

Customer

**Engineering Solutions Ltd.** 

Tech Park Way 45 Cardiff CF14 5DU GB

procurement@engisolutions.example.com

**Goods Receiver** 

**Canadian Construction Corp** 

777 Construction Ave Toronto, ONM5H 2N2 CA

logistics@canconstruct.example.ca

Manufacturer

**ACME Metal Works GmbH** 

Industrial Park 123 52066Aachen

DE

quality@acme-metal.example.com

Subcustomer

American Heavy Industries Inc.

5000 Industrial Blvd Building C Detroit, MI48201

US

materials@heavyind.example.com

**Digital Material Passport** 

ID DMP-METAL-002 Version 1.0.0

Issue Date 2025-05-14 Certificate Type EN 10204 3.1

**Business Transaction** 

 Order
 Delivery

 Order ID
 PO-78902
 Delivery ID
 DN-56790

Position 10 Position 1

 Date
 2025-04-21
 Date
 2025-05-13

 Quantity
 2000 kg
 Quantity
 2000 kg

DE

**Product Information** 

Product Name Structural Steel S420N

Batch IDH-10988-01Surface ConditionHot-rolledProduction Date2025-05-10

Country of Origin

**Product Norms** 

Designation EN 10025-3 (2019)

Grade S420N

**Material Designations** 

System EN
Designation 1.8902

**Product Shape** 

 Form
 Plate

 Length
 6000 mm

 Width
 2000 mm

Thickness 25 mm

## **Heat Treatment**

Process	Lot		Furnace	Date	
Normalizing	NORM-2024-08	NORM-2024-0823-A12		2024-08-23	
Stages					
Stage	Temperature	Duration	Cooling	Atmosphere	
Austenitizing	920 C	60 min		Air	
Cooling	20 C		Air		

# **Chemical Analysis**

Heat NumberH-10988Melting ProcessEAF+LF+VDCasting Date2025-05-09Casting MethodContinuousCastingSample LocationLadle

#### **Elements**

Symbol	С	Mn	Si	P	S	CEV
Unit	%	%	%	%	%	%
Min	-	-	-	-	-	-
Max	0.2	1.6	0.5	0.025	0.015	0.44
Actual	0.16	1.48	0.28	0.016	0.01	0.41

### **Formula Definitions**

**CEV** = C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15: 0.41%

## **Mechanical Properties**

**Individual Values** 

Stati		
✓		
# 3		
560		
Dev		
.0 nple)		
✓		
#3		
448		
Dev		
.0		
nple)		
EN ISO 6892-1		
#3		
25		
Dev		
.0		
(Sample)		
#3		
64		
Std Dev		
<b>2.0</b> ( Sample )		
✓		
#3		
60		
Std Dev		
2.0		
nple )		
✓		
#3		
59		
Dev		
Std Dev  2.5 (Sample)		
√		
# 5		
186		
Dev		
58		
nple)		

#3

#4

# 5

## **Validation**

We hereby certify that the material described above has been manufactured and tested in accordance with the requirements of EN 10204:2004 type 3.1 and the specified standards. The results comply with the requirements.

### **Validated By**

Name Title Department Date

Johann Weber Quality Inspector Quality Assurance 2025-05-14

Data schema maintained by Material Identity.

https://schemas.materialidentity.org/metals-schemas/v0.1.0/schema.json