

QUARTO PLATES

Grade: S690QL1

High Strength Steel

Grade	S690QL1
Norm	EN10025-6
W. Nr.	1.8988
Rolling State	AR- Grezzo di laminazione
Description	S690QL1 is a high strength fine grained quenched and tempered structural steel. It is required for additional strength and/or to save weight.
Applications	Heavy road vehicles (chassis and dumper bodies), booms of mobile cranes, structural steelworks (bridges, bridge components, components for offshore structures), pressure vessels, storage tanks, power plants, materials handling (lifting and mobile equipment), roof supports, agricultural equipment and trailers.

Standard coils' stock range

Quarto plates 2500x12000	
15	•
20	•
25	•
30	•
40	•

At times, some of the dimensions listed here might be unavailable: please make sure to get in touch with our sales department for a real-time update about the actual stock availability.

Chemical composition According to UNI EN 10025-6

Element	Al	B	C	Ceq	Cr	Cu	Mo	Mn	N
Min.									
Max	0,015		0,200		1,500		0,700	1,700	

Element	Ni	Nb	P	S	Si	Sn	Ti	V	Zr
Min.									
Max	2,000		0,020	0,005	0,800				

Mechanical properties According to EN10025-6

Nominal Thickness (mm)	≤ 50	50<t≤100	>100
Yield Strenght (MPa)	≥690	≥650	≥630

Nominal Thickness (mm)	≤ 50	50<t≤100	>100
Tensile Strenght (MPa)	770-940	760-930	710-900

Nominal Thickness (mm)	≤ 50	50<t≤100	>100
Total Elongation A5%	14	14	14

Temperature (°C)	-60°C	-40°C	-20°C	0°C
Longitudinal Notch Impact Energy (J)	30	40	50	60
Transversal Notch Impact Energy (J)	27	30	35	40

Tolerances

Dimensional Tolerances
UNI EN 10029 Cl. B

Surface Status
UNI EN 10163-3

Equivalences

W. Nr.	Germany DIN
1.8988	EStE690V

Certifications

MTC according to EN10204-3,1

CE / Declaration of Performance

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