



DragonPlate™

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Material Specifications



Carbon Fiber Angle

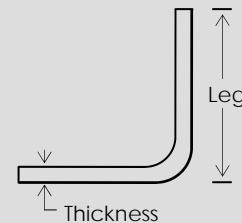
Our Angle has a quasi-isotropic, symmetrical lay-up schedule. It is produced with a textured surface finish on both the inside and outside. The textured surface is created from a peel ply fabric, this surface is excellent for bonding. This makes our CF Angle ideal by itself or in conjunction with our DragonPlate Laminates to build an extremely stiff and strong structure. Angle can be cut and trimmed easily using a hacksaw/band saw or we can custom CNC angle to your CAD drawing.

STANDARD SIZES

SIZE	LEG LENGTH	THICKNESS	WEIGHT (lbs/ft)
1/32" x 1/2"	0.50" (-0", +.125)	0.031" (± 0.010)	0.02
1/16" x 3/4"	0.75" (-0", +.125)	0.063" (± 0.010)	0.06
3/32" x 1"	1.00" (-0", +.125)	0.094" (± 0.015)	0.11
1/8" x 1 1/2"	1.50" (-0", +.125)	0.125" (± 0.015)	0.21

Lengths: 96", 72", 48", 24" (-0, +.25)
(96" may be up to 98")

Finish: Textured



Additional Options

- Custom Leg Length
- Custom Lengths
- Custom Thickness
- CNC Machining
- Design and Engineering Services

TECHNICAL SPECIFICATIONS

Properties of Carbon Fiber

Tensile Strength: 512 ksi
Tensile Modulus: 33.4 Msi

Resin

Epoxy resin that accounts for approximately 50% of the composition

$W_f \approx 50\%$

Lay Up Schedule

SIZE	PLAIN WEAVE LAYERS
1/32" x 1/2"	0/90, ±45, 0/90
1/16" x 3/4"	0/90, ±45, 0/90, ±45, 0/90, ±45, 0/90
3/32" x 1"	0/90, ±45, 0/90, ±45, 0/90, 0/90, ±45, 0/90, ±45, 0/90
1/8" x 1 1/2"	0/90, ±45, 0/90, ±45, 0/90, ±45, 0/90, ±45, 0/90, ±45, 0/90, ±45, 0/90