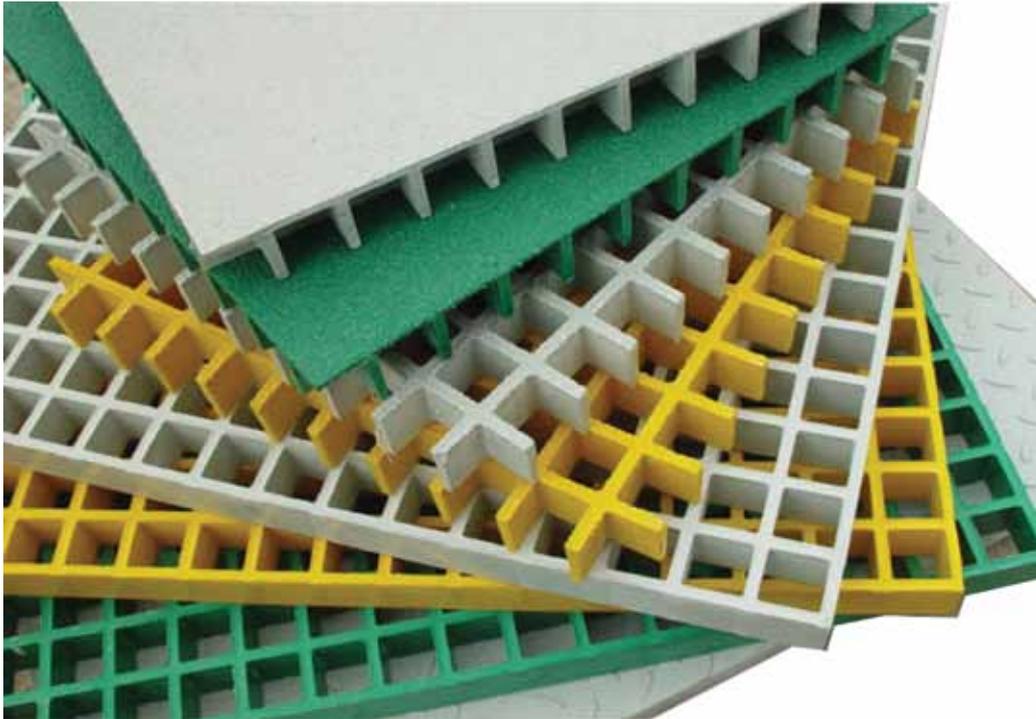




Technical Data



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
Cooling Tower Access	Spill Containment

Certificate GB13/88750

SGS

The management system of

Anglia Composites Ltd

Unit 5 Stour Valley Business Centre, Brundon Lane,
Sudbury, Suffolk, CO10 7GB, UK

has been assessed and certified as meeting the requirements of

ISO 9001:2008

For the following activities

Manufacture, supply and installation of composites products.

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2008 requirements may be obtained by consulting the organisation

This certificate is valid from 10 May 2013 until 10 May 2016 and remains valid subject to satisfactory surveillance audits.
Re certification audit due before 22 March 2016
Issue 1. Certified since 10 May 2013

Authorised by

SGS United Kingdom Ltd Systems & Services Certification
Rosemore Business Park, Ellesmere Port, Cheshire, CH65 3EN UK
t +44 (0)151 350-6666 f +44 (0)151 350-6600 www.sgs.com

SGS 9001-8 01 0311

Page 1 of 1



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Anglia Composites are an ISO 9001 certified company. We are also registered with Achilles UVDB database. Our registration number is 065951.

The following pages show the most popular types of grating and their corresponding load and deflection data. It should be remembered these figures are for guidance only as actual working conditions may vary. If in doubt please call 01787 377 322 for technical advice.

Load and Deflection Data

INDUSTRIAL GRATING LOAD & DEFLECTION TABLE
OPEN MESH TYPE WITH 32MM X 32MM HOLE
25mm and 38mm thick standard grating

POINT LOAD kg

25mm thick supported on four sides

Width	1m	0.9m	0.75m	0.5m
Length	*10mm	*9mm	*7.5mm	*5mm
2m	170	245	270	650
1.5m	190	250	280	700
1m	255	270	350	755

38mm thick supported on four sides

Width	1m	0.9m	0.75m	0.5m
Length	*10mm	*9mm	*7.5mm	*5mm
2m	510	580	800	1430
1.5m	530	600	890	1880
1m	660	760	1030	2200

25mm thick supported on two sides

Width	1m	0.9m	0.75m	0.5m
Length	*10mm	*9mm	*7.5mm	*5mm
2m	160	220	260	620
1.5m	170	230	345	640
1m	195	245	360	650

38mm thick supported on two sides

Width	1m	0.9m	0.75m	0.5m
Length	*10mm	*9mm	*7.5mm	*5mm
2m	460	545	760	1400
1.5m	480	570	770	1430
1m	500	575	790	1430

UNIFORM LOAD kg

25mm supported on four sides

Width	1m	0.9m	0.75m	0.5m
Length	*10mm	*9mm	*7.5mm	*5mm
2m	290	355	750	3750
1.5m	375	480	825	4200
1m	570	760	990	4805

38mm thick supported on four sides

Width	1m	0.9m	0.75m	0.5m
Length	*10mm	*9mm	*7.5mm	*5mm
2m	730	1100	1850	6700
1.5m	770	1250	2300	7950
1m	1445	2100	2650	8800

25mm thick supported on two sides

Width	1m	0.9m	0.75m	0.5m
Length	*10mm	*9mm	*7.5mm	*5mm
2m	265	320	630	2800
1.5m	340	470	825	3105
1m	370	510	940	3500

38mm thick supported on two sides

Width	1m	0.9m	0.75m	0.5m
Length	*10mm	*9mm	*7.5mm	*5mm
2m	725	865	1800	4950
1.5m	805	980	1975	5620
1m	890	1370	2310	7245

* The deflection figures quoted are based on 1/100th of the width (1%)

ULTIMATE DESTRUCTION EXAMPLES for 38mm grating; Concentrated load, 300 mm wide 12,300 kilos, 450mm wide 7,900 kilos, 900 mm wide 3,700 kilos, 1200 mm wide 1,900 kilos.

