

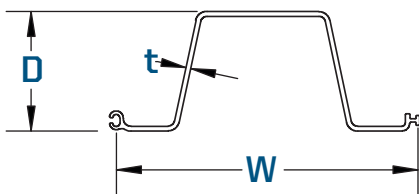
# Vinyl Sheet Pile



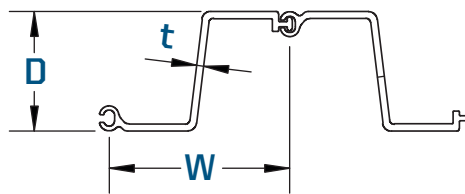
Material	Product	Profile	Allowable Moment (M) ft-lb/ft kN-m/m	Stiffness (EI) $\times 10^6$ lb-in <sup>2</sup> /ft kN-m <sup>2</sup> /m	Section Modulus (Z) in <sup>3</sup> /ft cm <sup>3</sup> /m	Moment of Inertia (I) in <sup>4</sup> /ft cm <sup>4</sup> /m	Thickness Web/Flange (t) in mm	Section Depth (D) in mm	Section Width (W) in mm	Standard Packaging Sheets/Bundle	I-Beam Lock
Vinyl	SG-950		15,147	130	56.8	341	0.715	12	18	6 or 8	✓
			67.37	1,224	3,054	46,567	18.2	305	457		
	SG-850		9,920	71	37.2	186	0.515	10	18	12	✓
			44.12	668	2,000	25,400	13.1	254	457		
	SG-825		9,787	84	36.7	220	0.485	12	30	5 or 10	✓
			43.53	791	1,973	30,043	12.3	305	762		
	FP-575		8,320	35	31.2	91	0.29 / 0.475	9	24	12	✓
			37.01	330	1,677	12,427	7.4 / 12.1	229	610		
	SG-650		7,893	56	29.6	148	0.385	10	18	6 or 12	✓
			35.11	527	1,591	20,211	9.8	254	457		
	SG-625		6,507	46	24.4	122	0.385	10	30	12	✓
			28.94	433	1,312	16,660	9.8	254	762		
	FP-475		5,467	17	20.5	45	0.25 / 0.24	7	24	8	✓
			24.32	160	1,102	6,145	6.4 / 6.1	178	610		
	CL-9900		5,333	34	20	90	0.35	9	24	20	✗
			23.72	320	1,075	12,290	8.9	229	610		
CL-9000		4,320	28	16.2	73	0.28	9	24	20	✗	
		19.22	264	871	9,969	7.1	229	610			
SG-425		3,813	22	14.3	57	0.285	8	24	20	✓	
		16.96	207	769	7,784	7.2	203	610			
SG-325		2,960	15	11.1	39	0.25	7	24	20	✓	
		13.17	141	597	5,326	6.4	178	610			
SG-225		1,920	7	7.2	18	0.225	5	18	15	✓	
		8.54	64	387	2,458	5.7	127	457			

\*Elastic Modulus (E) =  $380 \times 10^3$  psi ( $2.62 \times 10^6$  kPa)

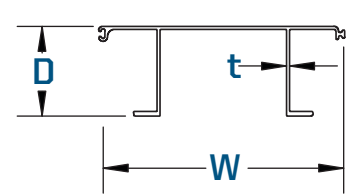
Box Profile



Z Profile



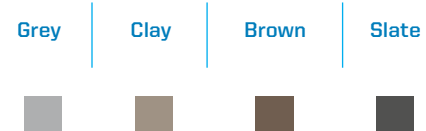
FlatPanel Profile



## FlatPanel Colors:



## Corrugated Colors:



ALL CMI VINYL SHEET PILES ARE PRODUCED USING XCR TECHNOLOGY FOR ENHANCED UV DURABILITY AND COLOR CONSISTENCY. ALL VIRGIN RESIN IS PRODUCED TO MEET THE ASTM D4216 CELL CLASSIFICATION 1-42443-33 BY AN ISO 9001 CERTIFIED COMPOUNDER.

## DETERMINING BENDING STRENGTH

### Sample Vinyl Calculation: SG-650

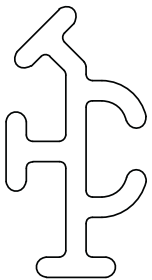
$$\begin{aligned}
 M &= Z \times \sigma \\
 &= 29.6 \text{ in}^3 / \text{ft} \times 3,200 \text{ psi} \\
 &= 94,720 \text{ in-lbs/ft} / 12 \text{ in/ft} \\
 &= 7,893 \text{ ft-lbs/ft}
 \end{aligned}$$

3,200 psi is the industry standard allowable design stress, recommended by the U.S. Army Corps of engineers.

## CORNER PIECES FOR SHEET PILING

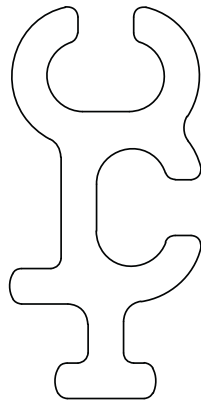
### SG 225-425 CORNER

USE WITH SG-225, SG-325, SG-425, FP-475, FP-575, CL-9000 AND CL-9900



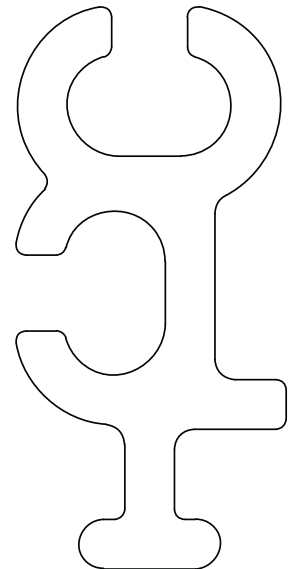
### SG 650-750 CORNER

USE WITH SG-625, SG-650, SG-825, SG-850 AND SG-625



### SG 950 CORNER

USE WITH SG-950



## CAPPING COMPATIBILITY CHART

PROFILE	RELATED SHEET PILING
AW-575, AW-575 STR	SG-225
AW-850, AW-850 STR	SG-325, SG-425 & FP-475
AW-1075, AW-1075, STR	SG-625, SG-650, SG-850, CL-9000, CL-9900 & FP-575
AW-1500	SG-825 & SG-950

