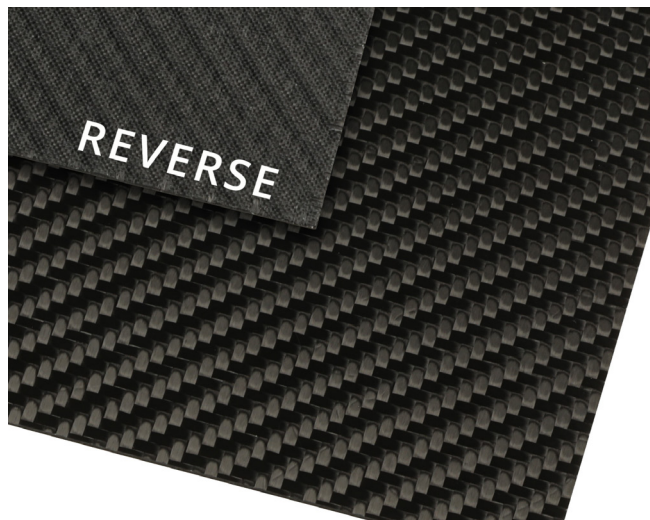




Key Features

- 100% high strength carbon fibre
- Flat, textured bonding surface on reverse
- Large format (up to 2000mm x 980mm)
- Quasi-isotropic fibre orientation

Description

Premium quality carbon fibre sheet manufactured using 100% high-strength carbon fibre reinforcement and epoxy resin with a smooth, glossy, cosmetic quality carbon fibre finish on one side and a textured 'peel-ply' finish on the reverse.

Typical Uses

- Motorsport / marine / light aircraft
- Engineering / automation
- Displays / exhibitions / shop-fitting
- Cabinets / enclosures / high-end audio
- Further processing into sandwich panels

Specification

Quasi-Isotropic Layup

To create a more uniform distribution of strength, these sheets are manufactured using layers of 0°/90° and 45°/-45° oriented reinforcement in a quasi-isotropic fibre orientation. This provides improved stiffness across their diagonal axis and a more uniform distribution of strength.

Laminate Composition and Tolerances

Using a high temperature cure cycle to maximise mechanical strength, the sheets also have a resultant T_g (glass transition temperature) of 80°C.

To achieve maximum stability and flatness the sheets are made with a symmetrical stack up in both fibre weight and weave.

Nominal Thickness	Layup Schedule	Thickness & Tolerance
1mm	210g 22 twill 300g +/-45 biax 210g 22 twill	0.9mm +/- 0.2mm
2mm	210g 22 twill 300g +/-45 biax 650g 22 twill 300g +/-45 biax 210g 22 twill	1.9mm +/- 0.2mm
3mm	210g 22 twill 300g +/-45 biax 650g 22 twill 210g 22 twill 650g 22 twill 300g +/-45 biax 210g 22 twill	2.8mm +/- 0.2mm
4mm	210g 22 twill 300g +/-45 biax 650g 22 twill 650g 22 twill 650g 22 twill 650g 22 twill 300g +/-45 biax 210g 22 twill	3.9mm +/- 0.2mm

Mechanical Properties

Property	Units	Value*			
Sheet Thickness	mm	1.0	2.0	3.0	4.0
Weight	kg/m ²	1.24	2.71	4.06	5.68
Density	g/cm ³	1.33	1.41	1.47	1.47
Tensile Strength 0/90°	MPa	503	558	644	-
Tensile Strength 45°	MPa	557	622	443	-
Tensile Modulus 0/90°	GPa	37.2	43.9	47.4	-
Tensile Modulus 45°	GPa	32.3	34.5	27.1	-
Youngs Modulus 0/90° (Gloss side in compression)	GPa	32.4	35.1	10.3	-
Youngs Modulus 0/90° (Gloss side in tension)	GPa	31.6	35.3	10.5	-
Elongation at Break at 0/90°	%	2.27	2.91	3.88	-
Elongation at Break at 45°	%	3.13	4.11	4.10	-

*Data measured from a typical production sheet

Additional Information

Country of Origin

CFS-RI High Strength Carbon Fibre Sheet is manufactured by Easy Composites Ltd in the United Kingdom using woven and multiaxial carbon fibre reinforcement and epoxy resin produced exclusively in the UK or European Union.

The country of origin is the United Kingdom.

REACH & RoHS Compliance

Easy Composites Ltd is committed to minimising the environmental impact of our activities and to complying with all the relevant environment regulations and guidelines.

All variations of CFS-RI High Strength Carbon Fibre Sheet are 'articles' under REACH Regulation (EC) 1907/2006 and do not contain any SVHCs above 0.1% w/w (per the latest ECHA Candidate List). The product is fully compliant with REACH and RoHS Directive 2011/65/EU (including 2015/863/EU).

Disclaimer

This data is not to be used for specifications. Values listed are for typical properties and should not be considered minimum or maximum. Our technical advice, whether verbal or in writing, is given in good faith but Easy Composites Ltd gives no warranty; express or implied, and all products are sold upon condition that purchasers will make their own tests to determine the quality and suitability of the product for their particular application and circumstances.

Easy Composites Ltd shall be in no way responsible for the proper use and service of the product, nor for the safeguarding of personnel or property, all of which is the duty of the user. Any information or suggestions are without warranty of any kind and purchasers are solely responsible for any loss arising from the use of such information or suggestions. No information or suggestions given by us shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Before using any of our products, users should familiarise themselves with the relevant technical and safety datasheets provided by Easy Composites Ltd.

CFS-RI is a trademark of Easy Composites Ltd.

Leaders in materials, equipment and training for advanced composites

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Version 2.3
Revised 01/05/2026

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