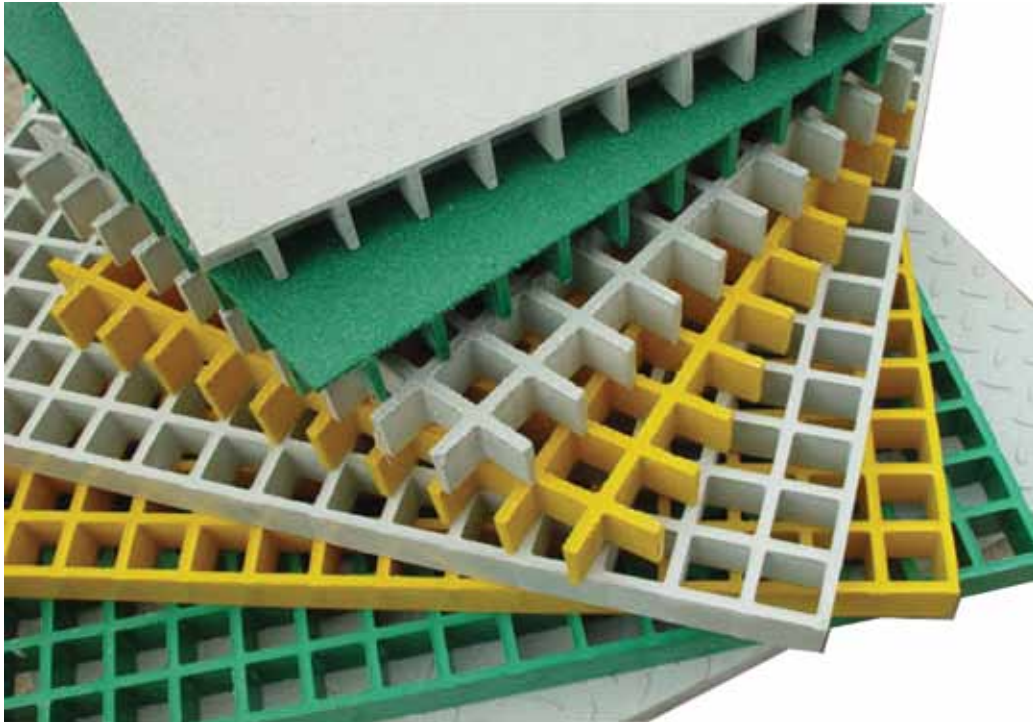




Anglia Composites Ltd
making the world a safer place



Fibreglass Gratings	Disabled Ramps
Anti-Slip Floor Sheets	Stair Nosings
Ladder Rung Covers	Safety Gates
Fibreglass Ladders	Walkways
Work Platforms	Stairs & Steps
Riser Shaft Flooring	Trench Covers
Pultruded Profiles	Mouldings
Handrail Systems	Tread Covers
Roof Walkways	Ladder Guards

Fibreglass Grating

High quality fibreglass grating in a wide variety of sizes and colours.

The Benefits of **Anglia Composites** Fibreglass Grating

Fire resistant - Our fibreglass grating has been tested in accordance with BS476 and has achieved a Class 1 flame spread rating or less. Our entire range of gratings are fire resistant to the same high standard. A fire test report is available on request.

Chemical Resistant - Fibreglass gratings are corrosion resistant over a wide pH range both caustic and acidic. The high level of corrosion resistance is achieved by using premium grade isophthalic and vinyl ester resins. A comprehensive chemical resistance guide is available on request or can be downloaded from the downloads section on our web site.

Slip Resistant - The slip resistance feature of fibreglass grating is created during the moulding process when the top surface naturally shrinks back to create a concave effect surface. This provides positive traction over a wide range of environmental conditions such as wet or oily surfaces. A hard wearing quartz grit is then added for heavy-duty applications, providing an extended life and superior anti-slip properties.

Impact Resistant - Fibreglass grating allows repeated deflection without causing permanent damage or deformation. Deflection will occur with the impact of a heavy object. However, once the object is removed the grating panel will return to its original shape and position unlike metal gratings which will remain deformed and unsafe to walk on. This eliminates the need for costly repair or replacement gratings.

High Strength - Our grating has superior strength and load bearing capabilities due to a high glass to resin ratio. With a tensile strength higher (kilo for kilo) than steel, our gratings are the ideal solution for many safety flooring and access solutions.



Fire Resistant



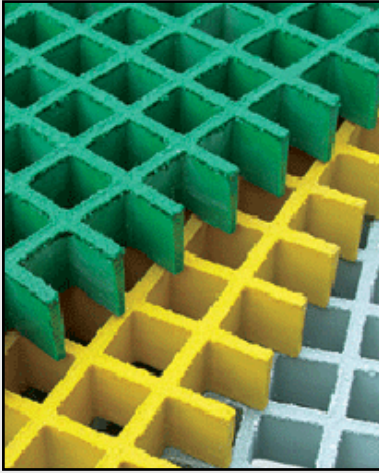
Impact Resistant



Chemical Resistant

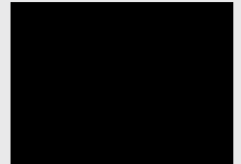


Anglia Composites Grating Types

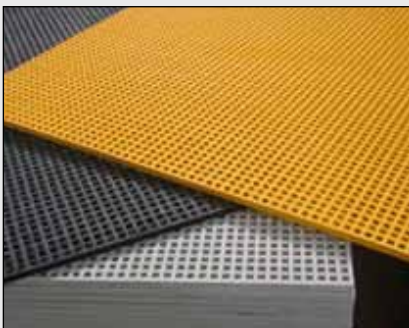


Standard open mesh gratings are available in depths of 25mm, 38mm and 50mm. Panel sizes available from stock are 2m x 1m, 3m x 1m and 3.66m x 1.22m in Green, Yellow and Grey. The hole size is 32mm x 32mm for 25mm and 38mm thick and 43mm x 43mm for 50mm thick grating.

