

# Anglia Composites Ltd

COMPOSITE SAFETY SOLUTIONS

## **THE BENEFITS OF COMPOSITE MATERIALS**

Attached are a few leaflets showing our products and the benefits they can offer you.

From stock we can offer you the following products,

- *Fibreglass Gratings*
- *Pultruded Structural Profiles*
- *Stair Treads*
- *Tread covers*
- *Fibreglass Gritted Plate*
- *Stainless Steel Fixings*
- *Handrail Components*

We can also manufacture to order,

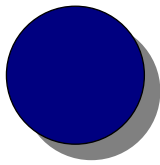
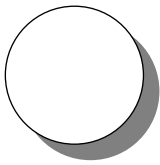
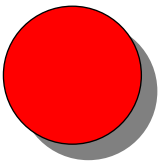
- *Handrail Systems*
- *Platforms and Walkways*
- *Ladders*
- *Ramps*
- *Stairways*

We also offer all customers a completely free of charge cutting service and a free of charge CAD design service.

If there is something you require but do not see it here give us a call. We may be able to help. We have access to low cost tooling for special items and one offs and also hand laid mouldings such as enclosures.



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## **BENEFITS OF FIBREGLASS GRATING**



### **CHEMICAL RESISTANT**

Fibreglass grating is resistant to a wide range of chemicals both caustic and acidic. This is achieved by the use of premium grade resins during manufacture. A comprehensive chemical resistance data chart is available on request.



### **IMPACT RESISTANT**

Fibreglass grating will allow repeated deflection without permanent deformation. Deflection will occur with the impact of a heavy object. However, once the object is removed, fibreglass grating will return to its original shape unlike metallic grating, which will remain deformed.



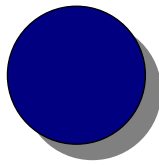
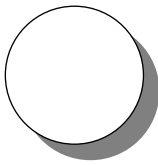
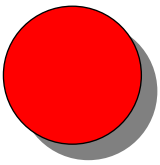
### **SLIP RESISTANT**

The slip resistant feature of fibreglass grating is created during the moulding process when the top surface naturally shrinks back to create a concave effect surface. This is then filled with a hard wearing quartz grit to provide an extended life with amazing anti-slip properties.



### **FIRE RESISTANT**

Our fibreglass grating has been tested in accordance with the ASTM-E-84 tunnel test method and has achieved a class 1 flame spread rating or less. It has also achieved a class 1 rating in accordance with BS 476. A copy of this report is available on request.

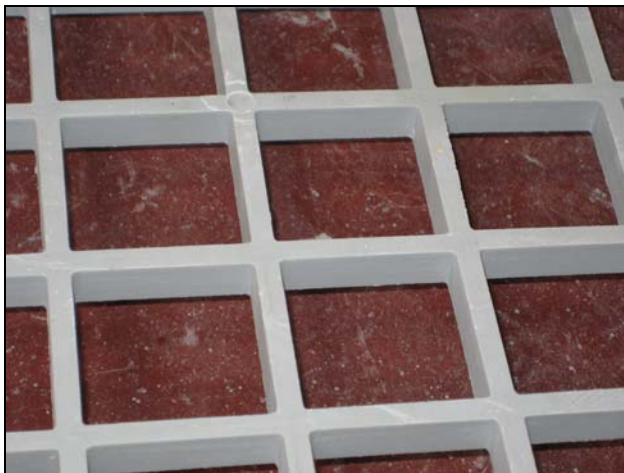


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## **12MM SCREEN GUARD GRATING**

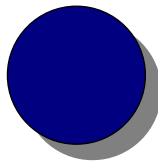
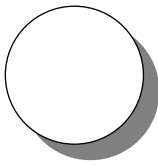
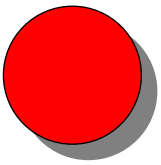
12mm screen guard fibreglass grating is available from stock in grey only. Other RAL colours can be manufactured on request.



This type of grating is used mainly for screen guards and handrail infill panels. Stainless steel fixing clips are also available. The mesh pattern is 50mm x 50mm and is 12mm thick and weighs just 4.5kg square metre.

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## **FIBREGLASS STRUCTURES**

### **HANDRAILS**



We have two standard types of handrail systems. Square section and tubular section. The square section is what we normally use in our workshop and site installations. This handrail system is available in grey or yellow. The tubular system has been designed with customer ease of installation in mind and is available in yellow only.

### **ACCESS STAIRS**



Platforms, stairs, walkways, ramps, handrails and work stations designed, built and installed to your exact requirements by our own skilled craftsmen. A complete design and build service is available.

All stairways are built to British Standards and can incorporate handrails if required. Gratings and treads can be green, yellow or grey and can have a solid black nosing for added strength.

