

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. SMGB024-UKCA-10025-01122022

1. Unique Identification Code of the product type:

Plate S420M in acc. with EN 10025-4

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	380			
	80	100	370			
100	150	365				
Tensile Strength	Nominal thickness (mm)		Value R _m (MPa)			
	>	≤	Min	max		
		40	520	680		
	40	63	500	660		
	63	80	480	650		
	80	100	470	630		
100	150	460	620			
Elongation	Nominal thickness (mm)		Value A ₅ (%)			
	>	≤	min			
		150	19			
Impact Strength longitudinal	Nominal thickness (mm)		Value (J/Temp. - 20°C)			
	≤		Min			
	150		40			
Weldability	Nominal thickness (mm)		Value CEV (%)			
	>	≤	max			
		16	0,43			
	16	40	0,45			
	30	63	0,46			
	63	120	0,47			
120	150	0,47				
Durability	Nominal thickness (mm)		Value (%) (Ladle analysis)			
	>	≤	max.			
		150	C: 0,16	P: 0,030	V: 0,12	Ni: 0,80
		150	Si: 0,50	S: 0,025	Ti: 0,05	Mo: 0,20
		150	Mn: 1,70	Nb: 0,05	Cr: 0,30	Cu: 0,55
	150	N: 0,025				
	150	min.				
	150	Al _{ges. 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