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



For Cold rolled stainless steel the old BS1449 standard has been replaced by two EN Standards:

EN10088-2Replaces 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	Tols (+/- mm) for given width in 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	0.045	0.05	-
0.6 to 0.79	0.05	0.05	-
0.8 to 0.99	0.055	0.06	0.06
1.0 to 1.19	0.06	0.07	0.07
1.2 to 1.49	0.07	0.08	0.08
1.5 to 1.99	0.08	0.09	0.10
2.0 to 2.49	0.09	0.10	0.11
2.5 to 2.99	0.11	0.12	0.12
3.0 to 3.99	0.13	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)	All Plus Tols (mm) for Given Width in (mm)
	1000	1250 & 1500
Under 1.5	+1.5	+2.0
1.5 to 2.49	+2.0	+2.5
2.5 to 3.49	+3.0	+3.0
3.5 and Over	+4.0	+4.0



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 treayed, 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

*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 AAlco technical datasheet on this subject.

BS EN Finish	Old BS Finish	Special Finishes - Descripti on	Typical Grit	Typical Ra
1G or 2G	-	Ground Grit	120	2.5 to 2.0
1J or 2J	3B	Brushed - Unidirecti onal	180	1.2 to 1.0
1J or 2J	4	Dull Polished - Unidirecti onal	240	0.6
1K or 2K	5	Satin Polished - Unidirecti onal	320	0.5 Max
1P or 2P	7	Bright Polished - Non- Direction al with a high degree of image clarity	600	0.1
1P or 2P	8	Mirror Finish - Non- Direction al with a very high degree of image clarity	800	0.05
1M or 2M	-	Patterned		
2L	-	Coloured		
2W	-	Corrugat ed		
1S or 2S	-	Surface Coated (Metallic coatings such as tin, lead or aluminiu m		

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REVISION HISTORY

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Please note that the 'Datasheet Update' date shown above is no guarantee of accuracy or whether the datasheet is up to date.

The information provided 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.

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