Gratings can be made to any RAL colour with short lead times. All gratings have a hard wearing quartz grit finish.



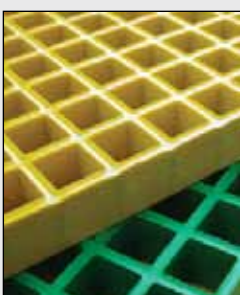
Solid surface grating is manufactured using a standard grating panel with a solid fibreglass sheet bonded to the top surface. An anti-slip finish is then added to offer superior slip resistance even in wet or oily conditions. Standard depths from stock are 25mm and 41mm. Both are available in Green or Grey. This type of grating is ideal for heavy duty gully and trench covers, service ducts, manholes, bridges and tank covers. Any depth of solid surface grating can be made up to 80mm thick.



Mini-mesh gratings are ideal where superior load bearing capabilities are required with a smaller mesh pattern. The small hole size makes it perfect for use with small wheel trolleys and wheelchairs. Available from stock in Grey, Yellow, Beige and Black in 14mm thick with a panel size of 3.66m x 1.22m. Also available from stock are 2m x 1m panels at 30mm thick in Green, Yellow and Grey. Can also be manufactured to any RAL colour with short lead times.

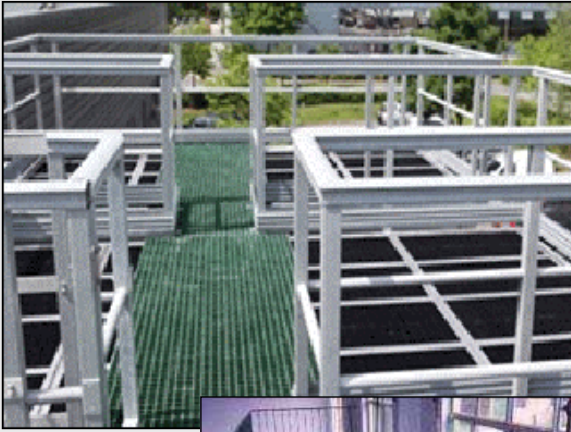


Translucent gratings are ideal for decorative purposes while still retaining the superior strength properties associated with with fibreglass. This type of grating can be manufactured in just about any colour you could imagine and in any depth. It can also have an anti-slip surface or smooth finish on both sides.

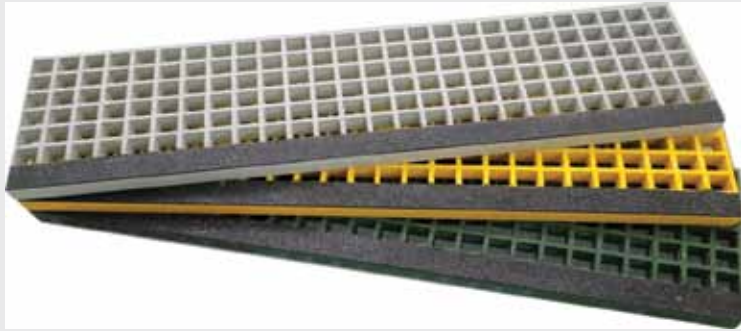


Other gratings from stock include concave surface, 12mm screen guard and pultruded gratings. Many other types can be made to order.

Installation Examples



Fixings



Stair Treads can be manufactured in our workshop to any size and thickness of grating with short lead times.

Treads can be Green, Yellow or Grey in depths of 25mm, 38mm or 50mm and with a nosing in Black, Grey or Yellow. Any combination available.

We stock a wide range of Stainless steel fixings and plastic inserts. Use 'G' clamps for joining panels of gratings together where there is no or limited support. Use type 'M' clips to fix gratings down. Use 'J' clips to fix gratings down without the need for drilling a fixing hole.



G Clamp



M Clip



J Clamp



All Fixings are manufactured from stainless steel



Mini-Mesh M Clip



12mm M Clip



25mm M Clip



38mm M Clip



50mm M Clip



60mm M Clip



Mini-Mesh G Clamp



25mm G Clamp



38mm G Clamp



50mm G Clamp



60mm G Clamp



Pultruded L Clip



Pultruded M Clip



25 & 38mm J Clip



50mm J Clip



Base foot



Small Washer



Large Washer



Handrail Support



M4 x 12 s/s Rivets



M4 x 20 s/s Rivets



M10 x 100 Anchor



M12 x 100 Anchor



M8 Nutsert

Cutting & Machining

We have a fully equipped workshop to cater for all your machining requirements. Gratings and profiles can be cut free of charge.



