

Photo courtesy of mbreng.co.uk

Beam & Claw

☆☆ Quality manufacture

- ✓ 110x80x110 support beam manufactured from 3mm galvanised steel sheet.
- ✓ CNC bending ensures consistent and accurate quality.
- ✓ Claw: galvanised steel sheet.

👉 Easy to use

- ✓ The fasted GRP support beams to install.
- ✓ Fixing claws locate through the GRP.
- ✓ Cross beams easy to fix in place.
- ✓ Support installed before cuts are made.
- ✓ Not a trip hazard, located in a cupboard.

📋 Made to standard

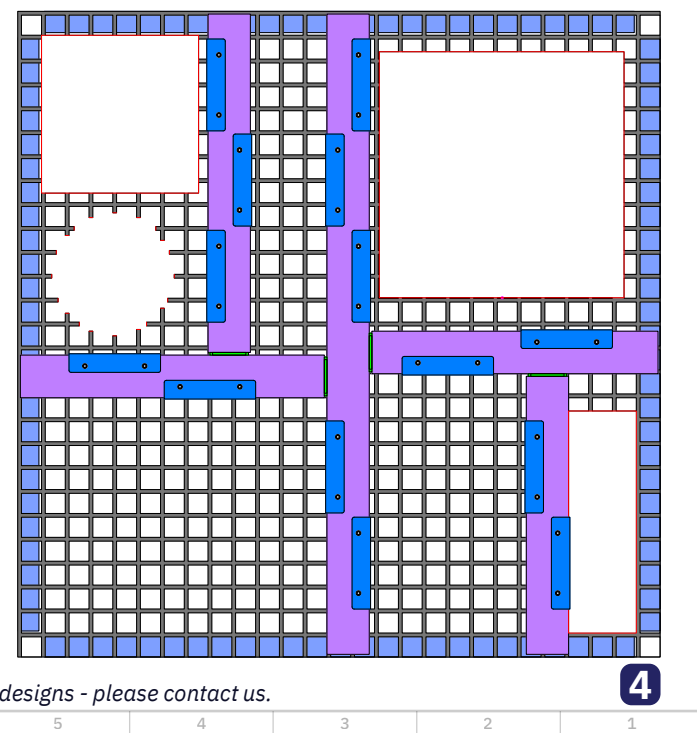
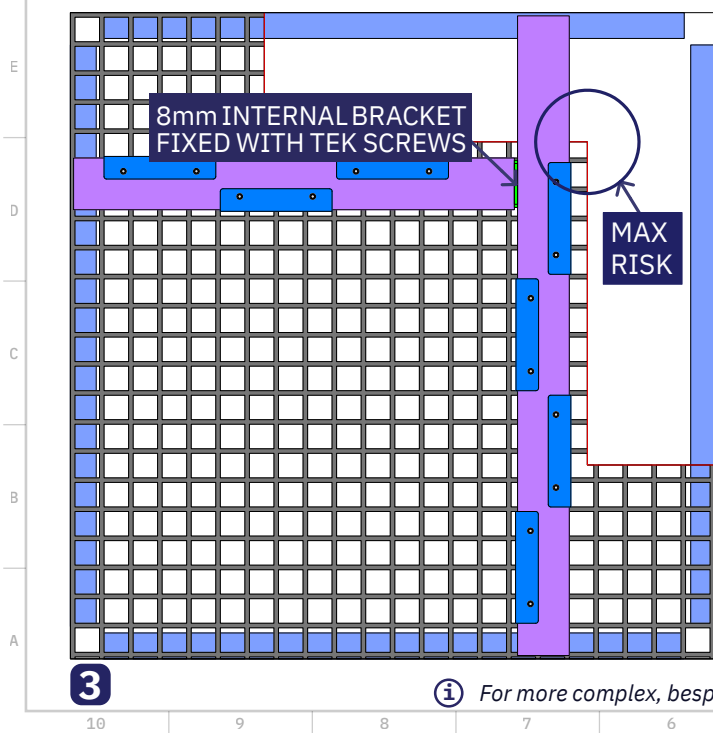
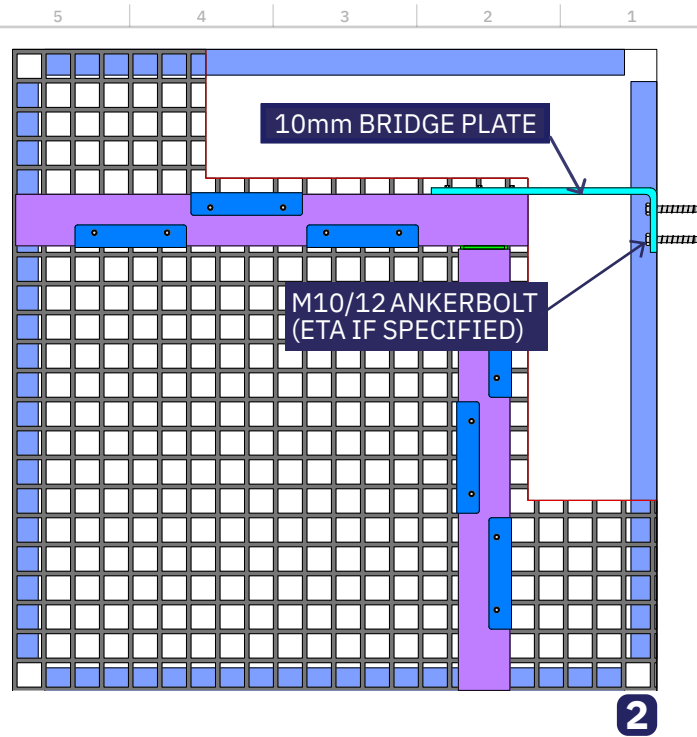
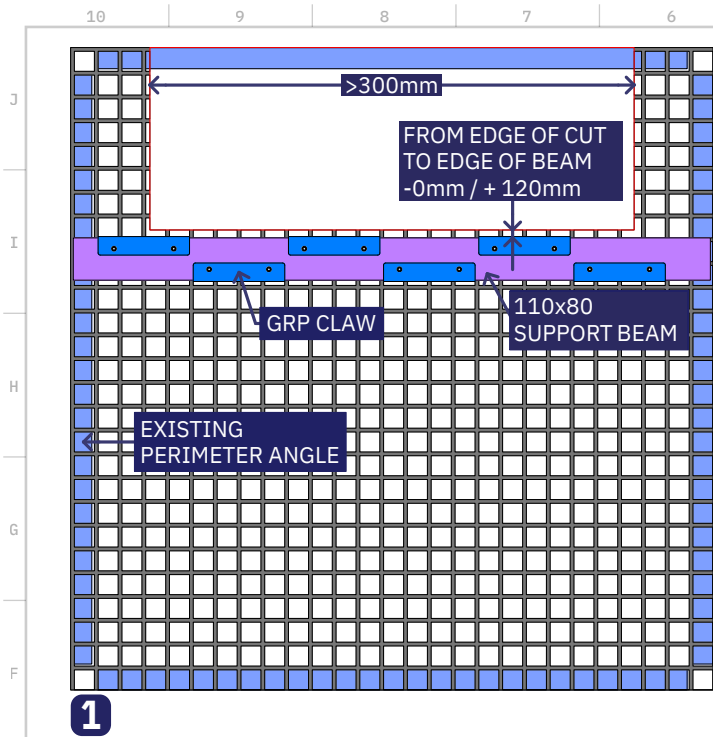
- ✓ Complies with floor loading standards for 2.5kN UDL and 1.5kN concentrated load for L/200 or 10mm maximum deflection.
- ✓ Provides upstand protection to unsafe and vulnerable open areas.

