A30 – HOT ROLLED STRUCTURAL

AMEREX LIMITED

PROPERTIES

Structural steels are carbon-manganese steels with a guaranteed minimum yield strength and tensile strength, and satisfactory ductility. These steels are suitable for most common applications and are readily available from distributors and Steel Service Centres in the most common forms and dimensions.

Various grades can be supplied:
- Without any special rolling and/or heat treatment requirements. The abbreviated designation of this delivery condition is +AR.
- Following a rolling process in which final forming is carried out within a certain temperature range, producing a material in a condition equivalent to that obtained after normalisation, with the result that the specified mechanical properties values are conserved even after normalisation treatment. The abbreviated designation of this delivery condition is +N.

ADVANTAGES

Structural steels offer good weldability with conventional welding processes. In most cases, pre- or post-heat treatment is not necessary with welding. In addition to their good mechanical properties, structural steels also have very acceptable toughness values.

APPLICATIONS

Structural steels are mainly used in the building industry and in mechanical engineering. Applications include building components, containers, storage tanks and roll formed profiles.

Since 1 July 2013, the Construction Products Regulation (Regulation (EU) No. 305/2011 – CPR) has required that CE marking be affixed to all products delivered in accordance with a harmonised standard (e.g. EN 10025). This CE marking guarantees, for the uses defined in the standard, the properties described in the declaration of performance submitted by the manufacturer.

All of the steels in this data sheet comply with this Regulation.

BRAND CORRESPONDENCE

AMEREX LIMITED

	EN 10025-2:2004	DIN 17100:1983	UNE 36080:1990	EN 10025-2:1993	NF A 35-501	PN-88/H-84020:1988	PN-86/H-84018:1986	ZN-96/0632-07:1996	CSN	UN 7070	BS 4360:1996	SS
S185 EN 10025-2	S185	St33	A310-0	S185	A33					Fe 320		13 00-00
S235JR EN 10025-2	S235JR	RSt37-2	AE235 B	S235JRG2	(E24-2)	St3S				(Fe 360 B)	40 B	13 12-00
S235JR-CL1 AM FCE	*(S235JR-Galva1)*	*(RSt37-2)*	*(AE235 B)*	*(S235JRG2)*	*(E24-2)*	*St3S*			*11375*	*(Fe 360 B)*	*(40 B)*	*(13 12-00)*
S235J0 EN 10025-2	S235J0	St37-3 U	AE235 C	S235J0	E24-3					Fe 360 C	40 C	
S235J0 AM FCE	S235J0	St37-3 U	AE235 C	S235J0	E24-3	(St3V)			11378	Fe 360 C	40 C	
S235J2 EN 10025-2	S235J2			S235J2G4								
S235J2 AM FCE	S235J2			S235J2G4				St3SAL	11378		40 D	
S235J2+N EN 10025-2	S235J2+N	St37-3 N	AE235 D	S235J2G3	E24-4				11378	Fe 360D		
S235J2+N AM FCE	S235J2+N	St37-3 N	AE235 D	S235J2G3	E24-4	(St3W)			11378	Fe 360 D		
S275JR EN 10025-2	S275JR	St44-2	AE275 B	S275JR	E28-2					Fe 430 B	43 B	
S275JR AM FCE	S275JR	St44-2	AE275 B	S275JR	E28-2	St4S			11443	Fe 430 B	43 B	14 12-00
S275J0 EN 10025-2	S275J0	St44-3 U	AE275 C	S275J0	E28-3					Fe 430 C	43 C	
S275J0 AM FCE	S275J0	St44-3 U	AE275 C	S275J0	E28-3	(St4V)			11448	Fe 430 C	43 C	
S275J2 EN 10025-2	S275J2			S275J2G4								14 14-01
S275J2 AM FCE	S275J2			S275J2G4				St4SAL	11448			14 14-01
S275J2+N EN 10025-2	S275J2+N	St44-3 N	AE275 D	S275J2G3	E28-4				11448	Fe 430 D	43 D	14 14-00
S275J2+N AM FCE	S275J2+N	St44-3 N	AE275 D	S275J2G3	E28-4	(St4W)			11448	Fe 430 D	43 D	14 14-00
S355JR EN 10025-2	S355JR		AE355 B	S355JR	E36-2					Fe 510 B	50 B	
S355JR AM FCE	S355JR		AE355 B	S355JR	E36-2		(18G2)		11523	Fe 510 B	50 B	
S355J0 EN 10025-2	S355J0	St52-3 U	AE355 C	S355J0	E36-3					Fe 510 C	50 C	
S355J0 AM FCE	S355J0	St52-3 U	AE355 C	S355J0	E36-3				11523	Fe 510 C	50 C	
S355J2 EN 10025-2	S355J2			S355J2G4								
S355J2 AM FCE	S355J2			S355J2G4					11523			
S355J2+N EN 10025-2	S355J2+N	St52-3 N	AE355 D	S355J2G3	E36-4					Fe 510 D	50 D	
S355J2+N AM FCE	S355J2+N	St52-3 N	AE355 D	S355J2G3	E36-4		18G2A		11523	Fe 510 D	50 D	
S355K2 EN 10025-2	S355K2			S355K2G4								
S355K2+N EN 10025-2	S355K2+N			S355K2G3							50 DD	
S355K2+N AM FCE	S355K2+N			S355K2G3							50 DD	