Handrail Systems

Square and tubular handrail systems

Anglia Composites Handrail Systems

We have two standard handrail systems both available from stock. The square section system is generally used when constructing platforms, stairways and walkways. These can be built in our workshop in sections ready for you to install.

Tubular System

The tubular system can be installed on site with minimum tools and has been designed with ease of installation in mind. This system is an excellent alternative to heavy and cumbersome steel handrails. Both systems are available in Grey or Yellow. Any colour system can be manufactured depending on quantities required.



Fittings



4 Way Connector



4 Way 30 Degree



30 Degree Bend



30 Degree T Piece



60 Degree Bend



Post Side Fitting



Corner 4 Way



90 Degree Bend



Base Fitting



Corner 3 Way



Universal P Joint



T Piece



Adjustable Elbow



Universal Swivel

For safety critical applications, you will be pleased to know the product has been tested and approved to standard BS EN ISO 14122-3:2001 & BS 6399-1:1996. This is an excellent, cost effective alternative to steel handrails which require constant, on-going maintenance.



50mm diameter tube is available in 6m lengths but can be cut to any length free of charge. Our GRP handrail system is available from stock in Yellow or Grey. The components above (with the exception of the base foot) come in 2 parts which fit the tube perfectly.



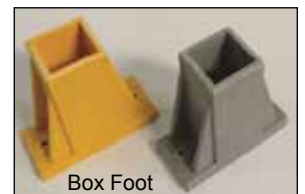
Square System



Our square section handrail system is generally used as a permanent handrail. As with the tubular system, Grey and Yellow are stock colours with any colour available depending on quantities ordered. **Both handrail systems can be supplied in kit form at no extra charge or alternatively we have nationwide installation teams.**



The square section handrail system is made up from 4 basic components. 51 x 51 heavy-duty box section for the posts, 150 x 15 x 3 W section for the kickplate, 38 x 32 diameter tube for the midrail and an omega shaped top rail. There is also a 'Box Foot' available if you intend to fix directly to a concrete surface.



51 x 51 x 6 box section



150mm deep kickplate



38mm Dia midrail tube



Handrail

Platforms, Walkways, Stairs, Treads, Ladders, Ladder Guards & Ramps

GRP platforms, ramps, walkways, stairways, ladders and handrails built to your exact specification and to British Standards (BS5359) by our own skilled craftsmen. A complete CAD / design and build service is available complimented by a project management service if required for larger projects. We are a small company but specialise in complicated fabrications and installations sometimes under the most extreme conditions. We are frequently used by other companies who are unable or unwilling to carry out such projects.



Ramps can be built and installed to just about any size. Ramps are built to British Standards and conform to current building regulations. Ramps are an ideal solution for wheelchair access for factories, schools, home and office.

This particular ramp is shown under construction in our workshop and was eventually installed at a power station in the south of England.

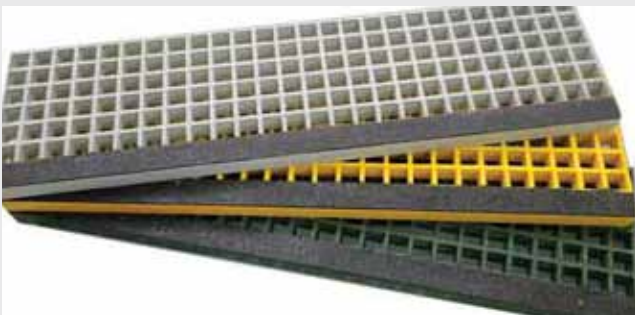


Installation Examples



Ladders and stairways built and installed to British Standards. All ladders, handrails and stairways are available in Grey or Yellow.

Stair treads can be made in our workshop in Green, Yellow or Grey and can have a Yellow, Black or Grey nosing. Any combination can be made at short notice.



The GRP ladder guard has been developed by Anglia Composites to secure ladders, instantly preventing unauthorised access and avoiding potential health and safety risks. Ladder guards are manufactured from GRP so they are completely corrosion resistant and will never rot or rust making them ideal in situations where the use of aluminium is not acceptable such as chemical plants.

If they are subject to any kind of loading they will spring back to their original shape once the load has been removed unlike traditional aluminium or steel guards which will stay bent and deformed and require maintenance or costly replacement.



Pultruded Structural Profiles

A wide range of structural shapes to assist you in your structures



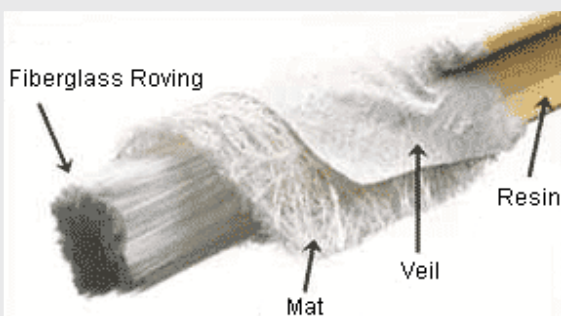


GRP Pultrusion - A wide range of pultruded profiles are available from stock including round tubes, box sections, angles, U beams, ladder rung, I beams, handrails, kick plate, embedment angle and much more. Profiles are generally supplied in 6000mm lengths for your own constructions or alternatively we would be pleased to quote you for building and installing your pultruded fabrications and structures, ladders, working platforms, walkways, stairs and handrails etc.

