



# Structural base

## Structural Components

The standard structural inventory includes square and rectangular beams.

## Features and benefits

- Corrosion resistant. Won't rot, rust or corrode.
- Strong yet lightweight. Helps save on transportation.
- Virtually maintenance-free. Durable and weather-resistant for a longer life cycle.
- Fire-retardant and nonconductive. Helps create a safer environment.
- Dimensionally stable. Won't shrink, swell, warp or bow.
- Highly consistent. Strength, appearance and quality are the same from piece to piece.
- Easy to fabricate and install. FRP can be cut, drilled and assembled with standard tools.
- Non-leaching. Does not require environmentally hazardous preservatives.
- Fast turnaround. Most in-stock orders are shipped within the next business day.

<b>Corrosion, rot and insect resistance</b>	Resists a broad range of chemicals and is unaffected by moisture or immersion in water. Resists insect damage. Painting is only suggested when exposed to UV-rays/direct sunlight.	<b>Stiffness</b>	Up to 3.3 times as rigid as timber. Will not permanently deform under working load. Modulus of elasticity: $2.6 \times 10^6$ psi
<b>Strength</b>	Has greater flexural strength than timber and pound-for-pound is often stronger than steel and aluminum in the lengthwise direction. Ultimate flexural strength (Fu) LW = 30,000 psi (30 ksi) CW = 10,000 psi (10 ksi) Compression strength: LW = 30,000 psi (30 ksi) CW = 15,000 psi (15 ksi)	<b>Impact resistance</b>	Will not permanently deform under impact. Glass mat in pultruded parts distributes impact load to prevent surface damage, even in subzero temperatures.
<b>Weight</b>	Weighs 75% less than steel and 30% less than aluminium	<b>Environmental impact</b>	Not hazardous to the environment.
<b>Electrical conductivity</b>	Nonconductive.	<b>Color</b>	Color is molded through; no painting required. Variety of colors available.
<b>Thermal properties</b>	Good insulator with low thermal conductivity. Thermal conductivity = 4 (BTU in./hr ft <sup>2</sup> °F) Low thermal coefficient of expansion. = 7 - 8 (in./in./ °F) $10^{-6}$	<b>Cost</b>	Lower installation costs, less maintenance and longer product life allow for a lower lifecycle cost.
		<b>Fabrication</b>	Can be field-fabricated using simple carpenter's tools with carbon or diamond tip blades - no torches or welding required. Light weight allows easier transport and installation. Be aware of the dust, use protective equipment.

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## Availability

Structural Base in GRP	Price m <sup>1</sup>
20 x 10 x 3000 mm (solid)	€ 10,00
15 x 25 x 3000 mm (solid)	€ 11,00
40 x 10 x 3000 mm (solid)	€ 11,00
25 x 25 x 6 x 3000 mm	€ 11,50
25 x 38 x 6 x 3000 mm	€ 12,50
38 x 38 x 6 x 3000 mm	€ 13,50
40 x 40 x 3 x 3000 mm	€ 10,00
51 x 102 x 6 x 3000 mm	€ 16,50
75 x 75 x 6 x 3000 mm	€ 25,00

GRP Connector	Price m <sup>1</sup>
20 mm round (use with 25 x 25 mm)	€ 8,50
13 x 25 mm (use with 25 x 38 mm)	€ 8,50
25 x 25 mm (use with 38 x 38 mm)	€ 8,50
38 x 89 mm (use with 51 x 102 mm)	€ 18,50
64 x 64 mm (use with 75 x 75 mm)	€ 20,50