Grades in italics: not included in the standard

	ASTM A1011-01a	JIS G 3101	Old brand names
S185 EN 10025-2			
S235JR EN 10025-2	SS Grade 36	SS 330	
S235JR-CL1 AM FCE	*(SS Grade 36)*	*(SS 330)*	
S235J0 EN 10025-2			
S235J0 AM FCE	SS Grade 36	SS 330	
S235J2 EN 10025-2			
S235J2 AM FCE		SS 330	
S235J2+N EN 10025-2			
S235J2+N AM FCE		SS 330	
S275JR EN 10025-2			
S275JR AM FCE	SS Grade 40	SS 400	
S275J0 EN 10025-2			
S275J0 AM FCE	SS Grade 40	SS 400	
S275J2 EN 10025-2			
S275J2 AM FCE	SS Grade 40	SS 400	
S275J2+N EN 10025-2		SS 400	
S275J2+N AM FCE		SS 400	
S355JR EN 10025-2			
S355JR AM FCE	SS Grade 50		
S355J0 EN 10025-2			
S355J0 AM FCE	SS Grade 50		
S355J2 EN 10025-2			
S355J2 AM FCE	SS Grade 50		
S355J2+N EN 10025-2			
S355J2+N AM FCE			
S355K2 EN 10025-2			
S355K2+N EN 10025-2			
S355K2+N AM FCE			

Grades in italics: not included in the standard

() Closest grade as no fully equivalent grade exists.

DIMENSIONS
MILL FINISH

Thickness (mm)	Min width	S185 EN 10025-2, S235JR EN 10025-2, S235JR-CL1 AM FCE, S235J0 EN 10025-2, S235J0 AM FCE	S235J2 EN 10025-2, S235J2 AM FCE	S235J2+N EN 10025-2, S235J2+N AM FCE	S275JR EN 10025-2, S275JR AM FCE, S275J0 EN 10025-2, S275J0 AM FCE	S275J2 EN 10025-2, S275J2 AM FCE	S275J2+N EN 10025-2, S275J2+N AM FCE
		Max width	Max width	Max width	Max width	Max width	Max width
1.50 ≤ th < 1.60	800	1560	1560	1320	1300	1300	1150
1.60 ≤ th < 1.70				1400	1400		1200
1.70 ≤ th < 1.80		1620	1620	1490	1490	1450	1260
1.80 ≤ th < 1.90				1540	1540	1460	1460
1.90 ≤ th < 2.00		1780	1650	1590	1590	1520	1520
2.00 ≤ th < 2.10		1830	1700	1630	1630	1620	1620
2.10 ≤ th < 2.20				1660	1660	1660	1660
2.20 ≤ th < 2.30			1720	1720	1720	1720	1720
2.30 ≤ th < 2.40		1930	1790	1780	1780	1780	1780
2.40 ≤ th < 2.50			1840	2140	1840	1840	1840
2.50 ≤ th < 2.60		1980	1900	1900	1900	1900	1900
2.60 ≤ th < 2.70		2100	2100	2100	2100	2100	2100
2.70 ≤ th < 2.80							
2.80 ≤ th < 2.90							
2.90 ≤ th < 3.00		2150	2150	2150	2150	2150	2150
3.00 ≤ th < 3.10							
3.10 ≤ th < 3.20							
3.20 ≤ th < 3.30							
3.30 ≤ th < 3.40							
3.40 ≤ th < 15.00							
15.00 ≤ th < 16.00							
16.00 ≤ th < 16.10							
16.10 ≤ th < 16.50							
16.50 ≤ th < 19.00							
19.00 ≤ th < 20.00							

Coils in thicknesses greater than 20 mm can also be produced. Please contact us.

