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JIS STEEL SHEET PILE

U Type Sheet Pile

Sectional Parameters



Type	Dimension			Per Pile				Per 1m of Pile Wall Width			
	Effective Width mm	Effective Height mm	Thickness t mm	Sectional Area cm ²	Moment of Inertia cm ⁴	Section Modulus cm ³	Unit Mass kg/m	Sectional Area cm ² /m	Moment of Inertia cm ⁴ /m	Section Modulus cm ³ /m	Unit Mass kg/m ²
JIS-IA	400	85	8.0	45.21	598	88	35.5	113.0	4,500	529	88.8
JIS-II	400	100	10.5	61.18	1,240	152	48.0	153.0	8,740	874	120
JIS-III	400	125	13.0	76.42	2,220	223	60.0	191.0	16,800	1,340	150
JIS-IIIA	400	150	13.1	74.40	2,790	250	58.4	186.0	22,800	1,520	146
JIS-IV	400	170	15.5	96.99	4,670	362	76.1	242.5	38,600	2,270	190
JIS-IVA	400	185	16.1	94.21	5,300	400	74.0	235.1	41,600	2,250	185
JIS-VL	500	200	24.3	133.80	7,960	520	105.0	267.6	63,000	3,150	210
JIS-VIL	500	225	27.6	153.00	11,400	680	120.1	306.0	86,000	3,820	240
JIS-IIw	600	130	10.3	78.70	2,110	203	61.8	131.2	13,000	1,000	103
JIS-IIIw	600	180	13.4	103.90	5,220	376	81.6	173.2	32,400	1,800	136
JIS-IVw	600	210	18.0	135.30	8,630	539	106.0	225.5	56,700	2,700	177

Chemical Composition

Standard	Steel Grade	Chemical Composition (%) Max										
		C	Si	Mn	P	S	Nb	V	Ti	Cu	N	Free Nitrogen
JIS A 5523 (Hot-rolled steel sheet piles for welding)	SYW295	0.18	0.55	1.50	0.040	0.040	-	-	-	-	-	0.0060
	SYW390	0.18	0.55	1.50	0.040	0.040	-	-	-	-	-	0.0060
JIS A 5528 (Hot-rolled steel sheet piles)	SY295	-	-	-	0.040	0.040	-	-	-	0.250	-	-
	SY390	-	-	-	0.040	0.040	-	-	-	0.250	-	-

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Mechanical Properties

Classification	Grade	Mechanical Properties		
		Yield Point (N/mm ²)	Tensile Strength (N/mm ²)	Elongation (%)
JIS A 5523 (Hot-rolled steel sheet piles for welding)	SYW295	295 min	450 min	18 min
	SYW390	390 min	490 min	16 min
JIS A 5528 (Hot-rolled steel sheet piles)	SY295	295 min	450 min	18 min
	SY390	390 min	490 min	16 min

Note : Chemical Composition and Mechanical Properties conform to JIS A 5523:2012 or JIS A 5528:2012
: N is shown by total in accordance with section 5, Note 2 of JIS A 5523:2012

Tolerances of Shapes and Dimension

Items		JIS A 5523 (Hot-rolled steel sheet piles for welding)	JIS A 5528 (Hot-rolled steel sheet piles)
Total Width	400mm	± 4mm	+10mm, -5mm
	500mm	± 5mm	
	600mm	± 6mm, -5mm	
Total Height		±4%	±4%
Thickness	Under 10mm	±1.0mm, -0.3mm	±1.0mm
	10mm and over to 16mm excl.	±1.2mm, -0.3mm	±1.2mm
	16mm and over	±1.5mm, -0.3mm	±1.5mm
Length		+ Not specified, 0	+ Not specified, 0
Deflection	10m and under in length	Total length x 0.1% max. 20mm max.	Total length x 0.12% max.
	Over 10m in length		(Total length – 10m) x 0.10% max. + 12mm max.
Camber	10m and under in length	Total length x 0.2% max. 20mm max.	Total length x 0.25% max.
	Over 10m in length		(Total length – 10m) x 0.20% max. + 25mm max.
Difference in vertically cut sections		Within 4% of width	Within 4% of width
Difference in total width		4mm and under in difference between maximum and minimum total widths within 1m length from the edge	Not specified
Edge deflection		1.5mm max.	Not specified

Notes: 1. Tolerances of shapes and dimensions of JIS sheet piles are based on the "Standard Specifications for Steel Sheet Piles" prepared by the Committee on Technological Research on Sheet Piles. They are aimed at securing improved construction efficiency and specified product quality and dimensional accuracy by the users. (The tolerances shown above satisfy JIS A 5523:2012 or JIS A 5528:2012 and offer additionally specified items.)

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

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