

GRS Klip-Tite™

Global Roofing Solutions Klip-Tite™ Steel & Aluminium

ROOFING LIKE NO OTHER



Talk to **THE SMART ROOF PEOPLE**
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GRS Klip-Tite™

 **GRS**
GLOBAL ROOFING SOLUTIONS
BrownBuilt | HH Robertson



Typical Specification

Materials

The roofing shall be Klip-Tite™ profile, roll-formed in continuous lengths in one of the materials in the table below. Klip-Tite™ is obtained from Global Roofing Solutions.

| Material | Metal Grade | Colour One Side | Colour Two Side |
|---------------------------------------|--------------|-----------------|-----------------|
| Galvanised Z275 | ISQ 550 | _____ | _____ |
| Prepainted Galvanised Z200 | | ✓ | Special |
| Prepainted Galvanised Z275 | | ✓ | Special |
| Zinc aluminium alloy coated AZ150 | G550 | _____ | _____ |
| Zinc aluminium alloy coated AZ200 | | _____ | _____ |
| Prepainted zinc aluminium alloy AZ150 | | ✓ | Special |
| Prepainted zinc aluminium alloy AZ100 | | ✓ | Special |
| Prepainted zinc aluminium alloy AZ200 | | ✓ | Special |
| Aluminium Mill Finish | 3004 or 9017 | _____ | _____ |
| Color-Tech G4 | | ✓ | Special |

The Profile

The profile roll-formed from certified material complying with (select from the above table). The profile shall have 4 trapezoidal ribs at 233mm centres giving a nett cover of 700mm. The male rib shall have spurs to ensure a positive double interlocking action at side-laps. Each pan shall incorporate transverse stiffener ribs.

Assembly

It is recommended that Klip-Tite™ sheeting be laid by an approved contractor in strict accordance with the manufacturer's specifications. When using a GRS Approved Contractor, a five year guarantee on site-workmanship and water tightness may be issued after approval by Global Roofing Solutions.

Flashings

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.

Life Cycle Cost of Roofing

Aluminium's extended life expectancy and virtually maintenance-free characteristics makes it cost effective over the long term.

The cumulative cost chart was based on a study of a major industrial development in the Durban South area.

Site Handling

Klip-Tite™ sheets should be suitably supported clear of the ground, under well ventilated cover, away from risk of damage by building operations, contact with cement, dust, lime and abrasive dust, until required to be installed.

Cleaning Up

The complete roof must be kept clean and free of any swarf and debris.

Quality Assurance

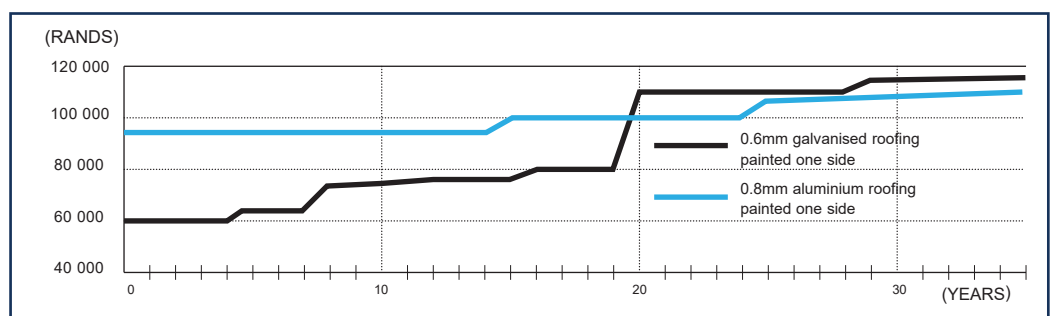
The manufacturer shall be assessed and certified as complying with ISO 9001:2015 Quality Management System.

Solar Clamp

Please refer to GRS PV Clamp brochure.

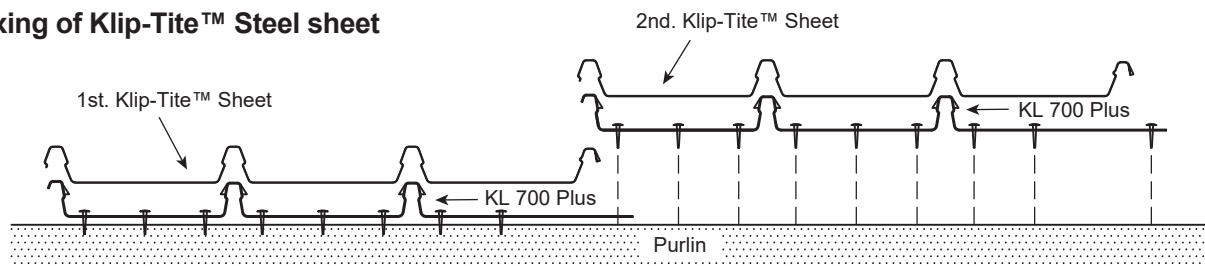
Note

A GRS / Brownbuilt installation warranty will only be honoured if PV Clamps are correctly installed with photovoltaic panels.



