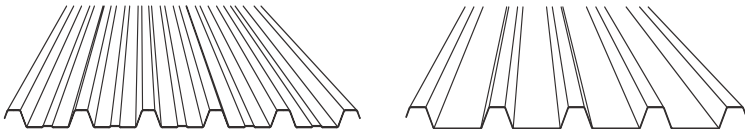


# Global Roofing Solutions IBR 890 / Supa-Clad & IBR 686



Talk to us, **THE SMART ROOF PEOPLE**  
Visit [www.globalroofs.co.za](http://www.globalroofs.co.za) or email  
[info@globalroofs.co.za](mailto:info@globalroofs.co.za)



# Typical specification

## Materials

### IBR 686

The roofing / side cladding shall be IBR 686 profile, in (select from table below). IBR 686 is obtained from Global Roofing Solutions (Pty) Ltd.

Material	Steel	Colour One Side	Colour Two Side
Galvanised Z275	ISQ 550 for 0.5mm ISQ 300 for 0.58mm ISQ 230 for 0.8mm	_____	_____
Chromadek® Z200		✓	Special
Zincalume® AZ150	G550	_____	_____
Clean COLORBOND™ AZ150		✓	Special
ZincAL® AZ150	G550	_____	_____
COLORPLUS® AZ150		✓	Special

### IBR 890 / Supa-Clad

The roofing / side cladding shall be IBR 890 / Supa-Clad profile and can be light industrial / heavy industrial in (select from table below). IBR 890 / Supa-Clad 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

### IBR 686

The profile shall have five trapezoidal ribs at 171.5 mm centres giving a nett cover of 686 mm with each pan incorporating one stiffener rib. The rib height shall be 37 mm. We do not recommend IBR 686 be rolled without a stiffener rib in the pan, due to the possibility of oil canning.

### IBR 890 / Supa-Clad

The profile shall have six trapezoidal ribs at 178 mm centres giving a nett cover of 890 mm with each pan incorporating one stiffener rib. The rib height shall be 37 mm. We do not recommend IBR 890 be rolled without a stiffener rib in the pan, due to the possibility of oil canning.

## Assembly

The IBR sheeting shall be laid in strict accordance with the manufacturer's specification.

## Sheet length

IBR is available in sheet lengths limited only by transport restrictions, normal

loads 12.5 m. With special transport arrangements lengths up to 18.6 m can be delivered.

## Flashings

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

## Roof pitch

IBR may be used at a minimum roof pitch of 5° for sheet lengths up to 30 m. A minimum of 7.5° is required for sheet lengths greater than 30 m. For both conditions an approved end-lap sealing strip is recommended.

## Cranking

**IBR 686** can be cranked from a minimum radius of 409mm for material thicknesses of 0.5mm and 0.58mm; and 450mm radius for 0.8mm.

**IBR 890 / Supa-Clad** can be cranked from a minimum radius of 450mm.

## Curving

IBR can be curved to any radius greater than 600 mm for IBR 686, and 800 mm for IBR 890 / Supa-Clad subject to transportation limits.

## Site handling

IBR sheets should be supported clear of the ground and kept well ventilated under cover until required to be installed.

## Cleaning up

The complete roof must be cleaned of all debris before handing over.