Thickness (mm)	Min width	S355JR EN 10025-2, S355JR AM FCE, S355J0 EN 10025-2, S355J0 AM FCE	S355J2 EN 10025-2, S355J2 AM FCE	S355J2+N EN 10025-2, S355J2+N AM FCE, S355K2 EN 10025-2, S355K2+N EN 10025-2, S355K2+N AM FCE
		Max width	Max width	Max width
1.50 ≤ th < 1.60	800	1100	1100	-
1.60 ≤ th < 1.70		1200	1200	
1.70 ≤ th < 1.80		1250	1250	
1.80 ≤ th < 1.90		1300	1300	
1.90 ≤ th < 2.00		1350	1350	1050
2.00 ≤ th < 2.10		1440	1440	1330
2.10 ≤ th < 2.20				
2.20 ≤ th < 2.30				
2.30 ≤ th < 2.40		1460	1460	1360
2.40 ≤ th < 2.50				1420
2.50 ≤ th < 2.60		1520	1520	1480
2.60 ≤ th < 2.70		1570	1570	1580
2.70 ≤ th < 2.80		1590	1590	
2.80 ≤ th < 2.90		1630	1630	
2.90 ≤ th < 3.00				
3.00 ≤ th < 3.10		2040	2040	2040
3.10 ≤ th < 3.20		2080	2080	2080
3.20 ≤ th < 3.30		2120	2120	2120
3.30 ≤ th < 3.40		2140	2140	2140
3.40 ≤ th < 15.00		2150	2150	2150
15.00 ≤ th < 16.00		1930	1930	1930
16.00 ≤ th < 16.10		1740		1740
16.10 ≤ th < 16.50				
16.50 ≤ th < 19.00			1780	
19.00 ≤ th < 20.00				

Coils in thicknesses greater than 20 mm can also be produced. Please contact us.

PICKLED

Thickness (mm)	Min width	S185 EN 10025-2, S235JR EN 10025-2, S235JR-CL1 AM FCE, S235J0 EN 10025-2, S235J0 AM FCE, S275J0 EN 10025-2, S275J0 AM FCE	S235J2 EN 10025-2, S235J2 AM FCE	S235J2+N EN 10025-2, S235J2+N AM FCE	S275JR EN 10025-2, S275JR AM FCE	S275J2 EN 10025-2, S275J2 AM FCE	S275J2+N EN 10025-2, S275J2+N AM FCE
		Max width	Max width	Max width	Max width	Max width	Max width
1.50 ≤ th < 1.60	800	1540	1480	1320	1300	1300	1120
1.60 ≤ th < 1.70			1570	1400	1400		1250
1.70 ≤ th < 1.80		1590	1610	1490	1490	1450	1270
1.80 ≤ th < 1.90		1630	1630	1540	1540	1460	1460
1.90 ≤ th < 2.00		1780	1650	1590	1590	1520	1520
2.00 ≤ th < 2.10		1830	1660	1630	1630	1620	1620
2.10 ≤ th < 2.20			1670	1660	1660	1660	1660
2.20 ≤ th < 2.30			1720	1720	1720	1720	1720
2.30 ≤ th < 2.40		1930	1780	1760	1780	1780	1780
2.40 ≤ th < 2.50			1840	1840	1840	1840	1840
2.50 ≤ th < 2.60		1980	1900	1900	1900	1900	1900
2.60 ≤ th < 2.75		2070	2070	2070	2070	2070	2070
2.75 ≤ th < 3.00							
3.00 ≤ th < 3.50							
3.50 ≤ th < 4.00		2130	2130	2130	2130	2130	2130
4.00 ≤ th < 6.35							
6.35 ≤ th < 7.10							
7.10 ≤ th < 7.90		1550	1550	1550	1550	1550	1550
7.90 ≤ th < 8.00			1520				
8.00 ≤ th < 8.10		1520		1520			1520
8.10 ≤ th < 13.00					1520	1520	

