

**Angular Interlocking Standing Seam Trapezoidal Rib Profile**



Rigidity



Strength



Light weight



Design Flexibility



Maintenance Free



Puncher less Roofing



On Site Profiling



Architecturally Attractive



Long Spanning Capabilities



Weather Ability & Durability



Fully Trained Installation Teams



### Product Description & Features

Saflok 700 - concealed fix is an angular interlocking standing seam trapezoidal rib profile, roll formed on our stationary and mobile mills from our various material specification options.

- Saflok 700 is an angular interlocking trapezoidal rib profile with a nett cover width of 700 mm.
- Saflok 700 has a unique clipping system, which combines both strength and agility to enable the material to expand and contract under normal circumstances with no damage to the material. The bends on the clip allows for flexibility whilst still providing sheer strength. The clip allows for positive interlocking on all flutes and interlock with each other allowing for easy alignment of the material.
- The fully interlocking Saflok 700 clip is to incorporate two anchors to clasp the two inner ribs and a dual action component to positively hold down the male-female joint. For any further specifications please contact our technical department.

### Sample specification and installation

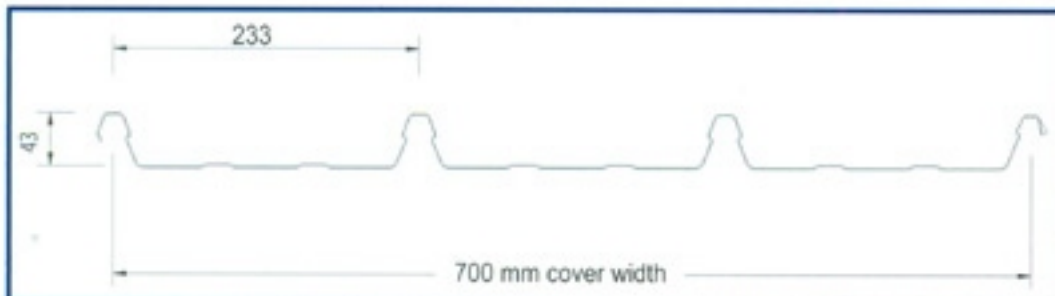
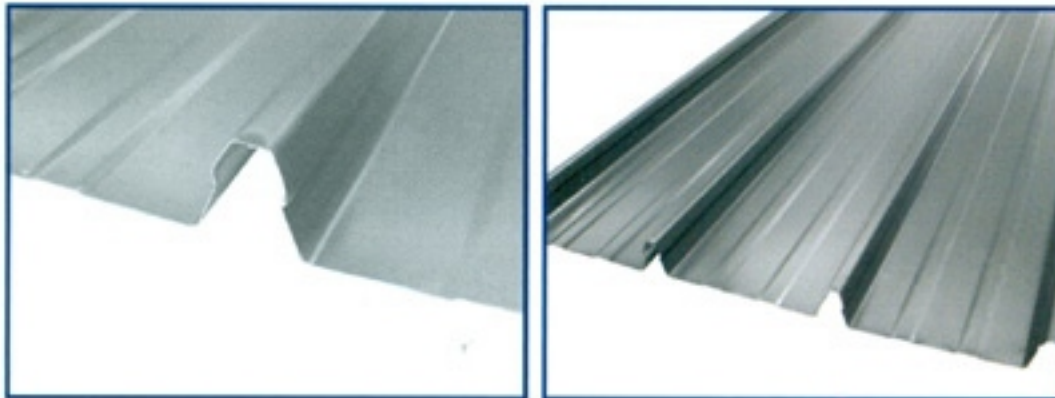
The profile shall be roll formed with 4 ribs and centres with spacing 233 mm and a cover width of 700 mm. The depths of the flutes are 43 mm and include capillary breaks with spurs at 300 mm along the edge of the male rib to ensure positive interlocking of the side laps. Two stiffening ribs are incorporated in each pan.

