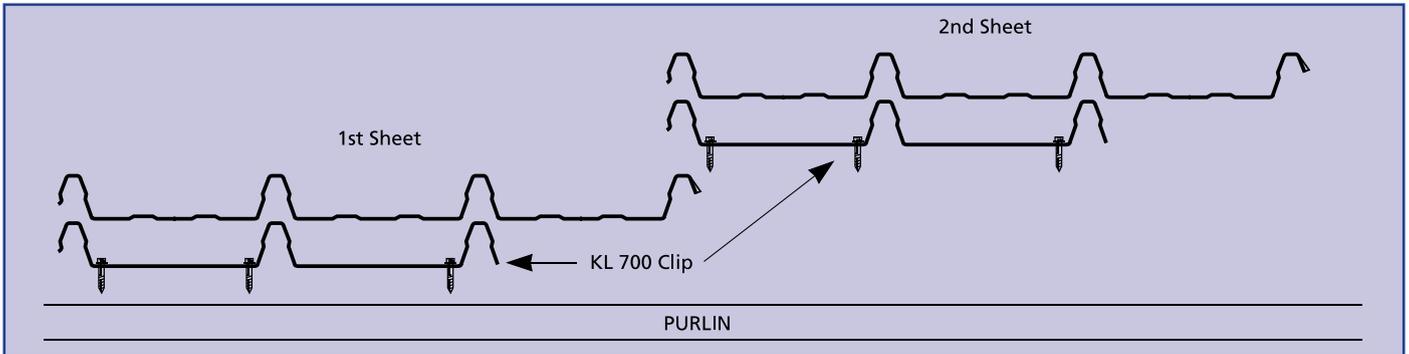
The completed roofing, including gutters, must be handed over free of any debris.

Quality assurance

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

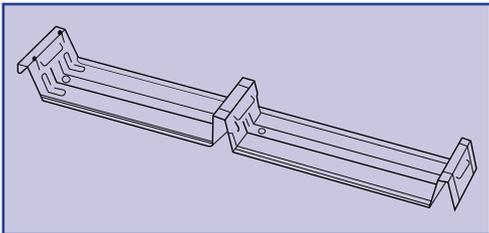


The concealed fixing concept



Fasteners

The recommended fasteners for fixing the KL 700 clips to steel or timber purlins are as follows:



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.

Steel up to 3.0mm thick

No. 10-24 x 16 mm long wafer head, self-drilling / self-tapping electroplated Tek screws. No. 10-24 x 22 mm long wafer head, self-drilling / self-tapping electroplated Tek screws over a 50 mm thick insulation blanket.

Steel more than 3.0mm thick

No. 10-24 x 16 mm long wafer head, self-drilling / self-tapping electroplated Tek screws into 4.3 mm pre-drilled holes, using a small amount of graphite grease.

Timber

ZAP No.10x45 mm Waferhead screws type 17.



Typical specification

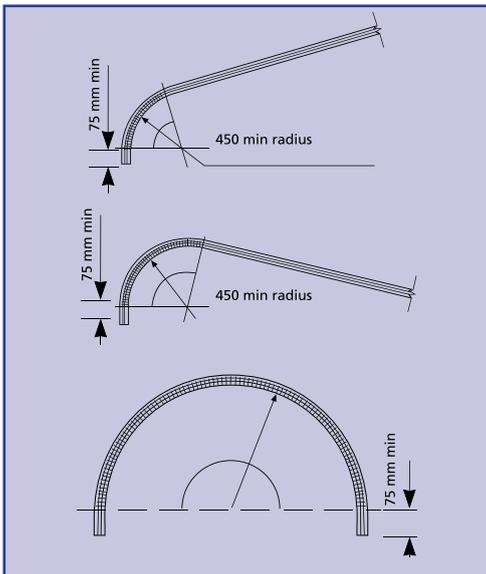
Sheet lengths

Klip-Lok 700™ is available ex-factory in sheet lengths limited only by transport restrictions, normal loads 12.5 m and abnormal loads 18.6 m. Longer lengths can be milled on site, obviating end laps which are not recommended.

End lapping negates the concealed fix concept and no water tightness guarantee can be given.

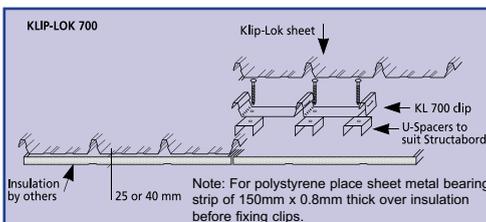
End lapping, due to corrosion, reduces the life expectancy of the roof.

