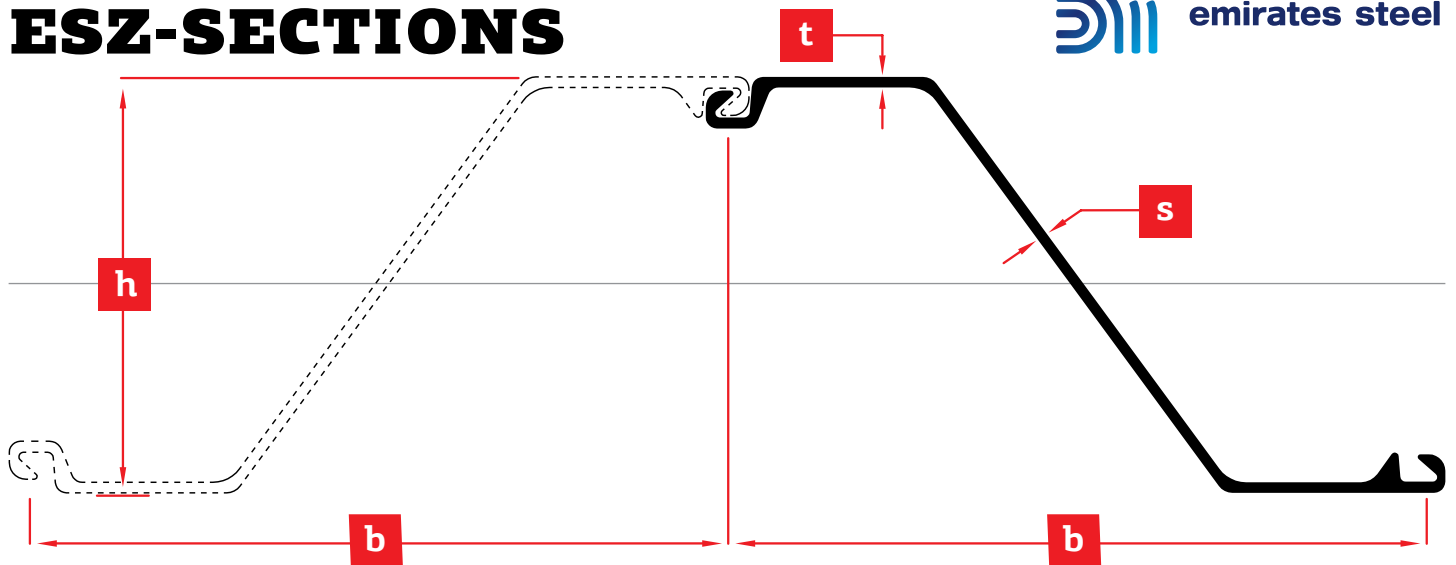


# SECTION DATA

## ESZ-SECTIONS

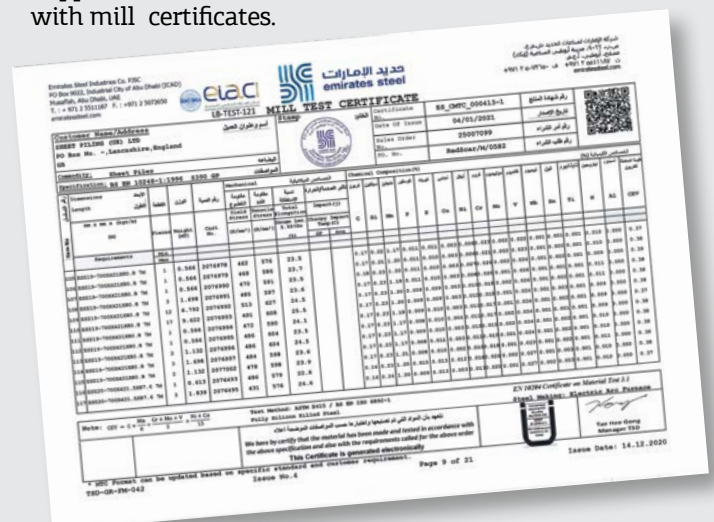


ESZ-SECTIONS	Width	Height	Thickness		Sectional Area	Mass		Moment of Inertia	Elastic Section Modulus	Plastic Section Modulus	Initial Class
	b	h	t	s		kg/m	kg/m <sup>2</sup>				
	mm	mm	mm	mm	cm <sup>2</sup> /m	of pile	of wall	I <sub>xx</sub> cm <sup>4</sup> /m	W <sub>el</sub> cm <sup>3</sup> /m	W <sub>pl</sub> cm <sup>3</sup> /m	S430GP
<b>ESZ17</b>	700	420	8.5	8.5	134.6	74.0	105.7	36360	1735	2027	3
<b>ESZ18</b>	700	420	9.0	9.0	140.9	77.4	110.6	37890	1805	2116	3
<b>ESZ19</b>	700	421	9.5	9.5	147.1	80.8	115.4	39420	1875	2210	3
<b>ESZ20</b>	700	422	10.5	10.5	159.3	87.5	125.0	42380	2010	2395	2
<b>ESZ24</b>	700	459	12.0	9.0	162.9	89.5	127.9	55870	2435	2810	2
<b>ESZ26</b>	700	460	13.0	10.0	176.0	96.7	138.1	59810	2600	3000	2
<b>ESZ28</b>	700	461	14.0	11.0	189.1	103.9	148.4	63750	2765	3220	2
<b>ESZ28-D</b>	700	462	14.6	13.2	208.9	114.8	164.0	66890	2900	3380	2
<b>ESZ36</b>	700	509	14.0	11.5	211.5	116.2	166.1	91130	3580	4095	2
<b>ESZ38</b>	700	510	15.0	12.5	226.0	124.2	177.4	96860	3800	4355	2
<b>ESZ40</b>	700	511	16.0	13.5	240.5	132.2	188.8	102590	4015	4620	2
<b>ESZ42</b>	700	512	17.0	14.5	255.1	140.2	200.3	108360	4235	4885	2

## BENEFITS OF ESZ SECTION SHEET PILES

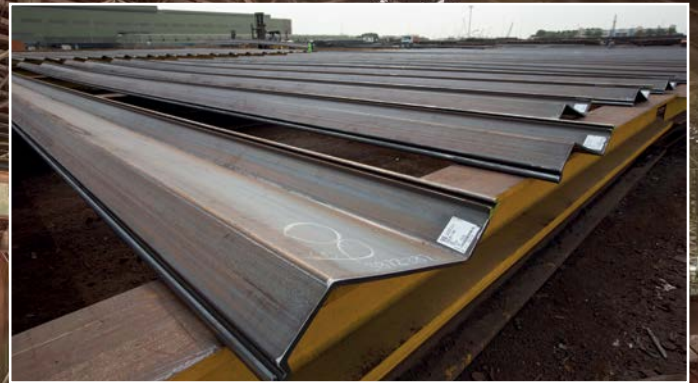
- Interlocks located on the flange thus giving optimised section profile for high strength and low weight.
- High inertia enabling reduction in deflections for serviceability.
- Efficient section with high bending moment resistance.
- No reduction factors required on structural properties unlike 'U' profile sheet piles.
- Uniform section thickness for good driveability and greater durability performance.