Safintra 0.50 mm thick Saflok 700 Bare/Prepainted Canyon Red interlocking roof sheeting with Z275 spelter to both sides fixed to steel intermediate purlins at 2000 mm, ridge purlins at 1700 mm centres and eaves purlins at 1800 mm centres using Saflok 700 clips screw fixed to steel purlins secured with 3No. 10 x 16 mm or 12 x 25 mm wafer head self tapping screws, all in accordance with manufacturer's recommendations.

Saflok 700 sheet may be cranked and bullnosed but not reverse bullnosed. Minimum radius is 450 mm. Minimum radii for springing or draping is 36 metres convex and 60 m concave. On-site cranking is available on request.

Saflok 700 can be ordered in any practical length as per customer requirements. On site rolling is recommended for lengths in excess of 13 metres. The minimum roof pitch when using Saflok 700 is 2 degrees.

This clipping profile is fastened to the purlin by means of a sheet clip. Sheets are locked onto the clips and therefore not perforated. It is essential that the male rib is directly engaged to the underside of the clip.



All Dimensions in the above drawing are in mm

### Material Options

Galvanised / PPGI	Gauge (mm)
Z 120 550 Mpa	0.40 to 0.80
Z 180 550 Mpa	
Z 275 550 Mpa	
Galvalume / PPGL	Gauge (mm)
AZ 70 550 Mpa	0.40 to 0.80
AZ 100 550 Mpa	
AZ 150 550 Mpa	
Aluminium	Gauge (mm)
Mill Finish / Stucco Embossed	0.80 to 1.20
PVDF	

A length variation range of  $\pm 5.0$  mm, and width tolerance of  $\pm 3.0$  mm is permissible.

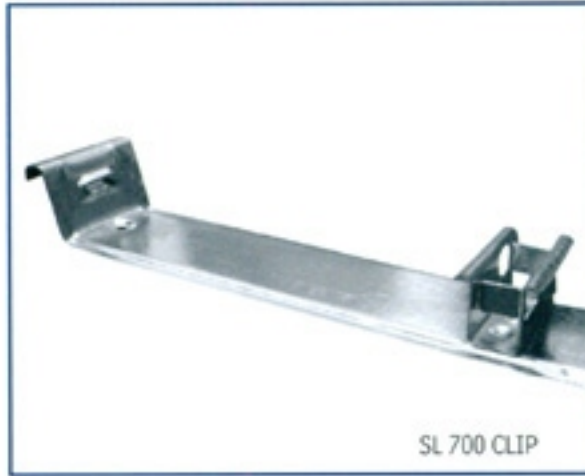
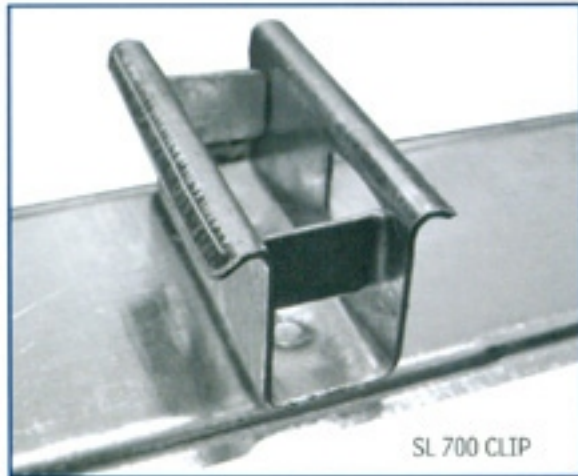
Dimensions				
Profile	Cover Width*	Crest	Pitch	Sheet Width
Saflok 700	700 mm	43 mm	233 mm	730 mm

\* We sell all our profiles on cover width basis

#### NBI Aluminium clip.

As an extension to the above an Aluminium clip has been designed to compliment the system. Equally, a galvanized clip will also create galvanic corrosion when used with Aluminium sheet. When using Saflok Aluminium on galvanized steel purlins it is recommended to make use of an isolation tape to prevent the bridging of the two dissimilar materials. The recommended tape is a "Denso LDP 300" or similar. Should the two metals have direct contact it will ultimately result in the manifestation of galvanic corrosion. The service life of the Aluminium will be compromised.

