FairBoard
Material Data Sheet

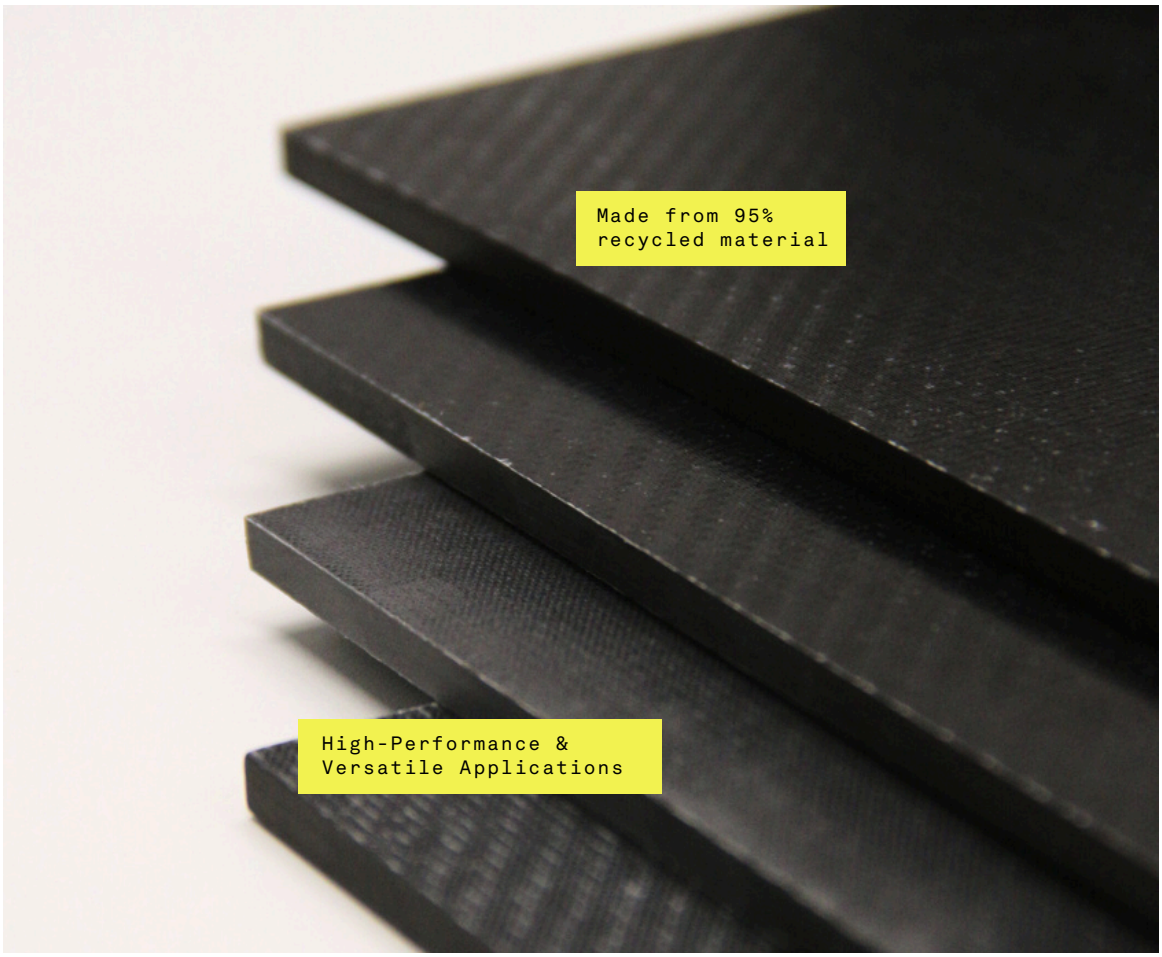
FMT-PDT-EXT-0004

FAIRMAT

Description

FairBoard is a high-performance structural panel made from high-modulus, second-generation carbon composite. Designed for the construction, furniture, and sports industries, it offers a superior strength-to-weight ratio and durability exceeding industry standards.