Thickness (mm)	Min width	S355JR EN 10025-2, S355JR AM FCE	S355J0 EN 10025-2, S355J0 AM FCE	S355J2 EN 10025-2, S355J2 AM FCE	S355J2+N EN 10025-2, S355J2+N AM FCE	S355K2 EN 10025-2, S355K2+N EN 10025-2, S355K2+N AM FCE
		Max width	Max width	Max width	Max width	Max width
1.50 ≤ th < 1.60	800	1100	1100	1100	-	-
1.60 ≤ th < 1.70		1200				
1.70 ≤ th < 1.80		1250	1250	1250		
1.80 ≤ th < 1.90		1300	1280	1270		
1.90 ≤ th < 2.00		1350	1310	1310	1050	1050
2.00 ≤ th < 2.10		1440	1440	1440	1330	1330
2.10 ≤ th < 2.20						
2.20 ≤ th < 2.30					1360	1360
2.30 ≤ th < 2.40		1520	1520	1530	1410	1410
2.40 ≤ th < 2.50					1460	1460
2.50 ≤ th < 2.60		1540	1540	1540	1510	1510
2.60 ≤ th < 2.75		1570	1570		1520	1520
2.75 ≤ th < 3.00		1580	1580	1580		
3.00 ≤ th < 3.50		2040	2040	2040	2040	1580
3.50 ≤ th < 4.00		2130	2130	2130	2070	1780
4.00 ≤ th < 6.35		2070	2070	2070		2040
6.35 ≤ th < 7.10		1550	1550	1550	1550	1550
7.10 ≤ th < 7.90		1520	1520	1520	1520	1520
7.90 ≤ th < 8.00						
8.00 ≤ th < 8.10						
8.10 ≤ th < 13.00						

MECHANICAL PROPERTIES

	Direction	Thickness (mm)	R_e (MPa)	R_m (MPa)	A_{80} (%)	A 5.65$\sqrt{S_o}$ (%)	KV 20°C (J)	KV 0°C (J)	KV -20°C (J)
S185 EN 10025-2	T	1.5 - 2	≥ 185	310 - 540	≥ 10	-	-	-	-
		2 - 2.5			≥ 11				
		2.5 - 3			≥ 12				
		3 - 16		290 - 510	-	≥ 16			
		16 - 20	≥ 175						
S235JR EN 10025-2	L	6 - 20	-	-	-	-	≥ 27	-	-
	T	1.5 - 2	≥ 235	360 - 510	≥ 17	-	-	-	-
		2 - 2.5			≥ 18				
		2.5 - 3			≥ 19				
		3 - 16			-	≥ 24			
		16 - 20	≥ 225						
S235JR-CL1 AM FCE	L	6 - 20	-	-	-	-	≥ 27	-	-
	T	1.5 - 2	≥ 235	360 - 510	≥ 17	-	-	-	-
		2 - 2.5			≥ 18				
		2.5 - 3			≥ 19				
		3 - 16			-	≥ 24			
		16 - 20	≥ 225						
S235J0 EN 10025-2	L	6 - 20	-	-	-	-	-	≥ 27	-
	T	1.5 - 2	≥ 235	360 - 510	≥ 17	-	-	-	-
		2 - 2.5			≥ 18				
		2.5 - 3			≥ 19				
		3 - 16			-	≥ 24			
		16 - 20	≥ 225						
S235J0 AM FCE	L	6 - 20	-	-	-	-	-	≥ 27	-
	T	1.5 - 2	≥ 235	360 - 510	≥ 17	-	-	-	-
		2 - 2.5			≥ 18				
		2.5 - 3			≥ 19				
		3 - 16			-	≥ 24			
		16 - 20	≥ 225						
S235J2 EN 10025-2	L	6 - 20	-	-	-	-	-	-	≥ 27
	T	1.5 - 2	≥ 235	360 - 510	≥ 17	-	-	-	-
		2 - 2.5			≥ 18				
		2.5 - 3			≥ 19				
		3 - 16			-	≥ 24			
		16 - 20	≥ 225						
S235J2 AM FCE	L	6 - 20	-	-	-	-	-	-	≥ 27
	T	1.5 - 2	≥ 235	360 - 510	≥ 17	-	-	-	-
		2 - 2.5			≥ 18				
		2.5 - 3			≥ 19				
		3 - 16			-	≥ 24			
		16 - 20	≥ 225						
S235J2+N EN 10025-2	L	6 - 20	-	-	-	-	-	-	≥ 27
	T	1.5 - 2	≥ 235	360 - 510	≥ 17	-	-	-	-
		2 - 2.5			≥ 18				
		2.5 - 3			≥ 19				
		3 - 16			-	≥ 24			
		16 - 20	≥ 225						

