

<b>Customer</b>  <b>Bridge Constructors Europe Ltd.</b>  Engineering Plaza 456 75001 Paris, FR <a href="mailto:procurement@bridgeconstructors.example.com">procurement@bridgeconstructors.example.com</a>	<b>Manufacturer</b>  <b>ACME Metal Works GmbH</b>  Industrial Park 123 52066 Aachen, DE <a href="mailto:quality@acme-metal.example.com">quality@acme-metal.example.com</a>
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### Digital Material Passport

ID	DMP-METAL-007	Version	1.0.0
Issue Date	2025-05-20	Certificate Type	EN 10204 3.1

### Business Transaction

Order		Delivery	
Order ID	PO-98765	Delivery ID	DN-12345
Position	5	Position	1
Date	2025-04-20	Date	2025-05-19
Quantity	20000 kg	Quantity	20000 kg

### Product Information

Product Name	Structural Steel S420N Plate
Batch ID	H-45678-01
Heat Treatment	Normalized
Surface Condition	Shot blasted and primed
Production Date	2025-05-18
Country of Origin	DE

### Material Designations

System	EN
Designation	1.8902

### Product Shape

Form	Plate
Length	12000 mm
Width	2500 mm
Thickness	25 mm

### Chemical Analysis

Heat Number	H-45678
Melting Process	EAF+LF+VD
Casting Date	2025-05-17
Sample Location	Ladle

Elements

Symbol	C	Mn	Si	P	S	Nb	V	Ti	CEV
Unit	%	%	%	%	%	%	%	%	%
Min	-	1.0	-	-	-	-	-	-	-
Max	0.22	1.7	0.6	0.025	0.02	0.05	0.05	0.03	0.48
Actual	0.16	1.38	0.32	0.016	0.008	0.022	0.034	0.009	0.4


Mechanical Properties

Property	Symbol	Unit	Actual	Minimum	Maximum	Method	Status
Tensile Strength	Rm	MPa	550	520	680	EN ISO 6892-1	✓
Yield Strength	ReH	MPa	440	420		EN ISO 6892-1	✓
Elongation after fracture	A	%	21	19		EN ISO 6892-1	✓
Charpy V-notch Impact Energy	KV	J	65	40		EN ISO 148-1	✓

Validation

We hereby certify that the material described above has been manufactured and tested in accordance with the requirements of EN 10025-3:2019 and EN 10204:2004 type 3.1. The product complies with the Construction Products Regulation (EU) No 305/2011 and is suitable for use in structural applications according to EN 1090-2:2018, up to and including Execution Class EXC3.

Validated By

Name	Title	Department	Date
John Smith	Quality Manager	Quality Assurance	2025-05-20
	Quality Manager	Quality Assurance	2025-05-20