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Glass fibre-reinforced concrete (GRC) is a lightweight, strong and durable material, which is widely used for cladding panel, rain screen, tunnel wall covering manufacturing or other architectural structures.

**GRC Product Ranges**

CFS has considerable experience in supplying specialist lifting and fixing details for the GRC industry. Products are available for lifting, fixing support and restraining GRC. CFS is the dedicated construction partner for bigHead® who have the following dedicated range for GRC.

**What are the benefits of bigHead® designs?**

- The unique bigHead® design allows GRC panels to be as thin and light as possible with no additional material required for fixing the bigHead® “anchors”
- bigHead®'s are inserted into the GRC material during the manufacturing process, removing secondary fixing processes, saving assembly time and preventing on-site assembly mistakes
- bigHead®'s are discrete, being only visible from one side
- bigHead®’s are corrosion resistant, made of 316 grade stainless steel
- bigHead®’s withstand very high loads
- bigHead® design versatility maximises GRC design freedom without compromising strength or quality
### Standard Size Range

<table>
<thead>
<tr>
<th>Part No</th>
<th>Thread size</th>
<th>Anchor depths available (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFS-BH-F2/B32-M6x10 (SS)</td>
<td>M6</td>
<td>10</td>
</tr>
<tr>
<td>CFS-BH-F2/B32-M8x10 (SS)</td>
<td>M8</td>
<td>10</td>
</tr>
<tr>
<td>CFS-BH-F2/B32-M10x20 (SS)</td>
<td>M10</td>
<td>20</td>
</tr>
</tbody>
</table>

Other lengths available to order SS = available in stainless steel

### Technical Data

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Tension</th>
<th>Shear</th>
</tr>
</thead>
<tbody>
<tr>
<td>15mm</td>
<td>0.25kN</td>
<td>0.4kN</td>
</tr>
<tr>
<td>40mm</td>
<td>1.0kN</td>
<td>1.25kN</td>
</tr>
<tr>
<td>80mm</td>
<td>1.0kN</td>
<td>1.25kN</td>
</tr>
</tbody>
</table>

For single bigHead® fixings M6 x 10 loads derived with a 4.5:1 factor of safety. Users should check that fixing screws used have adequate shear, tension and bending capacity.

### Special Applications

**SL-FS-ZN-M12 or SL-FS-A4-M12 ETA Stud Anchor**

For use in high load applications please consult CFS. M12 and M16 sizes available

**Cast In Channels**

Available with shallow anchors to suit GRC sections

**Flex Anchors Restraint**

To accommodate thermal movement of GRC

**Support Brackets & Framing Systems**

Designed and manufactured to suit your applications
Toothed Channel insert for GRC Flat Panels

1. 28x15 GRC Toothed Cast in Channel or 28x15 GRC Cast in Channel (without tooth)

Please consult CFS for loads for your particular application

Toothed channel with bonding sleeves cast in the precast panel.

Toothed channel with bonding sleeves cast on top of the precast panel.

De-bonding sleeve for differential movement.