Composite pultruded structures made from our profiles are substantially lower in cost than steel and cost competitive with stainless steel. Our pultruded profiles are made from glass reinforced isophthalic polyester resin with a polyester surface veil. This combination gives excellent corrosion resistance and weatherability at an economic cost.

Our profiles are manufactured to ISO9002 and conform to EN ISO 13706. You are very welcome to perform any tests you require on our materials. Samples are supplied free of charge.

An introduction to the pultrusion process



The raw materials for pultrusion include a liquid resin mixture containing resin, fillers and specialised additives combined with flexible textile reinforcing fibres. To achieve reinforcement, materials in continuous forms such as rolls of fibreglass mat and doffs of fibreglass roving are used. During the pultrusion process, the raw materials are pulled through a heated steel forming die using a continuous pulling device. When the reinforcements are saturated with the resin mixture ("wet-out") in the resin bath and pulled through the die, the resin becomes hardened due to the heat from the die and the cured profiles are thus formed in the same shape as the die.

Custom profiles can be manufactured to order using our low-cost tooling. Please ask for details. Please call us for a copy of our corrosion resistance data sheet and price lists. Profiles can be cut to your requirements free of charge. We can also machine profiles in our workshop often free of charge.

Many profiles are available from stock as shown below in 6000mm lengths. Profiles are available in Grey or Yellow. Other colours can be manufactured to customers specification.



Angle



Box Section



C Channel



Handrail



I Beam



Kickplate



Ladder Rung



Round Tube

Profile	Size	Colour	Weight kg/m
Angle	25 x 25 x 3	Grey	0.27
Angle	50 x 50 x 5	Grey	0.96
Angle	75 x 75 x 8	Grey	2.16
Angle	100 x 100 x 10	Grey	3.68
Box Section	51 x 51 x 6.5	Grey/Yellow	2.21
U Channel	150 x 50 x 6	Grey	2.75
U Channel	200 x 60 x 8	Grey	4.68
Round Tube	38 x 32	Grey/Yellow	0.62
Round Tube	50 x 40	Grey/Yellow	1.36
Kick Plate	150 x 15 x 3	Grey/Yellow	1.30
I Beam	150 x 80 x 8	Grey	4.70
I Beam	200 x 100 x 10	Grey	7.40
Handrail	51 internal	Grey/Yellow	1.47
Ladder Rung	34.5 x 25.5	Grey/Yellow	0.67
Embedment Angle	44 x 44 x 6	Green	1.52

Many other profiles are available to order. Please ask as we may have something already in stock.



Embedment Angle

Embedment angle is a unique pultruded fibreglass angle that can be embedded into concrete ready for our grating panels to be installed.

This profile is currently stocked for 25mm, 38mm and 50mm thick gratings and is a similar colour to our green gratings to give a professional finish .

The angle is manufactured from isophthalic resin for high chemical and corrosion resistance.

Even the most complicated of structures can be built and easily installed using our high-strength pultruded structural profiles. You are limited only by your imagination.



Tread Covers & Sheet Plate



Anti-slip flooring sheets fit over existing steel, timber or concrete walkways to greatly reduce slips and falls. Also anti-slip floor sheets can be cut to specified sizes at no extra cost. The walking surface of the fibreglass floor sheet is coated with a layer of quartz grit which is integrally bonded to the surface. This provides traction even in wet or oiled conditions. Fibreglass anti-slip sheets are an economical and safe solution to slippery walking surfaces.

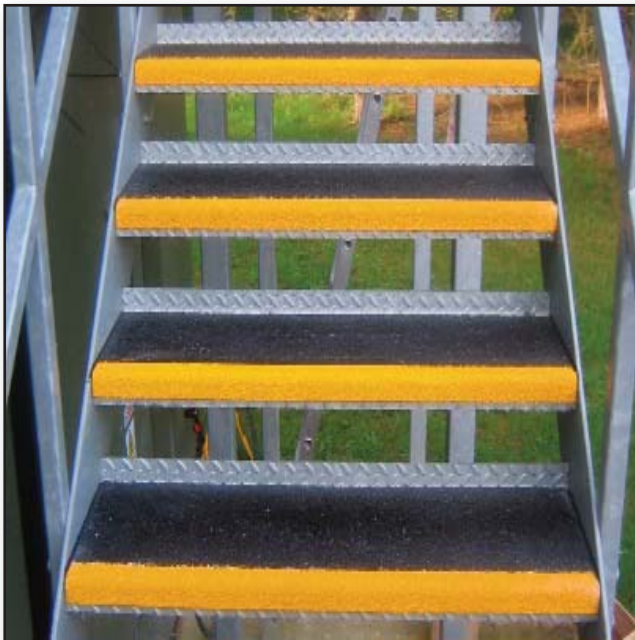


Tread Covers



Anti-Slip Tread Covers are a simple and cost effective way to provide superior slip resistance on stair ways. They are extremely durable and completely corrosion resistant. They have a contrasting nosing for high visibility. Tread covers can be cut and drilled if required to your exact specification. Internal and external adhesives are available to complete the installation. Landing areas also available utilising our fibreglass plate.

