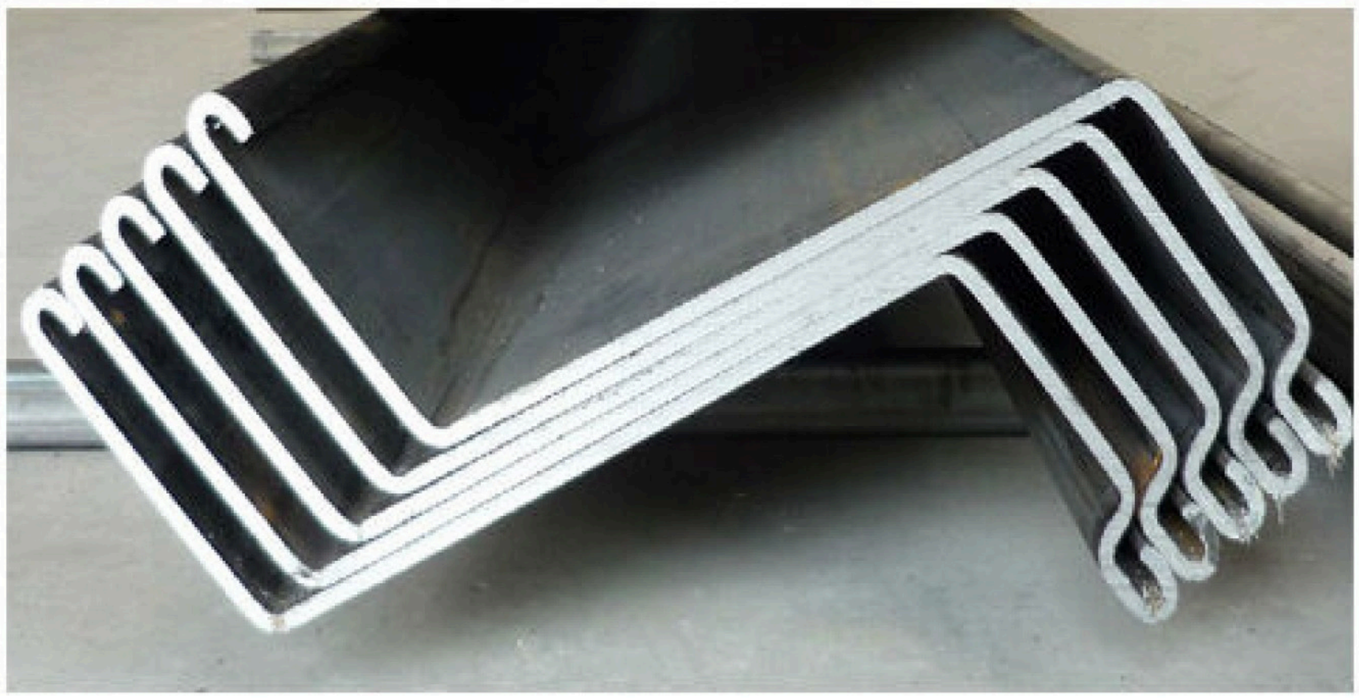
Navratan
Pipe and Profile Limited

Steel Sheet Pile Profile



Steel Sheet Pile Profile

Steel sheet piles are long structural sections with a vertical interlocking system that creates a continuous wall. The walls are most often used to retain either soil or water. The ability of a sheet pile section to perform is dependent upon its geometry and the soils it is driven into. The pile transfers pressure from the high side of the wall to the soil in front of the wall.

There are permanent and temporary applications. Permanent sheet piles remain in the ground and serve as permanent retaining structures. Temporary sheet piles are designed to provide safe access for construction, and are then removed.