Anglia Composites Ltd

Solid Surface Grating Deflection Table

PANEL DEPTH	SPAN	<u>Point Load</u> (Kg) @ 1% Deflection	<u>Concentrated Line Load</u> (Kg/m) @ 1% Deflection	<u>Uniformly Distributed Load</u> (Kg/m ²) @ 1% Deflection
18mm GRATING 13mm Grating with 5mm fibreglass plate bonded to top surface	250mm	958	1,222	1,955
	500mm	362	306	489
	600mm	251	212	346
	750mm	161	136	217
	1000mm	90	76	122
25mm GRATING 22mm Grating with 3mm fibreglass plate bonded to top surface	250mm	1,998	2,771	5,547
	500mm	840	920	1,473
	750mm	373	409	655
	1000mm	210	230	368
	1200mm	146	160	256
	1500mm	93	102	164
30mm GRATING 25mm Grating with 5mm fibreglass plate bonded to top surface	250mm	3,512	4,870	9,750
	500mm	1,741	1,867	2,987
	750mm	774	830	1,327
	1000mm	435	467	747
41mm GRATING 38mm Grating with 3mm fibreglass plate bonded to top surface	250mm	6,691	9,278	18,575
	500mm	3,345	4,639	8,156
	750mm	2,089	2,265	3,625
	1000mm	1,175	1,274	2,039
	1200mm	816	885	1,416
55mm GRATING 50mm Grating with 5mm fibreglass plate bonded to top surface	500mm	4,663	6,217	12,433
	750mm	3,108	3,883	6,213
	1000mm	2,012	2,184	3,495
	1200mm	1,397	1,517	2,427
	1500mm	894	971	1,553

The calculations shown are based on a 1% deflection over a 1000mm span. For example if you applied 1397kg point load on the 55mm thick panel at a span of 1200mm it will deflect 10mm.

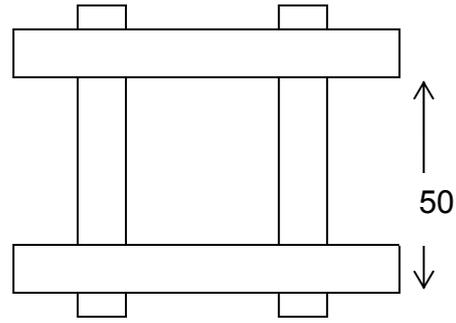
Anglia Composites Mini-Mesh Fibreglass Grating

Load & Deflection Data

Panel Thickness (mm)	Weight Per Square Metre (Kg)	Span Type of Loading	250mm	500mm	600mm	750mm	1000mm	1200mm	1500mm	1750mm	2000mm
14	5.8kg	Point Load	79kg	20kg	14kg	9kg	5kg	3kg	2kg	2kg	1kg
		UDL	570kg	158kg	92kg	47kg	20kg	11kg	6kg	4kg	2kg
25	12.3kg	Point Load	1,585kg	464kg	322kg	206kg	116kg	81kg	52kg	38kg	29kg
		UDL	2,751kg	1,375kg	850kg	435kg	184kg	106kg	54kg	34kg	23kg
30	14.6kg	Point Load	2,381kg	837kg	581kg	372kg	209kg	145kg	93kg	68kg	52kg
		UDL	4,761kg	2,381kg	1,765kg	904kg	381kg	221kg	113kg	71kg	48kg
38	19.5kg	Point Load	3,814kg	1,698kg	1,179kg	755kg	425kg	295kg	189kg	139kg	106kg
		UDL	7,629kg	3,814kg	3,179kg	1,834kg	774kg	448kg	229kg	144kg	97kg
50	23.5kg	Point Load	5,933kg	2,967kg	2,414kg	1,545kg	868kg	603kg	386kg	284kg	217kg
		UDL	11,866kg	5,933kg	4,944kg	3,754kg	1,584kg	916kg	469kg	295kg	198kg
50 Heavy Duty	42.0kg	Point Load	11,020kg	5,510kg	4,592kg	2,869kg	1,614kg	1,121kg	717kg	527kg	404kg
		UDL	22,041kg	11,020kg	9,184kg	7,347kg	5,510kg	1,702kg	872kg	549kg	368kg
60 Heavy Duty	50.5kg	Point Load	17,140kg	8,570kg	7,142kg	5,355kg	3,012kg	2,092kg	1,339kg	984kg	753kg
		UDL	34,280kg	17,140kg	14,283kg	11,427kg	8,570kg	3,177kg	1,627kg	1,024kg	686kg

Calculations based around a 1% Deflection over a 1000mm span Anglia Composites Ltd - Tel: 01787 377 322

50mm thick fibreglass grating data



Whole mesh sizes

60	1074
110	1125
160	1175
211	1256
262	1277
313	1328
363	1379
415	1430
465	1481
516	1532
566	1582
617	1633
668	1684
720	1735
770	1786
820	1837
871	1858
922	1939
973	1990
1024	

Anglia Composites Ltd
 Unit 5 Stour Valley Business Centre
 Brundon Lane
 Sudbury
 Suffolk CO10 7GB

Tel: 01787 377 322
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www.angliacomposites.co.uk

Anglia Composites recommends maximum deflection of 1% of the span as a comfortable user loading. Breaking point data represents total failure of the grating and illustrates the reserve strength of the material at a given span.

Standard panel sizes are 2m x 1m and 3.66m x 1.22m. Gritted surface as standard. Green is standard colour. Weight: 22kgs m². Bars per 305mm: 6. Bar thickness, top – 8mm, bottom – 5.5mm. 71% open area. Non conductive.