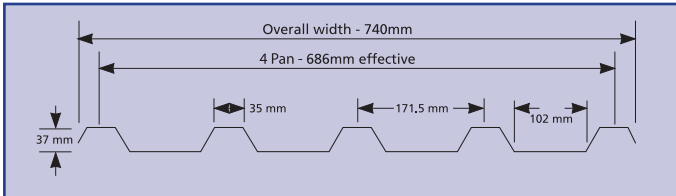
## Quality assurance

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

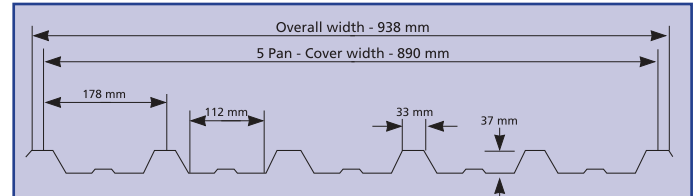


# Profile: IBR 686 & IBR 890 / Supa-Clad

## IBR 686



## IBR 890 / Supa-Clad



**IBR 686 Maximum Allowable Support Spacings (mm)**

TYPE OF SPAN	GALVANISED / CHROMADEK®			ZINCALUME® / COLORBOND™		ZINCAL® / COLORPLUS®	
	0.5 mm ISQ 550	0.58 mm ISQ 300	0.8 mm ISQ230	0.47 mm G550	0.53 mm G550	0.5 mm G550	0.55 mm G550
<b>Roofs</b>							
Single Span	1.550 m	1.750 m	2.250 m	1.550 m	1.750 m	1.550 m	1.750 m
End Span	1.700 m	1.800 m	2.300 m	1.700 m	1.800 m	1.700 m	1.800 m
Internal Span	1.800 m	2.100 m	2.500 m	1.800 m	2.100 m	1.800 m	2.100 m
Cantilever	0.350 m	0.450 m	0.550 m	0.350 m	0.450 m	0.350 m	0.450 m
<b>Walls</b>							
Single Span	2.400 m	2.600 m	2.950 m	2.400 m	2.600 m	2.400 m	2.600 m
End Span	2.500 m	2.700 m	3.000 m	2.500 m	2.700 m	2.500 m	2.700 m
Internal Span	2.750 m	2.950 m	3.600 m	2.750 m	2.950 m	2.750 m	2.950 m
Cantilever	0.850 m	1.000 m	1.150 m	0.850 m	1.000 m	0.850 m	1.000 m
Normal mass kg/m <sup>2</sup>	5.48	6.37	8.76	4.92	5.75	5.3	5.8

**IBR 890 / Supa-Clad Maximum Allowable Support Spacings (mm)**

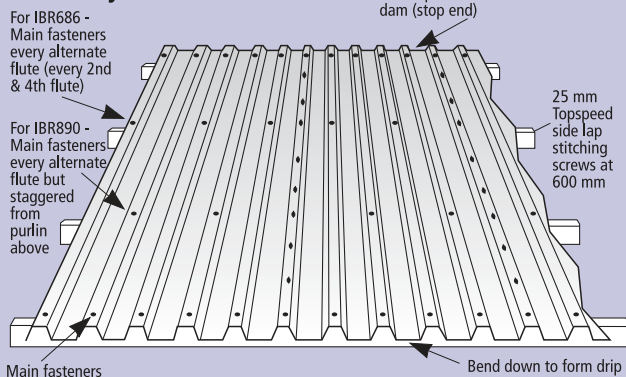
TYPE OF SPAN	GALVANISED / CHROMADEK®		ZINCALUME® / COLORBOND™	
	0.5 mm ISQ 550 (3T)	0.58 mm ISQ 300 (3T)	0.47 mm G550	0.53 mm G550
<b>Roofs</b>				
Single Span	1.800 m	2.000 m	1.800 m	2.000 m
End Span	2.100 m	2.300 m	2.000 m	2.300 m
Internal Span	2.200 m	2.600 m	2.100 m	2.600 m
Cantilever	0.270 m	0.300 m	0.270 m	0.300 m
<b>Walls</b>				
Single Span	2.400 m	2.500 m	2.400 m	2.500 m
End Span	2.900 m	3.100 m	2.900 m	3.100 m
Internal Span	3.100 m	3.400 m	3.100 m	3.400 m
Cantilever	1.100 m	1.200 m	1.100 m	1.200 m
Normal mass kg/m <sup>2</sup>	5.42	6.28	4.92	5.75

### 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. For a full range of compatible fasteners, please refer to the GRS Installation Manual.

# Assembly

## Assembly - Roof



### NOTE: Main fasteners:

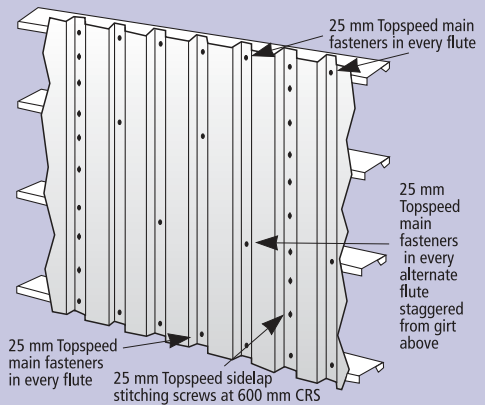
65 mm LG Topspeed screws to be used for steel purlins  
90 mm LG Topspeed screws to be used for timber purlins  
26 mm dia Bonded washers to be used for roof Main fasteners

