

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. SMGB038-UKCA-10025-01122022

1. Unique Identification Code of the product type:

Plate S500Q in acc. with EN 10025-6

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. +49 208 458-0,
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		
		50	500		
	50	100	480		
Tensile Strength	Nominal thickness (mm)		Value R _m (MPa)		
	>	≤	min	max	
		50	590	770	
	50	100	590	770	
Elongation	Nominal thickness (mm)		Value A ₅ (%)		
	>	≤	min		
		100	17		
Impact Strength longitudinal	Nominal thickness (mm)		Value (J/Temp. - 20°C)		
		≤	min		
		100	30		
Weldability	Nominal thickness (mm)		Value CEV (%)		
	>	≤		max	
		50		0,47	
	50	100		0,70	
Durability	Nominal thickness (mm)		Value (%) (Ladle analysis)		
	>	≤	max.		
		100	C: 0,20 Si: 0,80 Mn: 1,70 P: 0,025 S: 0,015 N: 0,015 B: 0,0050 Cr: 1,50	Cu: 0,50 Mo: 0,70 Nb: 0,06 Ni: 4,0 Ti: 0,05 V: 0,12 Zr: 0,15	

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