Powered by FAIRMAT Infinity Recycling Technology™, FairBoard is both recycled and recyclable. It significantly reduces CO2 emissions while effortlessly meeting the most demanding environmental requirements.



It has several key benefits:

Broad Surface Finish Compatibility

Fully compatible with most surface finish treatments.

Ease of Machining

Seamlessly integrates with most industrial wood processing equipment.

Zero Off-Gassing

Eliminates VOC emissions for superior air quality.

Sustainable Advantage

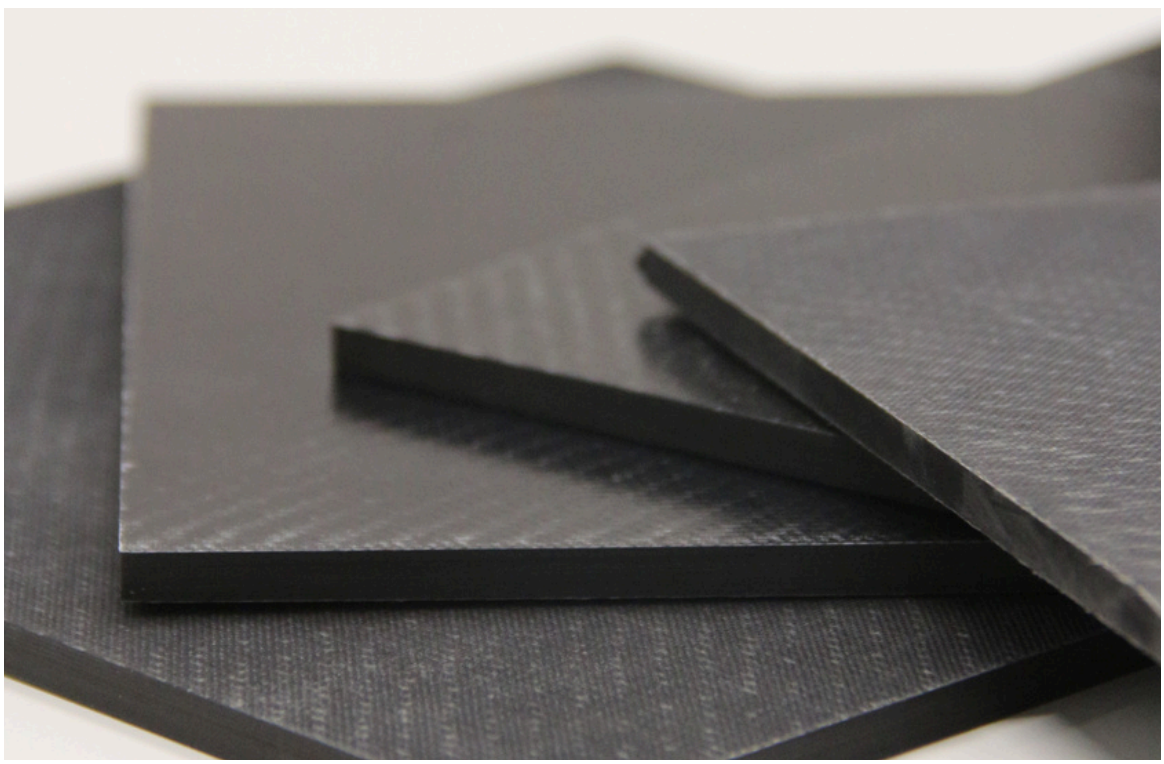
FairBoard is made of up to 95% recycled material.

Cost Neutrality

No additional green premium—costing the same or less than the materials it replaces.

True Recyclability

Designed for a "closed-loop" lifecycle where it can be recovered and reprocessed at end-of-life.



