

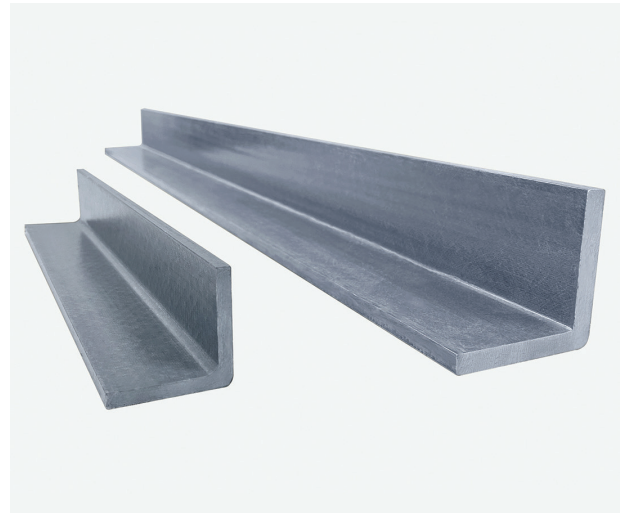
GRP Angle Profile

Our GRP Angle compliments our vast range of GRP grating to provide best-practice fixing methods for fastening grating panels, or creating frames and truss structures. Our GRP Angle is constructed from the highest quality fibreglass making it lightweight, and also chemical, rust, and corrosion resistant whilst offering longevity and durability. Certified to EN 13706.

Available in Grey (RAL 7000). Optional clips, bolts and clamps are available to purchase if required.

Features

- ◆ **Typical applications:** Perfect fixing solution for grating panels, or creating frames and truss structures for industrial or construction sites, chemical and shipping industries, water treatment plants as well as offshore oil rigs.
- ◆ **Material:** GRP - Glass reinforced polyester.
- ◆ **Cleaning:** Use of a stiff brush will normally be sufficient to remove everyday dirt and debris, and for more stubborn dirt a mild detergent with warm water is often effective. A pressure washer on a low pressure setting can be used to clean the GRP.
- ◆ **Sustainability:** REACH compliant.
- ◆ **Warranty:** Lifetime.



Suitable for
indoor and outdoor use



For more information about this product or, to place an order [click here](#)

Code	Size	Thickness	Weight	Colour
G-AP51GY-3	50.8mm x 50.8mm x 3m	6.35mm	3.5kg	Grey - RAL 7000
G-AP51GY	50.8mm x 50.8mm x 6m	6.35mm	7kg	Grey - RAL 7000
G-AP76GY-3	76.2mm x 76.2mm x 3m	9.5mm	7.9kg	Grey - RAL 7000
G-AP76GY	76.2mm x 76.2mm x 6m	9.5mm	15.8kg	Grey - RAL 7000

Please note, cutting tolerance +/- 3mm

Our delivery promise

We guarantee your order will be shipped on time, every time.
That's the Blue Diamond difference.

V6.05.24

Get in touch

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www.bluediamond.uk.com

GRP Angle Profile

Technical Specification

Chemical resistant: Yes

Cut to length: Yes, tolerance +/- 3mm

Dry area: Yes

Wet area: Yes

Oily and greasy area: Yes

Environment: Suitable for indoor and outdoor use

Flame retardant: Yes

Non-conductive (Electrical): Yes

Non-conductive (HV Electrical): Yes

Product testing:

- ◆ Tensile Strength - 220Mpa - ASTM D1037-93
- ◆ Modulus of Elasticity - 21Gpa - ASTM D1037-93
- ◆ Flexural Strength - 280Mpa - ASTM D1037-93
- ◆ Compressive Strength - 145Mpa - ASTM D1037-93
- ◆ Flammability resistance - BS 476 Part 7

Sustainability: REACH (Registration, Evaluation, Authorisation and Restrictions of Chemicals)

Temperature resistance: -50°C to +110°C

UV resistant: Yes

Load and Deflection Data

UDL

Uniformly distributed load data (kg/m) @ 0.5% deflection, simple supported beam

Dimensions mm	Allowable Load	Span width (m)										
		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
50.8 x 50.8 x 6.35	N	914	406	228	146	102	75	57	45	37	30	25
	kg	93	41	23	15	10	8	6	5	4	3	3
76.2 x 76.2 x 9.5	N	4,700	2,089	1,175	752	522	384	294	232	188	155	131
	kg	479	213	120	77	53	39	30	24	19	16	13

GRP Angle Profile

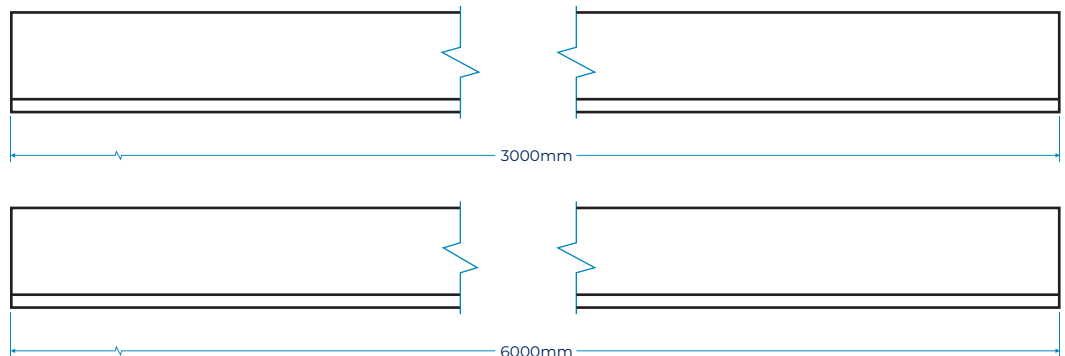
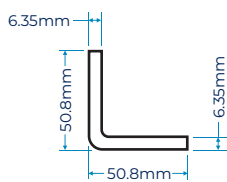
Load and Deflection Data