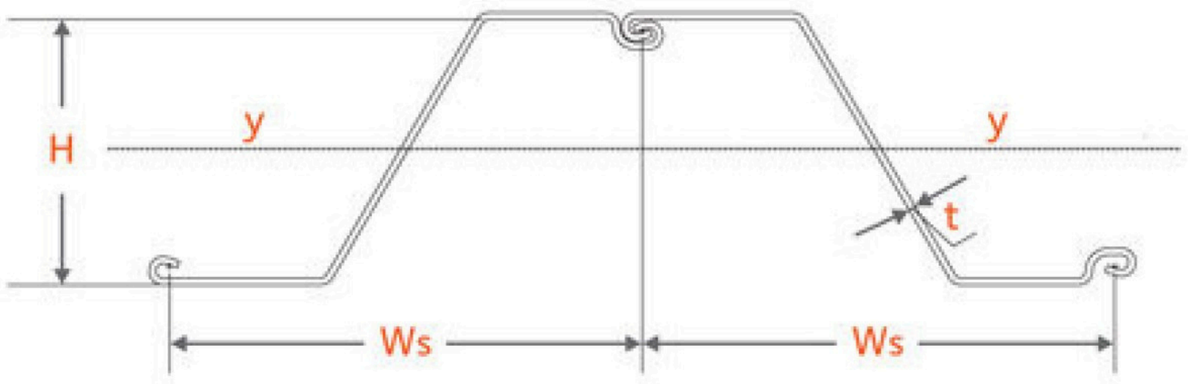
Hot rolled and cold formed are two primary methods of manufacturing sheet pile. While there are differences between these two methods, the most important distinction is the interlock. Since hot rolled sheet piles are produced from steel at high temperatures, the interlock tends to be tighter than its cold formed counterpart. Normally, looser interlocks are not recommended in extremely hard driving conditions or for walls requiring low permeability. Otherwise, the two types of sections perform similarly in most applications.

