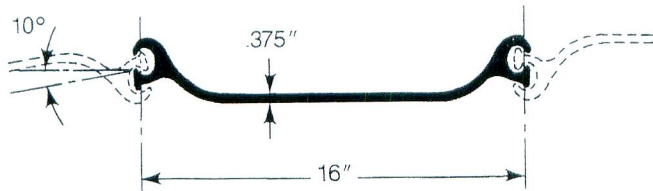


## Sections designed for interlock strength

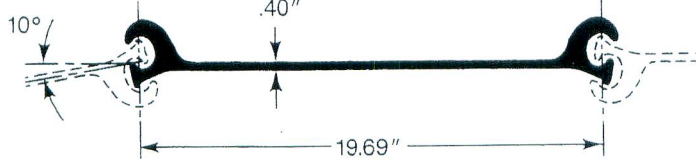
PSA23



### Interlock strength:

PSA23, when properly interlocked, develops a minimum ultimate interlock strength of 12 kips per in. Excessive interlock tension results in web extensions for section PSA23. Therefore, the interlock tension for this section should be limited to a maximum working load of 3 kips per in.

PS27.5

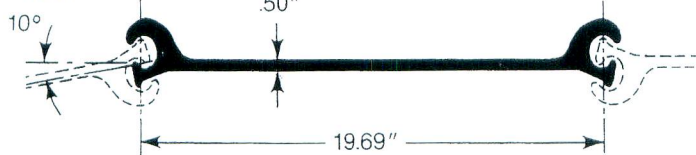


PS27.5 and PS31, when properly interlocked, develop a minimum ultimate interlock strength of 16 kips per in. If a greater interlock strength is required,

### Swing:

PSA23, PS27.5 and PS31, when properly interlocked, are designed for a minimum swing of up to 10 degrees (in either direction) for lengths up to 70 ft. The ability to obtain a full 10 degree swing decreases because of the difficulty in handling the longer pieces. With longer pieces, it is necessary to anticipate a reduction in obtainable swing of 1.5 degrees for each 10 ft increase in length over 70 ft.

PS31



## Properties and Weights

Section Designation	Area sq in.	Nominal Width, in.	Weight in Pounds		Moment of Inertia, in. <sup>4</sup>	Section Modulus in. <sup>3</sup>		Surface Area sq ft per lin. ft of bar	
			Per lin. ft of bar	Per sq ft of wall		Single Section	Per lin. ft of wall	Total Area	Nominal Coating Area*
PZ22	11.86	22	40.3	22.0	154.7	33.1	18.1	4.94	4.48
PZ27	11.91	18	40.5	27.0	276.3	45.3	30.2	4.94	4.48
PZ35	19.41	22.64	66.0	35.0	681.5	91.4	48.5	5.83	5.37
PZ40	19.30	19.69	65.6	40.0	805.4	99.6	60.7	5.83	5.37
PSA23	8.99	16	30.7	23.0	5.5	3.2	2.4	3.76	3.08
PS27.5	13.27	19.69	45.1	27.5	5.3	3.3	2.0	4.48	3.65
PS31	14.96	19.69	50.9	31.0	5.3	3.3	2.0	4.48	3.65

\* Excludes socket interior and ball of interlock.

### Dimensions:

The dimensions shown on these pages are nominal.

### Steel Grades:

Bethlehem steel sheet piling can be supplied in standard ASTM A328 and in high-strength, low-alloy grades ASTM A572 - Grades 50 and 60 and ASTM A690.

### Impact Resisting Steel:

Bethlehem steel sheet piling can be supplied to meet Charpy (CVN) requirements.