Steels for constructions

S 275 JR + AR
S 355 JR + AR
S 355 J2 + N
EN 10025 - 2

Applications

All applications in civil and industrial constructions. All plates are supplied with quality certificates.

Mechanical properties for flat products

	YIELD STRENGHT Re H N/mm^2								TENSILE STRENGTH Rm N/mm^2			
	(thickness in mm)								*(thickness in mm)*			
STEEL GRADE	≤ 16	16÷40	40÷63	63÷80	80÷100	100÷150	150÷200	200÷250	≤ 3	3÷100	100÷150	150÷250
S 275 JR+AR	275	265	255	245	235	225	215	205	430-580	410-560	400-540	380-540
S 355 J2+N	355	345	335	325	315	295	285	275	510-680	470-630	450-630	450-630

S355JR CHEMICAL ANALYSIS CERTIFICATE

	ELONGATION - %																			
	LONGITUDINAL										TRANSVERSE									
	$L_o=80$ mm *(Thickness in mm)*					$L_o=5.65\sqrt{S_o}$ *(Thickness in mm)*					$L_o=80$ mm *(Thickness in mm)*					$L_o=5.65\sqrt{S_o}$ *(Thickness in mm)*				
STEEL GRADE	≤1	1÷1.5	1.5÷2.0	2÷2.5	2.5÷3	3÷40	40÷63	63÷100	100÷150	150÷250	≤1	1÷1.5	1.5÷20	2÷2.5	2.5÷3	3÷40	40÷63	63÷100	100÷150	150÷250
S 275 JR+AR	15	16	17	18	19	23	22	21	19	18	13	14	15	16	17	23	22	21	19	18
S 355 J2+N	14	15	16	17	18	22	21	20	18	17	12	13	14	15	16	20	19	18	18	17

S355JR CHEMICAL ANALYSIS CERTIFICATE

Indicated values apply to longitudinal specimen for tensile strength test.
For plates, strips and wide strips 600 mm wide, transversal specimen are used.

Available thicknesses

S 275 JR+AR	8 mm - 100 mm
S 355 JR+AR	100 mm - 250 mm
S 355 J2+N	5 mm - 150 mm

- Coils and cut to length in width 1500 and 2000 mm in S275 JR+AR and S355 J2+N

AQ acciai di qualità

Edition 03-2017

Steels for constructions

S 275 JR + AR
S 355 JR + AR
S 355 J2 + N

EN 10025 - 2

Mechanical properties

STEEL GRADE	Temperature *°C*	impact test (J) *(thickness in mm)* 10÷150	150÷250
S 275 JR+AR	20	27	23
S 355 J2+N	-20	27	23

S355JR CHEMICAL ANALYSIS CERTIFICATE

Chemical composition - % (heat analysis)

STEEL GRADE	C in % max *(thickness in mm)* ≤16	16÷40	*max* >40	Mn *max*	Si *max*	P *max*	S *max*	N *max*
S 275 JR+AR	0.21	0.21	0.22	1.50	-	0.035	0.035	0.012
S 355 JR+AR	0.24	0.24	0.24	1.60	0,55	0.035	0.035	0.012
S 355 J2+N	0.20	0.20	0.22	1.60	0.55	0.025	0.025	-