

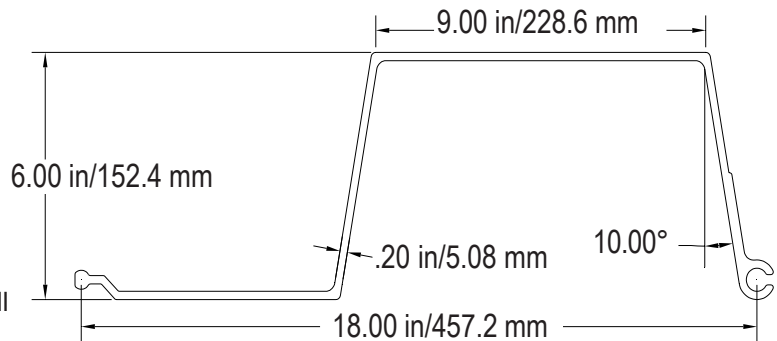
# SuperLoc™ 1560 Data Sheet

(Part Number SS806)

\*Wale & Retaining Wall System  
(US Patent #6,893,191 B2/May 17, 2005)

## Physical Properties

Depth of Sheet	6.00 in. 152.4 mm
Width of Sheet	18.00 in. 457.2 mm
Typical Thickness	0.20 in. 5.08 mm
Weight	3.22 psf 15.72 Kg/m <sup>2</sup>
Section Modulus	7.96 in <sup>3</sup> /ft. 4.28E5 mm <sup>3</sup> /m
Moment of Inertia	23.93 in <sup>4</sup> /ft. 3.27E7 mm <sup>4</sup> /m
Area of the web	1.80 in <sup>2</sup> /ft. of wall 3.81E3 mm <sup>2</sup> /m
Webs per length of wall	1.50 webs/ft. 4.921 webs/m
Angle of the web	10°
Cross-Sectional Area of the sheet	6.12 in <sup>2</sup> 3,948 mm <sup>2</sup>



Note: Values are not factored,  
an appropriate safety factor must be applied

CW = Crosswise      LW = Lengthwise

Mechanical Properties	Test Method	Average Values	
		Imperial	Metric
Full Section Modulus of Elasticity	*** PSU Lab Full Section	3.00E+06 psi	20,684 MPa
Shear Modulus	*** PSU Lab Full Section	425,000 psi	2,930 MPa
Shear Capacity	*** Calculated	9,000 lbs./ft. of wall	13,393 kg/m of wall
Web Buckling Capacity from Wale Force	*** Calculated/Full Section Lab Test	6,853 lbs./ft. of wall <sup>3</sup>	10,198 kg/m of wall <sup>3</sup>
Moment Capacity	*** PSU Lab Full Section	10,590 lbs.ft./ft. of wall	4,804 kg-m/m of wall
Average Stress at Failure	*** PSU Lab Full Section	15,965 psi	110 MPa
<b>Minimum Ultimate Values</b>			
Specific Gravity	ASTM D-792	1.7	1.7
IZOD Impact LW	ASTM D-256	30 ft.lb./in. notch	1.601 NM/mm notch
IZOD Impact CW	ASTM D-256	7 ft.lb./in. notch	.374 NM/mm notch
Tensile Strength Flange LW	ASTM D-638	40,000 psi	276 MPa
Tensile Strength Flange CW	ASTM D-638	7,000 psi	48 MPa
Tensile Modulus Flange LW	ASTM D-638	3.50E+06 psi	24,100 MPa
Tensile Modulus Flange CW	ASTM D-638	1.40E+06 psi	9,700 MPa
Compression Modulus Flange LW	ASTM D-695	2.90E+06 psi	20,000 MPa
Compression Modulus Flange CW	ASTM D-695	1.20E+06 psi	8,300 MPa
Compression Modulus Web CW	ASTM D-695	1.20E+05 psi	827 MPa
Compression Strength of Flange LW	ASTM D-695	35,000 psi	241 MPa
Compression Strength of Flange CW	ASTM D-695	16,000 psi	110 MPa
Compression Strength Web CW	ASTM D-695	16,000 psi	110 MPa
Bearing Strength LW	ASTM D-953	30,000 psi	207 MPa
In-Plane Shear LW	ASTM Mod.D2344 <sup>1</sup>	5,000 psi	34 MPa
CTE LW	ASTM D-696	5.5 (10 <sup>-6</sup> in/in/°F)	9.9 (10 <sup>-6</sup> mm/mm °C)
CTE CW	ASTM D-696	10.5 (10 <sup>-6</sup> in/in/°F)	18.9 (10 <sup>-6</sup> mm/mm °C)

1. Follow ASTM D2344, but rotate the coupon 90 degrees (cut section of coupon length faces up)
2. Values are published as ultimate. Appropriate Safety Factors must be applied.
3. Based on 6"-8" (152.4mm - 203.2mm) wide wale sections

Refer to the SuperLoc™ Design/Installation Manual for Comprehensive Information

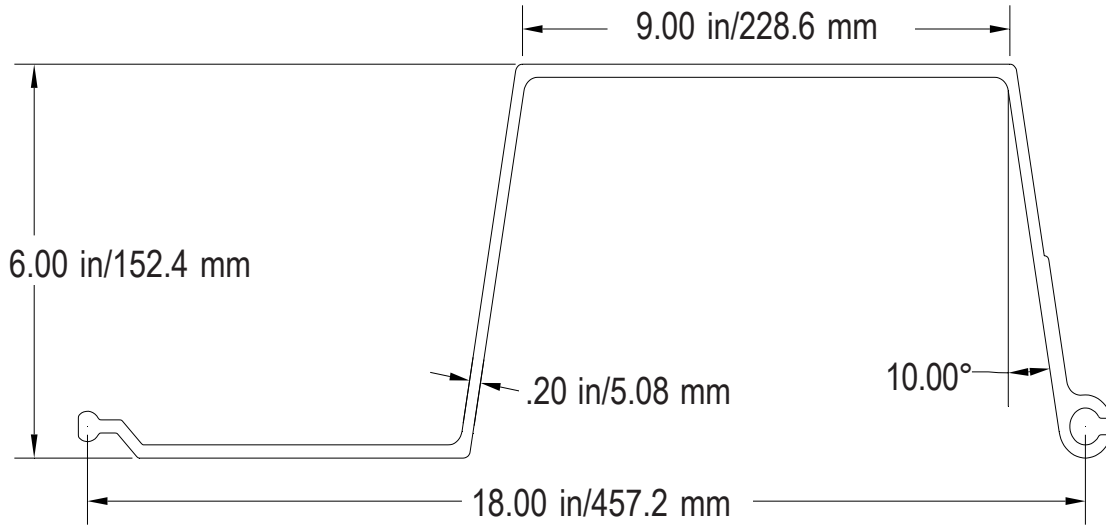
**See Back For Detailed Drawing  
& Recommended Safety Factors**



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	<b>Load Type</b>	<b>Factor</b>
<b>Suggested Safety Factor</b>	Moment	2.5
<b>Suggested Safety Factor</b>	Shear	3.0
<b>Suggested Safety Factor</b>	Web Buckling from Wale Force	2.5
<b>Suggested Safety Factor</b>	Bearing	2.5

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