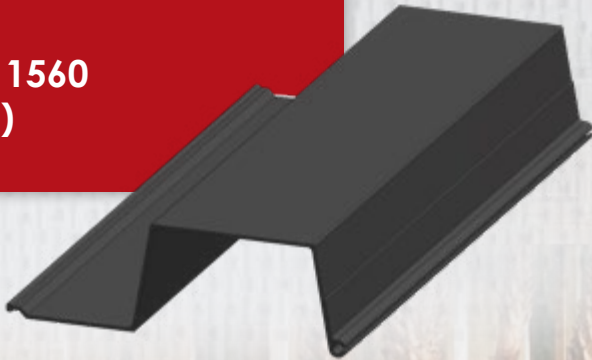


SUPERLOC® Sheet Piles Series 1560 (SS806)

Physical & Mechanical Properties

**SERIES 1560
(SS806)**



"Installation of our bulkhead went smoothly and the contractor commented on how much easier it is to pile drive this material than other traditional and non-traditional products. I am told that this is most likely due to the superior rigidity and the comparative thinness of the sheet. Please feel free to come by and look at our marina. We are located near Monkey Junction in Wilmington, off of Masonboro Loop Road."

~Tony Hughes
Masonboro Harbour Drive
Home Owners Association



Masonboro Harbour
Wilmington, North Carolina

Part drawings and physical property sheets can be viewed at <http://www.creativepultrusions.com>.

Series 1560 (SS806) 18" (457.2mm) W x 6" (152.4mm) H Physical Properties	Imperial Value	Units	Metric Value	Units
Section Modulus	8.02	in ³ /ft	431.18	cm ³ /m
Moment of Inertia	24.13	in ⁴ /ft	3295.16	cm ⁴ /m
Typical Thickness	0.20	in	5.08	mm
Depth of Sheet	6.00	in	152.40	mm
Width of Sheet	18.00	in	457.20	mm
Weight (single pile)	3.22	lbs/ft ²	15.72	kg/m ²
Angle of the web	10	°	10	°
Cross Sectional Area of Sheet	6.17	in ²	39.81	cm ²
Standard Color	Graphite Gray			



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Continued on Back ➔

Series 1560 (SS806) 18" (457.2mm) W x 6" (152.4mm) H Mechanical Properties	Test Method	ASTM D7290-06 Characteristic Values				Units
		Polyester Resin		Vinyl Ester Resin		
		Imperial	Metric	Imperial	Metric	
Tensile Modulus (LW)	ASTM D638	3.07	21.17	3.26	22.48	Msi / GPa
Tensile Modulus (CW)	ASTM D638	1.21	8.34	1.46	10.07	Msi / GPa
Compression Modulus (LW)	ASTM D6641	3.05	21.03	3.16	21.79	Msi / GPa
Compression Modulus (CW)	ASTM D6641	1.05	7.24	1.23	8.48	Msi / GPa
Tensile Strength (LW)	ASTM D638	54.65	376.80	58.95	406.45	ksi / MPa
Tensile Strength (CW)	ASTM D638	10.64	73.36	10.13	69.84	ksi / MPa
Compression Strength (LW)	ASTM D6641	48.09	331.57	50.98	351.49	ksi / MPa
Compression Strength (CW)	ASTM D6641	15.86	109.35	19.18	132.24	ksi / MPa
Inplane Shear Strength	ASTM D5379	9.44	65.09	11.04	76.12	ksi / MPa
Inplane Shear Modulus	ASTM D5379	0.42	2.90	0.42	2.90	Msi / GPa
Short Beam Shear Strength	ASTM D2344	4.25	29.30	4.58	31.58	ksi / MPa

Series 1560 (SS806) 18" (457.2mm) W x 6" (152.4mm) H Mechanical Properties		
Moment Capacity	Imperial	Metric
Moment Capacity Polyester ASD*	8,633 lb-ft/ft. of wall	38.4 kN-m/meter of wall
Moment Capacity Vinyl Ester ASD*	9,370 lb-ft/ft. of wall	41.7 kN-m/meter of wall
Moment Capacity Polyester LRFD ¹	2,589 lb-ft/ft. of wall	11.5 kN-m/meter of wall
Moment Capacity Vinyl Ester LRFD ¹	2,733 lb-ft/ft. of wall	12.2 kN-m/meter of wall
Shear Strength	Imperial	Metric
Shear Strength Polyester ASD*	23,470 lbs per ft. of wall	342.5 kN/meter of wall
Shear Strength Vinyl Ester ASD*	26,290 lbs per ft. of wall	392.9 kN/meter of wall
Shear Strength Polyester LRFD ²	7,027 lbs per ft. of wall	102.6 kN/meter of wall
Shear Strength Vinyl Ester LRFD ²	7,417 lbs per ft. of wall	108.2 kN/meter of wall
Full Section Modulus of Elasticity	Imperial	Metric
Average Full Section Modulus of Elasticity	3.68 Msi (Polyester) 3.86 Msi (Vinyl Ester)	25.37 GPa (Polyester) 26.61 GPa (Vinyl Ester)
Web Buckling Capacity from Wale Force based on ASTM D7290-06 Testing (based on 8" wale section)	5,899 lbs/ft of wall	86.09 kN/m of wall

Notes: All capacities have been developed based on equations and design methodologies described in the Pre-Standard Load & Resistance Factor Design (LRFD) of Pultruded Fiber Reinforced Polymer (FRP) Structures.

*Ultimate Capacity based on ASTM D7290-06 Characteristic Values.

¹LRFD Factored for long term water exposure; Time effect factor λ of .4 applied; ϕ factor of .80 applied.

²LRFD Factored for long term water exposure; Time effect factor λ of .4 applied; ϕ factor of .80 applied.

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CPM064-0300.50
DLR: 5.29.18