



FRP HOME
CARBON & COMPOSITE MATERIALS

SUPPLY REFERENCE DATA SHEET

400gsm Quadraxial Carbon NCF

Supplier-origin 0/+45/90/-45 stitched reinforcement reference

SUPPLIER / BRAND	ZHEJIANG FRPHOME NEW MATERIAL CO., LTD.
DOCUMENT ID	FRPH-TDS-CQX400-EN-R01
PRODUCT CODE	FRPH-CQX400 / SOURCE RECORD ZD QUADRAXIAL 400
ISSUE	REVISION 01 27 JULY 2026

400gsm Quadraxial Carbon NCF

Supplier-origin 0/+45/90/-45 stitched reinforcement reference

A four-direction stitched carbon non-crimp fabric offered subject to source availability, approved sample and final order confirmation. The source record distributes 400 g/m2 carbon equally across 0, +45, 90 and -45 degree layers, with 8 g/m2 texturised polyester stitching.

ARCHITECTURE 0 / +45 / 90 / -45	CARBON 400 g/m2	TOTAL DRY 408 g/m2 +/- 5%	ROLL 1270 mm x 50 m
---	---------------------------	-------------------------------------	-------------------------------

SUPPLIER-ORIGIN CONSTRUCTION DATA

Property	Source value	Quotation status
Construction	Quadraxial carbon NCF, 0 / +45 / 90 / -45	Confirm layer order by approved specification
Carbon fiber	12K standard modulus, 800 tex	Source reference; confirm grade and sizing
Carbon layer distribution	0: 100; +45: 100; 90: 100; -45: 100 g/m2	400 g/m2 carbon total
Stitching thread	Texturised polyester, 78 dtex	Source reference
Stitch gauge / length	6.0 gg / 2.22 mm	Pillar stitch
Stitch weight	8 g/m2	Source reference
Total dry fabric weight	408 g/m2 +/- 5%	Includes stitch yarn
Fabric width	1270 mm +/- 5 mm	Tapes by application review
Roll weight / length	25.72 kg / 50 m	Confirm core, packing and usable length

ORDER CONFIRMATION

Item	Source scope	Buyer input required
Tracer threads / tapered edges	Customer specified	State identification and edge requirements
Approved fibers	By application	Confirm source grade, sizing and qualification need
Cardboard core	Customer specified	State core and handling requirements
Packaging	Customer specified	State roll protection, labels and destination

TYPICAL APPLICATIONS

Project-defined multidirectional composite laminates • Process and end use subject to customer validation

HANDLING AND QUOTATION NOTES

- Keep rolls dry, covered and protected from crushing, telescoping and edge damage.
- Confirm layer order, total and per-layer weight, fiber grade, sizing, width, roll format, stitch and packaging before order release.
- Validate drape, compaction, permeability and resin process on representative geometry before production use.
- Treat the source values as nominal supply references, not cured-laminate design allowables or batch certification.

Data basis: Prepared from the local ZD Quadraxial Carbon Fabric 400gsm source data sheet supplied for website documentation. The source construction values remain identified as supplier-origin references. FRP HOME manufacture, source authorization, stock and batch availability are not implied and must be confirmed separately.

The values in this sheet are typical or nominal reference values, not a batch certificate or finished-laminate design allowables. Final specification, tolerances, test methods, resin compatibility, compliance review and COA requirements must be confirmed in the quotation and order documents.