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Stainless Steel - EN Standards for Stainless Steel C.R. Sheet

Last Updated 18 July 2019

For cold rolled stainless steel the old BS1449 standard has been replaced by two EN Standards:

EN10088-2 Replaces BS1449-Part 2: 1983

EN10059 Covers Heat Resisting Grades

EN10259 & Now ISO 9445: Tolerances for COLD rolled material

MATERIAL CERTIFICATION

Where multi-certification is required, a combination of EN10088-2, EN10029 or 10051 will appear together with the appropriate ASTM Standards.

THICKNESS TOLERANCES - EN10259

Thickness (mm)	Tols (+/-mm) for given width in mm			
	1000	1250	1500	
under 0.30	0.03	-	-	
0.30 to 0.49	0.04	0.04	-	
0.50 to 0.59	0.05	0.05	-	
0.6 to 0.79	0.05	0.05	-	
0.8 to 0.99	0.06	0.06	0.06	
1.0 to 1.19	0.07	0.07	0.07	
1.2 to 1.49	0.08	0.08	0.08	
1.5 to 1.99	0.09	0.09	0.10	
2.0 to 2.49	0.10	0.10	0.11	
2.5 to 2.99	0.12	0.12	0.12	
3.0 to 3.99	0.14	0.14	0.14	

FLATNESS TOLERANCES

Nominal Length (L) (mm)	Normal Tolerance (mm)	
Up to 3000	10	
Over 3000	12	

LENGTH TOLERANCES

Nominal Length (L) (mm)	Normal Tolerance (mm)	
Up to 2000	+5 / -0	
Over 2000	+0.0025 x L / -0	

WIDTH TOLERANCES

Thickness mm	All Plus Tols (mm) for Given Width in (mm)	
	1000 & 1500	
Under 1.5	+ 2.0	
1.5 to 2.49	+ 2.5	
2.5 to 3.49	+ 3.0	
3.5 and Over	+ 4.0	

DISCLAIMER This Data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon. Please note that the 'Datasheet Update' date shown above is no guarantee of accuracy or whether the datasheet is up to date. The information growided in this datasheet has been drawn from various recognised sources, including EN Standards, recognised industry references (printed & online) and manufacturers' data. No guarantee is given that the information is from the latest issue of those sources or about the accuracy of those sources. Material supplied by the Company may vary significantly from this data, but will conform to all relevant and applicable standards. As the products detailed may be used for a wide variety of purposes and as the Company has no control over their use; the Company specifically excludes all conditions or warranties expressed or implied by statute or otherwise as to dimensions, properties and/or fitness for any particular purpose, whether expressed or implied. Advice given by the Company to any third party is given for that party's assistance only and without liability on the part of the Company. All transactions are subject to the Company's current Conditions of Sale. The extent of the Company's liabilities to any customer is clearly set out in those Conditions; a copy of which is available on request.

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FINISHES ACCORDING TO BS EN 10088-2 /10028-7

BS EN Finish	Old BS Finish	Description	
		Hot rolled	
1C	0	Hot rolled, heat treated, not descaled	
1E	1	Hot rolled, heat treated, mechanically descaled	
1D	1	Hot Rolled, heat treated, pickled	
1U	-	Hot rolled, not heat treated, not descaled	
		Cold rolled	
2C	-	Cold rolled, heat treated, not descaled	
2E	-	Cold rolled, heat treated, mechanically descaled	
2D	2D	Cold rolled, heat treated, pickled	
2B	2B	Cold rolled, heat treated, pickled, skin passed	
2R	2A / (BA)	Cold rolled bright annealed	
2Q	-	Cold rolled, hardened & tempered, scale free	

FINISHES ACCORDING TO BS EN 10088-2 /10028-7

BS EN Finish	Old BS Finish	Special Finishes - Description	Typical Grit	Typical Ra
1G or 2G	-	Ground grit	120	2.5 to 2.0
1J or 2J	3B	Brushed - unidirectional	180	1.2 to 1.0
1J or 2J	4	Dull Polished - unidirectional	240	0.6
1K or 2K	5	Satin Polished - unidirectional	320	0.5 Max
1P or 2P	7	Bright polished - non-directional with a high degree of image clarity	600	0.1
1P or 2P	8	Mirror finish - non-directional with a very high degree of image clarity	800	0.05
1M or 2M	-	Patterned	-	-
2L	-	Coloured	-	-
2W	-	Corrugated	-	-
1S or 2S	-	Surface coated (metallic coatings such as tin, lead or aluminium)	-	-

NOTE: Special finishes indicate hot rolled (1) and cold rolled (2) sheets, e.g.: Ground polished hot rolled sheets + 1G / Ground polished cold rolled sheets = 2G

For more information on stainless steel finishes please refer to the Cashmores technical datasheet on this subject.

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