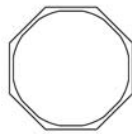




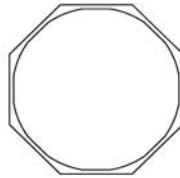
Fiberglass Pultruded Composite Marine Pilings

Engineering Specifications

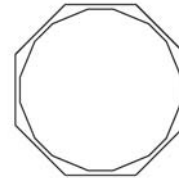
The three profiles are pultruded fiberglass composite with a hybridized polyurethane resin system with an E-glass reinforcement package. The resin contains superior UV inhibitors, in addition, the piles are shrouded with a polyester surfacing veil that provides 10 mils of superior UV protection against the sun's harmful rays. The extremely durable, light weight, high strength piles are the strongest, most cost-effective pultruded fiberglass piles in the marketplace.



CP076
8" x .25" wall
(203mm x 6.3mm)



CP074
10.2" x .25" wall
(259mm x 6.3mm)



CP210
10.2" x .275" wall
(259mm x 7mm)

Mechanical and Physical Properties

	8" (203mm) Light Duty CP076	10.2" (259mm) Med. Duty CP074	10.2" (259mm) Heavy Duty CP210
Mechanical Properties			
Flexural strength (full section) psi (Mpa)	40,000 (275.8)	42,000 (289.6)	50,000 (344.7)
Axial Compression Strength psi (Mpa)	40,000 (275.8)	42,000 (289.6)	50,000 (344.7)
Modulus of Elasticity psi (Gpa)	3.8E6 (26.2)	4.0E6 (27.5)	4.5E6 (31.0)
Allowable Moment Kip-ft (kN·m)	30 (40.67)	50 (67.79)	61.5 (83.38)
Ultimate Hole Bearing Strength Lengthwise psi (Mpa)			
5/8" dia. Bolt	25,000 (172)	25,000 (172)	25,000 (172)
3/4" dia. Bolt	23,000 (159)	23,000 (159)	23,000 (159)
Note: Allowable Bending Moment FS=2			
Physical Properties			
Moment of Inertia in ⁴ (mm ⁴)	60.87 (2.53E7)	139.69 (5.81E7)	171.57 (7.14E7)
Section Modulus in ³ (mm ³)	15.22 (2.49E5)	27.39 (1.30E5)	33.64 (5.51E5)
Radius of Gyration in (mm)	2.81 (71.4)	3.60 (91.4)	3.57 (90.7)
Weight lbs/ft (N/m)	6.33 (92.4)	8.82 (128.7)	11.05 (161.3)
Area in ² (mm ²)	7.72 (4980)	10.76 (6942)	13.47 (8690)
Coefficient of Thermal Expansion Lengthwise	5.0 ⁻⁶ in/in/°F	5.0 ⁻⁶ in/in/°F	5.0 ⁻⁶ in/in/°F
Water Absorption	<.60%	<.60%	<.60%
Fiber Volume Fraction	≥ 50%	≥ 50%	≥ 50%
Cross Sectional Area in ² (mm ²)	7.72 (4980)	10.76 (.85)	13.47 (8690)
Surface Area tt2 (m ² /m)	2.2 (.67)	2.8 (.85)	2.8 (.85)

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