



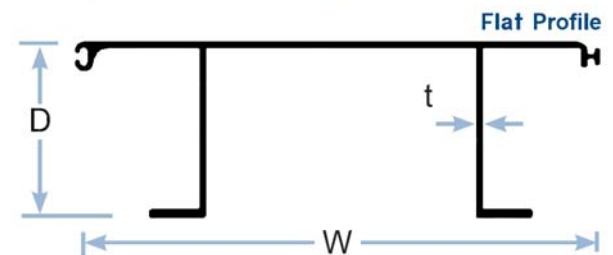
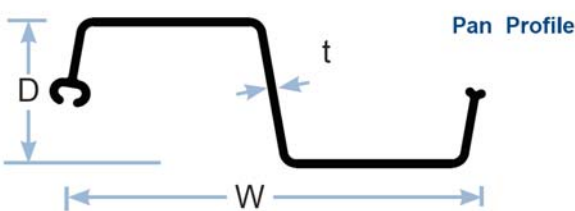
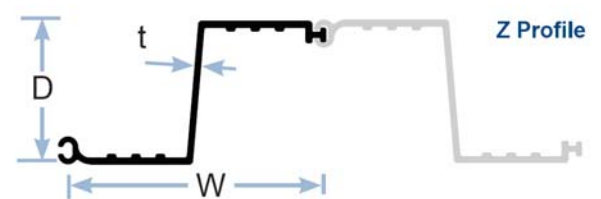
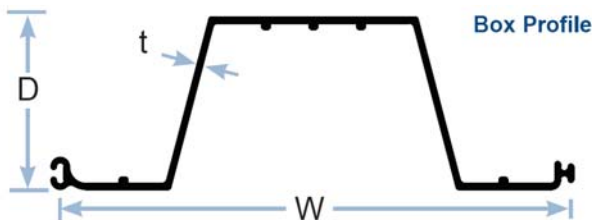
Crane Materials International

ShoreGuard® Sheet Piling Vinyl Specification Chart

Updated May 15, 2008

www.cmiengineer.com (866) 867-3762

	Allowable Moment (M)	Section Modulus (Z)	Moment of Inertia (I)	Thickness (t)	Section Depth (D)	Section Width (W)	Impact Strength	Profile	Standard Color	UV Protection	Standard Packaging	I-Beam Lock	
	lb-ft/ft kN-m/m	in ³ /ft cm ³ /m	in ⁴ /ft cm ⁴ /m	in mm	in mm	in mm	in-lbs/in ² N-mm/mm ²				Sheets/ Bundle		
Vinyl	SG-950	15,147 67.37	56.8 3,054	341 46,567	0.650 16.5	12 305	18 457	17,500 3,063	Z	GREY	YES	6	YES
	SG-750	9,707 43.18	36.4 1,957	182 24,854	0.460 11.7	10 254	12 305	15,000 2,625	Z	GREY	YES	12	YES
	SG-650	8,000 35.58	30.0 1,613	150 20,484	0.400 11.7	10 254	18 457	15,000 2,625	Z	GREY	YES	12	YES
	SG-625	6,507 28.94	24.4 1,312	122 16,660	0.385 9.8	10 254	30 762	15,000 2,625	Box	GREY	YES	8	YES
	CL-9900	5,333 23.72	20.0 1,075	90 12,290	0.350 8.9	9 229	24 610	13,750 2,406	Box	GREY	YES	20	NO
	SG-550	5,200 23.13	19.5 1,048	78 10,652	0.370 9.4	8 203	12 305	15,000 2,625	Z	GREY	YES	20	YES
	SG-525	4,693 20.87	17.6 946	79 10,788	0.290 7.4	9 229	24 610	13,750 2,406	Box	GREY	YES	20	YES
	CL-9000	4,320 19.22	16.2 871	73 9,969	0.280 7.1	9 229	24 610	13,750 2,406	Box	GREY	YES	20	NO
	SG-400	4,000 17.79	15.0 806	60 8,194	0.300 7.6	8 203	12 305	13,750 2,406	Z	GREY	YES	20	YES
	Flat Panel	3,872 17.22	20.2 1,086	91 12,430	0.275 7.0	9 229	24 610	13,750 2,406	Flat	GREY	YES	6	YES
	SG-425	3,813 16.96	14.3 769	57 7,784	0.285 7.2	8 203	24 610	13,750 2,406	Box	GREY	YES	20	YES
	SG-300	3,120 13.88	11.7 629	41 5,599	0.250 6.4	7 178	12 305	13,750 2,406	Z	GREY	YES	20	YES
	SG-325	2,960 13.17	11.1 597	39 5,326	0.250 6.4	7 178	24 610	13,750 2,406	Box	GREY	YES	20	YES
	SG-225	1,920 8.54	7.2 387	18 2,458	0.225 5.7	5 127	18 457	11,000 1,925	Box	GREY	YES	15	YES
	CL-4500	1,547 6.88	5.8 312	13 1,775	0.215 5.5	4.5 114	12 305	11,000 1,925	Pan	GREY	YES	40	NO