### **PLATFORMS**

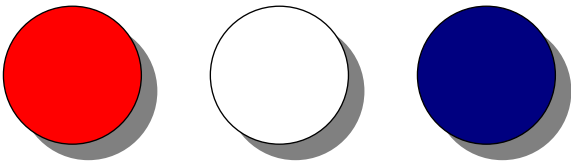


Platforms can be built and installed to customer requirements. Platforms are lightweight, corrosion resistant, fire resistant, thermally stable, non-conductive and require zero maintenance. All platforms are designed using the latest CAD software.

### **LADDERS**



Fibreglass ladders and safety cages are suitable for sewage and water treatment plants, chemical plants, offshore, power stations etc. All ladders are manufactured to British Standards and can incorporate safety cages and walkthroughs with handrails. Ladders are made to order so any size is possible. All ladders come complete with all required wall and floor fixings. Ladders, cages and walkthroughs can be built in either yellow or grey.



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## **FIBREGLASS TUBULAR HANDRAIL SYSTEM**



**TUBE JOINER**



**90 DEG ELBOW**



**TEE PIECE**



**BASE SUPPORT**



**CROSS PIECE**



**SIDE FITTING**



**FLEXI ELBOW**

All fixings come in pairs where applicable. The tube is supplied in standard 6000mm lengths. Yellow is stock colour but any colour can be manufactured to order.

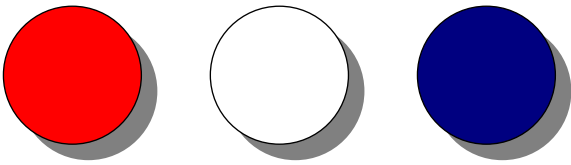


Using the above fittings along with our 50mm dia tube it is possible to create just about any formation of handrail required in a very short space of time. All components are manufactured from fibreglass making them fire resistant, chemical resistant, corrosion resistant, impact resistant, thermally stable, lightweight and maintenance free.

The tube has been tested to BS476 and has achieved a Class 1 rating making it suitable for use as a handrail or barrier. For installation on-site it is recommended that stainless steel rivets are used for fixing. The only tools you will need are a hacksaw for cutting the tube and a drill and riveter for fixing components.

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## **SQUARE SECTION HANDRAIL SYSTEM**



**HANDRAIL**

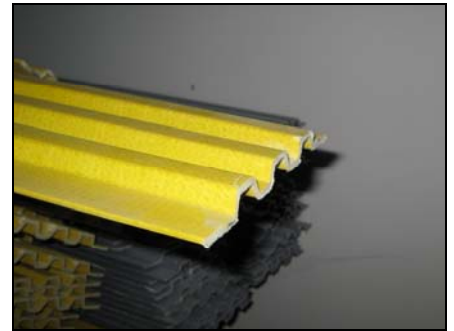


**BOX SECTION**

Our square section handrail system has been designed with permanency and high strength in mind. The system is available in yellow or grey from stock. Lengths of GRP pultruded profiles are available for you to create your own structures or alternatively we will be very pleased to quote you for building or installing handrail systems.



**MIDRAIL TUBE**



**KICK PLATE**

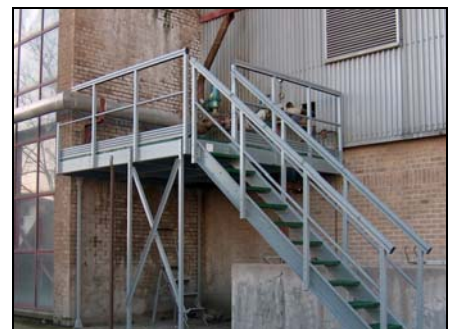
Our square section handrail system has been tested to BS6399-1 and has achieved a class 1 rating making it suitable for use as a handrail or barrier. The system is made up from four components. Handrail, midrail, square section posts and kick plate. There are also Box Feet available for base fixing. Profiles are available from stock in 6metre lengths.



**Box feet for secure fixing**



**Yellow handrail system**



**Grey handrail, platform and stairs**

## **Stair Tread Covers Installation Guide**



### **Apply Adhesive**

Before installation make sure the surface is clean, dry and free from any loose material. If you are fixing to concrete steps that are badly worn it may be necessary to effect minor repairs. Installation is improved if the surface is reasonably flat and smooth. Apply adhesive in beads or dabs. *See below for estimated adhesive usage.*



### **Set In Position**

Set the cover in its final position by simply bedding it in. Apply pressure evenly over the whole tread.

Occasionally you may wish to screw the tread covers down instead of (or as well as) using adhesive. We can pre-drill and countersink your covers free of charge.



### **Seal Edges**

Seal the edges to halt excessive moisture ingress with a black silicone sealant. We can supply adhesives for internal and external use. *Treads can be walked on after 6 hours.*

We can also supply sealants and stainless steel fixings if required.



