

Declaration of performance (DoP) in acc. with

**Construction Products (Amendment etc.) (EU Exit) Regulations 2019 (No. 465)
Construction Products (Amendment etc.) (EU Exit) Regulations 2020 (No. 1359)**

No. SMGB016-UKCA-10025-01122022

1. Unique Identification Code of the product type:

Plate S420N in acc. with EN 10025-3

2. Type, Batch or serial number or any element allowing identification of the construction product:

Type, batch and plate number

3. Intended use or uses of the construction product in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

To be used in metal structures or in composite metal and concrete structures

4. Name, registered Trade Name or registered Trademark and contact address of the manufacturer:

**Salzgitter Mannesmann Grobblech GmbH
Sandstr. 140
45473 Mülheim, Germany
Tel. +49 208 458-4053
www.smgb.de**

5. Name and contact address of the authorised representative whose mandate covers the tasks:

- not applicable -

6. System or systems of assessment and verification of constancy of performance of the construction product:

System 2+

7. Declaration of performance concerning a construction product covered by a harmonised standard:

Approved body - British Board of Agrément (no. 0879) - performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control in accordance with annex ZA of EN 10025-1:2004.

8. Declared Performance:

Essential Characteristic	Performance				Harmonised technical Specification		
Tolerances on dimensions and shape	<i>in acc. with</i> EN 10029:2010				EN 10025-1:2004		
Yield Strength	Nominal thickness (mm)		Value R _{eH} (MPa)				
	>	≤	min				
		16	420				
	16	40	400				
	40	63	390				
	63	80	370				
	80	100	360				
100	150	340					
Tensile Strength	Nominal thickness (mm)		Value R _m (MPa)				
	>	≤	Min	max			
		100	520	680			
	100	150	500	650			
Elongation	Nominal thickness (mm)		Value A ₅ (%)				
	>	≤	min				
		16	19				
	16	40	19				
	40	63	19				
	63	80	18				
80	150	18					
Impact Strength longitudinal	Nominal thickness (mm)		Value (J/Temp. - 20°C)				
	≤		Min				
	150		40				
Weldability	Nominal thickness (mm)		Value CEV (%)				
	>	≤	max				
		63	0,48				
	63	100	0,50				
	100	150	0,52				
Durability	Nominal thickness (mm)		Value (%) (Ladle analysis)				
	>	≤	max.				
		150	C: 0,20 Si: 0,60 Mn: 1,00 - 1,70	P: 0,030 S: 0,025 Nb: 0,05	V: 0,20 Ti: 0,05 Cr: 0,30	Ni: 0,80 Mo: 0,10 Cu: 0,55	N: 0,025
	max. Alges. min: 0,02						

9. The performance of the product identified in Points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by:

Mülheim, 01.12.2022 **Henning Rackow**
Plant manager

This document is valid without signature