

EN 10219:2006 Material Mechanic Property								
Type of Steels	Yield Strength (MPA)			Tensile Strength (MPA)		Longitudinal Elongation	Impact Toughness (10mm x 10mm)	
	t ≤ 16mm	16mm < t ≤ 40mm	40mm < t ≤ 65mm	t ≤ 3mm	3mm < t ≤ 65mm		Temperature	Impact Energy
S235JHR	235	225	215	360-510	340-470	24	20°C	27J

EN 10219:2006 Dimensional Tolerance					
Section Type	Welded Technique	Outside Dimensions	Wall Thickness		Length
Rectangular	ERW	±1%, MIN ±0.5mm, MAX ±10mm	d ≤ 406.4mm		2000-6000mm
			t ≤ 5mm: ±10%	t > 5mm: ±0.5mm	±10%, MAX 2mm
Weight	Glancing Flatness		Circular Deviation Rate		
±6%	0.2% of the total length		d/t ≤ 100:2%		

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EN 10219:2006 Dimensional Tolerance							
Section Type	Welded Technique	Outside Dimensions			Wall Thickness		Length
Rectangular	ERW	b < 100mm	100mm ≤ h, b ≤ 200mm	b > 200mm	t ≤ 5mm	t > 5mm	2000-6000mm
		±0.5mm or ±1% (choose large)	±0.8%	±0.6%	±10%	±0.5mm	+10mm, -0mm
Weight	Glancing Flatness						
±6%	0.15% of the total length						