

STEEL PLATES FROM HOT ROLLED COILS

Grade: S355J2W+N

Weather Resistant Steel

Quality **S355J0WP+AR**

Norm **EN10025-5:2004**

W. Nr. **1.8965**

Rolling state **N – normalized**

Description Structural steel with improved atmospheric corrosion resistance. Weather-resistant steel in flue gas structures prolongs the service life of chimneys and flue gas ducts.

Applications Architectural elements, furnishing, bridges, chimneys, guard-rails, water pipes, containers and vehicle construction.

Standard coils' stock range

	S355J2W+N	1000	1250	1500	2000
3	•	•	•		
4			•	•	•
5			•	•	•
6	•			•	•
7	•				•
8	•			•	•
10	•			•	•
12	•			•	

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 the norm**

Element	Al	B	C	Ceq	Cr	Cu	Mo	Mn	N
Min.					0,40	0,25		0,50	
Max			0,16		0,80	0,55	0,03	2	

Element	Ni	Nb	P	S	Si	Sn	Ti	V	Zr
Min.									
Max	0,65		0,03	0,030	0,50				0,150

Mechanical properties **According to UNI EN 10025**

Nominal Thickness (mm)	≤ 16	> 16		
Yield Strenght (MPa)	≥ 355	≥ 345		
Nominal Thickness (mm)	≤ 3	> 3		
Tensile Strenght (MPa)	510 - 680	470 - 630		
Nominal Thickness (mm)	1,5<t ≤2	2<t ≤2,5	2,5<t <3	t ≥3
Total Elongation A80%	≥ 16/14	≥ 17/15	≥ 18/16	
Total Elongation A5%				≥ 22/20

Temperature (°C)	0°C
Notch Impact Energy (J)	≥ 27

Tolerances
Dimensional Tolerances

UNI EN 10051

Surface Status

UNI EN 10163-2

Equivalences

W. Nr.	USX CORP (proprietary)	ASTM ASME	England BS	France AFNOR
1.8965	COR-TEN B®	WTSt-52-3	WR50C	SMA50CP

Certifications

- EN10204-3.1
- CE / Declaration of Performance

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