🧑‍🔧 Help and advice

- ✓ Help with riser take-offs to ensure the correct GRP and support structures are installed.
- ✓ Support location advice when M&E service positions are known.

📏 Please allow $\pm 1\text{mm}$ tolerance





i For more complex, bespoke designs - please contact us.

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Technical Information

Manufacture: Support beams and claws are galvanised mild steel of European Standard EN10142:2000, coated with zinc by hot-dip processes (Galvatite Z), including iron-zinc alloy (Galvatite ZF). The hot-dip coatings may contain up to 0.002% lead or up to 0.12% antimony. Fibreglass grating is made from fibrous glass, polyester resin, catalyst (peroxyester), styrene, aluminium oxide, pigments. Ingredients are chemically cured and bonded together.

Personal Protection: Suitable protective clothing covering all exposed body parts should be worn. Equipment, such as safety spectacles, and cut-resistant gloves, should be worn when handling the GRP and metal frames. Wear 3M-respirator mask No 4251 when cutting or grinding GRP. People who have a condition that could be aggravated by dust should avoid cutting or grinding GRP. Avoid breathing dust. Dust produced by cutting or grinding can penetrate the pores of the skin causing itching. When cutting with a jigsaw use Bosch T141HM blade otherwise use diamond tools.

First Aid: Steel parts skin and eye contact: Possible cuts from steel edges. Treat as other cuts; if required, seek medical attention.

GRP dust irritation on the skin – remove person from dust area and shower with soap and water. GRP dust intrusion in the eye – flush at once with sterile eye wash solution.

Fire Fighting Measures: GRP will burn. Avoid direct fire source.

Flash Point: none.

Flammability Limits: none

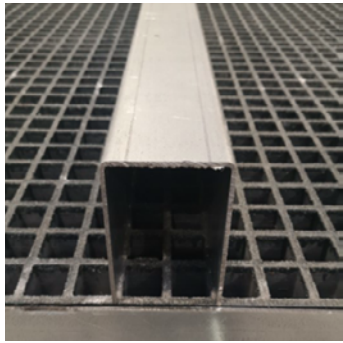
Extinguishing media: water, foam, A, B or C fire extinguishers. Black smoke. Carbon particles. Use air respirator. Self-extinguishing.

Fire Testing: Steel angle, beams and fixings : none. GRP: ASTM E84 class A, 25 or less.

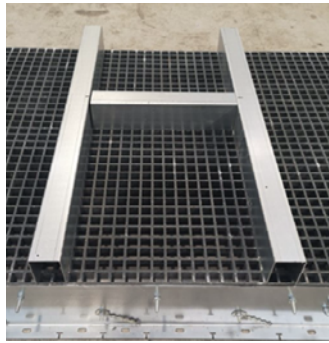
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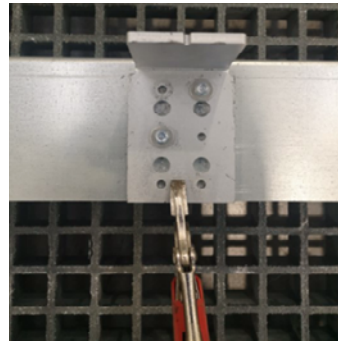
Installation Guide



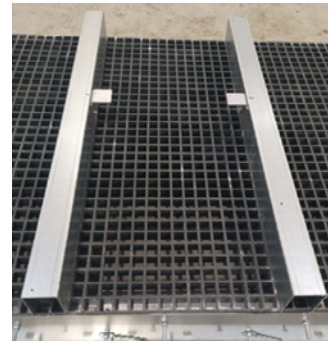
1. Place the beam across 2 No squares in the grating so the sides sit on the bars as close to the required opening as possible.



2. Cut the beams so that the ends sit on top of the supports at the edges. This may require brackets to be fixed to a wall or solid support for the beams to sit on. Mark the position of any cross beams on both sides.



3. For the cross beam align the V in the bracket with the positioning mark. Fix in place with tek screws, holding in place with mole grips or clamps



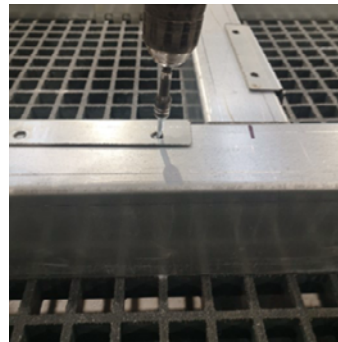
4. When brackets are in place, locate the beams ready for the claws to be fixed. The same brackets are used to fix to walls or support plates using concrete bolts or set screws as per support beam datasheet.



5. Locate the claw next to the cross beam or at the centre of a support beam, drop it through the grating and pull it towards the beam.



6. Where possible, push the claw towards the perpendicular bars so that it increases the support to the GRP panel.



7. Pull the claw in over the top of the beam. Fix in place using the tek screws provided. A minimum of 2 claws per beam should be used.



8. The claws should be located diagonally opposite, end-to-end to spread any applied load along the length of the beam. It is now safe to remove the GRP within the area created by the beams.

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