- Greater section width providing:
  - Reduced handling and installation time.
  - Reduced interlocks improving water tightness control.
- Incorporates the quality - proven Larssen interlock.

- Supplied in Grade S390GP Steel to BS EN 10248: Pt1 with mill certificates.





# حديد الإمارات emirates steel



## EMIRATES STEEL SHEET PILES

Emirates Steel are an Abu-Dhabi based steelmaker located in the Industrial City of Abu Dhabi, Musaffah, United Arab Emirates. Emirates Steel was established in 1988 and is the only integrated steel plant in the UAE, utilising the latest technology to produce high quality structural sections and sheet pile sections.

The heavy sections rolling mill started production in early 2012 and has the capacity to produce 1.0 million tonnes of long product per year.

Emirates Steel produce a range of Z section sheet piles currently based around ESZ18-700, ESZ26-700 and ESZ38-700 family. There are future plans in place to continue development in the range.

Emirates Steel sheet piles are manufactured to BS EN 10248 standards and whilst steel grades of S355GP, S390GP and S430GP are available. They are generally stocked by Sheet Piling (UK) Ltd in grade S390GP. The maximum length which can be produced is 30.0m.

On Sustainability and Environmental Management; Emirates Steel are committed to protecting the environment and natural resources. As a member of the Worldsteel Climate Action Programme; Emirates Steel are involved with Carbon Capture Facility in UAE.

Emirates Steel is certified to the highest international standards under the CARES Sustainable Construction Steel Scheme and BES 6001 for Responsible Sourcing of Construction Products together with Environmental Product Declaration (EPD) reports.