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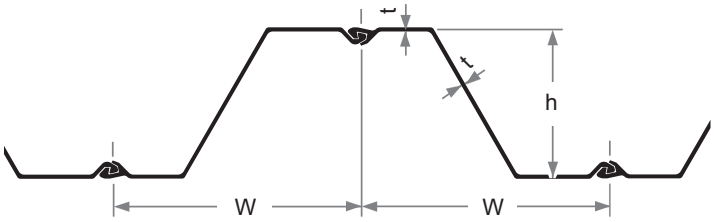
JD FIELDS CONSTRUCTION PRODUCTS

HOESCH FINGER & SOCKET Z SERIES

Steel Sheet Pile Sections > Hot Rolled Z Sections > Hoesch Z Sheet Pile Series



HOESCH FINGER & SOCKET Z SERIES

Section	Nominal Width	Wall Depth (Height)	Web Thickness	Flange Thickness	Per Single Section					Per Unit of Wall			
					Area	Weight	Moment of Inertia	Section Modulus	Nominal Coating Area	Area	Weight	Moment of Inertia	Section Modulus
	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	$Inch^2$ (cm^2)	Pounds/Feet (kg/m)	$Inch^4$ (cm^4)	$Inch^3$ (cm^3)	$Feet^2/Feet$ (m^2/m)	$Inch^2/Feet$ (cm^2/m)	$Pounds/Feet^2$ (kg/m^2)	$Inch^4/Feet$ (cm^4/m)	$Inch^3/Feet$ (cm^3/m)
HOESCH 1105	22.64 575	10.24 260	0.346 8.8	0.346 8.8	11.47 74	39.0 58.1	197.5 8223	38.1 628	5.05 1.54	6.07 128.7	20.6 101	104.7 14300	20.4 1100
HOESCH 1205	22.64 575	10.24 260	0.374 9.5	0.374 9.5	12.09 78	41.3 61.5	204.6 8520	39.8 655	5.05 1.54	6.40 135.7	21.9 107	108.5 14820	21.2 1140
HOESCH 1205K	22.64 575	10.24 260	0.402 10.2	0.402 10.2	12.77 82.4	43.5 64.7	215.4 8970	41.9 690	5.05 1.54	6.76 143.3	23.0 112.5	114.2 15600	22.3 1200
HOESCH 1255	22.64 575	10.24 260	0.425 10.8	0.425 10.8	13.39 86.4	45.6 67.9	224.3 9340	43.7 719	5.05 1.54	7.09 150.3	24.1 118	119.0 16250	23.2 1250

Limited through 2012, please check with your JD Fields representative for availability or alternate sections.

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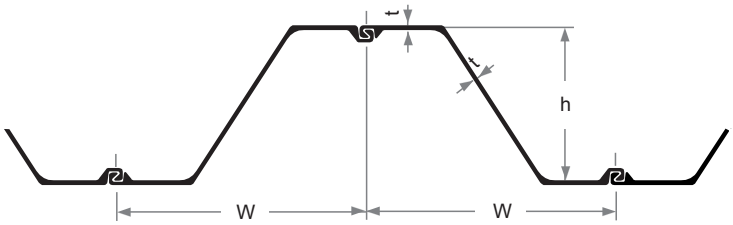
JD FIELDS CONSTRUCTION PRODUCTS