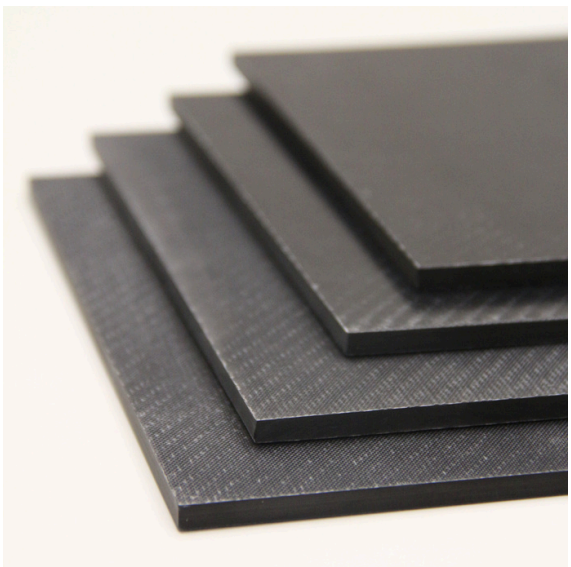
Product characteristics

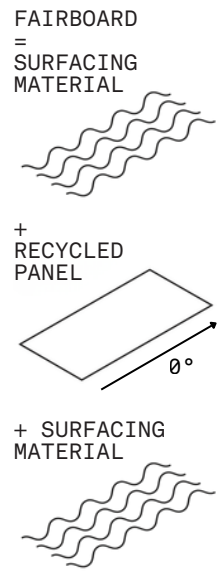
DIMENSIONS (MM)	Available in several sizes up to 4 200 x 1 600		
SURFACING MATERIAL	Available with a wide range of surfacing layers (GF, CF)		
RESIN TYPE	Available in epoxy-based, bio-based, or thermoplastic resins		
THICKNESS (MM)	2.9	5.4	10.4
CARBON FIBER CONTENT (%)	56	60	61
TOTAL AREAL WEIGHT (GSM)	4 640	8 700	16 800
DENSITY (G/CM3)		1.6	

Mechanical properties

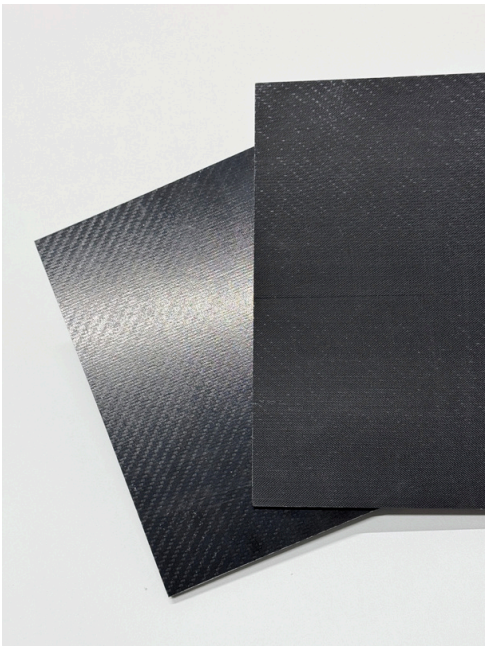
	Bending	Tensile
0° MODULUS (GPA)	120	140
0° ULTIMATE STRENGTH (MPA)	1 200	> 1300
90° MODULUS (GPA)	8	20
90° ULTIMATE STRENGTH (MPA)	90	30
STANDARDS	ISO 14125	ISO 527-4.5

Total Areal Weight = Recycled CFRP Panel Weight + Surfacing Material Weight





Possible Applications



Available in matte or glossy base finishes, FairBoard features an incompressible, high-stiffness core that outperforms traditional wood alternatives. These surfaces are engineered for seamless integration into your facility, arriving ready for immediate processing.

This high-quality foundation gives you the flexibility to apply any bespoke surface finish—such as laminates, paint, or coatings—directly within your own production line to meet your exact brand standards.



HEALTH & SAFETY

Fairmat certifies that our products are compliant with the European Union Regulation (EC) 1907/2006 governing the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and do not contain substances above 0.1% weight of a Substance of Very High Concern (SVHC) listed in Annex XIV. Advised precautions for safe handling are general PPE (gloves, safety goggles, mask and protective clothing).



All data given is based on representative samples of the materials in question. Since the method and circumstances under which these materials are tested are key to their performance, and Fairmat has no assurance of how its customers will use the material, Fairmat cannot guarantee their properties. Fairmat® is a registered trademark of Fairmat SAS.