



FRP HOME
CARBON & COMPOSITE MATERIALS

TECHNICAL DATA SHEET

1.2 mm Pultruded CFRP Strengthening Plate

External-bonded carbon laminate for civil structural strengthening

SUPPLIER / BRAND	ZHEJIANG FRPHOME NEW MATERIAL CO., LTD.
DOCUMENT ID	FRPH-TDS-CFRPPL12-EN-R01
PRODUCT CODE	FRPH-CFRP-PLATE-1.2 / source model ZCP1.2
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1.2 mm Pultruded CFRP Strengthening Plate

External-bonded carbon laminate for civil structural strengthening

A pultruded carbon fiber reinforced polymer laminate for externally bonded civil structural-strengthening systems. Plate selection, substrate preparation, compatible structural epoxy, design actions and installation must be reviewed as one engineered system.

PROCESS Pultruded CFRP	THICKNESS 1.2 mm	STRENGTH 2620 MPa typical	MODULUS 165 GPa typical
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SOURCE-MODEL REFERENCE DATA

Property	Source value	Quotation / design status
Source model	ZCP1.2	Confirm FRP HOME order code and traceability
Product form	Pultruded CFRP strengthening laminate	External-bonded system component
Color	Black	Visual reference
Nominal thickness	1.2 mm	Width, length and tolerances by quotation
Mean tensile strength	2620 MPa	Typical source value; test method not stated
Mean elastic modulus	165 GPa	Typical source value; test method not stated
Elongation at break	1.7%	Typical source value; test method not stated
Fiber volume content	>68%	Typical source value
Density	1.6 g/cm3	Typical source value

TYPICAL APPLICATIONS

Externally bonded civil CFRP strengthening • Concrete beam and slab reinforcement • Bridge and building load upgrades • Timber and masonry strengthening subject to engineering review

HANDLING AND QUOTATION NOTES

- A qualified structural engineer must define the strengthening design, substrate acceptance, anchorage details and installation controls.
 - Confirm plate width, length, thickness tolerance, surface preparation, compatible structural epoxy, quantity, destination and final application before quotation.
 - Do not use typical source values as project design allowables or as a substitute for project-specific testing, applicable codes and engineering approval.
 - Keep plates dry, supported and protected from impact, edge damage, contamination and direct sunlight during storage and transport.

Data basis: Prepared from the archived ZCP1.2 supplier data sheet dated 12 November 2024. Only explicit source-model values were retained. Legacy approval or certification language and unsupported application-specific assertions were not carried forward. Test methods, tolerances and batch values must be confirmed for the order.

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.