HOESCH LARSSEN Z SERIES

Steel Sheet Pile Sections > Hot Rolled Z Sections > Hoesch Z Sheet Pile Series



HOESCH LARSSEN Z SERIES

Section	Nominal Width	Wall Depth (Height)	Web Thickness	Flange Thickness	Per Single Section					Per Unit of Wall			
					Area	Weight	Moment of Inertia	Section Modulus	Nominal Coating Area	Area	Weight	Moment of Inertia	Section Modulus
	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	$Inch^2$ (cm^2)	Pounds/Feet (kg/m)	$Inch^4$ (cm^4)	$Inch^3$ (cm^3)	$Feet^2/Feet$ (m^2/m)	$Inch^2/Feet$ (cm^2/m)	$Pounds/Feet^2$ (kg/m^2)	$Inch^4/Feet$ (cm^4/m)	$Inch^3/Feet$ (cm^3/m)
1707	27.56 700	16.54 420	0.343 8.7	0.335 8.5	14.46 93.3	49.2 73.2	612.8 25505	74.10 1215	6.30 1.92	6.29 133.2	21.4 104.6	266.8 36435	32.3 1735
1807	27.56 700	16.54 420	0.362 9.2	0.354 9	15.11 97.5	51.4 76.5	635.7 26460	76.90 1260	6.30 1.92	6.58 139.2	22.4 109.3	276.8 37800	33.5 1800
1907	27.56 700	16.54 420	0.382 9.7	0.375 9.5	15.75 101.6	53.6 79.7	658.8 27420	79.70 1306	6.30 1.92	6.85 145.1	23.3 113.9	286.8 39165	34.7 1865
2007	27.56 700	16.54 420	0.406 10.3	0.398 10.1	16.49 106.4	56.2 83.6	685.9 28550	82.70 1355	6.30 1.92	7.19 152.3	24.5 119.4	298.7 40790	36.2 1945
2407	27.56 700	17.32 440	0.433 11	0.433 11	18.85 121.6	64.2 95.5	909.3 37850	104.90 1719	6.62 2.02	8.21 173.8	27.9 136.4	330.0 45070	45.8 2460
2507	27.56 700	17.32 440	0.453 11.5	0.453 11.5	19.55 126.1	66.5 99	934.3 38890	107.90 1768	6.62 2.02	8.51 180.1	29.0 141.4	406.8 55550	47.0 2525
2607	27.56 700	17.32 440	0.472 12	0.472 12	20.21 130.4	68.7 102.3	962.0 40040	111.10 1820	6.62 2.02	8.80 186.2	29.9 146.2	418.9 57200	48.4 2600
2707	27.56 700	17.32 440	0.500 12.7	0.500 12.7	21.14 136.4	72.0 107.1	1000.9 41660	115.60 1894	6.62 2.02	9.21 194.9	31.3 153	435.9 59520	50.3 2705
2807	27.56 700	17.32 440	0.516 13.1	0.516 13.1	21.65 139.7	73.7 109.7	1023.0 42580	118.10 1936	6.62 2.02	9.43 199.6	32.1 156.7	445.4 60830	51.4 2765
3607	27.56 700	19.69 500	0.661 16.8	0.425 10.8	23.16 149.4	78.8 117.2	1513.8 63010	153.60 2517	6.89 2.1	10.08 213.4	34.3 167.5	659.1 90000	67.0 3600
3807	27.56 700	19.69 500	0.709 18	0.472 12	24.85 160.3	84.6 125.9	1597.7 66500	162.30 2660	6.89 2.1	10.82 229	36.8 179.8	695.7 95000	70.7 3800
3907	27.56 700	19.69 500	0.736 18.7	0.500 12.7	25.81 166.5	87.8 130.7	1650.8 68710	167.40 2743	6.89 2.1	11.24 237.9	38.3 186.8	718.6 98125	73.0 3925
4007	27.56 700	19.69 500	0.748 19	0.512 13	30.43 196.3	89.3 132.9	1668.5 69450	169.50 2778	6.89 2.1	11.42 241.8	38.9 189.8	728.6 99500	74.0 3980

* Some sections are in testing/development and will not be commercially available until later in 2012. Please check with your JD Fields Representative to verify section availability.

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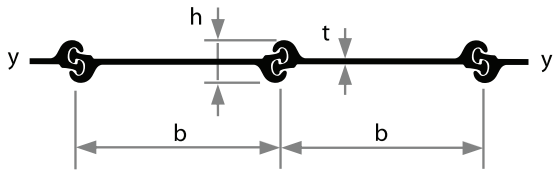
JD FIELDS CONSTRUCTION PRODUCTS

