

Physical & Mechanical Data



GRP Structural Pultruded Profiles are manufactured by combining a resin matrix with a fibre reinforcement. This is formed and cured in a continuous process creating a product of extraordinary strength and resilience.

GRP Structural Pultruded Profiles provide a variety of benefits and mechanical properties matching or exceeding steel equivalents. A wide range of structural profiles are available including U-Channel, I-Beam, Tube, Box, Angle, Rod and Handrail.

Advantages:

- **Exceptional strength:** on a weight to weight basis, GRP profiles are stronger than structural steel. The excellent impact strength of GRP profiles reduce damage caused by accidental collisions
- **Lightweight:** weighing up to 80% less than steel and 30% less than aluminium, GRP profiles provide equivalent performance for considerably less weight
- **Corrosion resistant:** GRP profiles are generally unaffected by exposure to a wide variety of corrosive chemicals and environments. A synthetic surface veil is applied, to provide a resin rich layer, thereby enhancing the already excellent corrosion resistant properties
- **Maintenance free:** the corrosion resistant properties of our GRP profiles remove the necessity of periodic

painting or surface treatment

- **Low thermal conductivity:** all of our GRP profiles have a low thermal conductivity. For example they are around 1/250 of aluminium, and 1/60 of steel
- **Non-conductive:** GRP profiles are electrically non-conductive, making their specification ideal for cable trays, ladders, cover boards etc
- **Electromagnetic transparency:** GRP profiles are transparent to radio-waves, microwaves and other electromagnetic frequencies. Therefore, GRP profiles are ideal for Aerial Masts and Radar Applications
- **Dimensional stability:** GRP profiles are resistant to stretching, warping, or swelling over a wide range of temperatures and physical stresses
- **Thermal stability:** GRP profiles are capable of withstanding continuous exposure to temperatures of up to 65°C

GRP profiles are commonly utilized in the construction of composite structures. Step on Safety specialize in the fabrication of Composite Platforms, Stairways, Access Ladders, Bridges and Walkways.

All of the profiles listed in the following tables are normally supplied direct from stock in 6 metre lengths and they can be cut to your required dimensions for a small additional charge.

FOR MORE INFORMATION

Call: **01206 322 899**

Email: sales@deck-safe.co.uk

Visit: www.decksafe.co.uk

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Angle Profile

Dimensions	Colour	Kg/lm	Kg/6m Length
25 x 25 x 3mm	Grey	0.25	1.50
50 x 50 x 6mm	Grey	1.08	6.48
60 x 60 x 8mm	Grey	1.61	9.66
75 x 50 x 8mm	Grey	1.60	9.66
75 x 75 x 4mm	Grey	0.99	5.94
75 x 75 x 10mm	Grey	2.40	14.40
76 x 76 x 9.35mm	Grey	2.35	14.10
100 x 75 x 8mm	Grey	2.22	13.22
100 x 100 x 8mm	Grey	2.76	16.56
100 x 100 x 10mm	Grey	3.23	19.38
125 x 75 x 10mm	Grey	3.20	19.20

C Section Profile

Dimensions	Colour	Kg/lm	Kg/6m Length
73 x 25 x 5mm	Grey	1.08	6.48
76 x 25.4 x 6.35mm	Grey	1.10	6.60
100 x 40 x 5mm	Grey	1.43	8.58
100 x 50 x 6mm	Grey	2.03	12.18
150 x 50 x 6mm	Grey	2.57	15.42
200 x 60 x 8mm	Grey	4.00	24.00
200 x 60 x 9.5mm	Grey	5.59	33.54

Round Tube Profile

Dimensions	Colour	Kg/lm	Kg/6m Length
25 x 25 x 3mm	Grey	0.25	1.50
50 x 50 x 6mm	Grey	1.08	6.48

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Box Section Profile

Dimensions	Colour	Kg/lm	Kg/6m Length
25 x 25 x 3mm	Grey	0.46	2.76
31.8 x 31.8 x 3mm	Grey	0.68	4.08
38 x 38 x 5mm	Grey/Yellow	1.20	7.20
38.1 x 38.1 x 3.2mm	Grey/Yellow	0.72	4.32
44 x 44 x 6mm	Grey	1.67	10.02
51 x 51 x 3.25mm	Grey/Yellow	1.10	6.60
51 x 51 x 6.35mm	Grey/Yellow	2.10	12.60
60 x 60 x 4.5mm	Grey/Yellow	1.80	10.80
100 x 100 x 4mm	Grey	2.75	16.50
101 x 51 x 6 x 3mm	Grey	2.26	13.56

I Beam Profile

Dimensions	Colour	Kg/lm	Kg/6m Length
101 x 51 x 6.35mm	Grey	2.24	13.44
150 x 80 x 8mm	Grey	4.96	29.76
150 x 150 x 10mm	Grey	7.10	42.60
200 x 100 x 9.5mm	Grey	7.20	43.20
200 x 200 x 10mm	Grey	11.02	66.12

Ladder Rung Profile

Dimensions	Colour	Kg/lm	Kg/6m Length
35 x 32mm	Grey/Yellow	N/A	N/A

The profiles listed are a just a sample of our range. If you require any other profiles, please contact us.
All profiles are manufactured in accordance with EN 13706.

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