U Type
Sheet Piles

Z Type
Sheet Piles

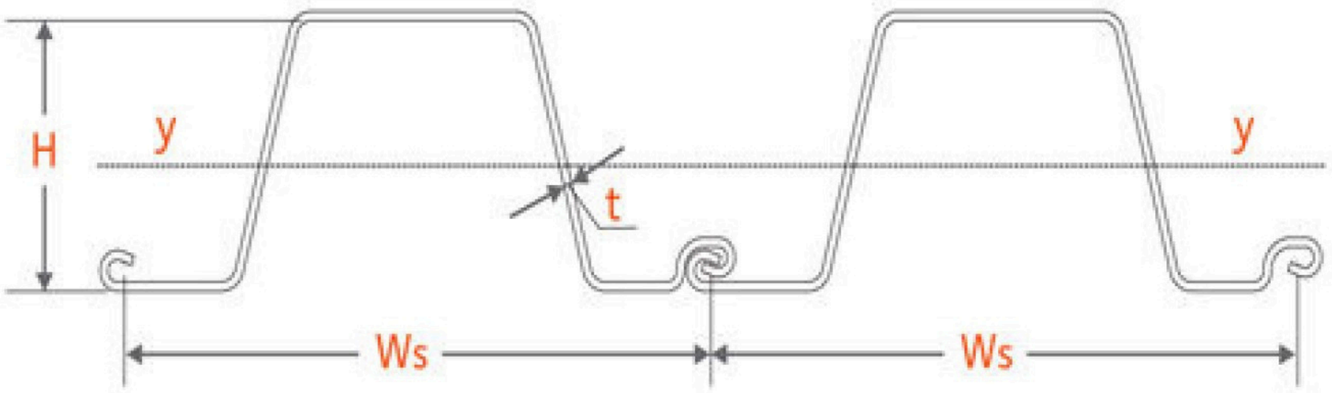
Steel Sheet Pile Profile

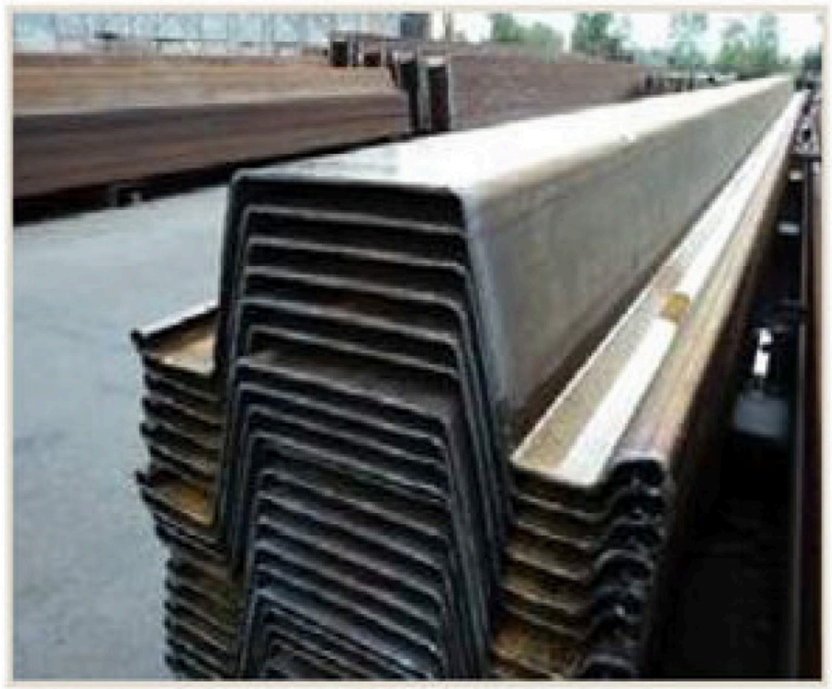
Z Profile



Type	S=Single D=Double	Thickness (t) mm	Single Pile c/c Width (Ws) mm	Inner Height (H) mm	Cross Section Area (Ac) cm^2	Surface Coating Area* (As) m^2/m^2	Weight (Wt) kg/m	Moment of Inertia (I) cm^4	Section Modulus (Z) cm^3
OZ 13A**	Per S	6.50	675	392	70.7		55.5	18388	909
	Per D						111.0	36789	1847
	Per m of wall					1.46	82.2	27251	1370
OZ 14A	Per S	7.00	675	392	76.1		59.7	19758	976
	Per D						119.5	39529	1981
	Per m of wall					1.46	88.5	29281	1470
OZ 15A	Per S	7.50	675	392	81.5		64.0	21137	1042
	Per D						128.0	42289	2117
	Per m of wall					1.46	94.8	31325	1570
OZ 16A**	Per S	8.00	675	392	86.9		68.2	22504	1109
	Per D						136.5	45023	2251
	Per m of wall					1.46	101.1	33350	1670
OZ 17A	Per S	8.50	685	392	92.1		72.3	24350	1199
	Per D						144.7	48715	2433
	Per m of wall					1.46	105.6	35558	1780
OZ 18A	Per S	9.00	685	392	97.6		76.6	25735	1266
	Per D						153.2	51485	2568
	Per m of wall					1.46	111.8	37580	1880
OZ 19A	Per S	9.50	685	392	102.9		80.8	27115	1333
	Per D						161.7	54245	2702
	Per m of wall					1.46	118.0	39595	1970
OZ 20A**	Per S	10.00	685	392	108.4		85.1	28488	1398
	Per D						170.2	56994	2836
	Per m of wall					1.46	124.2	41601	2070

U Profile





Type	S=Single D=Double	Thickness (t) mm	Single Pile c/c Width (Ws) mm	Inner Height (H) mm	Cross Section Area (Ac) cm^2	Surface Coating Area* (As) m^2/m^2	Weight (Wt) kg/m	Moment of Inertia (I) cm^4	Section Modulus (Z) cm^3
OΩ500/730**	Per S	4.00	730	235	49.7		39.0	4705	392
	Per D						78.0	9410	784
	Per m of wall					1.57	53.4	6446	537
OΩ600/730**	Per S	4.50	730	235	55.8		43.8	5285	440
	Per D						87.6	10570	880
	Per m of wall					1.57	60.0	7240	602
OΩ650/730	Per S	5.00	730	235	61.9		48.6	5862	488
	Per D						97.2	11724	976
	Per m of wall					1.57	66.6	8031	668
OΩ700/730	Per S	5.50	730	235	68.0		53.4	6438	535
	Per D						106.8	12876	1070
	Per m of wall					1.57	73.1	8819	733
OΩ800/730	Per S	6.00	730	235	74.0		58.1	7012	581
	Per D						116.2	14024	1162
	Per m of wall					1.57	79.6	9605	796
OΩ850/730	Per S	6.50	730	235	80.1		62.9	7584	626
	Per D						125.8	15168	1252
	Per m of wall					1.57	86.1	10388	857
OΩ900/730	Per S	7.00	730	235	86.1		67.6	8153	670
	Per D						135.2	16306	1340
	Per m of wall					1.57	92.6	11169	918
OΩ950/730	Per S	7.50	730	235	92.1		72.3	8721	714
	Per D						144.6	17442	1428
	Per m of wall					1.58	99.1	11947	979
OΩ1000/730	Per S	8.00	730	235	98.1		77.0	9287	758
	Per D						154.0	18574	1516
	Per m of wall					1.58	105.5	12722	1038