### Fixing Accessories



### Fixing Instructions



**Step 1**  
Fix the first Safflok 700 clips perpendicular to the gutter in a straight line on the edge first sheet to ensure straightness. Care should be taken to ensure that the overlap is facing away from the prevailing weather.



**Step 2**  
Locate the first sheet above the clips ensuring that the overhang into the gutter is correct. Push downwards on the Safflok 700 sheet until the decking is secured at every clip. Do not use excessive force.



**Step 3**  
Lap the next Safflok 700 clip over the top of the male rib.



**Step 4**  
The holes on the existing and new clip will align and hook into place on the self locating tabs. Fasten this section first and fix the remaining two holes as previously. Fasten all clips in this manner.



**Step 5**  
Lay the next Safflok 700 sheet. Inspections should be made periodically to ensure the decking is installed squarely. This can be done by comparing the coverage at the ridge and gutter line. At the end of the purlins cut the deck and clip to suit.



**Step 6**  
Locate the next sheet above the clips ensuring that the overhang into the gutter is correct. Push downwards on the Safflok 700 sheet until the decking is secured at every clip. Do not use excessive force.

**Note:**  
During installation, clean the roof daily by removing all swarf, pop rivets and fasteners.

### Purlin Spacing (mm)

Type of Span	Steel				Total Coated Thickness
	0.47 mm	0.50 mm	0.55 mm	0.60 mm	Aluminium 0.80 mm
<b>Roofs</b>					
Single Span	1400	1400	1700	1700	1400
End Span	1700	1700	2100	2100	1500
Internal Span	2000	2000	2300	2300	2000
Cantilever (Unstiffened)	150	150	260	260	180
Cantilever (Stiffened)	350	350	400	400	350
<b>Side Cladding</b>					
Single Span	2100	2100	2300	2300	1600
End Span	2400	2400	2600	2600	2200
Internal Span	2600	2600	2700	2700	2400
Cantilever	300	300	400	400	300

Purlin Spacings are dependant on both downward loading and negative suction loading caused by wind. Your engineer should be consulted to calculate your load (kn/m<sup>2</sup>) for your particular application. A broad guideline for purlin spacings is shown in the table. Internal Span refers to a length of sheet continuously supported over 3 or more purlins.

### Maximum Roof Run (m)

Rainfall Intensity mm/hour	Roof Slope				
	2°	3°	5°	8°	10°
250	75	90	-	-	-
300	65	75	95	-	-
400	50	55	70	80	90
500	40	45	55	65	70

**Please bear in mind, large overhangs require special precautions and design.**

#### High Wind Load And Polyslider Clip

For designs exceeding wind terrain category 3, non standard design overhangs or high buildings would require the HWL Clip.

This clip is designed to allow for expansion and contraction of up to 100 mm. The clips can be attached individually to the purlin or preassembled on a 700 mm base that has interlocking recessed holes that maintain the fluting centres along the entire length of the building.

Bearing in mind that polycarb sheeting has an expansion rate six times that of steel. It is therefore inadvisable to attempt to positive fix the sheeting of lengths exceeding 2 m.

#### Clip On Flashing Slider

A more cost effective method of attaching flashing is that the conventional sliding bracket, the Clip on Slider clips onto the rib of the profiled sheet in any position without the need for fasteners (therefore no piercing damage to the roof sheeting) and will slide an infinite linear distance without scratching the roof sheeting. Manufactured from 1.0 mm Z275 galvanised steel or 0.8 mm aluminium.

Please contact Safintra for more information.

### Special Fixing Accessories



**HIGH WIND LOAD AND POLYSLIDER CLIP (HWL CLIP)**

### CORPORATE OFFICE

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