

Structural plates



Quality	S460ML
Standard	EN 10025-4
Certification	3.2 EN10204
Heattreatment	Thermomechanical rolled

Mechanical properties

Thickness in mm	Min. Yield (Mpa)	Tensile strength (Mpa)	Min. Elongation (%)	Min. Impact Energy (KV J longitudinal) -50°
>3 <= 16	460	540 - 720	17	27
> 16 <= 25	440	540 - 720	17	27
> 25 <= 40	440	540 - 720	17	27
>40 <= 63	430	530 - 710	17	27
>63 <= 80	410	510 - 690	17	27
>80 <= 100	400	500 - 580	17	27
>100 <= 120	385	490 - 660	17	27

Chemical composition

C/ (mm) max.	C/ (mm) max.	C/ (mm) max.	Si max.	Mn max.	P max.	S max.	Nb max.	V max.	Al total max.	Ti max.	Cr max.	Ni max.	Mo max.	Cu max.	N max.
<= 16 mm	>16 <=40 mm	>40 mm													
0.16	0.16	0.16	0.600	1.700	0.025	0.020	0.050	0.120	0.020	0.050	0.30	0.80	0.20	0.550	0.025

Maximum

CEV:

t <= 16	0.45
> 16 < t <= 40	0.46
> 40 < t <= 63	0.47
> 63 < t <= 120	0.48
> 120 < t <= 150	0.48

