ACME METALS

Manufacturer

ACME Metal Works GmbH

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

Customer

Global Steel Trading Ltd.

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

Goods Receiver

Global Steel Trading Ltd. - Rotterdam Warehouse

Harbor District 45
Pier 7
3089 Rotterdam
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	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

Product Information

Product Name	Structural Steel S355J2+N - Various Shapes
Batch ID	H-79513-03
Heat Treatment	Normalized
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

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	Rm	525 MPa	470	630	EN ISO 6892-1	-
Yield Strength	ReH	385 MPa	355		EN ISO 6892-1	-
Elongation after fracture	A	23 %	20		EN ISO 6892-1	-
Charpy V-notch Impact - Energy	KV	42 J	27		EN ISO 148-1	-

Supplementary Tests

Property	*Actual*	*Target/Min*	*Maximum*	*Method*	*Status*
Product Details -- Item 1: IPE - Beam	Array data (see below)	-		Dimensional Inspection	✓

Parameter	Value	Unit
Form		
Beam		
Height		
200		
mm		
FlangeWidth		
100		
mm		
FlangeThickness		
8.5		
mm		
WebThickness		
5.6		
mm		
Length		
12000		
mm		
Quantity		
15		
pieces		
Weight		
15000		
kg		

Product Details -- Item 2: HEA - Beam	Array data (see below)	-		Dimensional Inspection	✓

Parameter	Value	Unit
Form		
Beam		
Height		
240		
mm		
FlangeWidth		
240		
mm		
FlangeThickness		
12		
mm		
WebThickness		
7.5		
mm		
Length		
8000		
mm		
Quantity		
20		
pieces		
Weight		
20000		
kg		

Product Details -- Item 3: Angle	Array data (see below)	-		Dimensional Inspection	✓

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