Tread covers have a quartz gritted surface and conform to BS 7976-2 2002 Slip Resistance Test. Covers and plate have achieved a rating considered to be "Better than excellent".



Amazing slip resistance

Corrosion resistant

Fast and easy to install

Installation service available

Cost effective

Chemical resistant

A nationwide installation service is available if required. Tread covers and landing areas can be cut and drilled free of charge. If you are measuring your tread covers yourself then please remember the 'going' should be an internal measurement. Also deduct 5mm off the length of each tread to allow for fitting. Cut to any size up to 3000mm long x 300mm going.



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 four covers.

Anti-Slip Fibreglass Plate

Fibreglass plate is available from stock in a range of colours and sizes. Our anti slip GRP plate has achieved a rating considered to be "Better Than Excellent" in both wet and dry conditions. Sheets of our anti slip GRP plate can be cut and drilled for you free of charge for easy installation. Powerful adhesives are also available for internal and external use.



Anti-slip GRP plate can be used to create an almost instant, seamless anti-slip walkway. Anti-slip GRP plate can be drilled and countersunk to accept standard screws free of charge if required. Powerful adhesives are also available for effective internal and external use.

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.

Uses: pedestrian ramps and walkways, disabled ramps, bridges, loading bays etc. Several sheet sizes, colours and depths always available from stock.



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 ²
Weight 10mm	12.3 kgs/m ²

4mm thick fibreglass anti slip GRP plates can be used in conjunction with our anti-slip tread covers to form landing areas and creating excellent fibreglass flooring. Fixings and adhesives are also available from stock. Anti slip GRP plate can be manufactured to any RAL colour and any thickness up to 20mm. Surface finish can be gritted, smooth or chequer plate and can be cut and drilled free of charge to your requirements. If

In caustic or acidic conditions, fibreglass plate provides a level of corrosion resistance that is unequalled

Nosings & Rung Covers



Rung covers are an almost instant way to make a ladder safe. Anglia rung covers fit just about any rung size and can be installed in minutes using powerful fast curing adhesives.

Stair tread nosings are available from stock in any length up to 3000mm. Nosings are gritted for maximum slip resistance. They can be used in new build projects where they can be cemented into place or alternatively powerful internal and external adhesives are available for secondary fixing.

Uses: Staircases, steps, fire escapes, office block steps, entrance steps, emergency exits, public access stairways, football stadiums and sports facilities, hospitals, interior or exterior applications, for industrial, home and commercial use.



Nosings are standard 55mm x 55mm

Available from stock in Yellow or White. Any RAL colour can be made to order subject to minimum quantities.



If you have a nice clean and flat surface then using adhesive is the easiest method of installation. However, we can drill and countersink nosings for you free of charge if you wish to fix using screws.

Double Bar Safety Gates

Gravity-Closing Universal Safety Gates

The most efficient and durable way to protect people against accidental falls through guardrail openings.



Universal Gravity-Closing Safety Gate

Same hinge for left and right swing direction



Attaches easily to: angle



pipe



Benefits

Left or right hand opening using the same hinge.

Self-closing by gravity.

Simple and quick to install.

Lightweight.

High visibility safety Yellow coloured throughout.

Maintenance free.

Corrosion resistant.

High strength and weatherability.

One piece moulded for maximum strength.

Easy Installation

Universal hinge design provides either left hand or right hand swing.

Can be attached to flat plate, angle iron, round tube or square tube.

For flat plate or angle iron installation, simply use the supplied bolts.

For round tube and square box section specially designed brackets are available to enable you to install the gate without the need for drilling.



Hinge Construction

Blade, hinge, pin and block moulded using a strong, rigid polyurethane.

Fluoropolymer wear plate and bushing facilitate easy open and close.

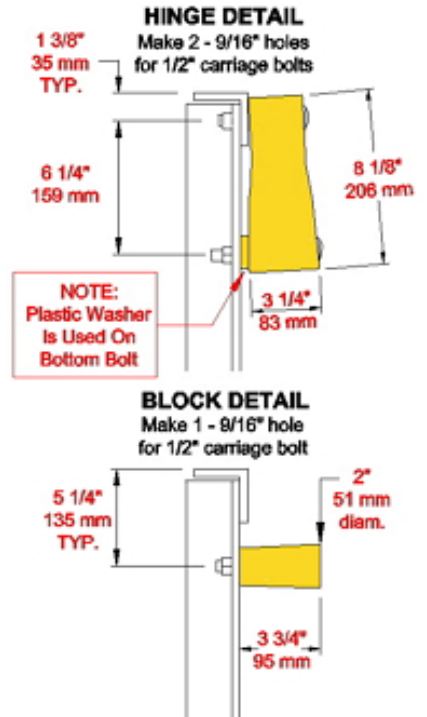
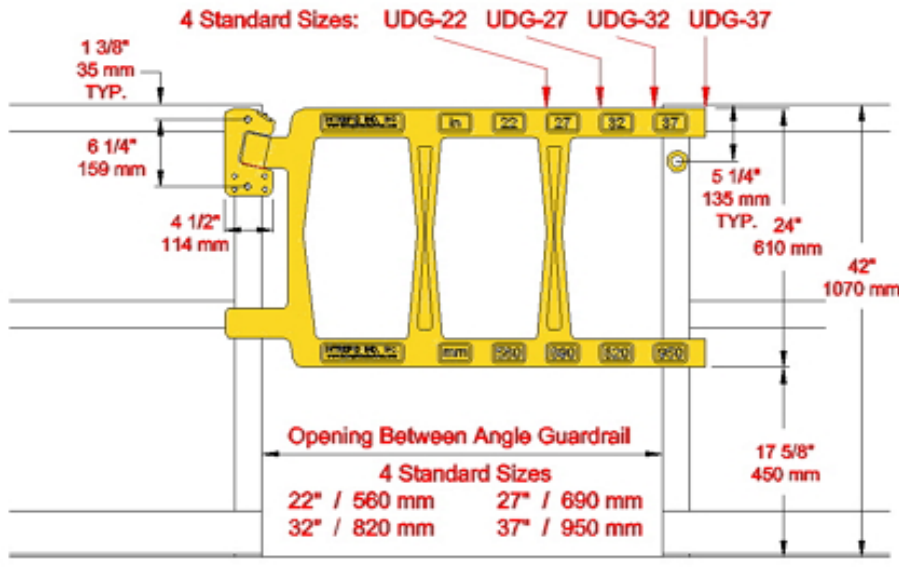
Coloured safety Yellow throughout.

