



**GRS**

GLOBAL ROOFING SOLUTIONS (Pty) Ltd



**KLIP-LOK<sup>®</sup>**  
**700**

Brownbuilt  
HH Robertson



## Typical galvanised / prepainted specification

### Materials

The roofing / side-cladding shall be Klip-Lok® 700 profile roll-formed in continuous lengths and must be light industrial / heavy industrial with a galvanised finish of Z275 or with Globalcoat™ finish to one or both sides. Klip-Lok® 700 can be obtained from Global Roofing Solutions (Pty) Ltd.

### The Profile

Is roll-formed from certified steel complying with ISO 550 (3T). The profile has four trapezoidal ribs as 233 mm centres giving a nett cover of 700 mm. The rib height is 41 mm and provide capillary breaks. The male rib has spurs at 215 mm centres to ensure a positive double interlocking action at side-laps. Each pan incorporates two stiffener ribs.

### Assembly

It is recommended that Klip-Lok® 700 sheeting should be laid by an approved contractor in strict accordance with manufacturers specifications. When using a Global Roofing Solutions 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 must 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.

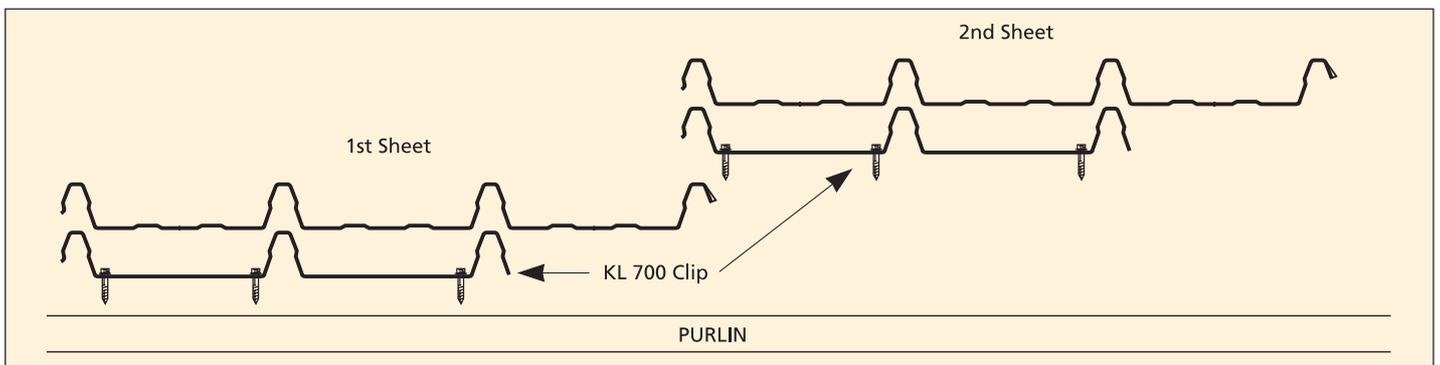
### Quality assurance

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

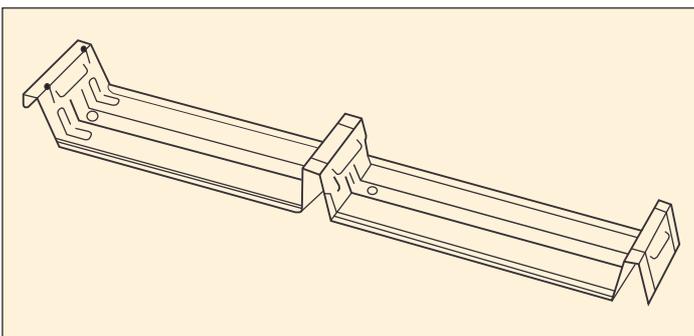




## The concealed fixing concept



## Fasteners



### PLEASE NOTE

Fasteners must be selected to match the life expectancy of the roofing material. Fasteners complying with SANS 1273:200 X Class 3 should be used in conjunction with 55% Aluminium-zinc Alloy coated steel.

The recommended fasteners for fixing the Klip-Lok® 700 clips to steel or timber purlins are as follows:

### Steel up to 3.0 mm thick

No. 10-24 x 16 mm long wafer head, self-drilling / self-tapping electroplated Tek screws with a minimum coating thickness of 8 micron. No. 10-24 x 22 mm long wafer head, self-drilling / self-tapping electroplated Tek screws with a minimum coating thickness of 8 microns over a 50 mm thick insulation blanket.

### Steel thicker than 3.0 mm

No. 10-24 x 16 mm long wafer head, self-drilling / self-tapping electroplated Tek screws with a minimum coating thickness of 8 microns into 4.3 mm pre-drilled holes, using a small amount of graphite grease.

