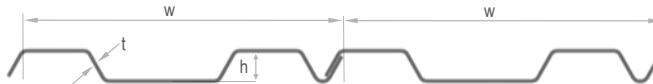


ESC TRENCH & ESC-LSB SERIES

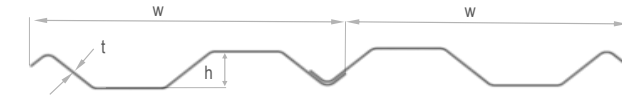
TRENCH SHEETS

ESC T-SERIES

ESC-T35, T40, T60



ESC-T80



Section	Width	Height	Thickness	Weight		Section Modulus	
	(w)	(h)	(t)	Per Pile	Per Wall	Section	Wall
	mm	mm	mm	kg/m	kg/m ²	cm ³	cm ³ /m
ESC-T35-3.5	330	35	3.5	10.99	33.30	14.95	45.29
ESC-T35-3.7	330	35	3.7	11.62	35.21	15.70	47.59
ESC-T35-4.0	330	35	4.0	12.56	38.06	16.85	51.07
ESC-T35-5.0	330	36	5.0	15.70	47.58	20.63	62.50
ESC-T35-6.0	330	37	6.0	18.84	57.09	23.73	71.91
ESC-T40-3.5	400	43	3.5	13.74	34.34	21.98	54.94
ESC-T40-3.7	400	43	3.7	14.52	36.31	23.14	57.86
ESC-T40-4.0	400	43	4.0	15.70	39.25	24.85	62.14
ESC-T40-5.0	400	44	5.0	19.63	49.06	30.41	76.03
ESC-T40-6.0	400	45	6.0	23.55	58.88	35.77	89.42
ESC-T60-6.0	600	66	6.0	35.33	58.88	84.24	140.40
ESC-T60-8.0	600	68	8.0	47.10	78.50	108.59	180.99
ESC-T80-4.0	800	120	4.0	31.40	39.25	123.57	154.47
ESC-T80-6.0	800	122	6.0	47.10	58.88	179.30	224.13
ESC-T80-8.0	800	124	8.0	62.80	78.50	236.72	295.90

ESC Trench & ESC-LSB sheet products offer a highly efficient retention system for shallow excavations. ESC trench sheet can be used to support earth banks for the safety of construction workers, and are ideal for reinforcement of waterway banks and services trenches. The strength, speed and flexibility of light trench sheets makes it ideal for all forms of temporary and permanent works. The trench piles also offer good durability and ease of installation and extraction allows sustainable construction.

ORDER OPTIONS

Steel Grades

- ✓ Q235B, Q345B
- ✓ S235, S275JR, S355JR
- ✓ ASTM A572 Gr42, Gr50
- ✓ Others available on request

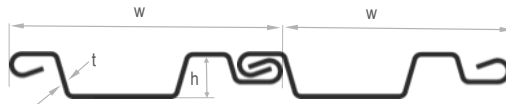
Length

12.0m maximum
Any project specific length can be produced

Delivery Options

- ✓ Lifting Hole
- ✓ By container or Break Bulk

ESC LSB-SERIES



Section	Width	Height	Thickness	Cross Sectional Area	Weight		Elastic Section Modulus	Moment of Inertia
	(w)	(h)	(t)		Per Pile	Per Wall		
	mm	mm	mm	cm ² /m	kg/m	kg/m ²	cm ³ /m	cm ⁴ /m
ESC-LSB-600-6-74	315	66	6	114.4	28.26	89.8	170	533
ESC-LSB-600-6-62	340	64	6	106.1	28.26	83.3	150	508
ESC-LSB-600-6-50	366	59	6	98.6	28.26	77.4	130	458
ESC-LSB-750-6-74	407	104	6	110.4	35.33	86.7	310	1,252
ESC-LSB-750-6-62	448	98	6	100.3	35.33	78.7	250	1,139
ESC-LSB-750-6-50	488	89	6	92.1	35.33	72.3	200	978
ESC-LSB-900-6-74	506	138	6	106.6	42.39	83.7	430	2,189
ESC-LSB-900-6-62	560	130	6	96.4	42.39	75.7	360	1,991
ESC-LSB-900-6-50	617	112	6	87.5	42.39	68.7	270	1,667

ESC TRENCH PILE INSTALLATION VIDEO

Scan the QR Code below:



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STEEL GRADES & MANUFACTURING TOLERANCES