TYPICAL INSTALLATION OF UDG-37

Universal Double Bar Safety Gate

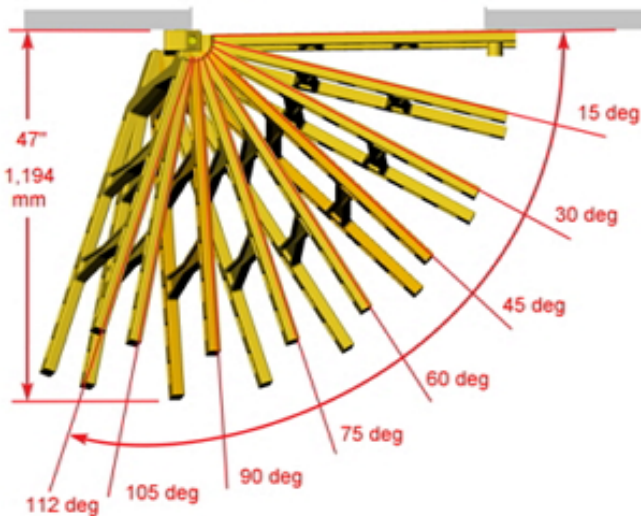
RIGHT HAND SWING INSTALLATION on Angle Iron Guardrail

NOTE: Only one Hinge and one Block are required for the UDG Gate



INTREPID UDG-37 MAXIMUM SWING ROTATION, RISE, AND KICK-OUT

INTREPID UDG-37 Fully Open = 112 degrees

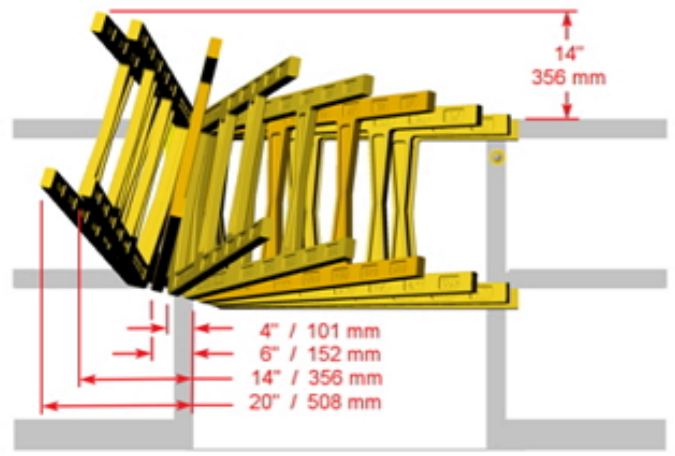


Please allow as much room as possible so that the gate can swing fully open. However if space is tight, then try to provide at least a 4" - 6" corner so that the gate can swing open as much as 75° - 90°.

