

STEEL PLATES FROM HOT ROLLED COILS

Grade: P355NL2

Pressure Vessel Steel

Grade **P355NL2**

Norm **EN10028-3**

W. Nr. **1.1106**

Rolling state **N – Normalized**

Description High resistance to brittle cracking. Good weldability and good cold and hot-forming properties when it is rolled under normalised conditions

Applications Vessels for pressurised gas, pressure vessels, steam boiler parts, pressure piping, compressors and heat exchangers.

Standard coils' stock range

	1500	2000
3	•	
4	•	
5	•	•
6	•	•
8	•	•
10	•	•
12		•
15		•

Dimensions other than the ones listed here can be sourced on agreement.

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 10028-3

Element	Al	B	C	Ceq	Cr	Cu	Mo	Mn	N
Min.	0,02							1,10	
Max			0,18		0,30	0,30	0,08	1,70	0,012

Element	Ni	Nb	P	S	Si	Sn	Ti	V	Zr
Min.									
Max	0,50	0,05	0,020	0,010	0,50		0,03	0,10	

$$\text{Nb+V+Ti} \leq 0,12$$

Mechanical properties According to UNI EN 10028-2

Nominal Thickness (mm)	≤ 16	> 16
Yield Strength (MPa)	≥ 355	≥ 345

Nominal Thickness (mm)	$16 < t \leq 60$
Tensile Strength (MPa)	490-630

Nominal Thickness (mm)	≤ 60
Total Elongation A5%	≥ 22

Temperatures (°C)	-50	-40	-20	0	20
Longitudinale Notch Impact Energy (J)	≥ 42	≥ 45	≥ 55	≥ 75	≥ 85
Transversal Notch Impact Energy (J)	≥ 27	≥ 30	≥ 40	≥ 60	≥ 70

Tolerances

Dimensional Tolerances

UNI EN 10051

Surface Status

UNI EN 10163-2

Equivalences

W. Nr.	Germany DIN	England BS
1.1106	EstE 355	225-490A

Certifications

■ EN10204-3.1

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