

# Swiss Solutions Moulded Grating with Embedded Grit Top

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## Product description

### Moulded Grating with Embedded Grit Top

The Swiss Solutions Moulded Grating panels with an embedded grit top are a high performance open mesh flooring system. They are made from high quality FRP (fiber reinforced plastic). The product is used for a vast amount of different applications. The Heavy Duty GRP Embedded Grit grating is constructed using high grade chemical resistant Isophthalic Polyester Resin (see chemical resistance chart). The resin will include a UV inhibitor and be fire retardant according to BS 476 part 7 Class 2 rating. The gratings shall have an "embedded" grit top surface for superior hard wearing qualities. If required panels can be trimmed on site to suit using a small angle grinder with thin diamond cutting blade or for small cuts a professional Jigsaw with appropriate cutting blades.

### Suitable applications

Walkways, Gullies, Trenches, Cooling Towers, Overhead Gantries, Railway Crossings.

### Product characteristics

Slip resistant top surface. Impact resistant. Fire retardant. Corrosion resistant. Lightweight, Non sparking, Tough & durable, Choice of mesh pattern, Choice of thickness, Choice of colours, Choice of top surface, Quick installation, Manufactured to ISO 9001. No scrap value.

Distribution:

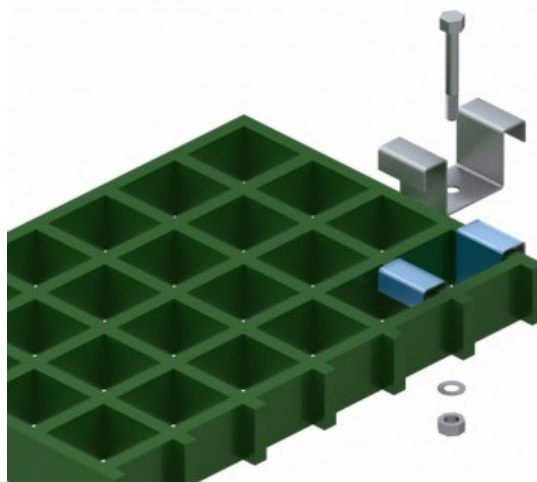
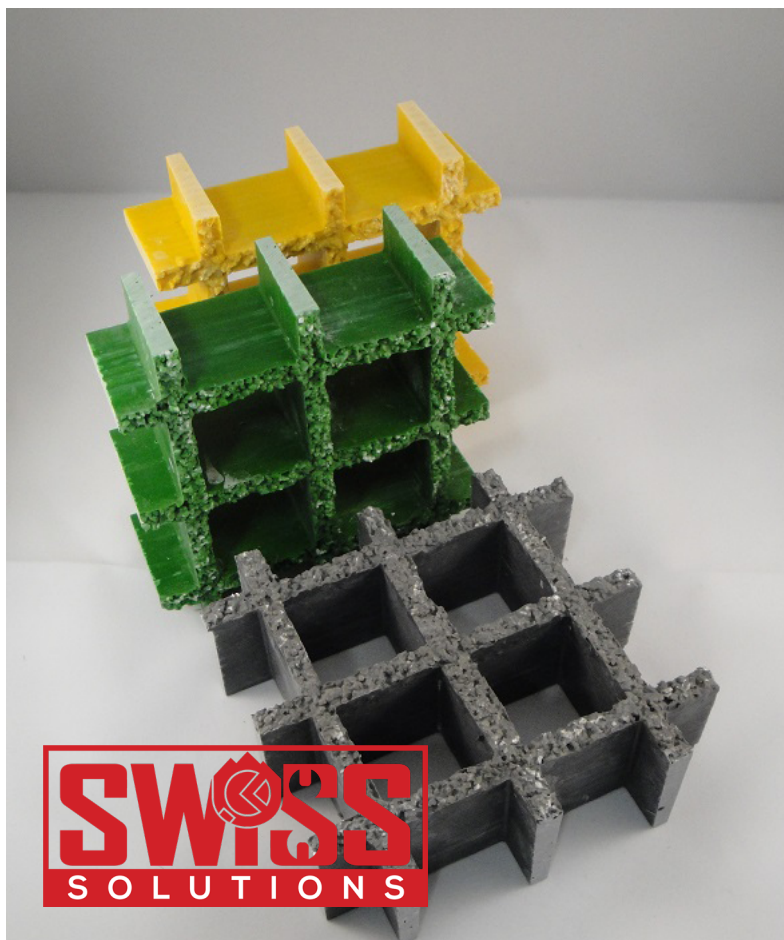
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### Technical data