DESIGN CONSIDERATIONS WHEN GATE IS IN A TIGHT AREA

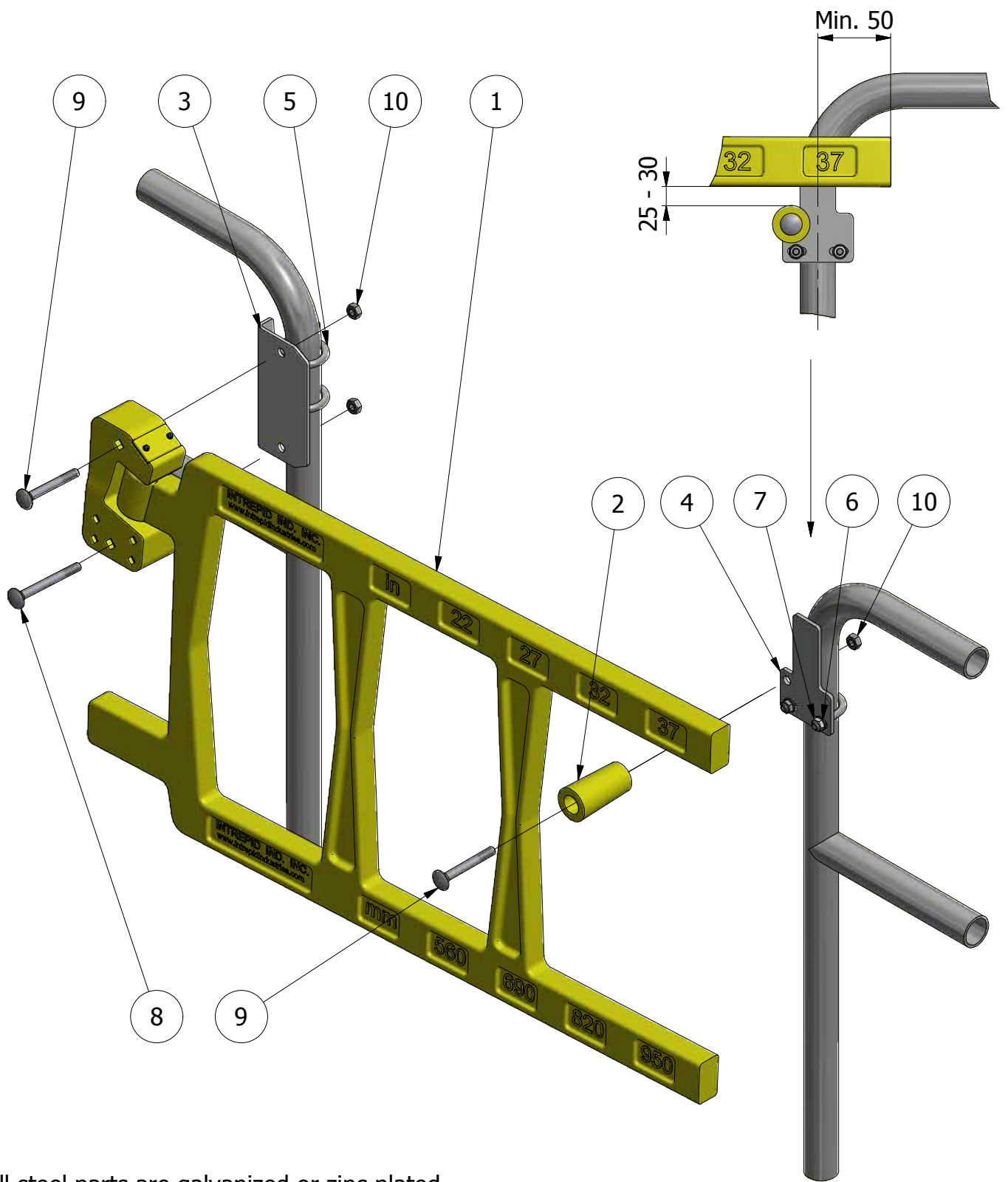
When the Safety Gate is to be mounted in a tight space, such as a corner or a narrow catwalk area, the designer must be aware of both the rise and the kick-out caused by the swing rotation of the self-closing gate. This is depicted in these two drawings.

INTREPID UDG-37 Maximum Rise = 14" / 356 mm



Due to chemical matrix, material will discolour but will not degrade. No loss of tensile strength even in constant high temperatures. You can expect a long service life providing the protection you paid for. Every gate is guaranteed for 20 years service.

Gate automatically closes due to gravity. Rises when opened and returns when released.

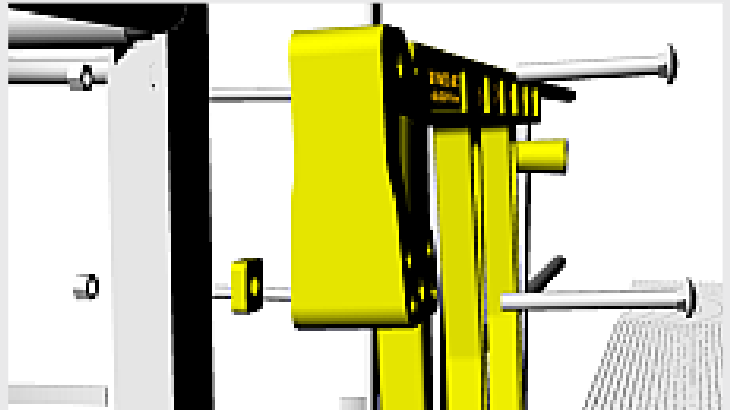


All steel parts are galvanized or zinc plated

5	3	U-bolt M8	10	3	Hex Nut 1/2"
4	1	Bracket, support block	9	2	Carriage bolt 1/2" x 4" (100mm)
3	1	Bracket, gate	8	1	Carriage bolt 1/2" x 5" (125mm)
2	1	Support block, Safety Gate	7	6	Hex Nut M 8
1	1	Safety Gate	6	6	Washer M 8
ITEM	QTY	DESCRIPTION	ITEM	QTY	DESCRIPTION
PARTS LIST			PARTS LIST		
Anglia Composites Ltd 5 Stour Valley Business Centre Brundon Lane Sudbury CO10 7GB			Round Tube Kit		
			Tel: 01787 377 322		Edition 1 / 1

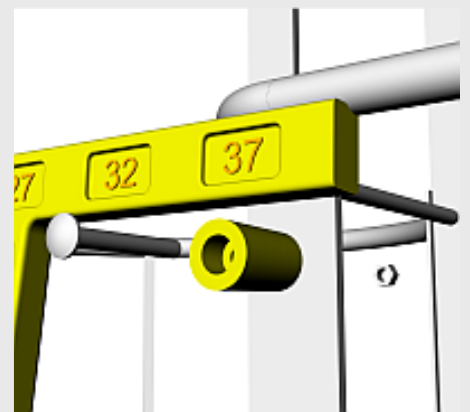
Hinge Mount

Mount hinge as close as possible to the top of the guardrail. Ideally, the top bolt hole should be located 25mm down from the top rail but this may need to be adjusted depending on guardrail members.