Load & Deflection Data

Span (mm)	Uniform Load (kg) Deflection 1%	Concentrated Load (kg) Deflection 1%	Line Load Deflection 1%	Breaking Point
1400	625	480	525	4150 kg
1200	825	655	690	4600 kg
1000	1410	820	840	5600 kg
800	2150	1175	1260	6850 kg
600	3200	1460	1510	7800 kg
500	4500	2100	2230	8500 kg

MECHANICAL AND PHYSICAL DATA OF MOULDED FIBREGLASS GRATING

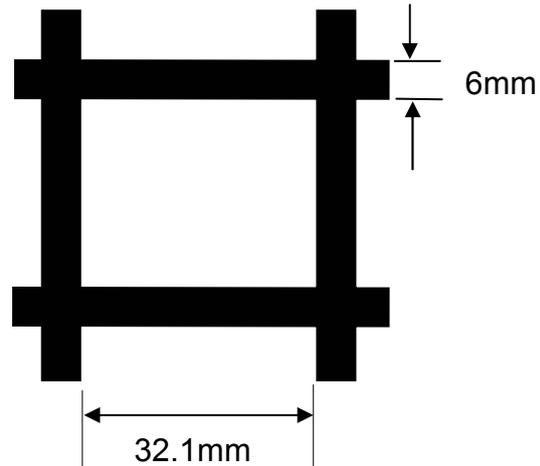
Grating Depth	BAR THICKNESS		PER 300MM OF WIDTH				No. of Bars Per 300mm	Glass Content %	Weight Kg/m ²	Open Area %
	TOP	BTM	CM ²	CM ⁴	CM ³	EI KG/M ²				
38mm	6.50	5.50	17.74	21.81	11.31	275	8	30.5	18.0	69.0
25mm	6.00	5.50	12.39	6.71	5.24	119	8	32.0	12.0	69.0

WEIGHT

25 mm: 12 kilos per square metre

38 mm: 18 kilos per square metre

Mesh pattern: 38.1mm x 38.1mm



MECHANICAL DATA

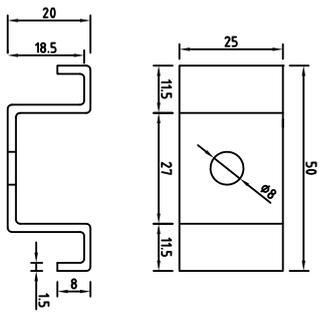
Elastic Modulus	27 Gpa
Flexural Strength	2.8 Gpa
Tensile Strength	650 Mpa
Compressive Strength	90 Mpa
Dielectric Strength	18 KW/mm
Specific Gravity	1.5÷1.7
Thermal Expansion Factor	$13 \times 10^{-6} \text{ mm/mm } ^\circ\text{C}$
Water Absorption	0.1% + 0.3% x 24 hours (ISO R62)
Operating Temperature	-100c to +180c

MANUFACTURING TOLERANCES

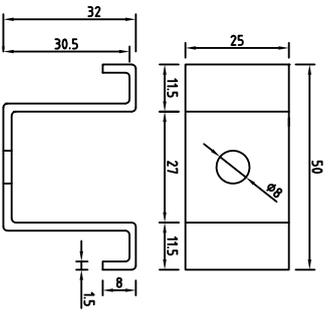
Standard Panel Size	+ 1 mm	- 1 mm
Cut Panel Size	+ 1 mm	- 1 mm
Thickness	+ 0.5 mm	- 0.5mm
Mesh Pattern	+0.5mm	-0.5mm

STAINLESS STEEL M CLIPS AND G CLAMPS

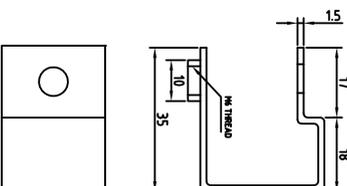
25mm TYPE 'M' CLIP.



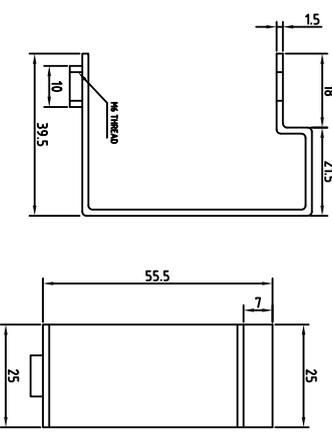
38mm TYPE 'M' CLIP.



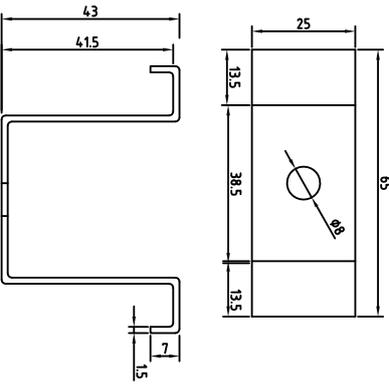
25mm TYPE 'G' CLAMP.



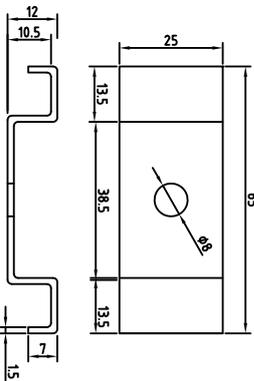
50mm TYPE 'G' CLAMP.



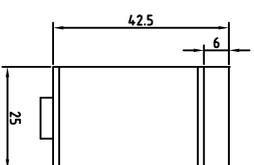
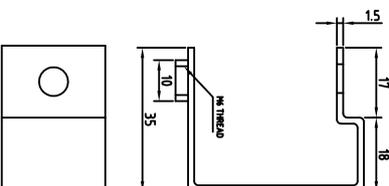
50mm TYPE 'M' CLIP.



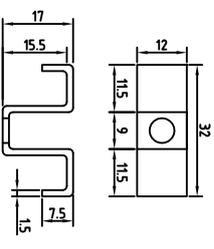
12mm TYPE 'M' CLIP.



38mm TYPE 'G' CLAMP.



Mini-Mesh TYPE 'M' CLIP.



ANGLIA COMPOSITES LTD
 TEL: 01787 377 322
 FAX: 01787 377 433

Fibreglass Grating Installation & Maintenance Guide



50mm thick grating for heavy vehicle inspection pit at RAF Marham.

A successful and long lasting grating installation depends on several, simple to understand factors. Firstly you should select the correct thickness of grating depending on your loading requirement. For most installations this means normal pedestrian traffic up to 1 metre wide. In this case, our standard 25mm thick grating will suffice. For greater spans and increased loading, such as vehicles driving over the grating, you will need to consider our 38mm thick heavy-duty grating or even our ultimate high-strength 50mm thick grating. If you are in doubt please call for further advice.