Point Load

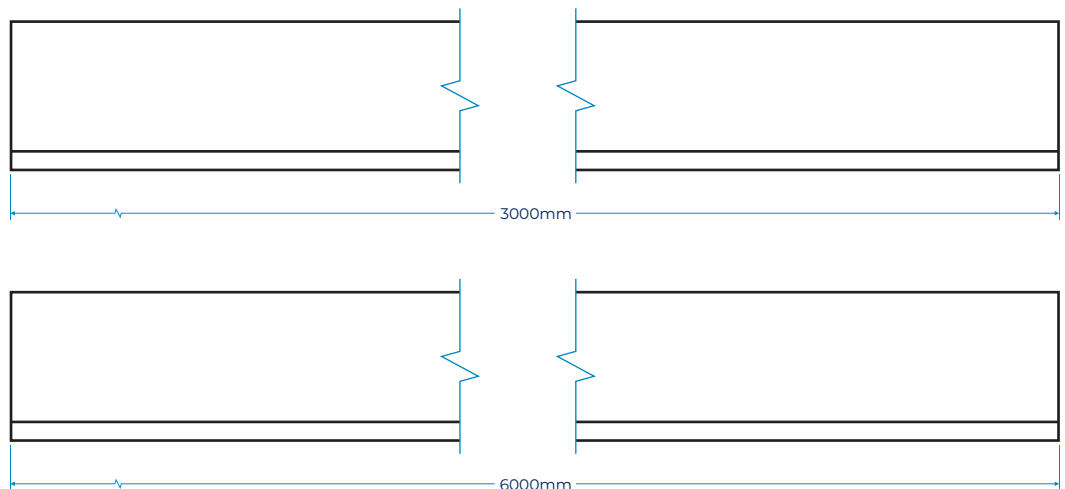
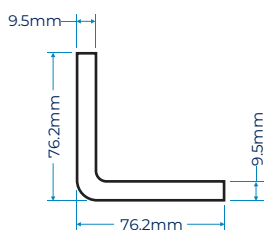
Dimensions mm	Allowable Load	Concentrated load data (kg/m) @ 0.5% deflection, simple supported beam										
		Span width (m)										
		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
50.8 x 50.8 x 6.35	N	571	254	143	91	63	47	36	28	23	19	16
	kg	58	26	15	9	6	5	4	3	2	2	2
76.2 x 76.2 x 9.5	N	2,938	1,306	734	470	326	240	184	145	118	97	82
	kg	299	133	75	48	33	24	19	15	12	10	8

GRP Angle Profile Diagrams

50.8 X 50.8 X 6.35



76.2 X 76.2 X 9.5



GRP Angle Profile

GRP Chemical Resistance Chart

Environment	%Conc.	Max.Oper. Temp.F/C.
Acetic Acid	50	125/52
Aluminum Hydroxide	100	160/71
Ammonium Chloride	ALL	170/77
Ammonium Bicarbonate	15	125/52
Ammonium Hydroxide	28	N/R
Ammonium Sulphate	ALL	170/77
Benzene	ALL	N/R
Benzoic Acid	SAT	150/66
Borax	SAT	170/77
Calcium Carbonate	ALL	170/77
Calcium Nitrate	ALL	180/82
Carbon Tetrachloride	100	N/R
Chlorine Dry Gas	-	140/60
Chlorine Water	SAT	80/27
Chromic Acid	5	70/21
Citric Acid	ALL	170/77
Copper Chloride	ALL	170/77
Copper Cyanide	ALL	170/77
Copper Nitrate	ALL	170/77
Ethanol	50	75/24
Ethylene Glycol	100	90/32
Ferrous Chloride	ALL	170/77
Formaldehyde	50	75/24
Glucose	100	170/77
Gasoline	100	80/27
Glycerine	100	150/66
Hydrobromic Acid	50	120/49
Hydrochloric Acid	37	75/24
Hydrogen Peroxide	5	100/38
Lactic Acid	ALL	170/77

Environment	%Conc.	Max.Oper. Temp.F/C.
Lithium Chloride	SAT	150/66
Magnesium Chloride	ALL	170/77
Magnesium Nitrate	ALL	140/60
Magnesium Sulphate	ALL	170/77
Mercuric Chloride	100	150/66
Mercurous Chloride	ALL	140/60
Nickel Chloride	ALL	170/77
Nickel Sulphate	ALL	170/77
Nitric Acid	20	70/21
Oxalic Acid	ALL	75/24
Perchloric Acid	10	N/R
Phosphoric Acid	100	120/49
Potassium Chloride	ALL	170/77
Potassium Dichromate	ALL	170/77
Potassium Sulphate	ALL	170/77
Propylene Glycol	ALL	170/77
Sodium Acetate	ALL	160/71
Sodium Bisulphate	ALL	170/77
Sodium Bromide	ALL	170/77
Sodium Cyanide	ALL	170/77
Sodium Hydroxide	N/R	N/R
Sodium Nitrate	ALL	170/77
Sodium Sulphate	ALL	170/77
Stannic Chloride	ALL	160/71
Sulfuric Acid	25	75/24
Tartaric Acid	ALL	170/77
Vinegar	100	170/77
Water Distilled	100	170/77
Zinc Nitrate	ALL	170/77
Zinc Sulphate	ALL	170/77