S235J2+N AM FCE	L	6 - 20	-	-	-	-	-	-	≥ 27
	T	1.5 - 2	≥ 235	360 - 510	≥ 17	-	-	-	-
		2 - 2.5			≥ 18				
		2.5 - 3			≥ 19				
		3 - 16			-	≥ 24			
		16 - 20	≥ 225						
S275JR EN 10025-2	L	6 - 20	-	-	-	-	≥ 27	-	-
	T	1.5 - 2	≥ 275	430 - 580	≥ 15	-	-	-	-
		2 - 2.5			≥ 16				
		2.5 - 3			≥ 17				
		3 - 16		410 - 560	-	≥ 21			
		16 - 20	≥ 265						
S275JR AM FCE	L	6 - 20	-	-	-	-	≥ 27	-	-
	T	1.5 - 2	≥ 275	430 - 580	≥ 15	-	-	-	-
		2 - 2.5			≥ 16				
		2.5 - 3			≥ 17				
		3 - 16		410 - 560	-	≥ 21			
		16 - 20	≥ 265						
S275J0 EN 10025-2	L	6 - 20	-	-	-	-	-	≥ 27	-
	T	1.5 - 2	≥ 275	430 - 580	≥ 15	-	-	-	-
		2 - 2.5			≥ 16				
		2.5 - 3			≥ 17				
		3 - 16		410 - 560	-	≥ 21			
		16 - 20	≥ 265						
S275J0 AM FCE	L	6 - 20	-	-	-	-	-	≥ 27	-
	T	1.5 - 2	≥ 275	430 - 580	≥ 15	-	-	-	-
		2 - 2.5			≥ 16				
		2.5 - 3			≥ 17				
		3 - 16		410 - 560	-	≥ 21			
		16 - 20	≥ 265						
S275J2 EN 10025-2	L	6 - 20	-	-	-	-	-	-	≥ 27
	T	1.5 - 2	≥ 275	430 - 580	≥ 15	-	-	-	-
		2 - 2.5			≥ 16				
		2.5 - 3			≥ 17				
		3 - 16		410 - 560	-	≥ 21			
		16 - 20	≥ 265						
S275J2 AM FCE	L	6 - 20	-	-	-	-	-	-	≥ 27
	T	1.5 - 2	≥ 275	430 - 580	≥ 15	-	-	-	-
		2 - 2.5			≥ 16				
		2.5 - 3			≥ 17				
		3 - 16		410 - 560	-	≥ 21			
		16 - 20	≥ 265						
S275J2+N EN 10025-2	L	6 - 20	-	-	-	-	-	-	≥ 27
	T	1.5 - 2	≥ 275	430 - 580	≥ 15	-	-	-	-
		2 - 2.5			≥ 16				
		2.5 - 3			≥ 17				
		3 - 16		410 - 560	-	≥ 21			
		16 - 20	≥ 265						

