SSABWeathering355® | STEEL RESISTANT TO CORROSION CAUSED BY ATMOSPHERIC EVENTS

STANDARD	EN 10025-5
IDENTIFICATION NUMBER	1.8959
CLASSIFICATION	Special structural steel
TYPE	Alloy steel resistant to atmospheric corrosion Steel
ROLLING STATE	AR - Rolling blank
BRIEF DESCRIPTION	High-strength weathering structural steel designed to provide excellent resistance to atmospheric corrosion. Thanks to alloying elements such as copper, chromium and phosphorus, it naturally develops a protective surface layer that reduces the corrosion rate and increases the service life of the component.
APPLICATIONS	Architectural facades, urban furniture, infrastructure projects and applications exposed to atmospheric conditions.

STANDARD COIL STOCK RANGE

SSABWeathering355®	1250	1500
0.6		•
0.8	•	•
1	•	•
1.2	•	•
1.5	•	•

CHEMICAL COMPOSITION

Regulatory standard

C (%)	Si (%)	Mn (%)	P (%)	S (%)	Al (%)	Nb (%)	Ti (%)	V (%)	Mo (%)	Cu (%)
≤ 0.16	≤ 0.50	≤ 1.50	≤ 0.035	≤ 0.03						0.25-0.55

Cr (%)	Ni (%)	N (%)	B (%)	Nb+Ti+V (%)	Cr+Mo+Ni (%)	Ni+Cr+Cu+Mo (%)	C.E.V. (%)
0.40-0.80	≤ 0.65						

C.E.V. (%) = C+(Mn/6)+[(Cr+Mo+V)/5]+[(Ni+Cu)/15]

MECHANICAL PROPERTIES

According to UNI EN 10025-5

Mechanical characteristics	Direction	Thicknesses	Values
R_e (MPa)	T	≤ 3	≥ 355
R_m (MPa)	T	≤ 3	470-630
A_{80} (%)			
A_5 (%)	T	≤ 3	≥ 20
Bend Test 180°			
KV 20°C (J)			
KV 0°C (J)			
KV -20°C (J)			
KV -40°C (J)			
KV -50°C (J)			

** = Standard option*
t = thickness in mm of the test piece for the bend test
L = Tensile testing carried out on longitudinal test pieces
T = Bend tests carried out on cross-cut test pieces

TOLERANCES

Dimensions and shape: EN 10051

Surface quality: EN 10163-2

CERTIFICATIONS

EN 10204 - 3.1

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