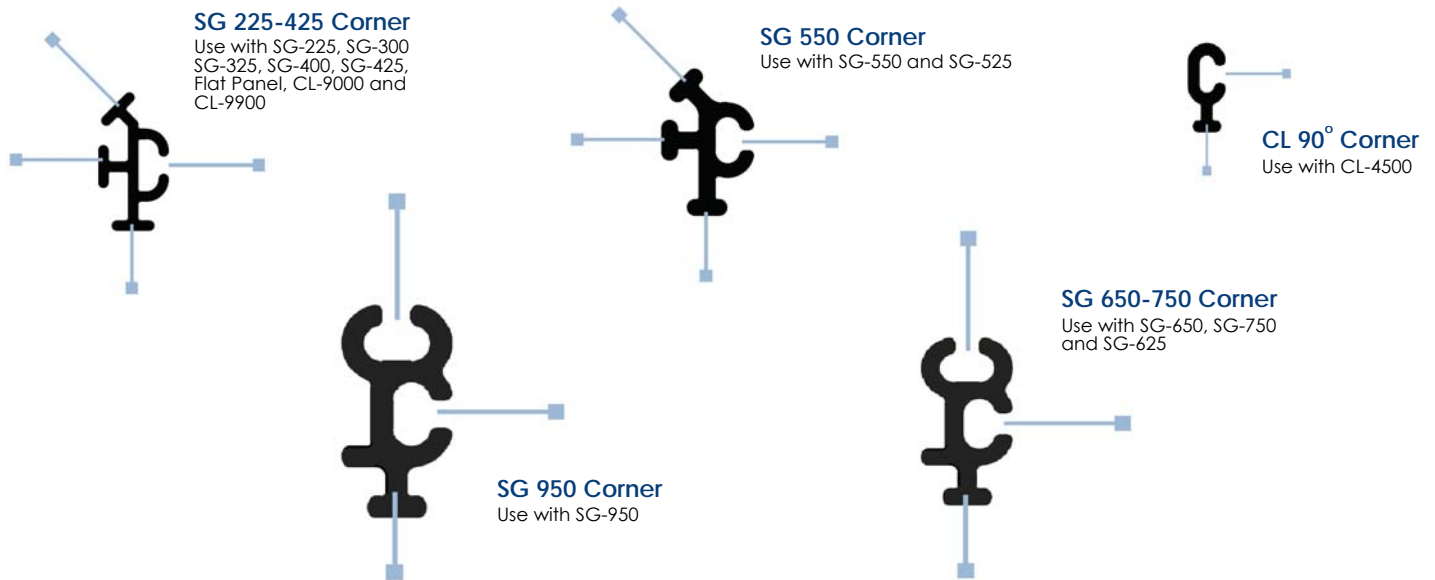
Physical properties are defined by ASTM testing standards, The Aluminum Association Design Manual, and/or standard engineering practice. The values shown are nominal and may vary. The information found in this document is believed to be true and accurate. No warranties of any kind are made as to the suitability of any CMI product for particular applications or the results obtained therefrom. ShoreGuard, C-Loc, TimberGuard, GeoGuard, Dura Dock, Shore-All, and Gator Gates are registered trademarks of Crane Materials International. ArmorWare, Ultra Composite, GatorDocks, GatorBridge and CMI Waterfront Solutions are trademarks of Crane Materials International, United States and International Patent numbers 5,145,287; 5,881,508; 6,000,883; 6,033,155; 6,053,666; D420.154; 4,674,921; 4,690,588; 5,292,208; 6,575,667; 7,059,807; 7,056,066; 7,025,539; 1,245,061; Other patents pending. © 2008 Crane Materials International. All Rights Reserved.

Determining Bending Strength

Sample Vinyl Calculation: SG-650

$$\begin{aligned}
 M &= Z \times \sigma_{\text{allow}} \\
 &= 30.0\text{in}^3/\text{ft} \times 3,200 \text{ psi} \\
 &= 96,000 \text{ in-lbs/ft} / 12 \text{ in/ft} \\
 &= 8,000 \text{ ft-lbs/ft}
 \end{aligned}$$

Corner Pieces for Sheet Piling



Capping Compatibility Chart

Profile	Related Sheet Piling
575, 575 STR	SG-225, CL-4500
850, 850 STR	SG-300, SG-325, SG-400, SG-425, SG-550
855, 855 STR	SG-300, SG-325, SG-400, SG-425, SG-550
1075, 1075 STR	SG-525, SG-625, SG-650, SG-750, CL-9000, CL-9900, Flat Panel



Physical properties are defined by ASTM testing standards, The Aluminum Association Design Manual, and/or standard engineering practice. The values shown are nominal and may vary. The information found in this document is believed to be true and accurate. No warranties of any kind are made as to the suitability of any CMI product for particular applications or the results obtained there from. ShoreGuard, C-Loc, TimberGuard, GeoGuard, Dura Dock, Shore-All, and Gator Gates are registered trademarks of Crane Materials International. ArmorWare, Ultra Composite, GatorDocks, GatorBridge and CMI Waterfront Solutions are trademarks of Crane Materials International. United States and International Patent numbers 5,145,287; 5,881,508; 6,000,883; 6,033,155; 6,053,666; D420,154; 4,674,921; 4,690,588; 5,292,208; 6,575,667; 7,059,807; 7,056,066; 7,025,539; 1,245,061; Other patents pending. © 2008 Crane Materials International. All Rights Reserved.