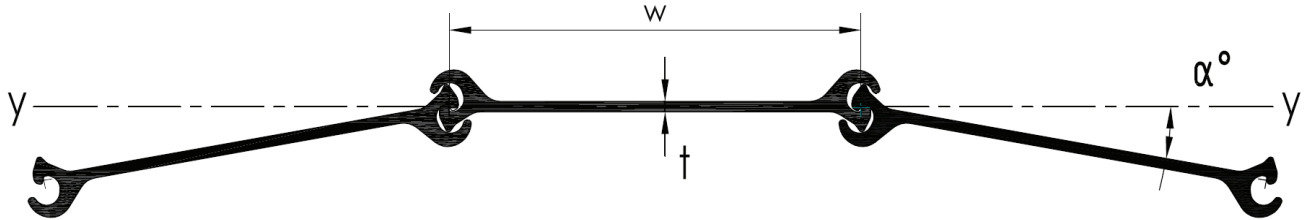


**FL SERIES**



The **FL Series** is a hot rolled straight web sheet pile profile. It features high interlocking clutch strength. It is ideal for circular structures and coffering. The FL Series Sheet Piles can be preassembled as one large cellular unit and dropped in a submerged location, where they can be driven in sequence.

**Order Options**

- Steel Grades** SYW295, SYW390, SYW430  
SY295, SY390  
S355GP, S430GP  
A572Gr50
- Lengths** 124.6ft maximum
- Delivery Options** By container (38.7ft or less) or Break Bulk

SECTION	WIDTH	HEIGHT	THICKNESS	CROSS SECTIONAL AREA	WEIGHT		ELASTIC SECTION MODULUS	MOMENT OF INERTIA	COATING AREA <small>*(both side per pile)</small>
	(w)	(h)	(t)		Per Pile	Per Wall			
	in	in	in	in <sup>2</sup> /ft	lb/ft	lb/ft <sup>2</sup>	in <sup>3</sup> /ft	in <sup>4</sup> /ft	ft <sup>2</sup> /ft
	mm	mm	mm	cm <sup>2</sup> /m	kg/m	kg/m <sup>2</sup>	cm <sup>3</sup> /m	cm <sup>4</sup> /m	m <sup>2</sup> /m
FL1	19.69	1.77	0.37	7.42	41.46	25.27	1.66	2.89	4.56
	500	45	9.5	157.2	61.7	123.4	89	396	1.39
FL2	19.69	1.85	0.5	9.28	51.88	31.62	2.25	4.16	4.63
	500	47	12.7	196.7	77.2	154.4	121	570	1.41

\*excludes internal section of interlock

**ESC STEEL LLC**

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DOWNLOAD ESC GROUP APP

## STEEL GRADES &

## MANUFACTURING TOLERANCES

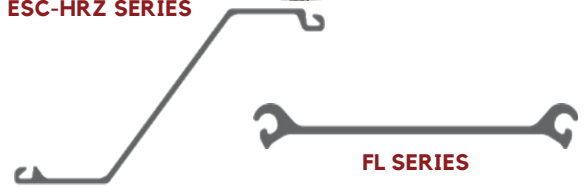
## HOT ROLLED SHEET PILES

### MANUFACTURING TOLERANCES

COMPONENT	ESC-HRZ SERIES		FL SERIES	
	BS EN10249-2	ASTM A6	BS EN10249-2	ASTM A6
Mass	± 5%	± 2.5%	± 5%	± 2.5%
Length	± 7.87" / 200mm	+ 5" (125mm)	± 7.87" / 200mm	+ 5" (125mm)
Height (≤ 7.87" / 200mm)	± 0.197" / 5.0mm		N/A	
Height (> 7.87" / 200mm & ≤ 11.81" / 300mm)	± 0.236" / 6.0mm		N/A	
Height (> 11.81" / 300mm)	± 0.276" / 7.0mm		N/A	
Thickness (≤ 0.335" / 8.5 mm)	± 0.0197" / 0.5 mm		± 0.0197" / 0.5 mm	
Thickness (> 0.355" / 8.5 mm)	± 6% of thickness		N/A	
Width of Single	± 2% of width		± 2% of width	
Width of Pair	± 3% of width		N/A	
Straightness	±0.2% of the length		±0.2% of the length	
Squareness of Ends	± 2% of the width		± 2% of the width	



ESC-HRZ SERIES

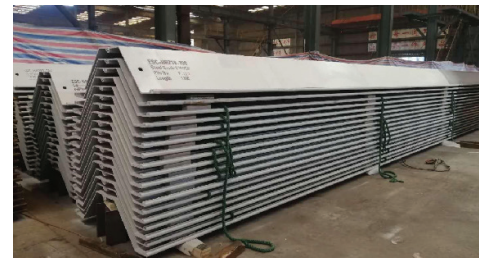


FL SERIES

### STEEL GRADES

Other Steel Grades are available on request. The Yield Point provided is applicable to thicknesses less than or equal to 0.63in (16mm).

CLASSIFICATION			MINIMUM YIELD STRENGTH		ULTIMATE TENSILE STRENGTH		MINIMUM ELONGATION	CLASSIFICATION			MINIMUM YIELD STRENGTH		ULTIMATE TENSILE STRENGTH		MINIMUM ELONGATION
Region	Code	Grade	ksi	MPa	ksi	MPa	%	Region	Code	Grade	ksi	MPa	ksi	MPa	%
USA	ASTM A252	Grade 1	30	205	50	345	18	Europe	EN 10248	S240GP	35	240	49	340	26
	ASTM A252	Grade 2	35	240	60	415	14		EN 10248	S270GP	39	270	59	410	24
	ASTM A252	Grade 3	45	310	66	455	-		EN 10248	S320GP	46	320	64	440	23
	ASTM A572	Grade 42	42	290	60	415	20		EN 10248	S355GP	51	355	70	480	22
	ASTM A572	Grade 50	50	345	65	450	18		EN 10248	S430GP	62	430	71	490	20
	ASTM A572	Grade 55	55	380	70	485	17		China	GB/T 700	Q235B	34	235	73	500
	ASTM A572	Grade 60	60	415	75	520	16	GB/T 1591		Q345B	50	345	91	630	20
	ASTM A572	Grade 65	65	450	80	550	15	GB/T 1591		Q345C	50	345	91	630	21
Canada	CSA 40.21	260W	38	260	86	590	20	GB/T 1591		Q390B	57	390	94	650	20
	CSA 40.21	300W	44	300	90	620	20	GB/T 1591	Q420B	61	420	99	680	19	
	CSA 40.21	350W	51	350	94	650	19	Japan	JIS A5528	SY295	43	295	71	490	17
	CSA 40.21	400W	58	400	100	690	16		JIS A5528	SY390	57	390	78	540	15



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