



Customer

Global Steel Trading Ltd.  
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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  
Pier 7  
3089Rotterdam  
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

<b>Order</b>		<b>Delivery</b>	
Order ID	PO-65478	Delivery ID	DN-98761
Position	1-10	Position	All
Date	2025-04-15	Date	2025-05-17
Quantity	75000 kg	Quantity	75000 kg
<b>Specification</b>			
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	ContinuousCasting
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

CEV = C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15: 0.42%

Mechanical Properties

Property	Symbol	Actual	Minimum	Maximum	Method	Status
Tensile Strength					EN ISO 6892-1	-
3 specimens tested						

Individual Values	# 1	# 2	# 3
Value [MPa ]	523	525	527
Statistics	Mean	Min/Max	Std Dev
	525	523 / 527	

Yield Strength					EN ISO 6892-1	-
3 specimens tested						

Individual Values	# 1	# 2	# 3
Value [MPa ]	383	385	387
Statistics	Mean	Min/Max	Std Dev
	385	383 / 387	

Elongation after fracture					EN ISO 6892-1	-
3 specimens tested						

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					EN ISO 148-1	-
3 specimens tested at -20°C						

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>