

MARYLAND METRICS P.O. Box 261 Owings Mills, MD 21117 USA*The one-stop source for all your METRIC METALS needs!*

phones: (410)358-3130 (800)638-1830 faxes: (410)358-3142 (800)872-9329

web: <http://mdmetric.com> email: sales@mdmetric.com**COMPARISON OF USA STANDARDS TO INTERNATIONAL STRUCTURAL STRENGTHS**

QUALITY/STANDARD		TENSILE		MINIMUM YIELD	
		P.S.I.	N/mm2	P.S.I.	N/mm2
USA					
ASTM A-36		58,000/80,000	400/550	36,000	250
ASTM A-572	Grade 50	65,000 Min.	450 Min.	50,000	345
Euronorm					
EN 10025	S235JRG2	52,200/73,950	360/510	32,900	235
	Grade 43A	62,300/74,000	430/510	35,600	245
	S355JO	68,150/91,350	470/630	49,700	355
	S355J2G3	68,150/91,350	470/630	49,700	355
	Grade 50B	72,500/90,000	490/620	50,000	345
England					
BS 4360	RST 37-2	52,000/74,000	360/510	32,500	225
	ST 37-2	52,000/74,000	360/510	32,500	225
	Grade 43A	62,300/74,000	430/510	35,600	245
	Grade 50B	72,500/90,000	490/620	50,000	345
Germany					
DIN 17100	SS 400	52,200/73,950	360/510	32,900	235
	SS 490	58,150/91,350	470/630	49,700	355
	ST 42-2	62,300/83,500	430/580	38,500	265
	ST 52-3	74,000/98,500	510/680	50,000	345
Japan					
JIS-G-3101	SS 41	58,000/74,000	402/510	34,000	235
	SM 41	58,000/74,000	402/510	34,000	235
	SS 50	72,500/88,500	490/608	40,000	275
	SM 50	72,500/88,500	490/608	45,000	314
	SS 540	72,500/88,500	490/608	49,700	355

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Substitution is only possible after a complete examination of the individual specifications.

For sections of over 16 mm (0.630") up to and including 25 mm (.984") thick, the above figures are only a guide and are approximate.