Global Roofing Solutions
IBR 686 & 890
Supa-Clad

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Typical Specification

Materials

**IBR 686**

The roofing / side cladding shall be IBR 686 profile, in one of the materials in the table below. IBR 686 is obtained from Global Roofing Solutions.

<table>
<thead>
<tr>
<th>Material</th>
<th>Steel</th>
<th>Colour One Side</th>
<th>Colour Two Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>Galvanised Z275</td>
<td>ISQ 550 for 0.5mm ISQ 300 for 0.58mm ISQ 230 for 0.8nm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chromadek® Z200</td>
<td>G550</td>
<td>✔</td>
<td>Special</td>
</tr>
<tr>
<td>Zincalume® AZ150</td>
<td>G550</td>
<td></td>
<td>Special</td>
</tr>
<tr>
<td>Clean COLORBOND™ AZ150</td>
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<td>COLORPLUS® AZ150</td>
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</tbody>
</table>

**IBR 890 / Supa-Clad**

The roofing / side cladding shall be IBR 890 / Supa-Clad profile, in one of the materials in the table below. IBR 890 / Supa-Clad is obtained from Global Roofing Solutions.

<table>
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The Profile

**IBR 686**

The profile shall have five trapezoidal ribs at 171.5mm centres giving a nett cover of 686mm with each pan incorporating one stiffener rib. The rib height shall be 37mm.

**IBR 890 / Supa-Clad**

The profile shall have six trapezoidal ribs at 178mm centres giving a nett cover of 890mm with each pan incorporating one stiffener rib. The rib height shall be 37mm.

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, with normal loads being 12.5m. With special transport arrangements, lengths up to 18.6m can be delivered.

**Roof Pitch**

IBR may be used at a minimum roof pitch of 5° for rafter lengths up to 30m. A minimum of 7.5° is required for rafter lengths greater than 30m. Where possible, the max distance between top and bottom rows of fasteners should not exceed 24m for crest fixing and 15m for valley / pan fixing, after which an expansion joint (step lap) is recommended. For all conditions, end laps must be sealed with an approved sealing strip.

**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.

**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 686 and 890 / Super-Clad can be cranked curved to any radius greater than 800mm subject to transportation limits.

Site Handling

IBR 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 9001:2008 Quality Management System.
Loading

Purlin support centres are based on the following design criteria and obtained through testing:
- Roofs – Ultimate super-imposed distributed load of 1,50 kN/m² and ultimate uplift load of 1,60 kN/m².
- Walls – Ultimate super-imposed distributed load of 0,75 kN/m².

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.
Available in 0.58mm / 0.8mm thick galvanised Z275 steel, 0.53mm thick Zincalume®AZ150 or 0.55mm thick ZincAL®AZ150. Or with a colour option Chromadek (Galvanised Z200), Clean COLORBOND™ (Zincalume®AZ150) or COLORPLUS® (ZincAL®AZ150) finish to one / two sides.

**Popular Flashings**

- **Sidewall flashing**
- **Headwall flashing**
- **Bullnosing**

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Please visit our website or contact GRS for standard flashing details.