The Concealed Fixing Concept

Fixing of Klip-Tite™ Steel sheet



Fasteners for Steel Sheets

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

For Steel Purlins

At least 3 threads should protrude past the support.

1mm to 4,5mm thick

No.10 - 16 x 16mm long self-drilling Wafer head PH2 screws #3 drill point.

5mm to 12,5mm thick

No.12 - 24 x 38mm long self-drilling Wafer head PH3 screws #5 drill point.

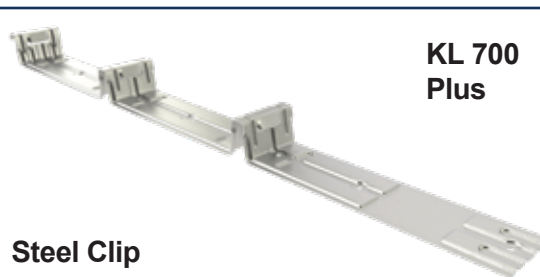
For Timber Purlins

The screw should penetrate the purlin by the same depth recommended as if there were no insulation.

No.10 - 11 x 45mm long self-drilling Wafer head PH2 screws. Type 17 drill point.

Note

Where screws exceed 45mm long, they should be No.12 with a PH3 head.

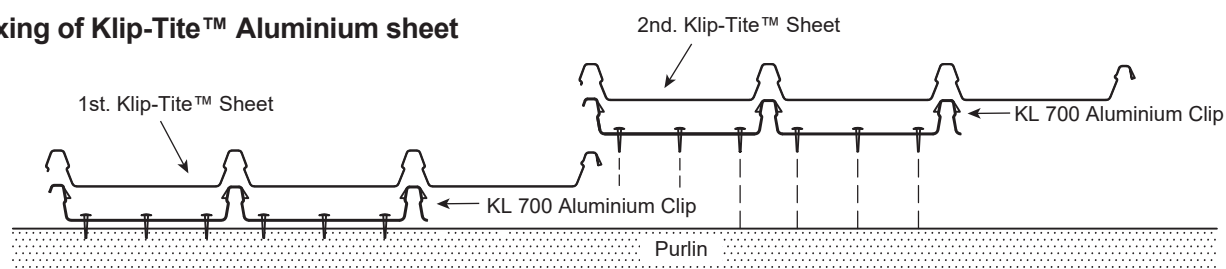


Steel Clip

Note

Fasteners must be selected to match the life expectancy of the roofing and cladding material. The coating class for 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.

Fixing of Klip-Tite™ Aluminium sheet



Fasteners for Aluminium Sheets

The recommended fasteners for fixing the Aluminium KL700 clips to steel or timber purlins are 304 stainless steel fasteners as follows:

Steel Purlins - (1mm - 4.5mm thick)

No. 10 -16 x 22mm lg. 304 stainless steel bi-metal self-drilling wafer head PH2 screw, No. 3 drill point, ZAP Class 5.

Steel Purlins - (5mm - 12.5mm thick)

No. 12 - 24 x 38mm lg. 304 stainless steel bi-metal self-drilling wafer head PH3 screw, No. 5 drill point, ZAP Class 5.

*For extremely corrosive areas, please contact GRS

For 50mm insulation blanket over purlins:

No. 10 - 16 x 22mm lg. 304 stainless steel bi-metal self-drilling wafer head PH2 screw, No. 3 drill point, ZAP Class 5.

Timber Purlins

No. 10 - 11 x 45mm lg. 304 stainless steel self-drilling wafer head PH2 screw, Type 17 drill point, ZAP Class 5.



Aluminium Clip

Where insulation is installed

Between purlin and sheeting, the length of screws should be increased, depending on the compressed thickness and density of the insulation. Please refer to the GRS Installation Manual for additional information on insulation fixing details.

*For light steel frame purlins less than 1mm thick, please contact GRS.

