



Customer

Global Steel Trading Ltd.

Commerce Way 789
2000Antwerp
BE
orders@globalsteel.example.com

Manufacturer

ACME Metal Works GmbH

Industrial Park 123
52066Aachen
DE
quality@acme-metal.example.com

Goods Receiver

Global Steel Trading Ltd. - Rotterdam Warehouse

Harbor District 45
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NL

Digital Material Passport

ID	DMP-METAL-006	Version	1.0.0
Issue Date	2025-05-18	Certificate Type	EN 10204 3.1

Business Transaction

Order	Delivery		
Order ID	Delivery ID		
Position	Position	All	
Date	Date	2025-05-17	
Quantity	Quantity	75000 kg	

Specification

Name	1180-1/ ISO GENERIC - HR	Revision	2024-11-07
Creator	Nordic Metals AB	Base Standard	ISO 683-1

Product Information

Product Name	Structural Steel S355J2+N - Various Shapes
Batch ID	H-79513-03
Surface Condition	Hot-rolled
Production Date	2025-05-16
Country of Origin	DE

Customs Classification

HS Code	721633
Standard Description	H sections of iron or non-alloy steel
CN8 (EU)	72163300
Description (EU)	H-sections of iron or non-alloy steel
HTS (US)	7216330000
Description (US)	H-sections of iron or nonalloy steel

Product Norms

Standard	EN 10025-2 (2019)
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Material Designations

Name (EN)	1.0577
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Packaging and Marking

Marking
S355J2+N laser marked on web surface with clear legibility.

Packaging

Crated bundles of 10 pieces with steel straps in good condition.

Chemical Analysis

Heat Number	H-79513
Melting Process	BOF+LF
Casting Date	2025-05-15
Casting Method	Continuous Casting
Sample Location	Ladle

Elements

Symbol	C	Mn	Si	P	S	CEV
Unit	%	%	%	%	%	%
Min	-	-	-	-	-	-
Max	0.2	1.6	0.5	0.025	0.02	0.45
Actual	0.17	1.47	0.25	0.017	0.011	0.42

Formula Definitions

$$\text{CEV} = \text{C} + \text{Mn}/6 + (\text{Cr} + \text{Mo} + \text{V})/5 + (\text{Ni} + \text{Cu})/15: 0.42\%$$

Mechanical Properties

Property	Symbol	Actual	Minimum	Maximum	Method	Status
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Tensile Strength 3 specimens tested					EN ISO 6892-1	-
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Individual Values		# 1		# 2		# 3
Value [MPa]		523		525		527

Statistics	Mean	Min/Max	Std Dev
	525	523 / 527	

Yield Strength 3 specimens tested					EN ISO 6892-1	-
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Individual Values		# 1		# 2		# 3
Value [MPa]		383		385		387

Statistics	Mean	Min/Max	Std Dev
	385	383 / 387	

Elongation after fracture 3 specimens tested					EN ISO 6892-1	-
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Individual Values		# 1		# 2		# 3
Value [%]		22.5		23		23.5

Statistics	Mean	Min/Max	Std Dev
	23	22.5 / 23.5	

Charpy V-notch Impact Energy 3 specimens tested at -20°C					EN ISO 148-1	-
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Individual Values		# 1		# 2		# 3
Value [J]		40		42		44

Statistics	Mean	Min/Max	Std Dev
EN ISO 148-1 statistical analysis	42	40 / 44	2 (Sample)

Validation

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

Validated By

<i>Name</i>	<i>Title</i>	<i>Department</i>	<i>Date</i>
Klaus Müller	Quality Control Manager	Quality Assurance	2025-05-18

Data schema maintained by [Material Identity](#).

<https://schemas.materialidentity.org/metals-schemas/v0.1.1/schema.json>