Anglia Composites fibreglass grating has a minimum service life of 30 years. We recommend the use of self-adhesive waterproof labels stating the date of installation. These are available at a nominal charge for retrospective installations and free of charge at the time of ordering gratings for new installations.

Fixings

We recommend an expansion and contraction allowance of 2mm around all edges. Our fixing clips are designed to allow slight movement even when fully tightened. Do not over tighten nuts and bolts during installation. Use 'M' clips for fixing panels of grating down. Use 'G' clamps to join panels together where there is no support.



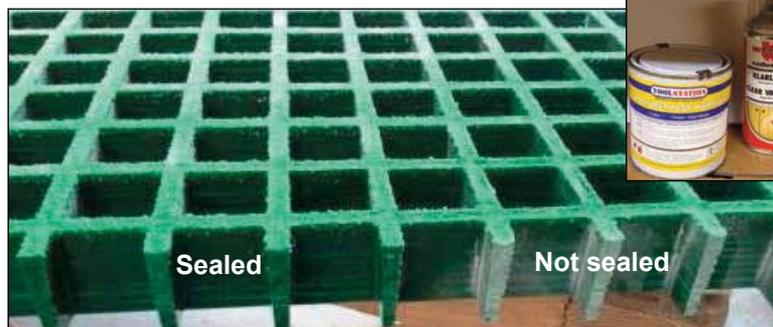
M clip



G clamp



25mm thick drainage gully grating for Anglian Water.



Sealed

Not sealed



Sealing Cut Ends

All cut ends should be sealed at time of installation. This is to prevent moisture ingress. **Any gratings you require can be cut and sealed free of charge by Anglia Composites.** Use a good quality external grade clear varnish based on polyurethane. Sealants can be supplied by Anglia Composites. For on-site cutting it is possible to cut the gratings with an angle grinder or a hard metal jigsaw blade.



Damaged Gratings

Damaged gratings should be removed and replaced immediately. Damage can occur with the impact of a heavy object or during transportation. If you can see exposed glass fibres, replace grating section at once. Gratings should be inspected every 2 years for pedestrian grating and on an annual basis for vehicle access gratings.

Cut Outs

Cut outs can be performed but additional support may be required. Check deflection after cutting. It should be no greater than 1/100th of the width.



Conductive Top Grating



An anti-static surface for moulded gratings

- Light Weight
- Anti-Static
- Slip Resistant
- Long Service Life
- Low Installation Cost
- Drains Unwanted Static Electricity

Conductive grating drains off the build-up of unwanted, dangerous static electricity when grounded. The specialised grating produces an electrical resistance of less than 26 kilo-ohms per 300mm, while retaining other desirable characteristics of conventional GRP moulded grating.

This specialised grating features a moulded-on black, carbon safety surface, which provides its anti-static characteristics.

The control of unwanted static electricity on personnel is necessary in areas with controlled static electricity for example in the chemical and petrochemical sector, explosives, electronics and pharmaceuticals to prevent static build-up. These gratings are also ideal for the shipbuilding and offshore sector and for areas characterised by the presence of electric fields.

This secondary applied surface can be added to all depths of grating.

Anglia Composites Ltd
Unit 5 Stour Valley Business Centre
Brundon Lane
Sudbury CO10 7GB
Tel: 01787 377 322

COSHH SAFETY DATA SHEET – FIBREGLASS GRATING

MATERIAL IDENTIFICATION AND USE

Chemical Name Floor Grating made of Fibreglass Reinforced Polyester
Common Name Glass Reinforced Plastic Grates. (Fibreglass Grating)
Use Floor, wall.

INGREDIENTS

Fibrous Glass, Polyester Resin, Catalyst (Peroxyester), Styrene, Aluminium Oxide, Pigments. Ingredients are chemically cured and bonded together.

HAZARD IDENTIFICATION

Acute Affect None by contact. Dust produced by cutting or grinding can penetrate the pores of the skin causing itching. Avoid breathing dust.

Routes of Entry Skin contact or inhalation of dust when cutting.
Medical Note People who have a condition that could be aggravated by dust should avoid cutting or grinding. Use 3M-respirator mask No. 4251

First Aid Procedures Skin – Remove person from dust area and shower with soap and water until itching stops.
Eyes – Flush at once with a sterile eye wash solution.

CHEMICAL DATA

Appearance Solid, flat panels with grid pattern. Green, Grey and Yellow are standard colours. Sharp edges or grit applied to top surface. Nil odours. Not soluble in water. Specific Gravity 1.6.

FIRE FIGHTING MEASURES

Product 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.

WASTE DISPOSAL

Abide by local laws and procedures. Product is not considered a hazardous waste.

HANDLING/CUTTING

Wear masks, and goggles when cutting or grinding. Cover all exposed parts of the body. Wear gloves when moving or lifting. If using a jigsaw, use Bosch T141HM blade otherwise use diamond tools.

FIBREGLASS GRATING WHOLE MESH SIZES

The sizes below are for a 12' x 4' panel

Our smaller panels are manufactured from the same mould tools

All measurements are in millimetres and are plus or minus 1mm

45	1035	2025	3055
84	1074	2064	3093
122	1111	2103	3131
160	1150	2140	3170
199	1186	2179	3207
237	1225	2216	3245
273	1264	2255	3284
313	1301	2294	3322
350	1340	2331	3360
387	1379	2369	3398
425	1416	2406	3436
464	1455	2445	3474
502	1492	2483	3512
541	1531	2521	3555
578	1569	2559	3588
616	1607	2597	3625
655	1644	2635	3664
694	1683	2673	12 ft panel
731	1720	2711	
769	1759	2750	
806	1797	2788	
845	1835	2826	
883	1874	2864	
921	1912	2902	
960	1950	2940	
997	1988	2978	
	2m panel	3016	
		3m panel	

Anglia Composites Ltd, Unit 5 Stour Valley Business Centre
Brundon Lane, Sudbury, Suffolk CO10 7GB

Tel: 01787 377 322

Fax: 01787 377 433

Emai: info@angliacomposites.co.uk

Web: www.angliacomposites.co.uk

Pultruded Structural Profiles

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.