### Timber

ZAP no. 10 x 45 mm Waferhead screws type 17 yellow pasivated.

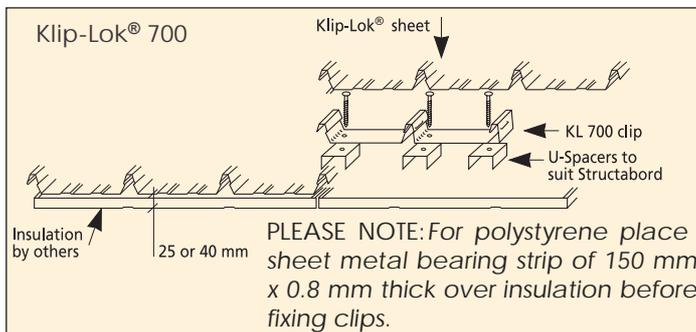
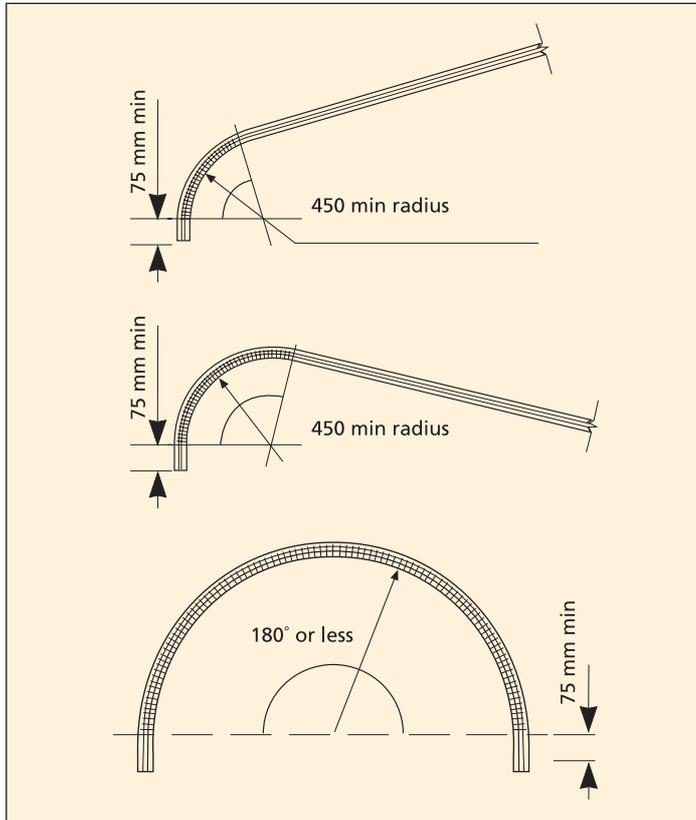
## Sheet lengths

Klip-Lok® 700 is available ex-factory in sheet lengths limited only by transport restrictions. Normal loads are 12,5m and abnormal loads 18,6m. 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.

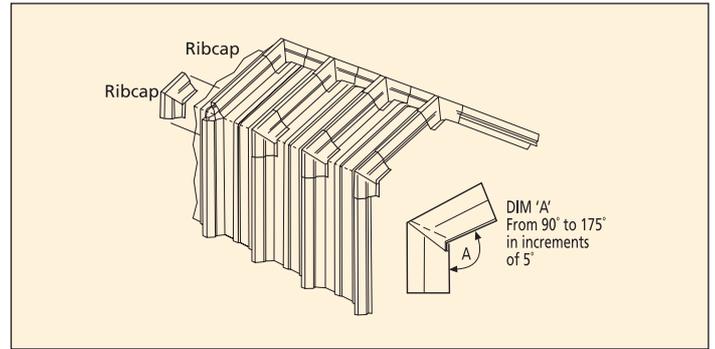
End lapping, due to corrosion, reduces the life expectancy of the roof.

## Bullnosing and cranking



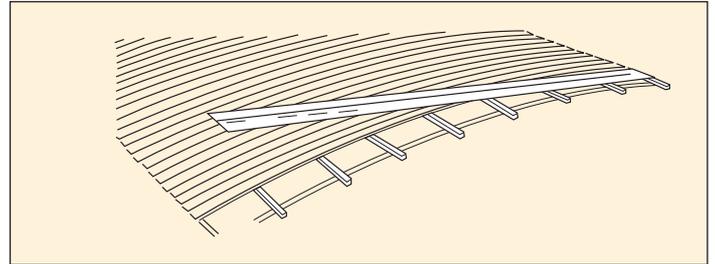
**PLEASE NOTE:**  
Reverse cranking is not possible.

