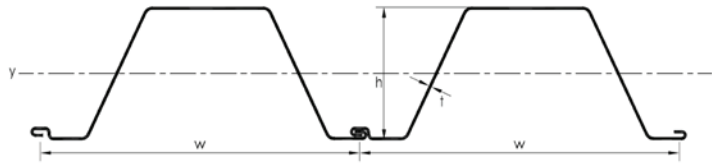


ESC-CRW SERIES



Interlocking Clutch



SECTION	WIDTH	HEIGHT	THICKNESS	CROSS SECTIONAL AREA	WEIGHT		ELASTIC SECTION MODULUS	MOMENT OF INERTIA	COATING AREA <small>*(both side per pile)</small>
	(w) in mm	(h) in mm	(t) in mm	in ² /ft cm ² /m	Per Pile lb/ft kg/m	Per Wall lb/ft ² kg/m ²	in ³ /ft cm ³ /m	in ⁴ /ft cm ⁴ /m	ft ² /ft m ² /m
ESC-CRW3A	27.56 700	5.75 146	0.16 4	2.64 56	20.7 30.8	9.01 44	4.93 265	14.2 1,945	6.46 1.97
ESC-CRW3B	27.56 700	5.79 147	0.2 5	3.32 70.3	25.94 38.6	11.3 55.2	6.1 328	17.64 2,417	6.5 1.98
ESC-CRW4A	27.56 700	5.83 148	0.24 6	3.97 84.1	31.05 46.2	13.52 66	7.29 392	21.24 2,910	6.46 1.97
ESC-CRW4B	27.56 700	5.87 149	0.28 7	4.57 96.8	35.75 53.2	15.56 76	8.31 447	24.71 3,385	6.4 1.95
ESC-CRW5A	27.56 700	5.91 150	0.31 8	5.29 112	41.4 61.6	18.02 88	9.45 508	28.27 3,872	6.5 1.98
ESC-CRW6	23.62 600	9.88 251	0.20 5.2	4.27 90.4	28.61 42.58	14.54 70.97	12.63 679	63.84 8,718	11.45 3.49
ESC-CRW7	61.42 1,560	13.39 340	0.24 6	3.63 76.9	63.3 94.2	12.37 60.4	13.76 740	97.82 13,400	13.32 4.06
ESC-CRW9	55.91 1,420	16.02 407	0.24 6	3.99 84.5	63.3 94.2	13.58 66.3	18.23 980	157.24 21,540	13.29 4.05
ESC-CRW10	53.15 1,350	17.72 450	0.2 5	3.49 74	52.75 78.5	11.9 58.1	18.04 970	167.61 22,960	13.29 4.05
ESC-CRW11	52.36 1,330	17.72 450	0.24 6	4.26 90.2	63.3 94.2	14.5 70.8	19.72 1,060	198.12 27,140	13.25 4.04
ESC-CRW12A	50 1,270	17.72 450	0.24 6	4.46 94.5	63.3 94.2	15.2 74.2	23.25 1,250	219 30,000	13.29 4.05
ESC-CRW12B	56.3 1,430	15.39 391	0.33 8.5	5.61 118.9	89.71 133.5	19.11 93.3	23.44 1,260	200.02 27,400	13.29 4.05
ESC-CRW13	46.65 1,185	19.69 500	0.26 6.5	5.18 109.7	68.61 102.1	17.63 86.1	25.85 1,390	218.34 29,910	13.29 4.05
ESC-CRW14A	47.05 1,195	18.94 481	0.28 7	5.53 117.2	73.85 109.9	18.84 92	27.16 1,460	294.99 40,410	13.29 4.05
ESC-CRW14B	55.12 1,400	14.84 377	0.37 9.5	6.41 135.7	100.26 149.2	21.81 106.5	26.41 1,420	219.8 30,110	13.29 4.05
ESC-CRW15	50.39 1,280	17.72 450	0.31 8	5.9 125	84.4 125.6	20.09 98.1	27.9 1,500	277.11 37,960	13.25 4.04
ESC-CRW16A	44.49 1,130	19.69 500	0.28 7	5.85 123.9	73.85 109.9	19.91 97.2	29.39 1,580	335.14 45,910	13.29 4.05
ESC-CRW17	51.97 1,320	17.72 450	0.35 9	6.43 136.3	94.95 141.3	21.91 107	31.99 1,720	303.75 41,610	13.29 4.05
ESC-CRW118	49.02 1,245	19.33 491	0.31 8	5.92 125.5	82.4 122.62	20.17 98.5	32.74 1,760	399.12 54,674	12.86 3.92
ESC-CRW19	49.02 1,245	19.33 491	0.33 8.5	6.32 133.8	87.87 130.76	21.5 105	34.97 1,880	425.77 58,325	12.93 3.94