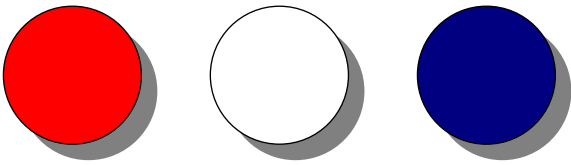
### **Finished Stairs**

Our tread covers are supplied cut to size. If you need to trim the covers on site then use a hard metal blade such as a Bosch **T141 HM** or similar. Landing areas can also be cut to size using larger sheets of gritted plate.

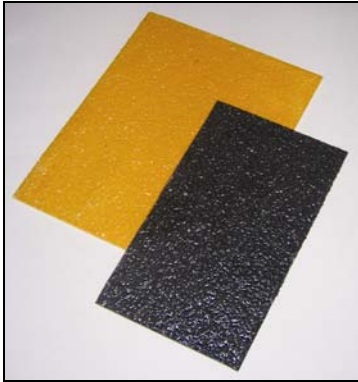
### **Adhesive usage**

The amount of adhesive you need depends on the size of the cover and also the condition of the surface they are being bonded to. For a general guide for tread covers that are 250mm going and 1000mm wide, one 310ml tube will be needed for every three covers.

**Anglia Composites Ltd. Call our sales hotline now – 01787 377 322**

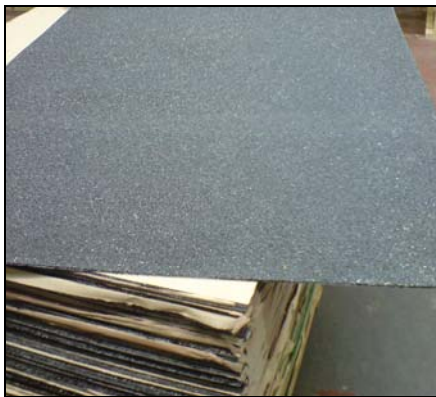


## ANTI-SLIP FIBREGLASS GRITTED PLATE



All sheets of plate have a gritted surface and conform to BS 7976-2 2002 Slip Resistance Test. Our plate has achieved a rating considered to be "Better Than Excellent" in both wet and dry conditions.

Sheets can be cut and drilled for you free of charge for easy installation. Powerful adhesives are also available for internal and external use.



### Technical Data

Thermal Conductivity	0.2 w/mk
Tensile Strength	123 mpa
Tensile Modulus	7.1 gpa
Flexural strength	193 mpa
Max Sheet Size	3.66m x 1.22m
Weight 4mm	4.8 kgs/m <sup>2</sup>
Weight 10mm	12.3 kgs/m <sup>2</sup>

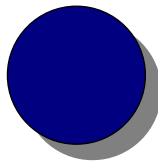
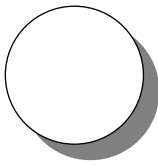
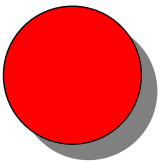


4mm and 10 mm gritted plates are available from stock in 2m x 1m and 2.44m x 1.22m panels. 4mm plate is priced at £60.00 and £90.00 respectively. 10mm plate is priced at £120.00 and £180.00 respectively. Internal adhesive £4.00 310ml tube. External adhesive £6.50 310ml tube.

Use plate to compliment your tread covers on landing areas etc. Tread covers and plate can be cut, drilled and c/sunk free of charge.

If you are using adhesive, please make sure the surface is clean and dry. External adhesive is fast curing. You will have a maximum of 30 minutes depending on temperature. If you require your tread covers and plate to be pre-drilled please let us know what screw size you are using.





## **SPILL CONTAINMENT**

All oils and hazardous materials in drums or IBC's should be stored within a secondary system. Our range of spill containment systems ensure you meet the legal requirements. Our entire range is constructed from corrosion resistant, high strength fibreglass. They are also lightweight, impact resistant and require nil maintenance.



### **SINGLE DRUM SPILL TRAY**

Single drum spill tray capacity 55 litres. Weight is just 15kg and incorporates a fibreglass grating mesh to sit the drum on. Can hold a loading capacity of 500 kgs. Ultra low profile makes handling drums easier. Fully compliant with current UK regulations. Size: 840mm x 840mm x 180mm deep.



### **DOUBLE DRUM SPILL TRAY**

Double drum spill tray capacity 280 litres. Weight is just 30kg and incorporates a fibreglass grating mesh to sit the drums on. Can hold a loading capacity of 1000 kgs. The materials used are chemical resistant. For further information on compatibility with the materials you store contact us and we will ensure a long maintenance free life for your spill containment product. Size: 1380 x 860 x 470 deep.



