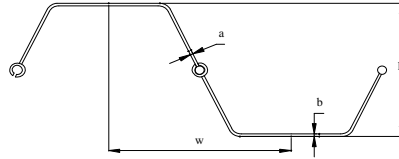


ESC U SERIES SHEET PILES



ESC Sheet Pile Type	Unit Width w	Dimensions			Sectional Area Per wall Length	Unit Weight Per wall Width	Coating Area Both Sides Per wall Width	Moment of Inertia Per wall Width	Modulus of Section Per wall Width
	(m)	a	b	h					
ESC5U-400	0.40	6.0	6.0	230.0	92.0	72.2	2.948	5,690	529
ESC9U-400	0.40	6.0	6.0	324.0	106.3	83.4	3.427	14,270	880
ESC12U-400	0.40	6.0	6.0	426.0	120.1	94.3	3.884	26,300	1,250
ESC15U-400	0.40	8.0	8.0	380.0	157.6	123.7	3.838	29,140	1,520
ESC22U-400	0.40	10.0	10.0	428.0	201.4	158.1	4.088	46,860	2,250
ESC6U-500	0.50	6.0	6.0	274.0	89.3	70.1	2.851	9,040	665
ESC8U-500	0.50	8.0	8.0	242.0	110.4	86.7	2.807	9,380	800
ESC10U-500	0.50	8.0	8.0	288.0	116.4	91.4	2.975	14,020	1,000
ESC12U-500	0.50	6.0	6.0	496.0	108.1	84.9	3.507	30,680	1,250
ESC15U-500	0.50	8.0	8.0	402.0	141.5	111.1	3.450	29,830	1,518
ESC18U-500	0.50	8.0	8.0	464.0	148.3	116.4	3.622	3,821	1,751
ESC20U-500	0.50	9.0	9.0	456.0	164.6	129.2	3.642	3,821	1,996
ESC22U-500	0.50	10.0	10.0	464.0	180.6	141.8	3.666	51,030	2,250
ESC32U-500	0.50	12.0	12.0	500.0	231.4	181.6	3.955	76,880	3,150
ESC38U-500	0.50	12.0	12.0	596.0	249.9	196.1	4.209	111,612	3,821
ESC12U-600	0.60	8.0	8.0	380.0	115.4	90.6	2.916	22,570	1,215
ESC14U-600	0.60	8.0	8.0	425.0	120.3	94.4	3.042	29,220	1,400
ESC16U-600	0.60	9.0	9.0	419.0	142.7	112.0	3.145	33,820	1,650
ESC18U-600	0.60	9.0	9.0	454.0	146.0	114.6	2.376	40,020	1,800
ESC20U-600	0.60	9.0	9.0	492.0	151.9	119.2	3.348	48,270	2,000
ESC22U-600	0.60	9.0	9.0	558.0	158.2	124.2	3.492	61,870	2,250
ESC25U-600	0.60	10.0	10.0	560.0	173.4	136.1	3.492	68,740	2,500
ESC32U-600	0.60	12.0	12.0	604.0	213.6	167.7	3.632	94,520	3,200
ESC22U-750	0.75	10.0	10.0	552.0	151.9	119.3	3.060	60,750	2,250
ESC25U-750	0.75	10.0	10.0	600.0	157.0	123.2	3.167	73,590	2,500
ESC32U-750	0.75	12.0	12.0	588.0	193.4	151.8	3.285	92,290	3,200
ESC38U-750	0.75	12.0	12.0	710.0	205.4	161.2	3.493	132,519	3,801
ESC45U-750	0.75	15.0	15.0	672.0	246.2	193.3	3.421	147,771	4,501

Description:

'U' shape fully interlocking light gauge wide profile sheet pile, fitted with angle clutch mechanism. Nominal width 400mm to 750mm.

Characteristics:

High strength Sheet Pile, suitable for all types of earth pressures.

Clutch mechanism provides effective cutoff in most soils.

Suited for installation into all soil types, from very soft clay to dense and hard soils.

Suitable for permanent and temporary works and high reuse situations. Obviously, the thickness of the core steel plate and soil conditions combined with the strength required will naturally determine selection.

Recommended Applications:

Drains/Canals

All Embankments

Coffer Dams

All Excavations, particularly basements

Temporary and permanent marine works

Driving Characteristics

Item	Parameter	Value
1	Optimal Soil Type	Soft-Hard
2	Maximum Driving Length	All piles can be driven to more than 12 metres. Generally piles that are more than 1400 section modulus can be driven upward of 24 metres.
3	Maximum internal corner angle*+	3 degrees
4	Maximum external corner angle*+	3 degrees

Notes:

* Angle refers to deviation off straight driving line

*+ If required angle exceeds allowance, a corner pile should be used

1 Classification according to ENV1993.5. Class 1 & 2 depending on steel grade. A set of tables with all the data required for design in accordance

2 Computation of modulus considers bending in both directions. Lowest resulting value selected.

All sheet piles are available in S235, S275 and S355 steel. Grades such as S240, S270, S320, S390, S430 and other grades are available upon request.

For assistance in selecting the correct sheet pile for your application or custom designing your own sheet pile, please contact one of our representatives. Sheet pile specification sheets are to be used by experienced designers. It is recommended that users refer to ESC for free assistance in correct sheet pile selection.