



HOT-ROLLED STEEL SHEET PILES

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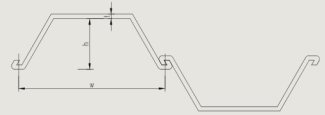


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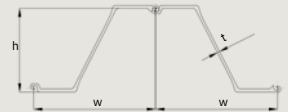
U Type Sheet Pile



Section Parameter

Dimension								
Section Designation	Width (mm) (w)	Height (mm) (h)	Thickness (mm) (t)	Per Pile Section Modulus (cm ³)	Unit Mass (kg/m)	Per Meter of Wall Moment Inertia (cm ⁴)	Section Modulus (cm ³)	Unit Mass (kg/m)
JIS-II	400	100	10.5	152	48.0	8,740	874	120.0
JIS-III	400	125	13.0	223	60.0	16,800	1,340	150.0
JIS-IV	400	170	15.5	362	76.1	38,600	2,270	190.0
JIS-IIIW	600	180	13.4	376	81.6	32,400	1,800	136.0
JIS-IVW	600	210	18.0	539	106.0	56,700	2,700	177.0
U22-600	600	412	14.0	466	86.9	45,441	2,206	144.8
U32-600	600	452	19.0	649	114.0	72,320	3,200	190.0
U25-750	750	450	14.6	602	110.4	56,301	2,502	147.2

Z Type Sheet Pile



Section Parameter

Dimension								
Section Designation	Width (mm) (w)	Height (mm) (h)	Thickness (mm) (t)	Per Pile Section Modulus (cm ³)	Unit Mass (kg/m)	Per Meter of Wall Moment Inertia (cm ⁴)	Section Modulus (cm ³)	Unit Mass (kg/m)
Z12-770	770	354	8.5	1,000	73.2	22,995	1,301	95
Z13-770	770	354	9	1,043	76.6	24,013	1,357	99.5
Z14-770	770	355	9.5	1,086	80.1	25,030	1,412	104
Z18-700	700	420	9	1,261	76.7	37,894	1,804	109.5
Z24-700	700	439	11	1,701	95.1	53,379	2,432	135.9
Z26-700	700	440	12	1,824	102.5	57,329	2,606	146.5
Z36-700	700	499	17	2,515	118.1	89,826	3,600	168.8
Z40-700	700	501	19	2,792	133.7	100,184	3,999	191

Disclaimers:

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Mechanical Properties

Classification	Mechanical Properties			
	Grade	Yield Point (N/mm ²)	Tensile Strength (N/mm ²)	Elongation (%)
JIS A 5528 (Hot-rolled steel sheet piles)	SY295	295 min	450 min	18 min
	SY390	390 min	490 min	16 min
EN10248 (Hot-rolled steel sheet piles)	S355J0C	355 min	480 min	22 min

Notes: : Mechanical Properties conform to JIS A5523:2012 or JIS A5528:2012
: Not shown by total in accordance with section 5, Note 2 of JIS A5523:2012

Tolerances of Shapes and Dimension

Item		JIS A 5528 (Hot-rolled steel sheet piles)	EN10248 (Hot-rolled steel sheet piles)
Total Width	400mm	+10mm, -5mm	±2%
	600mm		
	600mm		
Total Height		±4%	H>200mm : ±5.0mm
Thickness	10mm and over to 16mm excl.	±1.2mm	8.5mm : ±6%
	16mm and over	±1.5mm	
Length		+ Not specified, 0	± 200mm
Deflection	10m and under in length	Total length x 0.12% max.	Not specified
	Over 10m in length	(Total Length - 10m) x 0.10% max. + 12mm max.	
Camber	10m and under in length	Total length x 0.25% max.	Not specified
	Over 10m in length	(Total Length - 10m) x 0.20% max. + 25mm max.	
Difference in vertically cut sections		Within 4% width	Not specified
Difference in total width		Not specified	Not specified
Double pile width		Not specified	±3%
Straightness		Not specified	0,2% of the length
End out of square		Not specified	±2% of pile width

Notes: 1. Tolerance of shapes and dimension of JIS sheet piles are based on "Standard Specification for Steel Sheet Piles" prepared by the Committee of Technological Research on Sheet Piles, aimed at securing improved construction efficiency and specified product quality and dimensional accuracy by the users. (The tolerances shown above satisfy JIS A 5528:2012 or EN10248:2004, additionally specified item.)

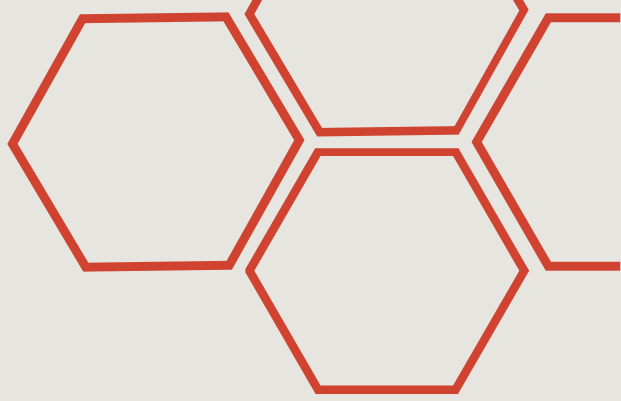
2. The deflection shall be in the direction parallel to the sheet pile wall, and camber shall be in the direction vertical to the sheet pile wall.

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- Combi Wall Sheet Piles
- Foundation Pipes
- H-Beams
- Walers
- Tie Rods
- Pipe Struts
- Coating
- Fabrication
- More.....

Our Services

For a quarter century, Oriental Sheet Piling has been a trusted local partner for construction professionals seeking reliable, high-quality steel sheet piling solutions. Beyond providing products, we emphasize innovation, sustainability, and customer satisfaction in everything we do, setting the standard for excellence in the industry. We are proud to offer these comprehensive services to our clients.

