

GRS IBR 686

GRS IBR 686 PROFILED SHEETING AND ACCESSORIES

SHEETING PROFILE

The roof/side cladding shall be GRS GRS IBR 686 profile from certified (**select from:** Galvanised 0.5mm/0.58mm /0.8mm **OR** ZINCALUME® 0.47mm/0.53mm **OR** ZincAL® 0.5mm/0.55mm) steel. A certificate verifying compliance shall be issued by the manufacturer, Global Roofing Solutions. The profile shall have 5 trapezoidal ribs at 171.5mm centres giving a net cover of 686mm with each pan incorporating a stiffener rib. The rib height shall be 37mm. GRS IBR 686 shall be obtained from Global Roofing Solutions (011) 898-2900.

MATERIAL AND FINISH FOR GRS IBR 686 ROOF SHEETING

Select from below:

- Galvanized steel Z275 0.5mm complying with ISQ 550 (3T) (A653)
- Galvanised steel Z200 0.5mm complying with ISQ 550 (3T) (A653) with a Chromadek® colour coated finish to one side with a Pebble Grey backing coat **OR** colour coated to two sides
- Galvanized steel Z275 0.58mm complying with ISQ 300
- Galvanised steel Z200 0.58mm complying with ISQ300 with a Chromadek® colour coated finish to one side with a Pebble Grey backing coat **OR** colour coated to two sides
- Galvanized steel Z275 0.8mm complying with ISQ 230
- Galvanised steel Z200 0.8mm complying with ISQ 230 with a Chromadek® colour coated finish to one side with a Pebble Grey backing coat **OR** colour coated to two sides
- ZINCALUME® AZ150 coated steel G550 in mill finish
- ZINCALUME® AZ150 coated steel G550 with a Clean COLORBOND™ colour coated finish to one side with a Shadow Grey backing coat **OR** colour coated to two sides(**Not standard, by special request only**)
- ZincAL® AZ150 coated steel G550 in mill finish
- ZincAL® AZ150 coated steel G550 with a ColorPLUS® colour coated finish to one side with a Cool Grey backing coat **OR** colour coated to two sides(**Not standard, by special request only**)

FIXING GRS IBR 686

The sheeting shall be laid with side-laps on the leeward side of the prevailing wind direction. An approved side-lap sealant shall be incorporated on roofing with a pitch of less than 15 degrees. All fixing holes shall be drilled and not punched. Roof sheets shall be fixed by means of No.14 Topspeed Hex Head screws 65mm long for steel purlins or 90mm long for timber purlins and shall incorporate 26mm diameter bonded washers. Side-lap stitching shall be effected at no more than 600mm centres with 25mm long Topspeed Hex Head screws and shall incorporate 19mm diameter bonded washers.

Side Cladding shall be fixed by means of No. 14 Hex Head screws 25mm long for steel girts or 65mm long for timber girts and shall incorporate 19mm diameter bonded washers. Side-lap stitching shall be effected at no more than 600mm centres with 25mm long Topspeed Hex Head screws and shall incorporate 19mm diameter bonded washers.

GRS IBR 686 FLASHINGS

Stop endings must be formed at apex to form a dam and the pan turned down to form drip. The roof sheeting shall be closed as necessary with purpose made flashings and shall incorporate serrated closers and poly closers where necessary. Flashing shall be fixed to roofing by means of No. 14 Topspeed Hex head screws 25mm long with 26mm diameter bonded washers on roof and 19mm diameter bonded washers for side cladding.

SAFETY

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.

INSTALLATION

Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, should be replaced. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surfaces in order to prevent steel particles from penetrating coated surfaces.

HANDLING AND STORAGE

The contractor shall ensure that all materials used on site for roofing/cladding, be transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.

INSPECTION PRIOR TO INSTALLATION

Before commencing installation, the contractor shall verify that the following items have been checked and accepted:

- a. The entire structure or the portion thereof to be sheeted has been correctly aligned, leveled and grouted.
- b. Purlins and girts are at the correct spacing and are within the specified tolerances.
- c. The corners of the roof are square and the wall framework is perpendicular or as specified.
- d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework.
- e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square.
- f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or, so dealt with that direct contact with the sheeting is avoided.
- g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding.

PROTRUSION THROUGH SHEETED SURFACES

Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugations.

QUALITY ASSURANCE

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

CLEANING OF ROOF, ETC.

All debris, swarf, etc arising from the fixing of the cladding shall be removed from the sheeting as the fixing progresses. In addition, off-cuts of insulation, surplus fasteners, sealants, mandrels from pop rivets, off-cuts of sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, down pipes, etc.