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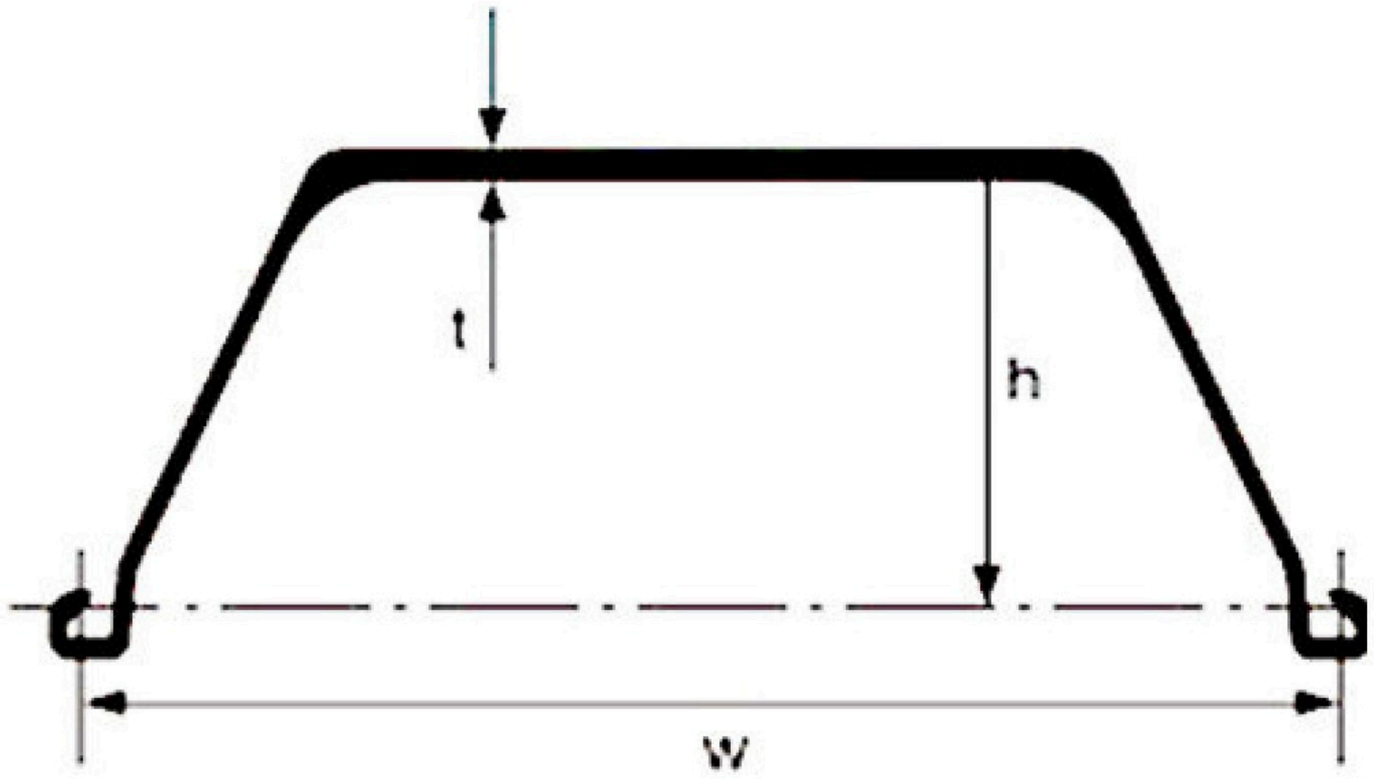
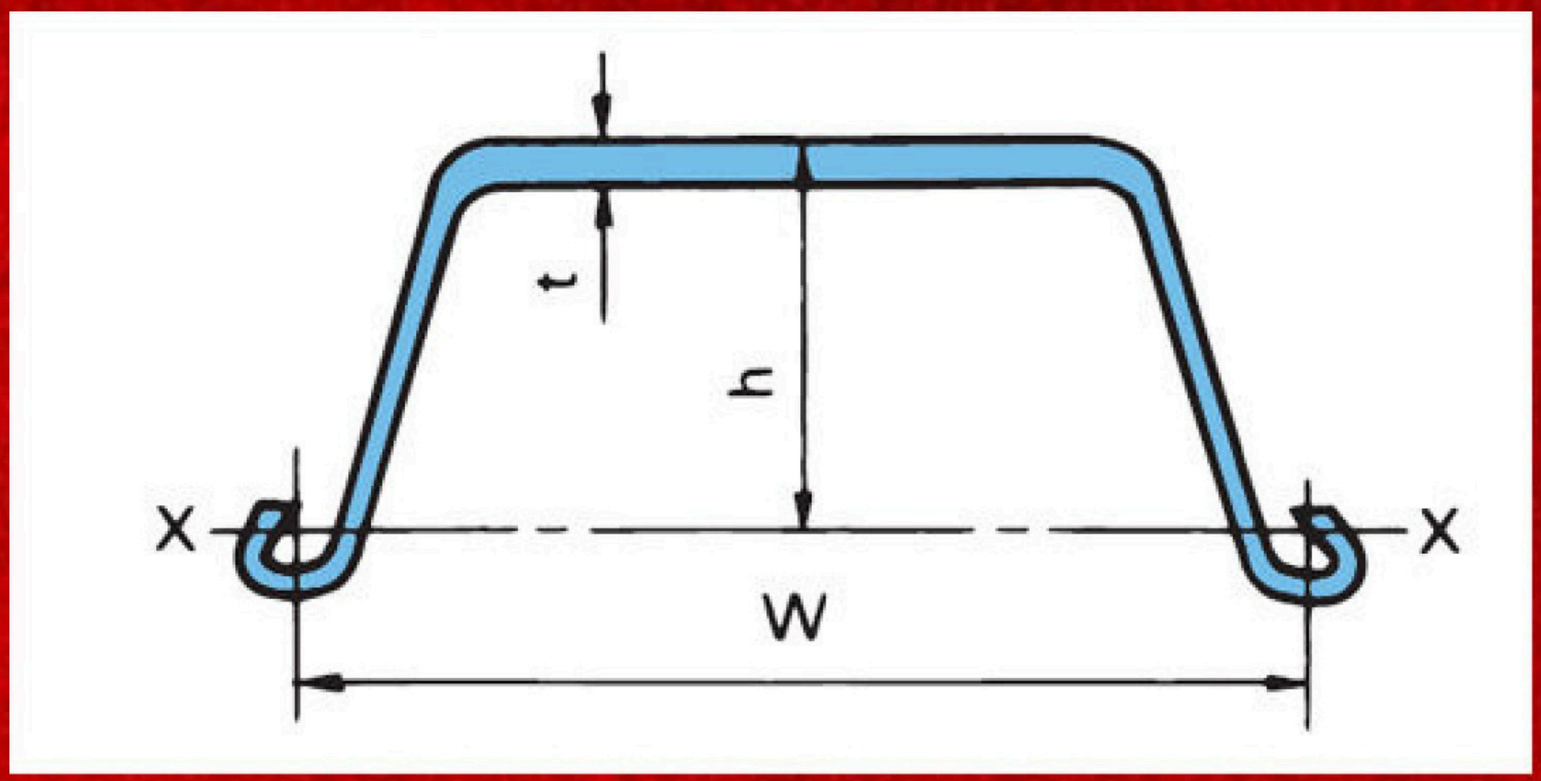