## Rib cap detail



## Springing

Klip-Lok® 700 can be sprung to a minimum radius of 36 m (convex or concave)



### PLEASE NOTE:

Consideration for road transport has to be taken into account.

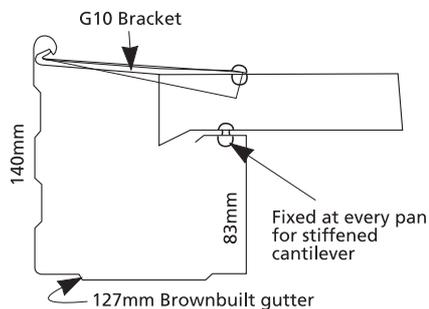
Refer to installation manual for detailed dimensions and fixing instructions.

Site cranking for milled sheets is available in application.

## Gutters and fascias

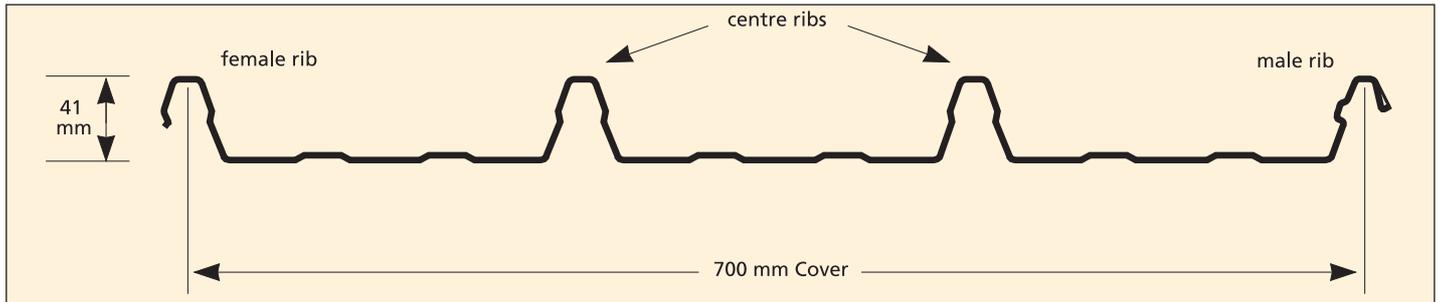
Klip-Lok® 700 in addition offers a fascia gutter and fascia capping, with horizontal stiffening ribs rolled in, giving a clean unbroken surface.

Use 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 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 <sup>2</sup>	1.60 kN/m <sup>2</sup>
WALLS	0.75 kN/m <sup>2</sup>	

### Drainage table

Maximum roof run (in metres) for roof slopes and rainfall intensities shown:

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

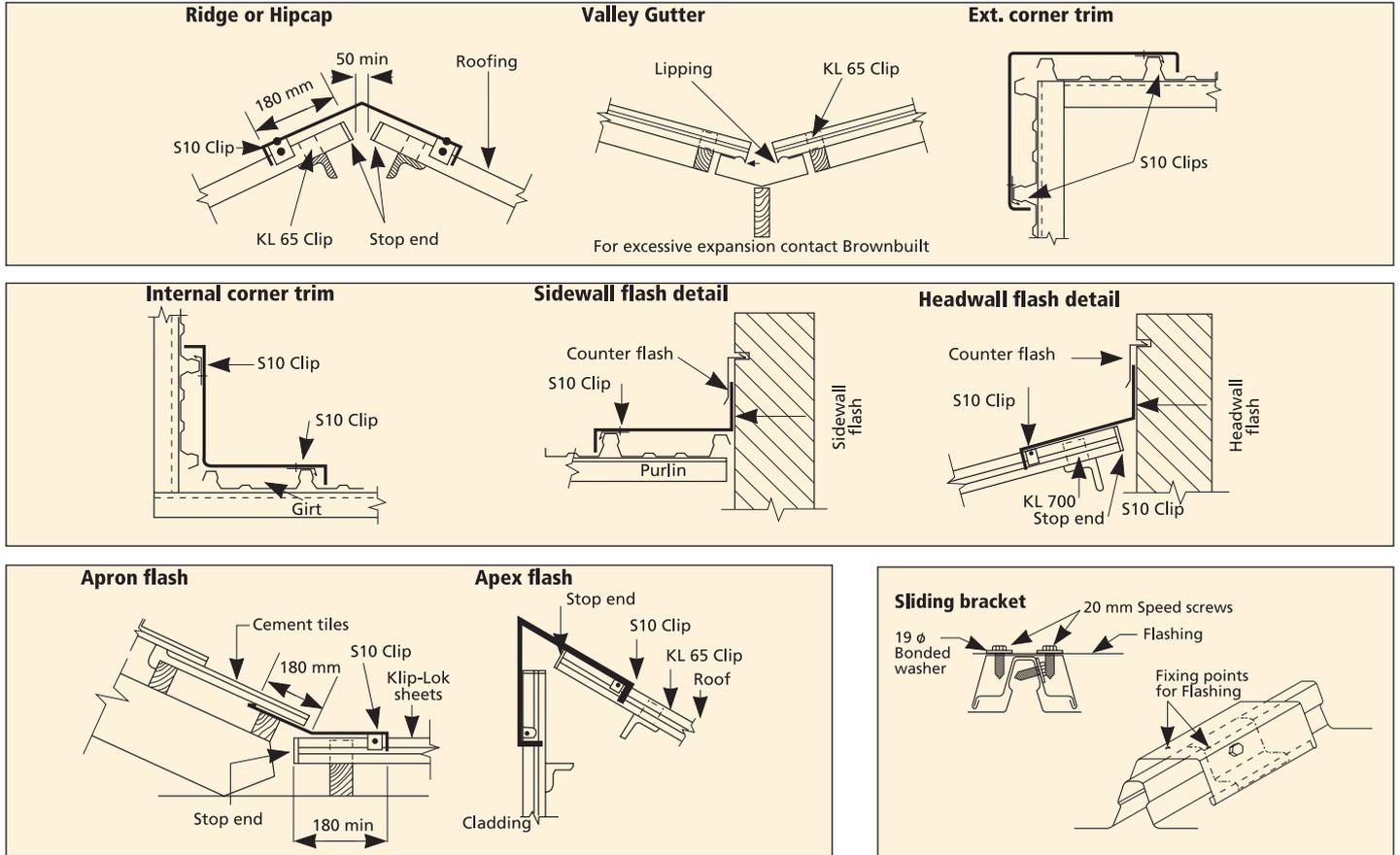
### Klip-Lok® 700 MAXIMUM ALLOWABLE SUPPORT SPACINGS

TYPE OF SPAN	GALVANISED		55% Aluminium-Zinc Alloy coated steel	
	ISQ550 (3T)		G550	
	(0.5mm)	(0.58mm)	0.47mm	0.53mm
Roofs				
Single Span	1.400 m	1.800 m	1.400 m	1.700 m
End Span	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
Cantilever (Unstiffened)	0.180 m	0.260 m	0.150 m	0.180 m
Cantilever (Stiffened – max sheet length of 13m)	0.400 m	0.600 m	0.350 m	0.400 m
Walls				
Single Span	2.100 m	2.300 m	2.100 m	2.300 m
End Span	2.500 m	2.600 m	2.400 m	2.600 m
Internal Span	2.700 m	2.700 m	2.600 m	2.700 m
Cantilever	0.300 m	0.500 m	0.300 m	0.400 m
Normal mass kg/m <sup>2</sup>	5.5	6.6	5.1	5.7

Purlin Support Centres are based on the following design criteria and obtained through testing: Roofs - Ultimate Super-Imposed Distributed Load of 1,50 kN/m<sup>2</sup> and Ultimate Uplift Load of 1,60 kN/m<sup>2</sup>. Walls - Ultimate Super-Imposed Distributed Load of 0,75 kN/m<sup>2</sup>.

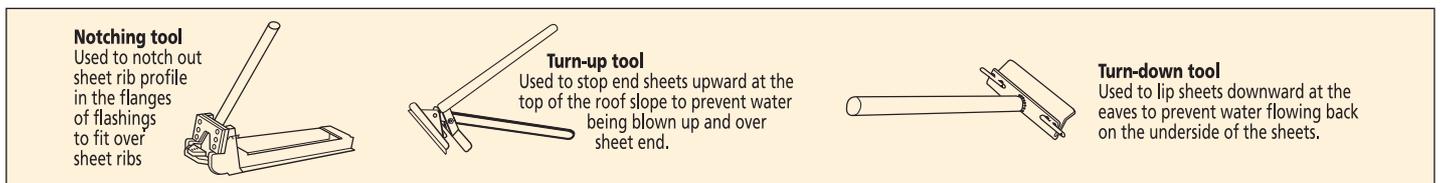
## Popular flashings

Available in 0.58 / 0.8 mm thick commercial quality galvanised steel, 0.6 mm thick 55% Aluminium-Zinc Alloy coated steel or with a Globalcoat™ colour finish to one / two sides.



PLEASE NOTE: When sheet lengths are over 30m flashings must be fixed to sheets using sliding brackets.

## Tools



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