BILL DESCRIPTIONS

Please refer to next page...

BILL DESCRIPTIONS

Item	Description	Unit	Quantity	Rate	Total
1.	<p>Roofing/Side Cladding shall be GRS IBR 686 roll-formed from certified</p> <p>*(Insert one of options below in this space)</p> <p>and fixed to steel/timber purlins/girts using class 3 fastners, in strict accordance with manufacturer's specifications.</p> <p>Manufacturer: Global Roofing Solutions Tel.(011)898-2900</p> <p>*Options of finish to be placed above:</p> <p>(Galvanised Steel)</p> <ul style="list-style-type: none"> • Galvanized steel Z275 0.5mm complying with ISQ 550 (3T) (A653) • Galvanized steel Z275 0.58mm complying with ISQ 300 • Galvanized steel Z275 0.8mm complying with ISQ 230 • Galvanised steel Z200 0.5mm complying with ISQ 550 (3T) (A653) with a Chromadek® colour coated finish to one side and standard backing coat, Pebble Grey to other • Galvanised steel Z200 0.58mm complying with ISQ300 with a Chromadek® colour coated finish to one side and standard backing coat, Pebble Grey to other • Galvanised steel Z200 0.8mm complying with ISQ 230 with a Chromadek® colour coated finish to one side and standard backing coat, Pebble Grey to other • Galvanised steel Z200 0.5mm complying with ISQ 550 (3T) (A653) with a Chromadek® colour coated to two sides • Galvanised steel Z200 0.58mm complying with ISQ300 with a Chromadek® colour coated to two sides • Galvanised steel Z200 0.8mm complying with ISQ 230 with a Chromadek® colour coated to two sides <p>(ZINCALUME®)</p> <ul style="list-style-type: none"> • ZINCALUME® AZ150 coated steel G550 0.47mm (Light Industrial) in mill finish • ZINCALUME® AZ150 coated steel G550 0.53mm (Heavy Industrial) in mill finish • ZINCALUME® AZ150 coated steel G550 0.47mm (Light Industrial) with a Clean COLORBOND™ finish to one side and a standard backing coat, Shadow Grey to other • ZINCALUME® AZ150 coated steel G550 0.53mm (Heavy Industrial) with a Clean COLORBOND™ finish to one side and a standard backing coat, Shadow Grey to other • ZINCALUME® AZ150 coated steel G550 0.47mm (Light Industrial) with a Clean COLORBOND™ finish to two sides (Not standard, by special request only) • ZINCALUME® AZ150 coated steel G550 0.53mm (Heavy Industrial) with a Clean COLORBOND™ finish to two sides (Not standard, by special request only) <p>(ZincAL®)</p> <ul style="list-style-type: none"> • ZincAL® AZ150 coated steel G550 0.5mm (Light Industrial) in mill finish • ZincAL® AZ150 coated steel G550 0.55mm (Heavy Industrial) in mill finish • ZincAL® AZ150 coated steel G550 0.5mm (Light Industrial) with a ColorPLUS® finish to one side and a standard backing coat, Cool Grey to other • ZincAL® AZ150 coated steel G550 0.55mm (Heavy Industrial) with a ColorPLUS® finish to one side and a standard backing coat, Cool Grey to other 	M2			

	<ul style="list-style-type: none"> ZincAL® AZ150 coated steel G550 0.5mm (Light Industrial) with a ColorPLUS® finish to two sides (Not standard, by special request only) ZincAL® AZ150 coated steel G550 0.55mm (Heavy Industrial) with a ColorPLUS® finish to two sides (Not standard, by special request only) <p>(Aluminium)</p> <ul style="list-style-type: none"> Aluminium 0,8mm Mill Finish Aluminium 0,9mm Mill Finish Aluminium 0,8mm with a Colortech G4 finish to one side with a standard colour backing coated Aluminium 0,9mm with a Colortech G4 finish to one side with a standard colour backing coated Aluminium 0,8mm with a Colortech G4 finish to two sides Aluminium 0,9mm with a Colortech G4 finish to two sides <p>(Other)</p> <ul style="list-style-type: none"> Stainless steel 0.6mm 				
2.	<p>Bullnosing to a radius of.....mm (450mm min.) OR Curving to a radius of.....mm (from 800mm to 36m)</p>	Lm			
3.	Over and above for rake cutting and waste.	Lm			
4.	Bend up troughs to form a dam.	Lm			
5.	Bend down troughs to form a drip.	Lm			
6.	<p>Translucent Roofing/Side Cladding shall be Modek GRP (Fibre Glass) Heavy / Standard weight with UV surface protection in Clear/Tinted in GRS IBR 686 profile fixed in strict accordance with specification. OR Translucent Roofing / Side Cladding shall be Modek Polycarbonate 1mm / 1.2mm with UV surface protection in Clear / Tinted in GRS IBR 686 profile fixed in strict accordance with specification.</p>	M2			
7.	<p>Roof Insulation shall be: (This serves as a guide only)</p> <ul style="list-style-type: none"> Factorylite Lamdaboard Isoboard Alububble Super Sisalation 420SA. 	M2			
8.	<p>Flashings shall be manufactured from</p> <p>*(Insert one of options below in this space)</p> <p>and fixed in strict accordance to manufacturers specification.</p> <p>*Options of finish to be placed above:</p> <p>(Glavanised Steel)</p> <ul style="list-style-type: none"> Galvanized steel Z275 0.58mm Galvanized steel Z275 0.8mm Galvanized steel Z200 0.58mm with a Chromadek® finish to one side and a standard backing coat, Pebble Grey to other Galvanized steel Z200 0.8mm with a Chromadek® finish to one side and a standard backing coat, Pebble Grey to other Galvanized steel Z200 0.58mm with a Chromadek® finish to two sides Galvanized steel Z200 0.8mm with a Chromadek® finish to two sides 				

