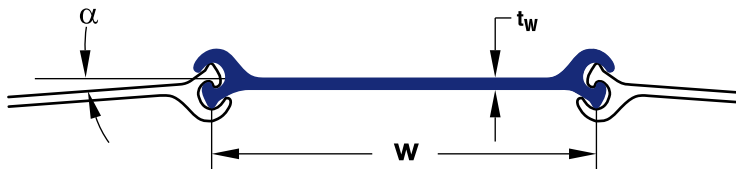


Flat Sections, Walers and Tie Rods

Flat Sections

Section	Width (w)		Web (t _w)	Maximum Interlock Strength	Allowable interlock rotation	Cross sectional area	Weight		Elastic section modulus	moment of Inertia	Coating Area*	
	in	mm					lb/ft	kg/m			ft ² /ft of single	ft ² /ft ² of wall
	in	mm	k/in	(α)	in ² /ft	kg/m	kg/m ²	in ³ /sheet	in ⁴ /sheet	m ² /m	m ² /m ²	
PS 27.5	19.69	0.4	20	7.0	8.09	45.1	27.5	3.3	5.3	3.65	1.11	
	500	10.2	3500		171.2	67.1	134.3	54	221	1.11	1.11	
PS 31	19.69	0.5	20	7.0	9.12	50.9	31	3.3	5.3	3.65	1.11	
	500	12.7	3500		193.0	75.7	151.4	54	221	1.11	1.11	

Minimum cell diameter cannot be guaranteed for piles over 65 feet (19.81 m) in length, or if piles are spliced. 58 piles are needed to make a 30 foot diameter cell.



Walers and Tie Rods

Meever USA and the Meever Group produce and sell tie back products and systems to meet a wide variety of specifications which include:

- Structural steel channel and beam walers
- Tie rod and anchor rods from Dywidag (domestic) and Tabanker (foreign) which include:
 - Hot rolled anchor bars and accessories
 - Hollow threaded anchor bars and accessories
 - High strength solid threaded anchor bars
- Soil anchor systems
- Corrosion protection systems for the above items per specifications



Diameter	Nominal Cross Section		Nominal Weight		Minimum Yield Stress		Minimum Breaking Stress		Minimum Yield Load		Minimum Ultimate Stress		
	HRAB	Area A	lbs/ft	kg/m	ksi	Mpa	ksi	Mpa	kips	kN	kips	kN	
in	mm	in ²	mm ²	lbs/ft	kg/m	ksi	Mpa	ksi	Mpa	kips	kN	kips	kN
0.75	19	0.59	380	2.0	2.98	97.1	670	116	800	57.3	255	68.3	304
0.98	25	0.76	491	2.6	3.85	97.1	670	116	800	74.0	329	88.3	393
1.10	28	0.95	616	3.2	4.83	97.1	670	116	800	92.8	413	110.8	493
1.18	30	1.10	707	3.7	5.55	97.1	670	116	800	106.6	474	127.0	565
1.38	35	1.49	962	5.1	7.55	97.1	670	116	800	145.0	645	173.1	770
1.69	43	2.25	1452	7.7	11.4	97.1	670	116	800	218.7	973	261.2	1,162
1.97	50	3.04	1,963	10.4	15.41	97.1	670	116	800	295.8	1,316	353.2	1,571
2.26	57.5	4.03	2,597	13.7	20.38	97.1	670	116	800	391.2	1,740	466.9	2,077
2.50	63.5	4.91	3,167	16.7	24.86	97.1	670	116	800	477.0	2,122	569.7	2,534
2.95	75	6.85	4,418	23.3	34.68	97.1	670	116	800	665.4	2,960	794.5	3,534