Bullnosing and cranking



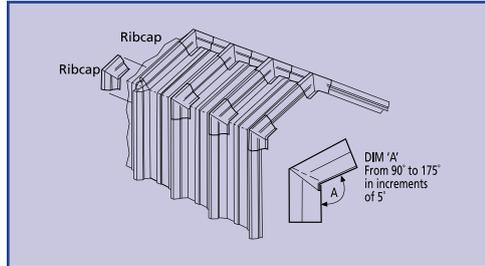
Note

Reverse cranking is not possible.



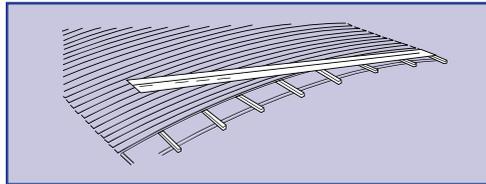
Please contact GRS for insulation specific fixing details.

Rib cap detail



Springing

Klip-Lok can be sprung to a minimum radius of 36m (convex only).



Note

Consideration for road transport has to be taken into account.

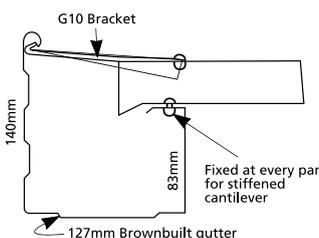
Refer to GRS Installation manual for detailed dimensions and fixing instructions.

Site cranking for milled sheets is available on application.

Gutters and fascias

Klip-Lok 700™ in addition offers a fascia gutter and fascia capping, with horizontal stiffening ribs rolled in, giving a clean unbroken surface.

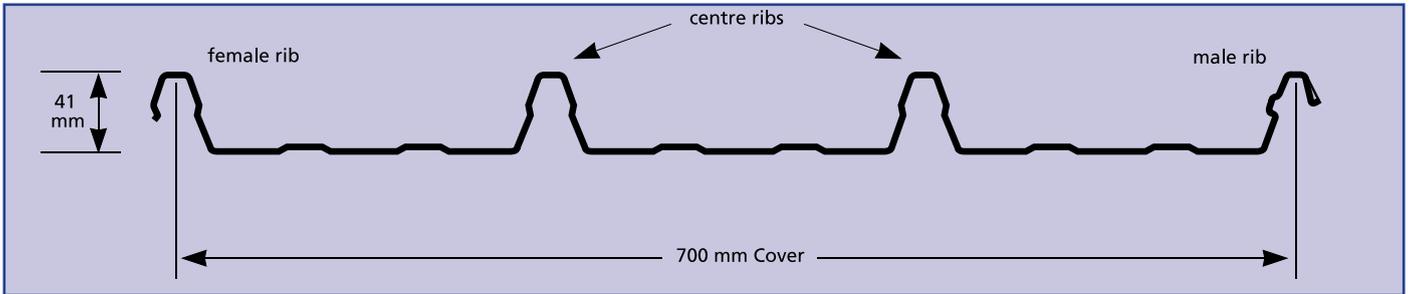
Used both as gutter and barge capping, the fascia gutter permits clean lined eaves for an attractive finish.



With the gutter attached by means of the appropriate concealed bracket and verandah bolts to the sheeting trough and the concealed support clip pop rivetted to the narrow flute of the sheeting at 1165 mm centres.



Profile : Klip-Lok 700™



Load span table

The recommended purlin support centres are based on the following design criteria and obtained through testing:

	Ultimate Superimposed Distributed Load	Ultimate Uplift Load
ROOFS	1.50 kN/m ²	1.60 kN/m ²
WALLS	0.75 kN/m ²	

Drainage table

Maximum roof run (in metres) for roof slopes and rainfall intensities shown. These figures are based on unrestricted, free flow of water.

Roof Slope	Rainfall Intensity mm/h			
	250	300	400	500
1 in 50 (1°)	64	53	40	32
1 in 30 (2°)	80	66	50	40
1 in 20 (3°)	94	78	58	46
1 in 12 (5°)		95	70	56
1 in 7.5 (7.5°)			83	66
1 in 6 (10°)			91	73

MAXIMUM ALLOWABLE SUPPORT SPACINGS						
TYPE OF SPAN	GALVANISED / CHROMADEK		ZINCALUME® / COLORBOND™		ZINCAL® / COLORPLUS®	
	0.5 mm ISQ550 (3T)	0.58 mm ISQ550 (3T)	0.47 mm G550	0.53 mm G550	0.5 mm G550	0.55 mm G550
Roofs						
Single Span	1.400 m	1.800 m	1.400 m	1.800 m	1.400 m	1.800 m
End Span	1.700 m	2.100 m	1.700 m	2.100 m	1.700 m	2.100 m
Internal Span	2.000 m	2.500 m	2.000 m	2.500 m	2.000 m	2.500 m
Cantilever (Unstiffened)	0.180 m	0.260 m	0.150 m	0.180 m	0.150 m	0.180 m
Cantilever (Stiffened)	0.400 m	0.600 m	0.350 m	0.400 m	0.350 m	0.400 m
Normal mass kg/m ²	5.5	6.6	5.1	5.7	5.2	5.75