COLD ROLLED & COLD FORMED SHEET PILES

STEEL GRADES

Classification		Mechanical Properties				Chemical Composition % (max)					
		Minimum Yield Point MPa		Ultimate Tensile Strength MPa	Elongation % (min) 3≤t≤40	Impact Strength (Charpy)	C	Si	Mn	P	S
		t≤16	16<t≤40								
BS EN 10025-2: 2004	S275JR	275	265	410-560	23	27J at 20°C	0.21	-	1.50	0.035	0.035
	S275J2	275	265	410-560	21	27J at -20°C	0.18	-	1.50	0.025	0.025
	S355JR	355	345	470-630	22	27J at 20°C	0.24	0.55	1.60	0.035	0.035
BS EN 102481: 1998	S390GP	390	390	≥ 490	20	-	0.24	0.55	1.60	0.04	0.040
	S430GP	430	430	≥510	19	-	0.24	0.55	1.60	0.04	0.040
GB/T 700:2006	Q235B	235	225	375-500	26	27J at 20°C	0.20	0.35	1.40	0.045	0.045
	Q275B	275	265	410-540	22	27J at 20°C	0.21	0.35	1.50	0.045	0.045
GB/T1591:2008	Q345B	345	335	470-630	20	34J at 20°C	0.20	0.50	1.70	0.035	0.035
	Q390B	390	370	490-650	20	34J at 20°C	0.20	0.50	1.70	0.030	0.030
	Q420B	420	400	540-680	19	34J at 20°C	0.20	0.50	1.70	0.030	0.030
	MDB350	350	350	470-630	21	40J at 20°C	0.20	0.50	1.50	0.025	0.020
ASTMA36-14	A36	250	250	400-550	23	-	0.26	0.40	-	0.040	0.050
ASTM A572-2013a	A572 Gr.42	290	290	≥415	20	-	0.21	0.40	1.35	0.040	0.050
	A572 Gr.50	345	345	≥450	18	-	0.23	0.40	1.30	0.040	0.050
	A572 Gr.60	413	413	≥517	16	-	0.26	0.40	1.35	0.040	0.050
ASTM A690-2013a	A690	345	345	>485	21	-	0.22	0.40	0.60-0.90	0.08-.015	0.040
JIS G3101-2010	SS400	245	235	400-510	17 (5<t<16), 21 (t<5 or t>16)	-	-	-	-	0.050	0.050
	SS490	285	275	490-610	15 (5<t<16), 19 (t<5 or t>16)	-	-	-	-	0.050	0.050
	SS540	400	330	≥540	13 (5<t<16), 16 (t<5 or t>16)	-	0.30	-	1.60	0.040	0.040
JIS A5523-2012	SYW295	295	295	≥490	17	43J at 0°C	0.18	0.55	1.50	0.040	0.040
	SYW390	390	390	≥ 540	15	43J at 0°C	0.18	0.55	1.50	0.040	0.040
MS 2025-1:2006	S235JR	235	225	360-510	26	-	0.17	-	1.40	0.035	0.035
	S275JR	275	265	410-560	23	-	0.21	-	1.50	0.035	0.035
	S355JO	355	345	470-630	22	-	0.20	0.55	1.60	0.030	0.030

MANUFACTURING TOLERANCES TO BS EN 10249

Component	Tolerance	Nominal Thickness	Tolerance
Mass	± 5%		
Length	± 50mm		
Height (≤ 200mm)	± 4.0mm	5mm	± 0.29mm
Height (> 200mm & ≤ 300mm)	± 6.0mm	6mm	± 0.31mm
Height (> 300mm & ≤ 400mm)	± 8.0mm	8mm	± 0.35mm
Height (> 400mm)	± 10.0mm	9mm	± 0.40mm
Width of Single Pile	± 2% of width	10mm	± 0.40mm
Width of Double Z or Wide U	± 3% of width	12mm	± 0.43mm
Squareness of Ends	2% of width	13mm	± 0.46mm
		15mm	± 0.46mm

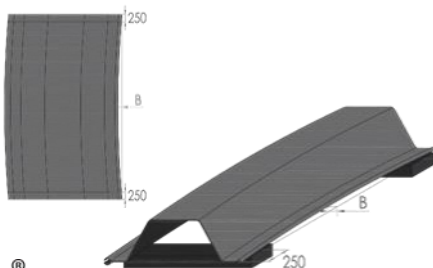
SHEET PILE MARKING

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.

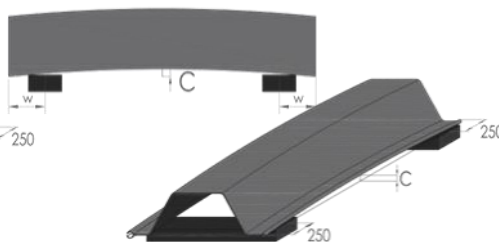


Bending B

±0.2% of the length



Curving C



Twisting T

±0.2% of the length but no more than 100mm