Type	Width	Hight	Thickness	Cross Section	Moment of Intertia	Section Modulus	Weight				
	mm	mm	mm	cm²	cm²	cm²	kg/m	cm/m	cm/m	cm/m	kg/m
SPU-I	400	85	8.0	45.21	598	88	35.5	113	4500	529	88.8
SPU-II	400	100	10.5	61.18	1240	152	48	153	8740	874	120
SPU-III	400	125	13.0	76.42	2220	223	60	191	16800	1340	150
SPU-	400	150	13.1	74.4	2790	250	58.4	186	22800	1520	146
SPU-	400	170	15.5	96.99	4870	362	76.1	242.5	38600	2270	190
SPU-	500	200	24.3	133.8	7960	520	105	267.6	63000	3150	210
SPU-	500	225	27.6	153	11400	680	120	306	86000	3820	240
SPU-	600	130	10.3	78.7	2110	203	61.8	131.2	13000	1000	103
SPU-	600	180	13.4	103.9	5220	376	81.6	173.2	32400	1800	136
SPU-	600	210	18.0	135.3	8630	539	106	225.5	56700	2700	177



Type	mm	mm	mm	cm²	cm'4	cm³	kg/m	cm²/m	cm'4/m	cm³/m	kg/m²
FSP-II	400	100	10.5	61.18	1,240	152	48.0	153.0	8,740	874	120
FSP-III	400	125	13.0	76.42	2,220	223	60.0	191.0	16,800	1,340	150
FSP-IV	400	170	15.5	96.99	4,670	362	76.1	242.5	38,600	2,270	190

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Works :
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