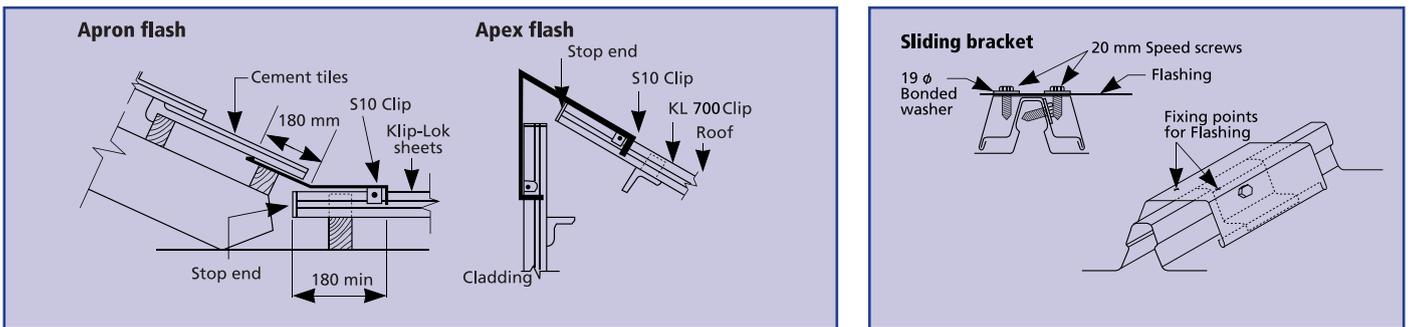
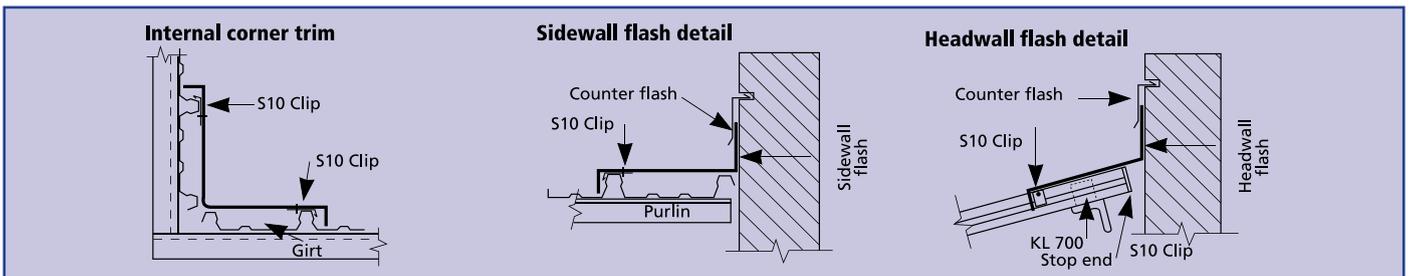
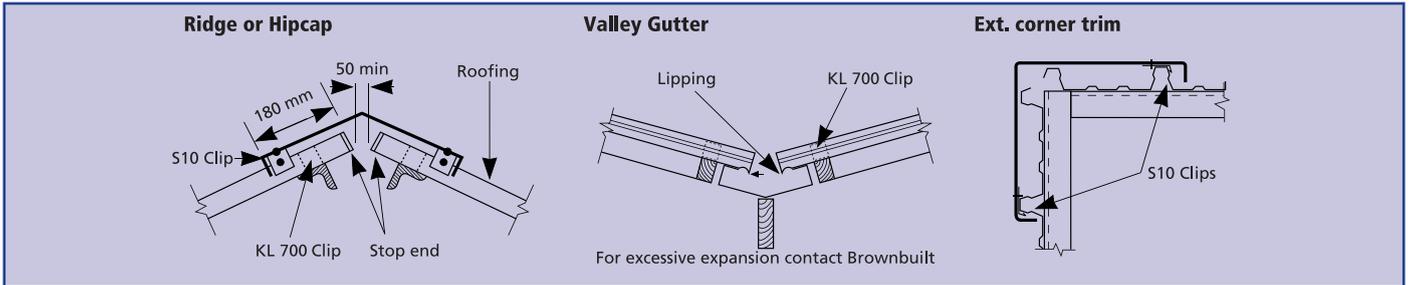
Purlin support centres are based on the following criteria and obtained through testing: Roofs – Ultimate Super-Imposed

Distribution Load of 1.50 kN/m² and Ultimate Uplift Load of 1.6kN/m²

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.



Please visit our website or contact GRS for standard flashing details

*** When sheet lengths are over 20m flashings must be fixed to sheets using sliding brackets.**

Tools

