

Construction plates



Quality	S690QL
Standard	EN 10025-6
Certification	3.1 or 3.2 EN10204
Heattreatment	Quenched (+tempered)

Mechanical properties

Thickness in mm	Min. Yield (Mpa)	Tensile strength (Mpa)	Min. Elongation (%)	Min. Impact Energy (KV J longitudinal) -40°
>3 <= 50	690	770 - 940	14	30
> 50 <= 100	650	760 - 930	14	30
>100 <= 150	630	710 - 900	14	30

Chemical composition

C/ (mm) max.	C/ (mm) max.	C/ (mm) max.	Si max.	Mn max.	P (all) max.	P (L / L1) max.	S (all) max.	S (L / L1) max.	N max.	B max.	Cr max.	Cu max.	Mo max.	Nb max.	Ni max.	Ti max.	V max.	Zr max.
<= 16 mm	>16 <=40 mm	>40 mm																
0.20	0.20	0.20	0.800	1.700	0.025	0.020	0.015	0.010	0.015	0.005	1.50	0.50	0.70	0.06	2.00	0.05	0.12	0.15

Maximum CEV:

<= 50	0.65
> 50 <= 100	0.77
>100 <= 150	0.83

