SPECIFICATION COMPARISON (PLATE)

BS 4360	SANS 1431	EN 10025	** SANS 50025 / EN 10025
Gr 40A	240 WA	S 235 JR	S235 JR + AR
Gr 40B	–	S 235 JR G2	–
Gr 40C	240 WC	S 235 JO	S235 JO
Gr 40D	240 WDD	S235 J2 G3	S235 J2 + N
Gr 43A	300 WA *	–	–
Gr 43B	300 WB *	S275 JR	S275 JR + AR
Gr 43C	300 WC *	S275 JO	S275 JO
Gr 43D	300 WDD *	S275 J2 G3	S275 J2 + N
Gr 50B	350 WA	S355 JR	S355 JR + AR
Gr 50C	350 WC	S355 JO	S355 JO
Gr 50D	350 WDD	S355 J2 G3	S355 N

* NOT A DIRECT EQUIVALENT

** REPLACES PREVIOUS SPECIFICATIONS. BS 4360, SANS 1431 AND EN 10025.

GUIDE TO COMMERCIALLY AVAILABLE STEEL PLATE

DESCRIPTION	TENSILE STRENGTH (MPa)	YIELD STRENGTH (MPa)	CHARPY IMPACT TEST MIN.	ELONGATION % MIN.	MAX OPERATING TEMP (ºC)	WELDABILITY SUGGESTED WELDING ELECTRODES		HARDNESS		COMMENTS
						SMAW	GMAW	BHN	HRC	
Commercial Quality (Mild Steel)	400 *	250 *	–	24 *	–	E 6013	ER 705-6	130 *	–	General purpose steel properties not measured or guaranteed.
S275 JR (300 WA)	360 – 510	275 (min)	27J @ 20ºC **	22		E 6013	ER 705-6	150 *	2 *	Structural quality. Medium strength.
S355 JR (350 WA)	470 – 630	355 (min)	27J @ 20ºC **	21		E 6013	ER 705-6	160 *	6 *	Structural quality. Higher strength.
S355 JO (350 WC)	470 – 630	355 (min)	27J @ 0ºC	21		E 6013	ER 705-6	160 *	6 *	Structural quality. Higher strength and impact values.
Supraform S355 MC (TM 380)	430 – 550	355 (min)	–	23		E 6013	ER 705-6	160 *	6 *	Formable and weldable. Higher strength structural grade.
Wearplate 200 (SS10/200) (Bennox)	580 *	450 *	–	–	250 *	E 7018	ER 705-6	250 *	24 *	Non-heat treated lower grade wear resistance. Weldable with precautions. Properties not guaranteed.
Roq Tuf AM 700	840 (min)	700 (min)	40J @ -50ºC *	24	500 *	E 9018 E 11018	ER 1005-6	260 *	25 *	Structural quality. High strength.
Sumiten 780 S	780 – 930	685 (min)	>47J @ -20ºC	24	500 *	E 9018 E 11018	ER 1005-6	260 *	25 *	Structural quality. High strength.
Roq Last TH 400	1300 *	1100 *	35J @ 0ºC *	14 *	300 *	E 7018	ER 705-6	380 / 440	38 / 47	Quenched and tempered. High wear resistance. May be fabricated. Weldable.
K 400	1325 *	1156 *	73J @ 0ºC *	15 *	300 *	E 7018	ER 705-6	380 / 440	38 / 47	Quenched and tempered. High wear resistance. May be fabricated. Weldable.
K 500	1552 *	1373 *	43J @ 0ºC *	15 *	300 *	E 8016 E 7018	ER 705-6	450 / 550	48 / 54	Quenched and tempered. Excellent wear resistance. Good impact resistance. Weldable.

* TYPICAL VALUES NOT MEASURED OR GUARANTEED

** AVAILABLE ON REQUEST