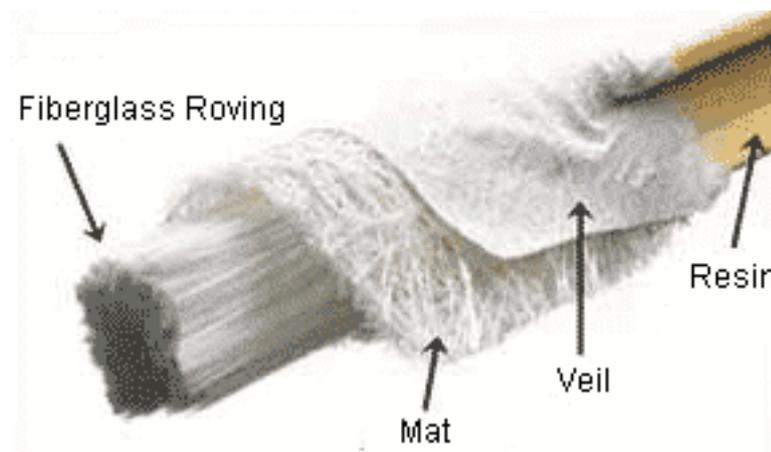
Custom profiles can be manufactured to order using our low-cost tooling. Please ask for details. Please call us for a copy of our corrosion resistance data sheet and price lists. Profiles can be cut to your requirements free of charge. We can also machine profiles in our workshop often free of charge.



The Pultrusion Process

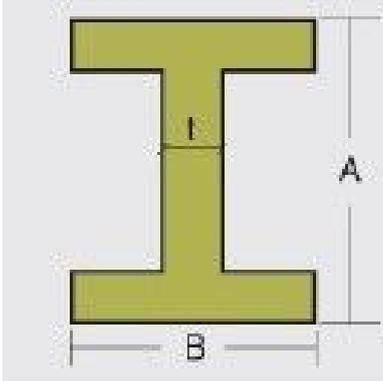
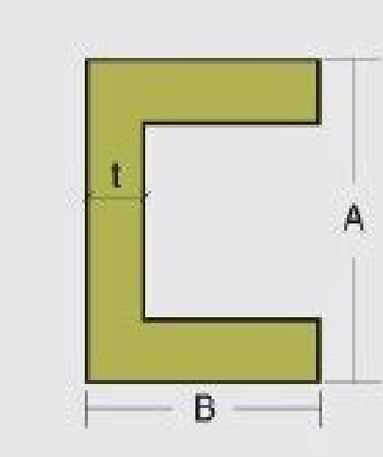
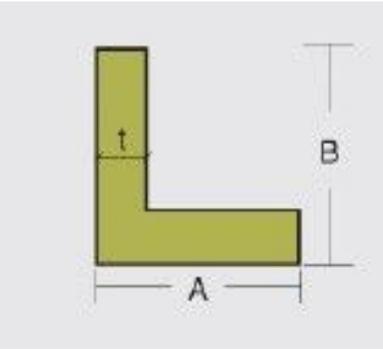
The raw materials for pultrusion include a liquid resin mixture containing resin, fillers and specialised additives combined with flexible textile reinforcing fibres. To achieve reinforcement, materials in continuous forms such as rolls of fibreglass mat and doffs of fibreglass roving are used. During the pultrusion process, the raw materials are pulled through a heated steel forming die using a continuous pulling device.

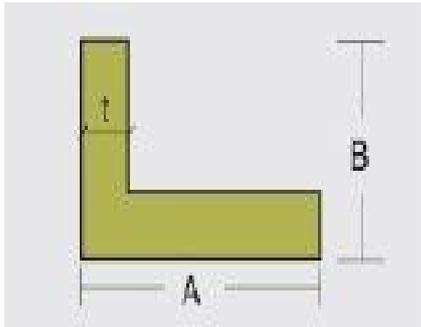
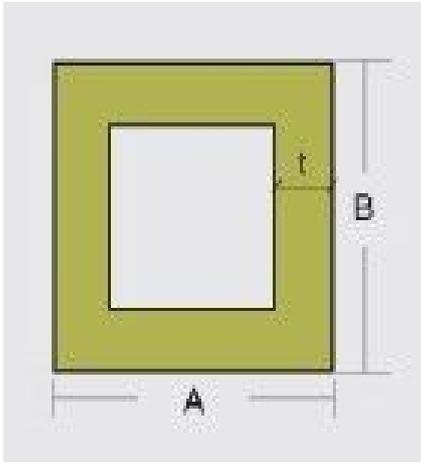
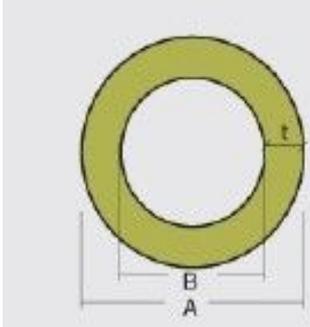
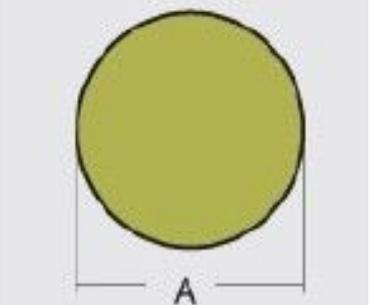
When the reinforcements are saturated with the resin mixture (“wet-out”) in the resin bath and pulled through the die, the resin becomes hardened due to the heat from the die and the cured profiles are thus formed in the same shape as the die.