### Side lap fasteners:

25 mm Lg Topspeed screws to be used for side lap stitching  
19 mm dia bonded washers to be used for side lap stitching

NOTE: Fasteners must be selected to match the life expectancy of the roofing material. Fasteners complying with AS3566 Class 3 should be used in conjunction with 55% Aluminium-Zinc Alloy coated steel

## Assembly - Side Cladding



### NOTE: Main fasteners:

25 mm LG Topspeed screws to be used for steel purlins  
65 mm LG Topspeed screws to be used for timber purlins  
19 mm dia Bonded washers to be used

### Side lap fasteners:

25 mm Lg Topspeed screws to be used for side lap stitching  
19 mm dia Bonded washers to be used for side lap stitching

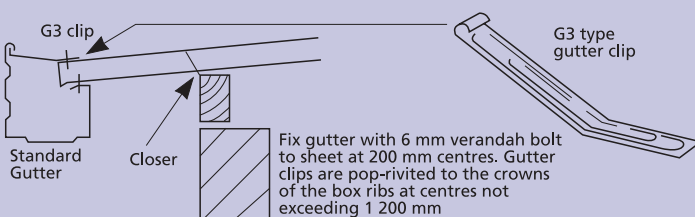
# Popular flashings

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.

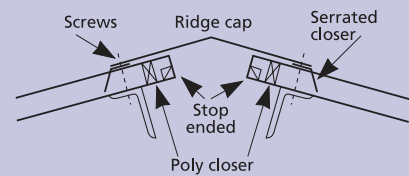
## Note

Fasteners must be selected to match the life expectancy of the roofing material. Class 3 fasteners, complying with SANS 1273, should be used in conjunction with all roofing and cladding material.

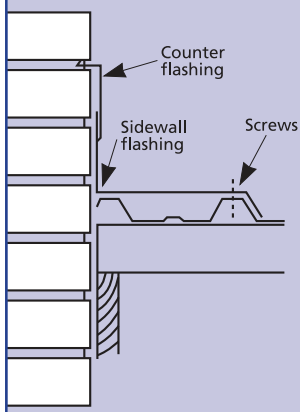
## Gutter detail



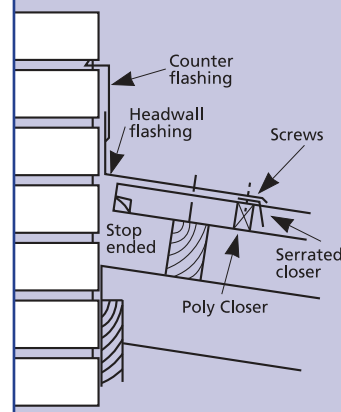
## Ridge flashing



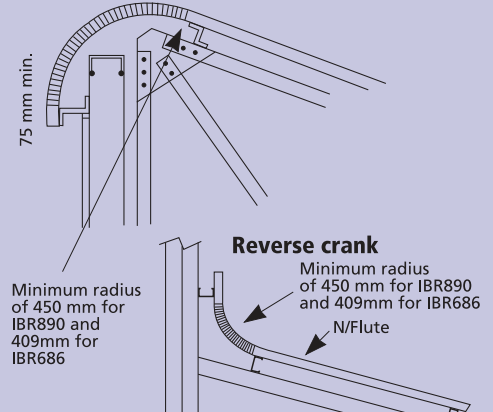
## Sidewall flashing



## Headwall flashing



## Bullnosing



Please visit our website or contact GRS for standard flashing details

Boksburg  
Cape Town  
Durban  
East London  
Bloemfontein  
Rustenburg

Tel: (011) 898 2900  
Tel: (021) 521 1900  
Tel: (031) 538 0940/1/2  
Tel: (043) 731 1895/98  
Tel: (051) 432 3724/6  
Tel: (014) 596 6121

Fax: (011) 892 1455  
Fax: (021) 556 6936  
Fax: (031) 502 3764  
Fax: (043) 731 1926  
Fax: (051) 432 3723  
Fax: 086 644 8344

Zambia  
Botswana  
Namibia  
Zimbabwe  
GRS Exports  
Helm Engineering

Tel: +260967495541  
Tel: +267 3105761  
Tel: +264(0)61 263890  
Tel: +263 4 774 699  
Tel: (011) 898 2900  
Tel: (011) 876 1300

Fax: +267 3105762  
Fax: +264(0)61 263890  
Fax: (011) 892 1455  
Fax: (011) 876 1304