|                                    |   |                             |  |
|------------------------------------|---|-----------------------------|--|
| <b>Description:</b>                | High performance composite grating system           | <b>Available colours:</b>   | Green, Grey, Yellow (any RAL or BS colour subject to extended lead time)             |
| <b>Top finish:</b>                 | Heavy Duty embedded grit made from ExtremeCore Grit | <b>Panel sizes:</b>         | See separate data sheet  |
| <b>Thickness:</b>                  | 13mm, 14mm, 25mm, 30mm, 38mm, 40mm, 50mm, 60mm      | <b>Mesh pattern:</b>        | See separate data sheet  |
| <b>Cut to size service:</b>        | Yes   | <b>Chemical resistance:</b> | See separate data sheet  |
| <b>Tolerances (including cut):</b> | +/- 7mm length and diagonal                         | <b>Load capabilities:</b>   | See separate data sheet  |
| <b>Depth tolerances:</b>           | +/- 1.5mm   | <b>General use:</b>         | Suitable for industrial traffic  |
| <b>Service temperature:</b>        | -50°C to 105°C                                      | <b>Design life:</b>         | 20+ years (subject to traffic analysis)  |
| <b>Fire retardant:</b>             | Tested to BS 476: Part 7 Class 2                    | <b>General info:</b>        | Swiss Solutions grating fully complies with BS 4592-6:2008 (industrial GRP flooring) |
| <b>Manufactured:</b>               | Made via heated mould system                        |                             |  |

### Slip resistance test results

Moulded Gratings slip resistance levels measured using the Pendulum Test method (WF rubber slider).

Slip resistance of a floor for able bodied pedestrians. The higher the value the safer the floor.

| Top surface                  | Dry reading | Wet reading | Four S Pendulum value                                | Potential for slip                       |
|------------------------------|-------------|-------------|--|--|
| Heavy Duty embedded Grit Top | 71          | 56          | Above the 65<br>35 to 65<br>25 to 35<br>25 and lower | Extremely low<br>Low<br>Moderate<br>High |

To ensure that the above slip resistant levels are maintained the panels should be kept clean in accordance with the information

### Cleaning and maintenance

Whilst the Heavy Duty GRP Embedded Grit Grating is extremely resilient to dirt and contaminants, it can as most other things become dirty. Dirt and debris can easily be removed using a stiff brush and should be carried out on a regular basis.

If Heavy Duty GRP Embedded Grit Top Grating has been subjected to spillages or dirt has become embedded, detergents such as Heavy Duty Degreaser or similar can be used. It is always advisable to test the cleaning product on Heavy Duty Embedded Grit Top Grating before starting the cleaning procedure. This can be done in an inconspicuous area of the installation. Using the detergent, warm water and a suitable brush, scrub the area clean. The excess water can be removed using a wet/dry vacuum cleaner or suitable absorbable materials. Where circumstances allow, Heavy Duty GRP Embedded GRIT Top GRating can be power washed without harm. General Routine Maintenance: The security of the fixings/adhesive should be checked on a regular basis. Circumstances will vary, based upon the volume of foot traffic etc. as a guide monthly inspections would be advisable.

### Handling & storage

Safe handling practices should always be employed and the appropriate Personal Protection Equipment is to be worn. Store the panels flat.

### Personal protection equipment

It is recommended that the following Personal Protection Equipment is worn for installation of the Grating Panels and further protective measures may be necessary but this will depend on the installation environment:

Bonding: Use eye goggles, protective gloves, safety boots

Cutting & mechanical fixing: Use ear defenders, eye goggles, dust mask (Fine dust), protective gloves, safety boots.



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### Cutting

Moulded Grating Panels with Embedded Grit Top can be cut to size using an angle grinder with diamond blade. Cutting should be carried out externally or where there is dust extraction or suitable ventilation and appropriate protective equipment as described should be worn. A jigsaw can be used for trimming or for occasions where only a small amount of cutting is required. Use a laminating jig saw cutting blade.

Cut to size service: It is possible to order the sheets pre-cut to your requirements. Lead time will be longer.

### Preparation

Ensure that the area is clean, dry and free of loose and friable material. Any "dished" or damaged surface areas should be patch repaired to provide a reasonably flat and consistent surface.

Dry fit all Stair Tread Covers to ensure they fit freely and that they sit flat down on the surface. If required, Grating Panels can be trimmed on site to suit, ideally using a small grinder with diamond blade or a skill saw with special blade.

Please ensure that goggles, dust mask and gloves are worn at all times when form of cutting is involved.

Pay always attention on the advised maximum span from the load tables

### Fitting the panels

Always use the advised Swiss solutions Stainless Steel fixing clips for your safety.

There are 4 different fixing clips to install the grating panels in the right way. The fixing clips are made from Stainless Steel 316 to make them corrosion resistant.

#### C Clips:

To be used to join panels together, spacing will be determined by panel thickness but assume one clip to be affixed every 500mm at an angle slot clip over the 2 load bars and twist so the clip is horizontal then screw in the bolt to threaded base of the clip and tighten.

#### M & L Clips:

Set out where you will position your grating clips, a guide would be in each corner and then every 500mm spaces. Push the clips into the open mesh squares so that the clip sits neatly on the load bar(s) and the base of the clip is sitting close to the bottom of the grating panel. If you are fixing directly into the existing surface, pilot drill through the hole in the clip and into the substrate then fix using the appropriate screw and plug. If you are fixing into a support frame you will need to drill through the frame and then put through bolt fitting and tightening the washer and nut underneath the frame.

#### J Clips:

The J Clips can be used in combination with the M clips for support from underneath.



C - Clip



M - Clip



L - Clip



J - Clip Birds Mouth





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