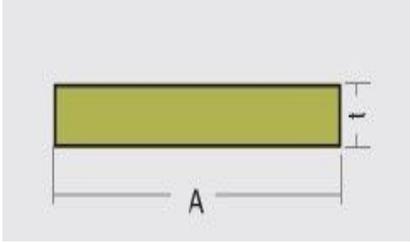
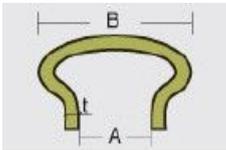
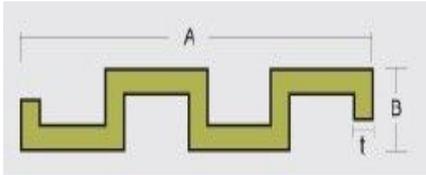
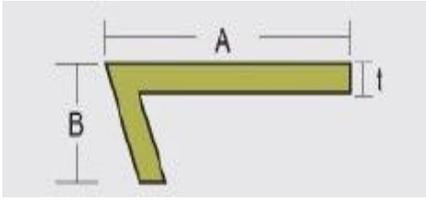
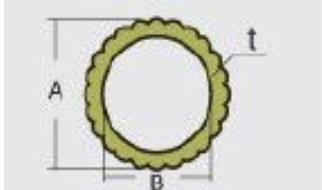


GRP Pultruded Profile Catalogue

Anglia Composites Ltd - Unit 5 Stour Valley Business Centre - Brundon Lane
 Sudbury - Suffolk CO10 7GB Tel: 01787 377 322 Fax: 01787 377 433
 Email: info@angliacomposites.co.uk Web: www.angliacomposites.co.uk

Name	Part No.	Size A X B X t mm	Weight kg/m	
I Beam	I25	25 x 15 x 6.4	0.40	
	I38	38 x 15 x 6.4	0.60	
	I100	100 x 60 x 6.5	2.45	
	I150	152 x 76 x 8	4.70	
	I200	200 x 100 x 10	7.00	
	I250	250 x 152 x 12	9.60	
	I300	300 x 150 x 12	16.50	
C Channel	C44	44 x 20 x 3	0.45	
	C50	50 x 30 x 5	0.98	
	C70	70 x 30 x 5	1.20	
	C76A	76 x 25 x 5	1.06	
	C76B	76 x 35 x 5	1.32	
	C100	100 x 50 x 6	2.26	
	C120	120 x 40 x 5	1.68	
	C150	150 x 50 x 6	2.89	
	C200A	200 x 44 x 8	4.40	
	C200B	200 x 60 x 8	4.86	
	C250	250 x 68 x 12	9.30	
Equal Angle	L30	38 X 38 X 5	0.68	
	L50A	50 X 50 X 5	0.95	
	L50B	50 X 50 X 6.35	1.20	
	L60	60 X 60 X 8	1.80	
	L76A	76 X 76 X 6.35	1.85	
	L76B	76 X 76 X 8	2.31	
	L76C	76 X 76 X 10	2.85	
	L100	100 X 100 X 10	3.80	
	L150	150 X 150 X 10	5.80	

Name	Part No.	Size A X B X t mm	Weight kg/m	
Unequal Angle	LT30	30 X 70 X 3	0.54	
	LT43	43 X 40 X 5	0.75	
	LT50	50 X 25 X 3	0.48	
	LT75	75 X 25 X 3	0.63	
	LT100	100 X 25 X 3	0.78	
	LT250	250 X 40 X 3	1.74	
	LT300	300 X 40 X 3	2.1	
	LT350	350 X 40 X 3	2.35	
	LT400	400 X 40 X 3	2.66	
Square Tube	ST25	25 X 25 X 3	0.53	
	ST32	32 X 32 X 5	1.02	
	ST38	38 X 38 X 5	1.32	
	ST44	44 X 44 X 6	1.82	
	ST51A	51 X 51 X 5	1.80	
	ST51B	51 X 51 X 6.35	2.60	
	ST60	60 X 60 X 5	2.20	
	ST76	76 X 76 X 10	5.47	
	ST100	100 X 100 X 6.35	4.75	
	ST125	125 X 125 X 10	9.20	
	ST210	210 X 110 X 5	6.20	
Round Tube	RT18	18 X 11 X 3.5	0.45	
	RT25	25 X 19 X 3	0.40	
	RT38A	38 X 32 X 3	0.72	
	RT38B	38 X 25 X 6.35	1.52	
	RT50A	50 X 43 X 3.5	1.10	
	RT50B	50 X 42 X 4	1.31	
Solid Rod	S8	8	0.10	
	S10	10	0.16	
	S11	11	0.36	
	S12	12	0.23	
	S16	16	0.42	
	S18	18	0.52	

Name	Part No.	Size A X B X t mm	Weight kg/m	
Flat Bar	FS20	20 X 3	0.11	
	FS32	32 X 8	0.48	
	FS50	50 X 3	0.30	
	FS80	80 X 3	0.50	
	FS100	100 X 8	1.60	
	FS150	150 X 8	2.40	
	FS400A	400 X 6	4.86	
	FS400B	400 X 8	6.45	
	FS400C	400 X 10	8.10	
Handrail	H50	50 X 68 X 5	1.45	
	H60	60 X 76 X 5	1.59	
Kickplate	KP100	100 X 12 X 3	0.85	
	KP150	150 X 12 X 3	1.25	
Hook Board	G70	70 X 30 X 3	0.62	
	G55	55 X 55 X 4	0.76	
Ladder Rung	RC36	36 X 27 X 4.5	0.80	
	RC42	42 X 32 X 5	1.10	

Advantage of GRP pultruded profile:

Corrosion Resistant, Fire Retardant, Impact Resistant, High Strength, Non-Magnetic, Non-Conductive, Non-sparking, Light weight, Easy to Install, Easy to Maintain



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, tread covers that are sized at 250mm going and 1000mm wide, one 310ml tube will be needed for every three covers.

Fibreglass Ladder Rung Covers Data Sheet

Covers fit any size and profile of rung up to 25mm and can be cut to your preferred size. Rung covers have a quartz grit finish for superior slip-resistance and are class 1 fire resistant to BS 476.