*excludes internal section of interlock

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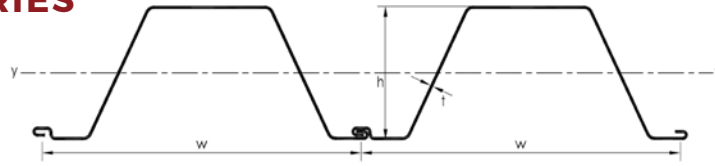
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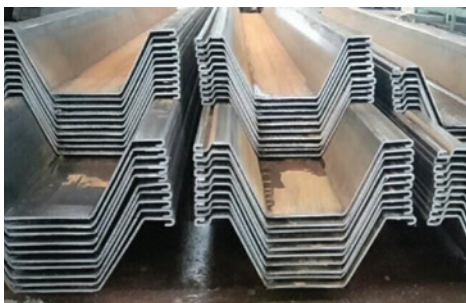


Interlocking Clutch



SECTION	WIDTH	HEIGHT	THICKNESS	CROSS SECTIONAL AREA	WEIGHT		ELASTIC SECTION MODULUS	MOMENT OF INERTIA	COATING AREA
	(w)	(h)	(t)		Per Pile	Per Wall			*(both side per pile)
	in	in	in	in ² /ft	lb/ft	lb/ft ²	in ³ /ft	in ⁴ /ft	ft ² /ft
	mm	mm	mm	cm ² /m	kg/m	kg/m ²	cm ³ /m	cm ⁴ /m	m ² /m
ESC-CRW20	49.02 1,245	19.37 492	0.35 9	6.71 142.2	93.37 138.95	22.86 111.6	37.2 2,000	452.57 61,996	12.96 3.95
ESC-CRW21	49.02 1,245	19.37 492	0.37 9.5	7.11 150.6	98.91 147.19	24.21 118.2	39.43 2,120	479.52 65,687	13.02 3.97
ESC-CRW22	49.02 1,245	19.41 493	0.39 10	7.51 159.1	104.49 155.49	25.58 124.9	41.85 2,250	506.6 69,397	13.06 3.98
ESC-CRW24	49.21 1,250	19.41 493	0.41 10.5	7.88 167	110.1 163.84	26.85 131.1	43.9 2,360	533.81 73,125	13.12 4
ESC-CRW25	49.21 1,250	19.45 494	0.43 11	8.28 175.5	115.75 172.25	28.22 137.8	46.31 2,490	561.16 76,871	13.16 4.01
ESC-CRW26	49.21 1,250	19.45 494	0.45 11.5	8.69 184.2	121.44 180.72	29.61 144.6	48.55 2,610	588.61 80,632	13.22 4.03
ESC-CRW27	49.21 1,250	19.49 495	0.47 12	9.1 192.9	127.17 189.24	31.01 151.4	50.59 2,720	616.19 84,409	13.25 4.04
ESC-CRW28	49.41 1,255	19.49 495	0.49 12.5	9.48 200.8	132.93 197.81	32.28 157.6	52.45 2,820	643.86 88,200	13.32 4.06
ESC-CRW29	49.41 1,255	19.53 496	0.51 13	9.89 209.5	138.73 206.44	33.69 164.5	54.68 2,940	671.64 92,005	13.35 4.07
ESC-CRW30	49.41 1,255	19.53 496	0.53 13.5	10.31 218.4	144.57 215.13	35.1 171.4	56.73 3,050	699.5 95,822	13.42 4.09
ESC-CRW31	49.41 1,255	19.57 497	0.55 14	10.72 227.2	150.44 223.87	36.54 178.4	58.78 3,160	727.46 99,652	13.45 4.1
ESC-CRW32	49.61 1,260	19.57 497	0.57 14.5	11.1 235.2	156.35 232.66	37.83 184.7	60.64 3,260	755.51 103,494	13.52 4.12
ESC-CRW34	49.61 1,260	19.61 498	0.59 15	11.53 244.2	162.29 241.51	39.26 191.7	62.68 3,370	783.63 107,346	13.55 4.13
ESC-CRW35	49.61 1,260	19.61 498	0.611 15.5	39.25 253.2	168.3 250.42	40.7 198.7	65 3,480	812 111,208	13.62 4.15
ESC-CRW36	49.61 1,260	19.65 499	0.63 16	12.38 262.2	174.3 259.38	42.17 205.9	66.77 3,590	840.08 115,079	13.65 4.16

*excludes internal section of interlock



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STEEL GRADES & MANUFACTURING TOLERANCES