### **FOUR DRUM SPILL TRAY**

Four drum spill tray capacity 280 litres. Weight is just 40kg and incorporates a fibreglass grating mesh to sit the drums on. Can hold a loading capacity of 2000 kgs. All spill trays include a 25mm thick corrosion resistant fibreglass grating. You can choose a matching green colour or a contrasting yellow as shown. Custom built drum bunds and spill trays can be manufactured to order. Please call for further details. Size: 1380mm x 1380mm x 255mm deep.

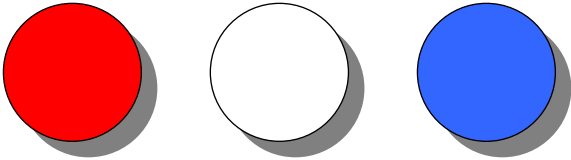


### **IBC BUNDSTANDS**

IBC bund stands are available with or without a bucket facility. A lockable cover is also available. This ensures that any hazardous materials can be stored safely and prevents your bund from filling up with rain water. 1250 litres capacity. Bundstands weigh just 55 kgs yet can support a total weight of 2000kgs. Made from Isophthalic resin for superior chemical resistance.



### **Lockable Lid**



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## **SAFETY GATES PRICE LIST 2007**

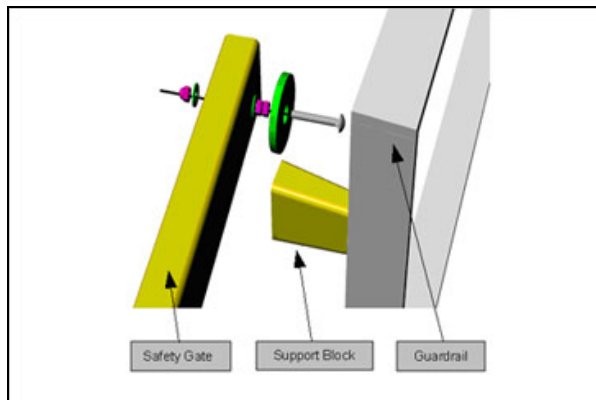
All gates are double bar gates to conform to EN-ISO 14122 part 3:2001 and part 4:2005. Our corrosion resistant gates are self closing and have a knee rail and a handrail. All gates are shipped fully assembled including attachment. Double bar gates only need one hinge.

<u>Opening</u>	<u>Item No.</u>
120-555mm	22L or 22R
556-685mm	27L or 27R
686-810mm	32L or 32R
811-940mm	37L or 37R

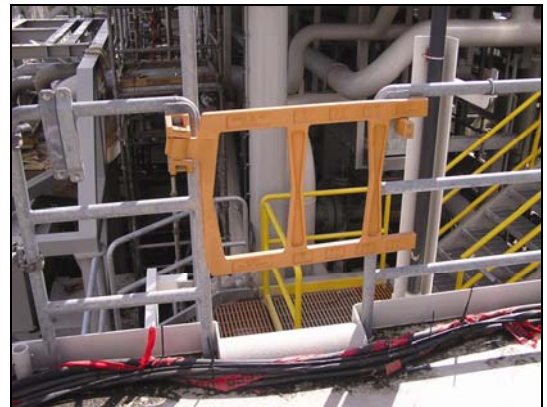


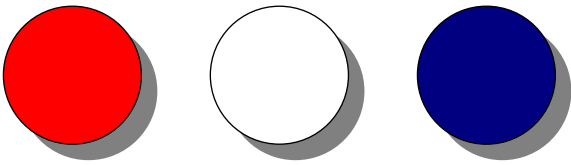
## **SAFETY GATE INSTALLATION INSTRUCTIONS**

- Make sure the blades of the gate are long enough to contact and extend past opposite side guardrail post by 25mm minimum.
- The support block is mounted below the top rail of the gate to prevent vertical deflection. It should not make contact with the gate or interfere with it opening or closing.
- The top rail of the gate should be no more than 1100mm above platform surface.
- If the gate is to be attached to a tubular handrail it will be necessary to weld or bolt a plate to the inside top corners to accept the hinge and support block.



Magnetic 'HOLDTIGHT' kit available





## **TUBULAR HANDRAIL INSTALLATION** **INSTRUCTIONS**



Cut tubes to length with hacksaw



Drill out rivet holes on fittings with 4mm drill



Drill rivet hole through fitting and tube 4mm



Pop rivet fittings into place with M4 x 20



Drill through any base fittings with 8mm drill



Fix base to floor with 10mm anchor bolts



We have a wide range of fittings available to assist you in creating your handrail. You can create many different complicated shapes and styles of handrails quickly and easily on site with the minimum of fuss and with just a few basic hand tools.