Product Name:	GRP Ladder Rung Cover
Chemical Name:	GRP plate made from glass reinforced polyester
Ingredients:	Fibrous glass, polyester resin, catalyst (peroxyester), styrene, aluminium oxide, pigments. Ingredients are chemically cured and bonded together
Grit:	Crushed quartz
Hazards Acute Effect	None by contact. Dust produced by cutting can penetrate the pores of the skin causing itching. Avoid breathing dust. Use respirator 3M No 4251.
Appearance:	U shaped profile with gritted surface to one side. Thickness from 1.5mm.
Fire Tests:	Product has been tested to ASTM-E84 tunnel test method and has received a class 1 rating.
Waste Disposal:	Abide by local laws and procedures. Product is not considered a hazardous waste.

Thermal conductivity	0.2 w/mk
Tensile strength	123 mpa
Tensile modulus	7.1 gpa
Flexural strength	193 mpa
Thermal co-efficient of expansion	$30 \times 10^{-6}/\text{deg C}$

Anglia Composites Ltd.
Unit 5 Stour Valley Business Centre
Brundon Lane
Sudbury
Suffolk CO10 7GB

Tel: 01787 377 322
E: info@angliacomposites.co.uk



SHIPS TYPE ACCESS LADDER

Ships Ladder Overview

Manufactured from fibreglass. Anglia Composites Ships Ladders can be designed to incorporate a top walk through and handrails to one or both sides.

STANDARD FEATURES

- Custom made to any size.
- Fibreglass grating treads designed for use in the 65° to 75° range.
- Min dimension between handrails 540mm
- Tread 160mm minimum width

Material:

Fibreglass.

Manufacture:

Manufactured from 150mm x 50mm channel stringers set 500mm apart or to 600mm width as required.

Treads:

Fibreglass Grating treads 450m (up to 550mm) long x 160mm wide and set at approx 250mm centres.

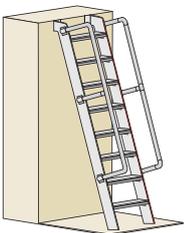
Finish:

The handrails and treads can be Grey or Yellow at no extra cost.

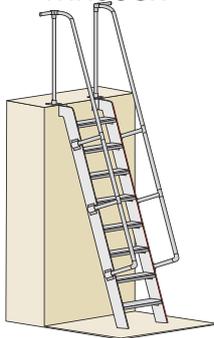
Note:

All Anglia Composites access systems and fire escapes are designed in accordance with BS5395: Part 3: 1985 and comply with relevant building Regulations.

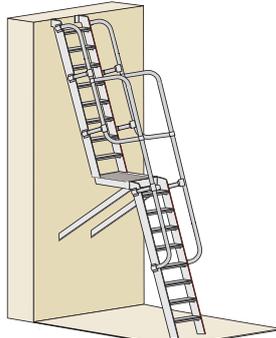
STANDARD LADDER WITH HANDRAILS



WITH WALK THROUGH



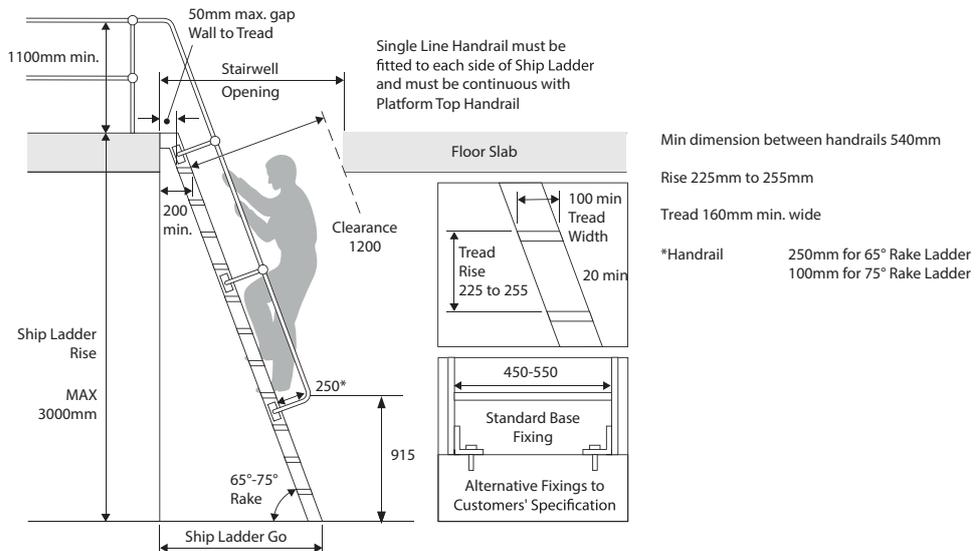
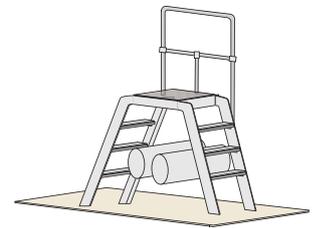
WITH HALF LANDING



WITH UP AND OVER



UP AND OVER WITH HANDRAIL



GRP Plate – Data Sheet

Product Name	GRP solid plate
Chemical Name	GRP plate made from glass reinforced polyester
Ingredients	Fibrous glass, polyester resin, catalyst (peroxyester), styrene, aluminium oxide, pigments. Ingredients are chemically cured and bonded together
Grit	Crushed quartz
Hazards Acute Effect	None by contact. Dust produced by cutting can penetrate the pores of the skin causing itching. Avoid breathing dust. Use respirator 3M No 4251
Appearance	Solid flat panels with gritted surface to one side. Thickness from 1.5mm to 20mm
Fire Tests	Product has been tested to ASTM-E84 tunnel test method and has received a class 1 rating
Waste Disposal	Abide by local laws and procedures. Product is not considered a hazardous waste

Thermal conductivity	0.2 w/mk
Tensile strength	123 mpa
Tensile modulus	7.1 gpa
Flexural strength	193 mpa
Thermal co-efficient of expansion	$30 \times 10^{-6}/\text{deg C}$
Sheet dimensions (feet)	8 x 4 max
(mm)	2440 x 1220
Approx. weight - 4mm thick	4.95kgs/m ²
6mm	7.2kgs/m ²
8mm	9.8kgs/m ²
10mm	12.2kgs/m ²

Spill Containment

Suitable for all oils and 95% of chemicals, our drum spill trays help you comply with current oil and chemical storage regulations. With unique anti-slip gritted support surface. Position your drums without sliding. The specially designed fibreglass construction is simply shaped with a removable support surface, so your bund can be easily emptied or cleaned.