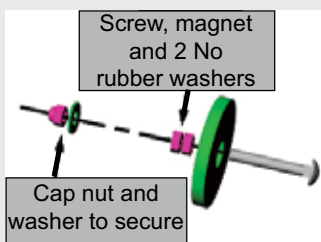
Mount Block

Mount the block so that it is positioned at least 25mm below the closed bar. Allow clearance for tightening the nut. The block should not interfere with the opening or closing of the gate. It is intended to provide vertical support in an emergency. The block should be located at least 125mm below where the top of the hinge is located.



Magnetic Catch

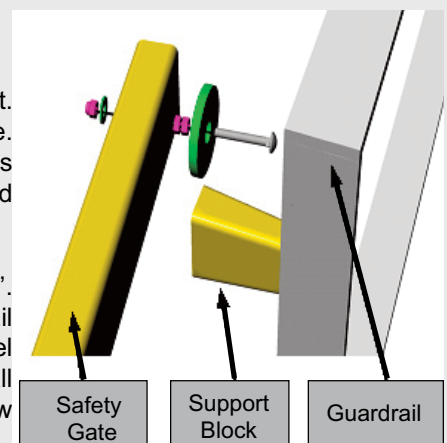
The gate hinge is moulded in such a way that the gate closes automatically as soon as you have passed through. However, in certain situations such as high wind areas it is preferable to assist the closure. Our rubber coated magnet is ideal for this purpose.



Installation Instructions

Find where the safety gate contacts the vertical post. Mark and drill a 5.5mm hole through the gate blade. Since the blade has both recessed and solid areas along its length, use the 45mm screw for recessed areas and the 55mm screw for solid sections.

The rubber washers are provided to allow the disc to be free to 'float' or 'wobble'. In this way, the magnetic disc can make good, flat contact with the metal guardrail post. Once the screw, rubber washers and magnet are together, use the s/steel washer and dome cap nut to hold the unit to the gate. The magnet has a small recess on each side. The deep recess is to house the screw head and the shallow recess is to house the rubber washers.



Anti-Slip Decking Strips

Low profile anti-slip fibreglass decking strip. Quick to install and completely corrosion resistant.



Timber decking areas are notorious for becoming slippery when wet or when covered with green algae. Decking strips from Anglia Composites have an ultra low profile combined with an edge chamfer to make sure they are not a trip hazard. The quartz grit surface is extremely hard wearing and non slip even in wet conditions.

Decking strips are cut to any length you may require up to 6000mm long. They can be pre-drilled for you free of charge at pre-determined hole centres ready for you to fix down. The fixing holes are drilled one size bigger than is required to allow for any shrinkage or expansion in the timber. Anglia Composites recommend the use of stainless steel wood screws to complete your installation.

Spill Containment & Fibreglass Mouldings



Anglia Composites can produce any type or style of GRP Fibreglass tank or container to suit your specific requirements. Our GRP Fibreglass tanks and containers can be constructed as either single or twin skinned units and can include a built in bund to provide a total solution for your project. Our GRP Fibreglass tanks and containers can also be constructed with full insulation 'built in' to ensure that your tank or container is fully encapsulated and that no secondary work will be required. By strictly monitoring Quality control we can ensure that the highest standards are maintained throughout the manufacturing process, enabling us to dispatch products from the factory confident that aesthetically, dimensionally and structurally they meet our customer's requirements.



GRP Fibreglass is one of the most versatile construction materials available, offering the designer a wide scope for complexity of shapes, dimensional stability, strength, choice of colour, lightness of weight, and a multitude of finishes for any moulding.

The versatility of using GRP Fibreglass as the construction material of choice for tanks and containers can be seen in its strength to weight ratio, its indefinite life expectancy along with its excellent value for money.

Drum Bunds

Anglia Composites have developed a range of practical and cost effective GRP Fibreglass spill containment products which include IBC Bundstands, Drumbunds and Spill Trays. Our GRP Fibreglass products are suitable for many different chemical types and can also be manufactured to resist specific specialist chemicals (please contact us for further information).



One drum spill containment



Two drum spill containment



Four drum spill containment



IBC drum spill containment

The latest guidelines from the Environment Agency state that all hazardous material and oils **MUST** have ample bunding to protect the environment from contamination in the event of a spillage. A single drum sized container must have a bund that has a capacity to withhold at least 25% of the overall volume of the container sat upon it. Multiple drums and IBC's must be banded sufficiently enough to contain volumes of 25% of the total volume or 110% of the largest vessel whichever is the greater of the two.