S275J2+N AM FCE	L	6 - 20	-	-	-	-	-	-	≥ 27
	T	1.5 - 2	≥ 275	430 - 580	≥ 15	-	-	-	-
		2 - 2.5			≥ 16				
		2.5 - 3			≥ 17				
		3 - 16		410 - 560	-	≥ 21			
		16 - 20	≥ 265						
S355JR EN 10025-2	L	6 - 20	-	-	-	-	≥ 27	-	-
	T	1.5 - 2	≥ 355	510 - 680	≥ 14	-	-	-	-
		2 - 2.5			≥ 15				
		2.5 - 3			≥ 16				
		3 - 16		470 - 630	-	≥ 20			
		16 - 20	≥ 345						
S355JR AM FCE	L	6 - 20	-	-	-	-	≥ 27	-	-
	T	1.5 - 2	≥ 355	510 - 680	≥ 14	-	-	-	-
		2 - 2.5			≥ 15				
		2.5 - 3			≥ 16				
		3 - 16		470 - 630	-	≥ 20			
		16 - 20	≥ 345						
S355J0 EN 10025-2	L	6 - 20	-	-	-	-	-	≥ 27	-
	T	1.5 - 2	≥ 355	510 - 680	≥ 14	-	-	-	-
		2 - 2.5			≥ 15				
		2.5 - 3			≥ 16				
		3 - 16		470 - 630	-	≥ 20			
		16 - 20	≥ 345						
S355J0 AM FCE	L	6 - 20	-	-	-	-	-	≥ 27	-
	T	1.5 - 2	≥ 355	510 - 680	≥ 14	-	-	-	-
		2 - 2.5			≥ 15				
		2.5 - 3			≥ 16				
		3 - 16		470 - 630	-	≥ 20			
		16 - 20	≥ 345						
S355J2 EN 10025-2	L	6 - 20	-	-	-	-	-	-	≥ 27
	T	1.5 - 2	≥ 355	510 - 680	≥ 14	-	-	-	-
		2 - 2.5			≥ 15				
		2.5 - 3			≥ 16				
		3 - 16		470 - 630	-	≥ 20			
		16 - 20	≥ 345						
S355J2 AM FCE	L	6 - 20	-	-	-	-	-	-	≥ 27
	T	1.5 - 2	≥ 355	510 - 680	≥ 14	-	-	-	-
		2 - 2.5			≥ 15				
		2.5 - 3			≥ 16				
		3 - 16		470 - 630	-	≥ 20			
		16 - 20	≥ 345						
S355J2+N EN 10025-2	L	6 - 20	-	-	-	-	-	-	≥ 27
	T	1.5 - 2	≥ 355	510 - 680	≥ 14	-	-	-	-
		2 - 2.5			≥ 15				
		2.5 - 3			≥ 16				
		3 - 16		470 - 630	-	≥ 20			
		16 - 20	≥ 345						

S355K2+N AM FCE	L	6 - 20	-	-	-	-	-	-	≥ 40
	T	2 - 2.5	≥ 355	510 - 680	≥ 15	-	-	-	-
		2.5 - 3			≥ 16				
		3 - 16		470 - 630	-	≥ 20			
		16 - 20	≥ 345						
Grades in italics: not included in the standard										