COLD ROLLED & COLD FORMED SHEET PILES

MANUFACTURING TOLERANCES

COMPONENT	BS EN1024-9	ASTM A6	NOMINAL THICKNESS	TOLERANCE
Mass	± 5%	±2.5%	0.197" / 5mm	± 0.0114" / 0.29mm
Length	± 2.0" / 50mm	+ 5.0" / 127mm	0.236" / 6mm	± 0.0122" / 0.31mm
Height (≤ 7.87" / 200mm)	± 0.157" / 4.0mm		0.315" / 8mm	± 0.0138" / 0.35mm
Height (> 7.87" / 200mm & ≤ 11.8" / 300mm)	± 0.236" / 6.0mm		0.354" / 9mm	± 0.0157" / 0.40mm
Height (> 11.8" / 300mm & ≤ 15.8" / 400mm)	± 0.315" / 8.0mm		0.393" / 10mm	± 0.0157" / 0.40mm
Height (> 15.8" / 400mm)	± 0.394" / 10.0mm		0.472" / 12mm	± 0.0169" / 0.43mm
Width of Single Pile	± 2% of width		0.512" / 13mm	± 0.0181" / 0.46mm
Width of Double Z or Wide U	± 3% of width		0.591" / 15mm	± 0.0181" / 0.46mm
Squareness of Ends	2% of width		N/A	
Straightness	±0.2% of the length			
Squareness of Ends	± 2% of the width			



SHEET PILE MARKING

ESC is able to apply adhesive stickers to its products to provide useful information such as destination, order number, project identifier, client name and others. To enable good traceability, material heat number & pile specification is included as standard.



STEEL GRADES

CLASSIFICATION		MECHANICAL PROPERTIES					CHEMICAL COMPOSITION % (MAX)					
		MINIMUM YIELD STRENGTH		ULTIMATE TENSILE STRENGTH		MINIMUM ELONGATION	IMPACT STRENGTH (CHARPY)	C	Si	Mn	P	S
		ksi	MPa	ksi	MPa	%						
ASTM A36-14	A36	36	250	58-80	400-550	23	-	0.26	0.40	-	0.040	0.050
ASTM A572-2013a	A572 Gr.42	42	290	≥ 60	≥415	20	-	0.21	0.40	1.35	0.040	0.050
	A572 Gr.50	50	345	≥ 65	≥450	18	-	0.23	0.40	1.30	0.040	0.050
	A572 Gr.55	55	380	≥ 60	≥485	17	-	0.25	0.40	1.35	0.030	0.030
	A572 Gr.60	60	413	≥ 75	≥517	16	-	0.26	0.40	1.35	0.040	0.050
	A572 Gr.65	65	450	≥ 80	≥550	15	-	0.23	0.40	1.35	0.030	0.030
ASTM A588	A588 Gr.50A	50	345	≥ 70	≥485	18	-	0.19	0.30-0.65	0.80-1.25	0.040	0.050
	A588 Gr.50B	50	345	≥ 70	≥485	18	-	0.20	0.15-0.50	0.75-1.35	0.040	0.050
ASTM A690	A690 Gr.50	50	345	≥ 70	>485	21	-	0.22	0.40	0.60-0.90	0.08-.015	0.040
ASTM A871	A871 Gr.60 Type I	60	415	≥ 75	>520	16	15ft-lb [20J] @ 0°F [-18°C] for t≤0.5" [12mm] 15ft-lb [20J] @ -20°F [-29°C] for t>0.5" [12mm]	0.19	0.30-0.65	0.8-1.35	0.030	0.030
	A871 Gr.60 Type II	60	415	≥ 75	>520	16		0.20	0.15-0.50	0.75-1.35	0.030	0.030
	A871 Gr.60 Type IV	60	415	≥ 75	>520	16		0.17	0.25-0.50	0.50-1.20	0.030	0.030
	A871 Gr.65 Type I	65	450	≥ 80	>550	15	15ft-lb [20J] @ 0°F [-18°C] for t≤0.5" [12mm] 15ft-lb [20J] @ -20°F [-29°C] for t>0.5" [12mm]	0.19	0.30-0.65	0.80-1.35	0.030	0.030
	A871 Gr.65 Type II	65	450	≥ 80	>550	15		0.20	0.15-0.50	0.75-1.35	0.030	0.030
	A871 Gr.65 Type IV	65	450	≥ 80	>550	15		0.17	0.25-0.50	0.50-1.20	0.030	0.030
ASTM A1018	A1018 Gr.50 Class1	50	340	≥ 65	>450	16	-	0.23	-	1.50	0.040	0.040
	A1018 Gr.50 Class2	50	340	≥ 60	>410	16	-	0.15	-	1.50	0.040	0.040
	A1018 Gr.60 Class1	60	410	≥ 75	>520	14	-	0.26	-	1.50	0.040	0.040
	A1018 Gr.60 Class2	60	410	≥ 70	>480	14	-	0.15	-	1.50	0.040	0.040
	A1018 Gr.70 Class1	70	480	≥ 85	>590	10	-	0.26	-	1.65	0.040	0.040
	A1018 Gr.70 Class2	70	480	≥ 80	>550	10	-	0.15	-	1.65	0.040	0.040
	A1018 Gr.80	80	550	≥ 90	>620	10	-	0.15	-	1.65	0.025	0.035

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