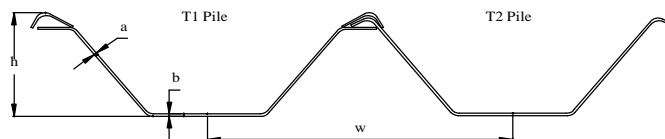


# ESC C-SERIES WIDE PROFILE SHEET PILES



ESC Sheet Pile Type	Unit Width w (m)	Dimensions			Sectional Area Per wall Length (cm <sup>2</sup> /m)	Unit Weight Per wall Width (kg/m <sup>2</sup> )	Coating Area Both Sides Per wall Width (m <sup>2</sup> /m)	Moment of Inertia Per wall Width (cm <sup>4</sup> /m)	Modulus of Section Per wall Width (cm <sup>3</sup> /m)
		a (mm)	b (mm)	h (mm)					
ESC6C	1.00	6.0	6.0	318.0	91.2	72.0	2.754	14, 110	590
ESC8C	1.00	8.0	8.0	302.0	122.1	96.0	2.719	20, 530	840
ESC12C	1.15	8.0	8.0	441.0	126.4	100.0	2.897	39, 140	1240
ESC14C	1.15	9.0	9.0	434.0	142.2	112.0	2.897	44, 360	1410
ESC16C	1.10	9.0	9.0	470.0	149.3	117.0	3.036	52, 070	1580
ESC18C	1.20	9.0	9.0	545.0	152.9	120.0	3.126	69, 000	1840
ESC20C	1.20	10.0	10.0	551.0	168.4	132.0	3.123	77, 150	2070
ESC22C	1.15	10.0	10.0	572.0	175.8	138.0	3.271	85, 290	2250
ESC25C	1.25	10.0	16.0	524.0	181.3	142.0	2.994	85, 130	2520
ESC30C	1.25	12.0	18.0	539.0	216.3	170.0	3.002	104, 010	3010
ESC32C	1.20	12.0	18.0	547.0	224.0	176.0	3.141	110, 620	3200
ESC36C	1.20	12.0	24.0	565.0	245.3	191.0	3.143	128,610	3590
ESC40C	1.25	15.0	25.0	531.0	285.9	224.0	3.034	138, 730	4070
ESC46C	1.15	15.0	27.0	586.0	309.5	240.0	3.277	167,380	4650
ESC50C	1.10	15.0	27.0	608.0	320.9	252.0	3.420	184, 750	5040
ESC60C	1.40	18.0	28.0	638.0	352.3	277.0	3.166	244,810	5990

## Description:

'U' shape fully interlocking heavy gauge wide profile sheet pile, fitted with angle clutch mechanism. Nominal width 1000mm to 1400mm.

## Characteristics:

High strength Sheet Pile, suitable for high 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 medium to high reuse situations depending on the sheet pile selected and the soil conditions present.

## Recommended Applications:

Drains/Canals  
 All Embankments  
 Cofferdams  
 All Excavations  
 River Works  
 Pipelines

## Driving Characteristics

Item	Parameter	Value
1	Optimal Soil Type	Soft-Firm
2	Maximum Driving Length	12.0 metres for ESC6C up to ESC18C it would be 18 metres. ESC 20C onwards is in excess of 24.0 metres.
3	Maximum internal corner angle*+	77 degrees
4	Maximum external corner angle*+	8 degrees

## Notes:

- \* Angle refers to deviation off straight driving line
- \*+ If required angle exceeds allowance, a corner pile should be used
- 1 Sheet pile properties based on effective section design as per BS5950-1998 Part 5. Section can develop full yield stress without onset of panel buckling
- 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.*