	<p>(ZINCALUME®)</p> <ul style="list-style-type: none"> ZINCALUME® AZ150 0.53mm coated steel in mill finish ZINCALUME® AZ150 0.53mm coated steel with a Clean COLORBOND™ finish to one side and a standard backing coat, Shadow Grey to other ZINCALUME® AZ150 0.53mm coated steel with a Clean COLORBOND™ finish to two sides (Not standard, by special request only) <p>(ZincAL®)</p> <ul style="list-style-type: none"> ZincAL® AZ150 0.55mm coated steel in mill finish ZincAL® AZ150 0.55mm coated steel with a ColorPLUS® finish to one side and a standard backing coat, Cool Grey to other ZincAL® AZ150 0.55mm coated steel with a ColorPLUS® finish to two sides (Not standard, by special request only) <p>(Aluminium)</p> <ul style="list-style-type: none"> Aluminium 0,7mm Mill Finish Aluminium 0,8mm Mill Finish Aluminium 0,7mm with a Colortech G4 finish to one side with a standard colour backing coated Aluminium 0,8mm with a Colortech G4 finish to one side with a standard colour backing coated Aluminium 0,7mm with a Colortech G4 finish to two sides. Aluminium 0,8mm with a Colortech G4 finish to two sides. 				
9.	Ridge Cap 462mm girth 1 times bent including B/F Serrated Closers and Poly-Closers.	Lm			
10.	Hip Cap 462mm girth 13 times bent including Serrated Closers and Poly-Closers.	Lm			
11.	Apex Flash 462mm girth 1 times bent including Serrated Closers and Poly-Closers.	Lm			
12.	Headwall Flash 308mm girth 1 times bent including Serrated Closers and Poly-Closers.	Lm			
13.	Sidewall Flash 308mm girth 1 times bent.	Lm			
14.	Curved Sidewall Flash 308mm girth 1 times bent to a radius ofmm.	No			
15.	Counter Flash 185mm girth 2 times bent.	Lm			
16.	Curved Counter Flash 185mm girth 2 times bent to a radius ofmm.	No			
17.	Apron Flash 308mm girth 1 times bent including Serrated Closers and Poly-Closers.	Lm			
18.	Gable Trim (Barge Flash) 462mm girth 1 times bent.	Lm			
19.	Curved Gable Trim 462mm girth 1 times bent to a radius ofmm.	No			
20.	External Corner Trim 462mm girth 1 times bent.	Lm			
21.	Internal Corner Trim 462mm girth 1 times bent.	Lm			
22.	Cap Flash.....mm girth 2 times bent.	Lm			
23.	Drip Flash 231mm girth 3 times bent.	Lm			
24.	Back Flash (Soaker Flash).....mm girth 2 times bent.	Lm			
25.	Valley Gutter.....mm girth 4 times bent.	Lm			
26.	Hood Flash.....mm girth 3 times bent.	Lm			
27.	Door Jamb Flash 231mm girth 3 times bent.	Lm			
28.	Window Jamb Flash 231mm girth 3 times bent.	Lm			
29.	Window Sill Flash 154mm girth 3 times bent.	Lm			
30.	Pipe Flash (Dektite 40mm/50mm/100mm/150mm)	No			
	Note! For special flashing requirements contact Global Roofing Solutions Tel (011) 898-2900				