



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

Digital Material Passport

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

Business Transaction

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

Product Information

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

Product Norms

<i>Designation</i>	EN 10025-2 (2019)
<i>Grade</i>	S355J2+N

Material Designations

<i>System</i>	EN
<i>Designation</i>	1.0577

Chemical Analysis

<i>Heat Number</i>	H-79513
<i>Melting Process</i>	BOF+LF
<i>Casting Date</i>	2025-05-15
<i>Sample Location</i>	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

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/v0.0.1/schema.json). <https://schemas.materialidentity.org/metals-schemas/v0.0.1/schema.json>