SIDASTICO
passion for steel

STEEL PLATES FROM HOT ROLLED COILS
Grade: P275NH
Pressure Vessel Steel

Grade	**P275NH**
Norm	**EN10028-3**
W. Nr.	**1.0487**
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

	1500	1700/1800	2000
3	•	•	
3,2			•
3,5		•	
4	•	•	
5	•		•
6	•	•	•
7		•	•
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							0,80	
Max			0,16		0,30	0,30	0,08	1,50	0,012

Element	Ni	Nb	P	S	Si	Sn	Ti	V	Zr
Min.									
Max	0,50	0,05	0,025	0,015	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

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

Temperature (°C)	-20	0	20
Longitudinale Notch Impact Energy (J)	≥ 45	≥ 65	≥ 75
Transversal Notch Impact Energy (J)	≥ 30	≥ 40	≥ 50

Tolerances

Dimensional Tolerances
UNI EN 10051

Surface Status
UNI EN 10163-2

Equivalences

W. Nr.	ASTM ASME	England BS	Germany DIN	Italy UNI
1.0487	A516-60	224-400A	WstE285	Fe E 285 KW

Certifications

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

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