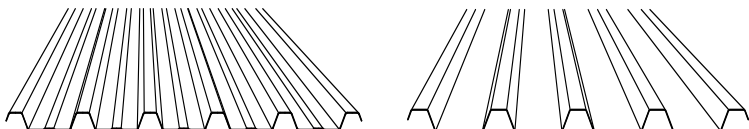


Global Roofing Solutions IBR 686 & IBR 890 Supa-Clad



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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	_____	_____
Chromadek® Z200	ISQ 230 for 0.8mm	✓	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 one stiffener rib in each pan (optional). The rib height shall be 37 mm.

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.

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 polyclosures where necessary.

Roof pitch

IBR may be used at a minimum roof pitch of 5° for sheet lengths up to 20 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 up to 600 mm.

IBR 890 / Supa-Clad can be cranked from a minimum radius of 450mm up to 800 mm.

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

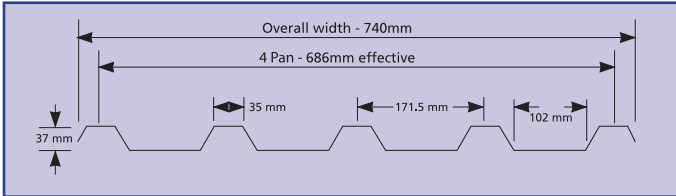
The complete roof must be cleaned of all debris before handing over.

Quality assurance

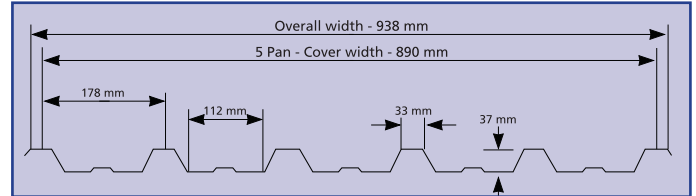
The manufacturer shall be assessed and certified as complying with ISO 9001:2008 Quality Management System.

Profile: IBR 686 & IBR 890 / SupaClad

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
Roofs							
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
Walls							
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/m2	5.48	6.37	8.76	4.92	5.75	5.3	5.8

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

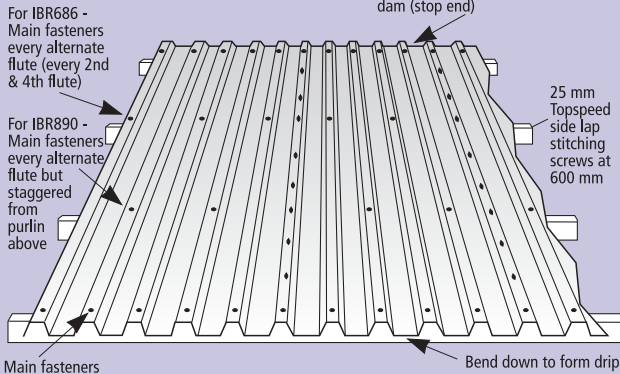
TYPE OF SPAN	GALVANISED / CHROMADEK®		ZINCALUME® / COLORBOND™	
	0.5 mm ISQ 550 (3T)	0.58 mm ISQ 300 (3T)	0.47 mm G550	0.53 mm G550
Roofs				
Single Span	1.800 m	2.000 m	1.800 m	2.000 m
End Span	2.100 m	2.300 m	2.000 m	2.300 m
Internal Span	2.200 m	2.600 m	2.100 m	2.600 m
Cantilever	0.270 m	0.300 m	0.270 m	0.300 m
Walls				
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/m2	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:

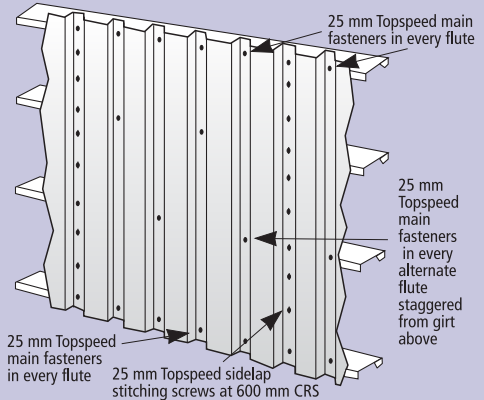
65 mm LG Topspeed screws to be used for steel purlins
90 mm LG Topspeed screws to be used for timber purlins
26 mm dia Bonded washers to be used for roof Main fasteners

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

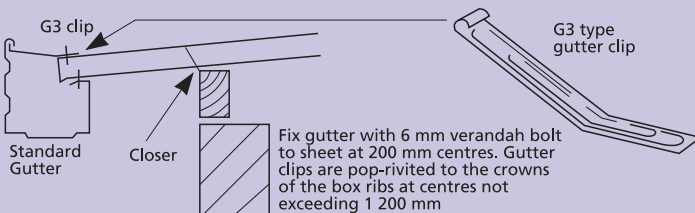
Popular flashings

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.

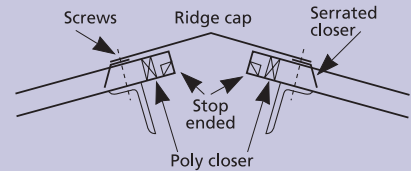
Note

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.

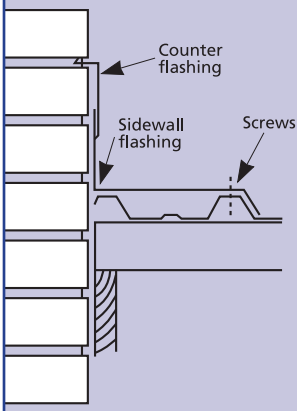
Gutter detail



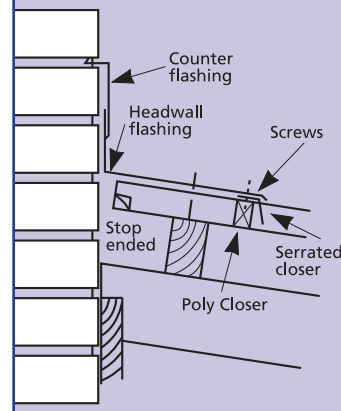
Ridge flashing



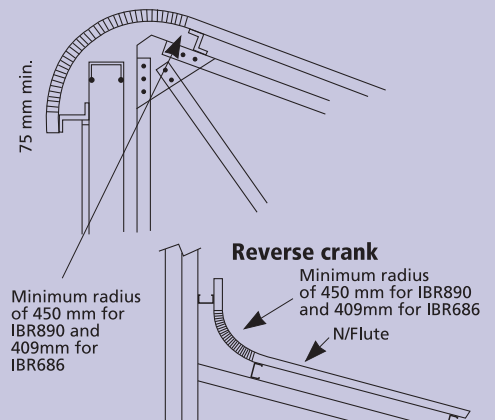
Sidewall flashing



Headwall flashing



Bullnosing



Please visit our website or contact GRS for standard flashing details

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