

STEEL PLATES FROM HOT ROLLED COILS

Grade: P275NL2

Pressure Vessel Steel

Grade **P275NL2**

Norm **EN10028-3**

W. Nr. **1.104**

Rolling state **N – Normalized**

Description Weldable fine-grain structural steel for pressure vessels. 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

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.

	1800	2000
4	•	
5	•	•
6	•	•
7	•	•
8	•	•
10	•	•
12	•	•
15	•	•

Chemical composition According to UNI EN 10028-3

Element	Al	B	C	Ceq	Cr	Cu	Mo	Mn	N
Min.	0,02							0,80	
Max			0,16		0,30	0,30	0,08	1,50	0,012

Elemento	Ni	Nb	P	S	Si	Sn	Ti	V	Zr
Min.									
Max	0,50	0,05	0,020	0,010	0,40		0,03	0,05	

Mechanical properties According to UNI EN 10028-3

Nominal Thickness (mm)	≤ 16	> 16
Yield Strenght (MPa)	≥ 275	≥ 265

Nominal Thickness (mm)	16 < t ≤ 60
Tensile Strenght (MPa)	390-510

Nominal Thickness (mm)	< 60
Total Elongation A5% (MPa)	≥ 24

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.	ASTM ASME	England BS	Germany DIN
1.104	A516-60	224-400A	EstE285

Certifications

- EN10204-3.1
- PED/97/23/EC
- AD2000W1

DISCLAIMER: while great care has been taken to ensure the accuracy of all information contained in this document, Siderurgica Astico S.p.A. hereby disclaims any and all responsibility or liability that may be asserted or claimed arising from, or claimed to have arisen from, reliance upon the use or the interpretation of this document by any person. This document may be subject to change at any time without warning.