ACME METALS

Manufacturer

ACME Metal Works GmbH

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

Customer

Global Steel Trading Ltd.

Commerce Way 789
2000Antwerp
BE
orders@globalsteel.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

Order

Order ID	PO-65478
Position	1-10
Date	2025-04-15
Quantity	75000 kg

Delivery

Delivery ID	DN-98761
Position	All
Date	2025-05-17
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

Designation	EN 10025-2 (2019)
Grade	S355J2+N

Material Designations

System	EN
Designation	1.0577

Delivery Conditions

Marking

Type	Laser
Content	S355J2+N
Location	Web surface
Legibility	Clear

Bundles

Type	Crated
Quantity	10
Material	Steel straps
Condition	Good

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 3 specimens tested					EN ISO 6892-1	-

Individual Values	# 1	# 2	# 3
Value [MPa]	523	525	527

Statistics	**Mean**	**Min/Max**	**Std Dev**
	525.0	523 / 527	

Yield Strength 3 specimens tested					EN ISO 6892-1	-

Individual Values	# 1	# 2	# 3
Value [MPa]	383	385	387

Statistics	**Mean**	**Min/Max**	**Std Dev**
	385.0	383 / 387	

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

Individual Values	# 1	# 2	# 3
Value [%]	22.5	23.0	23.5

Statistics	**Mean**	**Min/Max**	**Std Dev**
	23.0	22.5 / 23.5	

Charpy V-notch Impact Energy 3 specimens tested at -20°C					EN ISO 148-1	-

Individual Values	# 1	# 2	# 3
Value [J]	40	42	44

Statistics	**Mean**	**Min/Max**	**Std Dev**
EN ISO 148-1 statistical analysis	42.0	40 / 44	2.0 (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

Name	*Title*	*Department*	*Date*
Klaus Müller	Quality Control Manager	Quality Assurance	2025-05-18

Data schema maintained by Material Identity. https://schemas.materialidentity.org/metals-schemas/v0.1.0/schema.json