One Drum Bund

Principal Material: GRP (Glass Reinforced Plastic)
Support Material: Anti-slip Fibreglass Grating
Dimensions: 850 x 850 x 160mm
Capacity: 55 litres
Maximum Loading: 500 kgs
Weight: Approx. 20 kgs
Suitable for ambient temperatures: -50°C to +80°C
Price: £180.00 plus VAT

Principal Material: GRP (Glass Reinforced Plastic)
Support Material: Anti-slip Fibreglass Grating
Dimensions: 1380 x 850 x 400mm
Regulation Capacity: 220 litres
Actual Capacity: 270 litres
Maximum Loading: 1000 kgs
Weight: Approx 30 kgs
Suitable for ambient temperatures: -50°C to +80°C
Cost: £235.00 plus VAT



Two Drum Bund



Four Drum Bund

Principal Material: GRP (Glass Reinforced Plastic)
Support Material: Anti-slip Fibreglass Grating
Dimensions: 1380 x 1380 x 220mm
Regulation Capacity: 220 litres
Actual Capacity: 290 litres
Max. Loading: 2500 kgs
Weight: Approx 45 kgs
Price: £370.00 plus VAT



IBC Bund with dispensing facility

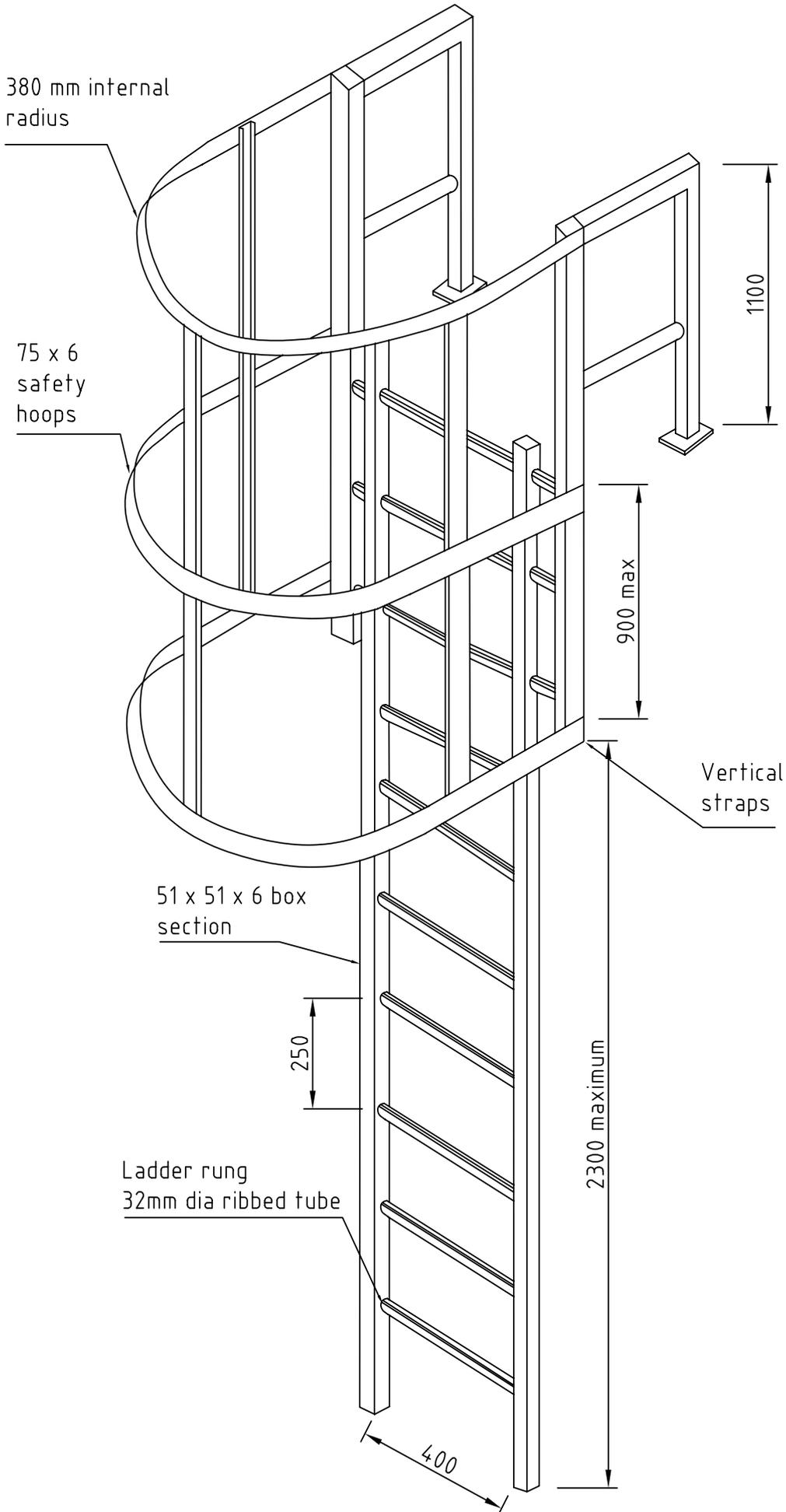
Principal Material: GRP (Glass Reinforced Plastic)
Dimensions: 1930 x 1570 x 650mm
Nominal Capacity: 1000 litres
Actual Capacity: 1100 litres
Maximum Uniformly Distributed Load: 2000 kgs
Weight: Approx 45 kgs
Maximum size of IBC: 1270 length x 1100 width
Minimum size of IBC: 1110 length x 950 width

Suitable for ambient temperatures: -100°C to +80°C

Price: £425.00 plus VAT

Anglia Composites Ltd - 01787 377 322
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Typical ladder with walk through and safety rings



ANGLIA COMPOSITES LTD
UNIT 5 STOUR VALLEY BUSINESS CENTRE
BRUNDON LANE
SUDBURY
SUFFOLK CO10 7GB
TEL: 01787 377322