CHEMICAL COMPOSITION

	C (%)	Mn (%)	P (%)	S (%)	Si (%)	Al (%)	Cu (%)	N (%)	C_{eq} (%)	Galvanisation
S185 EN 10025-2	-	-	-	-	-	-	-	-	-	No
S235JR EN 10025-2	≤ 0.17	≤ 1.40	≤ 0.035	≤ 0.035	-	-	≤ 0.55	≤ 0.012	≤ 0.35	No
S235JR-CL1 AM FCE	≤ 0.17	≤ 1.40	≤ 0.025	≤ 0.030	≤ 0.03	≥ 0.010	≤ 0.55	≤ 0.009	≤ 0.35	Class 1
S235J0 EN 10025-2	≤ 0.17	≤ 1.40	≤ 0.030	≤ 0.030	-	-	≤ 0.55	≤ 0.012	≤ 0.35	No
S235J0 AM FCE	≤ 0.17	≤ 1.40	≤ 0.030	≤ 0.030	**≤ 0.03**	-	≤ 0.55	**≤ 0.009**	≤ 0.35	Class 1
S235J2 EN 10025-2	≤ 0.17	≤ 1.40	≤ 0.025	≤ 0.025	-	≥ 0.020	≤ 0.55	-	≤ 0.35	No
S235J2 AM FCE	≤ 0.17	≤ 1.40	≤ 0.025	≤ 0.025	**≤ 0.03**	≥ 0.020	≤ 0.55	-	≤ 0.35	Class 1
S235J2+N EN 10025-2	≤ 0.17	≤ 1.40	≤ 0.025	≤ 0.025	-	≥ 0.020	≤ 0.55	-	≤ 0.35	No
S235J2+N AM FCE	**0.130 - 0.170**	≤ 1.40	≤ 0.025	**≤ 0.020**	**≤ 0.03**	**0.015 - 0.070**	**≤ 0.15**	**≤ 0.007**	≤ 0.35	Class 1
S275JR EN 10025-2	≤ 0.21	≤ 1.50	≤ 0.035	≤ 0.035	-	-	≤ 0.55	≤ 0.012	≤ 0.40	No
S275JR AM FCE	≤ 0.21	≤ 1.50	≤ 0.035	**≤ 0.025**	-	-	≤ 0.55	≤ 0.012	≤ 0.40	No
S275J0 EN 10025-2	≤ 0.18	≤ 1.50	≤ 0.030	≤ 0.030	-	-	≤ 0.55	≤ 0.012	≤ 0.40	No
S275J0 AM FCE	**0.040 - 0.180**	≤ 1.50	**≤ 0.025**	**≤ 0.020**	**≤ 0.03**	-	**≤ 0.20**	**≤ 0.009**	≤ 0.40	Class 1
S275J2 EN 10025-2	≤ 0.18	≤ 1.50	≤ 0.025	≤ 0.025	-	≥ 0.020	≤ 0.55	-	≤ 0.40	No
S275J2 AM FCE	≤ 0.18	≤ 1.50	≤ 0.025	≤ 0.025	**≤ 0.03**	≥ 0.020	≤ 0.55	**≤ 0.012**	≤ 0.40	Class 1
S275J2+N EN 10025-2	≤ 0.18	≤ 1.50	≤ 0.025	≤ 0.025	-	≥ 0.020	≤ 0.55	-	≤ 0.40	No
S275J2+N AM FCE	≤ 0.18	≤ 1.50	≤ 0.025	**≤ 0.020**	**≤ 0.03**	≥ 0.020	≤ 0.55	**≤ 0.012**	≤ 0.40	Class 1
S355JR EN 10025-2	≤ 0.24	≤ 1.60	≤ 0.035	≤ 0.035	≤ 0.55	-	≤ 0.55	≤ 0.012	≤ 0.45	No
S355JR AM FCE	**≤ 0.20**	≤ 1.60	≤ 0.035	**≤ 0.020**	**≤ 0.50**	-	≤ 0.55	**≤ 0.009**	≤ 0.45	No
S355J0 EN 10025-2	≤ 0.20	≤ 1.60	≤ 0.030	≤ 0.030	≤ 0.55	-	≤ 0.55	≤ 0.012	≤ 0.45	No
S355J0 AM FCE	≤ 0.20	≤ 1.60	**≤ 0.025**	**≤ 0.020**	**≤ 0.03**	**0.020 - 0.080**	≤ 0.55	**≤ 0.009**	≤ 0.45	Class 1
S355J2 EN 10025-2	≤ 0.20	≤ 1.60	≤ 0.025	≤ 0.025	≤ 0.55	≥ 0.020	≤ 0.55	-	≤ 0.45	No
S355J2 AM FCE	≤ 0.20	≤ 1.60	≤ 0.025	**≤ 0.015**	**≤ 0.03**	**0.020 - 0.080**	≤ 0.55	**≤ 0.009**	≤ 0.45	Class 1
S355J2+N EN 10025-2	≤ 0.20	≤ 1.60	≤ 0.025	≤ 0.025	≤ 0.55	≥ 0.020	≤ 0.55	-	≤ 0.45	No
S355J2+N AM FCE	**0.120 - 0.200**	≤ 1.60	≤ 0.025	**≤ 0.015**	**≤ 0.25**	**0.020 - 0.080**	≤ 0.55	**≤ 0.008**	≤ 0.45	Class 3
S355K2 EN 10025-2	≤ 0.20	≤ 1.60	≤ 0.025	≤ 0.025	≤ 0.55	≥ 0.020	≤ 0.55	-	≤ 0.45	No
S355K2+N EN 10025-2	≤ 0.20	≤ 1.60	≤ 0.025	≤ 0.025	≤ 0.55	≥ 0.020	≤ 0.55	-	≤ 0.45	No
S355K2+N AM FCE	≤ 0.20	≤ 1.60	≤ 0.025	**≤ 0.015**	**0.15 - 0.25**	≥ 0.020	≤ 0.55	**≤ 0.009**	≤ 0.45	Class 3
Grades in italics: not included in the standard										
Values in bold: tighter than the standard										