SHEET PILE

Steel Sheet Pile Sections > Hot Rolled Flat Sections > Union Straight Web



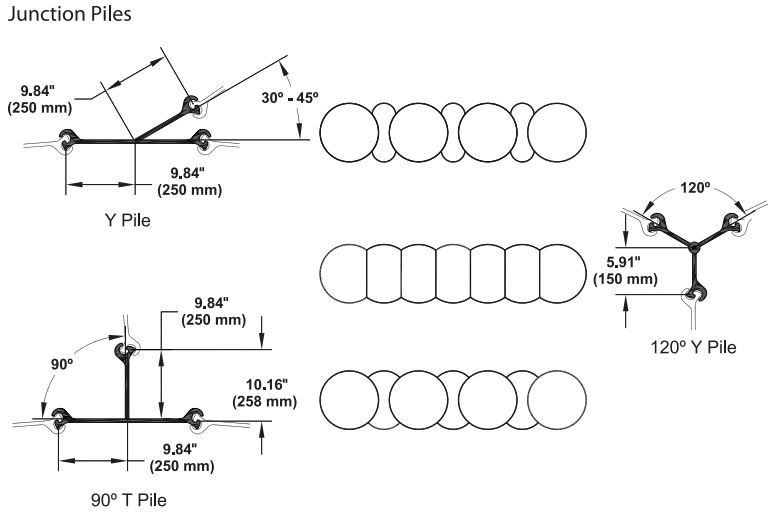
UNION STRAIGHT WEB SECTIONS

	Section Modulus		Weight		Second Moment of Inertia	Section Width	Wall Height	Thickness
	Wall	Single Pile	Wall	Single Pile	Wall			
	W_y				I_y	b	h	t
	in^3/ft (cm^3/m)	$Inch^3$ (cm^3)	lb/ft^2 (kg/m^2)	lb/ft (kg/m)	in^4/ft (cm^4/m)	Inch (mm)	Inch (mm)	Inch (mm)
FL 510	1.68 90	2.7 45	26.46 129.2	43.41 64.6	2.56 350	19.69 500	3.46 88	0.39 10
FL 511	1.68 90	2.7 45	27.77 135.6	45.56 67.8	2.56 350	19.69 500	3.46 88	0.43 11
FL 512	1.68 90	2.7 45	29.10 142.1	47.78 71.1	2.64 360	19.69 500	3.46 88	0.47 12
FL 512.7[1]	1.71 92	2.8 46	30.06 146.8	49.32 73.4	2.64 360	19.69 500	3.46 88	0.50 12.7

1 Rolling/delivery on request only.

Lengths from 30 m to 36 m on request.
Sections with other wall thicknesses can also be supplied.
The basis for billing is the weight of the single pile (kg/m).

Junction Piles



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JD FIELDS CONSTRUCTION PRODUCTS

HOESCH SHEET PILE SERIES ASTM TABLE

Steel Sheet Pile Sections > Hot Rolled Sections

STEEL GRADES

The steel grades used for our hot-rolled sheet piling comply with DIN EN 10248-1. Steels complying with DIN EN 10025 (structural steels), DIN EN 10155 (weathering steels) or other standard specifications can also be supplied on request.

Higher-strength weldable sheet piling steels with a minimum yield point of up to 500 kN/mm^2 can be supplied according to works standards.

STEEL GRADES EMPLOYED FOR STEEL PILING IN ACCORDANCE WITH DIN EN 10248-1

Steel grade	Minimum yield point	Tensile strength	Minimum elongation
	MPa	MPa	%
S240GP	240	340	26
S270GP	270	410	24
S320GP	320	440	23
S355GP	355	480	22
S390GP	390	490	20
S430GP	430	510	19

For the higher-strength sheet piling steels S 390 GP and S 430 GP, an approval certificate (Z-30. 1-7) from the building supervisory authorities dated February 01, 2010 is available.

Higher-strength weldable sheet piling steels according to works standards

StSp460	460	550	17
StSp500	500	590	16

Sheet pile steel grades according to ASTM

A 328	270	450	20
A 572 Grade 50	345	485	21
A 572 Grade 60	415	520	18
A 690	345	485	21

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JD FIELDS CONSTRUCTION PRODUCTS

HOESCH SHEET PILE SERIES ASTM TABLE

Steel Sheet Pile Sections > Hot Rolled Sections

TERMS OF DELIVERY

Deviation limits and dimensional tolerances for cold-roll formed sheet piles made of unalloyed steels conforming to DIN EN 10249-2.

	Single Piles	Double Piles	Triple Piles
Pile width	± 2%	± 3%	± 3%
Wall thicknesses of U sections	t: up to 8.5 mm = ± 0.5 mm; over 8.5 mm = ± 6% t s: u p to 8.5 mm = – 0.5 mm; over 8.5 mm = – 6% s[1)]		
Wall thicknesses of Z sections and straight-web sections	t, s: up to 8.5 mm = ± 0.5 mm; over 8.5 mm = ± 6% s, t		
Height of U sections	h: up to 200 mm = ± 4 mm; over 200 mm = ± 5 mm		
Height of Z sections	h: up to 200 mm = ± 5 mm; von 200 up to 300 mm = ± 6 mm; over 300 mm = ± 7 mm		

Deviation from straightness

The longitudinal deviation from straightness must not exceed 0.2% of pile length.

Pile length

Sheet pile lengths are permitted to deviate by ± 200 mm from the ordered lengths.

Cut

Cut at right angles to the longitudinal axis. The total deviation between the highest and lowest points in the cutting plane, measured on a single pile along the longitudinal axis, must not exceed 2% of pile width.

Weight

The tolerance between the arithmetic weight (according to section tables) and weighed weight of the total consignment must be within ± 5%.

Section interlocks

The interlocks shall have adequate free play so that the piles can be fitted into each other and they must engage in such a manner that the in-service forces can be transmitted. The minimum interlock overlap on U and Z piles must not be less than 4 mm and on straight-web sections not less than 7 mm.