Manufacturer

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Customer

Heavy Industries Construction AB

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Digital Material Passport

ID	DMP-METAL-EN10029-001	*Version*	1.0.0
Issue Date	2025-05-20	*Certificate Type*	EN 10204 3.1

Business Transaction

Order		**Delivery**	
Order ID	PO-2025-1547	*Delivery ID*	DN-2025-8854
Position	10	*Position*	10
Date	2025-04-10	*Date*	2025-05-20
Quantity	24800 kg	*Quantity*	24800 kg

Product Information

Product Name	Hot-rolled structural steel plate S355J2+N
Batch ID	H-58742-12
Surface Condition	Hot-rolled
Production Date	2025-05-18
Country of Origin	DE
Delivery Condition	+N - Normalized
Tolerance Standard	EN 10029:2010
Thickness Tolerance	Class B - Fixed -0.3mm
Flatness Tolerance	Class S - Special (tighter)
Edge Condition	Trimmed (G)

Product Norms

Standard	EN 10025-2 (2019)
Standard	EN 10029 (2010)

Material Designations

Number (EN)	1.0577
Name (Material)	S355J2+N

Product Shape

Form	Plate
Length	4500 mm
Width	2000 mm
Thickness	25 mm

Chemical Analysis

Heat Number	H-58742
Melting Process	BOF+LF
Casting Date	2025-05-17
Casting Method	ContinuousCasting
Sample Location	Ladle

Elements

Symbol	**C**	**Mn**	**Si**	**P**	**S**
Unit	%	%	%	%	%
Min	-	-	-	-	-
Max	0.2	1.6	0.5	0.025	0.02
Actual	0.18	1.52	0.28	0.015	0.009

Mechanical Properties

Property	*Symbol*	*Actual*	*Minimum*	*Maximum*	*Method*	*Status*
Tensile Strength At room temperature	Rm	515MPa	470MPa	630MPa	EN ISO 6892-1	-
Yield Strength At room temperature	ReH	378MPa	355MPa		EN ISO 6892-1	-
Elongation after fracture At room temperature, $L0=5.65\sqrt{S0}$	A	24%	20%		EN ISO 6892-1	-
Charpy V-notch Impact - Energy At -20°C, longitudinal	KV	45J	27J		EN ISO 148-1	-

Supplementary Tests

Property	*Actual*	*Target/Min*	*Maximum*	*Method*	*Status*
Thickness Measured at 4 points	24.8mm	24.7mm	26.3mm	EN 10029	✓
Flatness Deviation Measuring length 2000mm, Steel type L	7mm	-	10mm	EN 10029	✓
Edge Camber Measured over full length	8mm	-	11.25mm	EN 10029	✓
Out-of-Squareness Measured at corners	15mm	-	20mm	EN 10029	✓

Validation

We hereby certify that all material described above has been manufactured and tested in accordance with the requirements of EN 10025-2:2019, EN 10029:2010, and EN 10204:2004 type 3.1. The results comply with the requirements for S355J2+N steel grade and dimensional tolerances class B-S-G.

Validated By

Name	*Title*	*Department*	*Date*
Dr. Werner Schmidt	Head of Quality Control	Quality Assurance	2025-05-20

Data schema maintained by Material Identity. https://schemas.materialidentity.org/metals-schemas/v0.1.1/schema.json