



About GRP Pultruded profile

GFP Engineering are stockists of a range of GRP Pultruded profiles which are readily available in various types, sizes and colours. These include **GRP angle, GRP Box, GRP tube, GRP channel and GRP rod**. GFP are a 'one stop shop' for all your structural profile needs, we can supply profiles for your own assembly or we can pre-assemble products for you to your specification.

There are many benefits to using GRP pultruded profile in fabrication as a like for like replacement for steel or as a specialist product which gives greater benefits for every end use. These include:

Corrosion resistance | Fire Resistance | High Strength / Low Weight

Chemical Resistant | Non-Conductive | UV Resistant

Low Thermal Conductivity | Efficient Transport Costs

Temperature Resistant | Easy to fabricate with

Custom Colours and Finishes | Long Life | Zero Maintenance

High Impact Tolerance | Effective Electrical Insulation

Technical data

The table below shows the minimum properties to comply with the two grades defined in the BS EN 13706.

E17 Grade is for profiles which are less than 5mm in thickness and E 23 Grade is for those which are 5mm or over.

	Units	Property Data	
		E 23 Grade	E 17 Grade
Full section modulus	GPa	23	17
Tensile strength (axial)	MPa	240	170
Tensile strength (transverse)	MPa	50	30
Tensile Modulus (axial)	GPa	23	17
Tensile Modulus (transverse)	GPa	7	5
Flexural strength (axial)	MPa	240	170
Flexural strength (transverse)	MPa	100	70
Inter-laminar shear	MPa	25	15
Pin bearing strength	MPa	70	50