

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. SMGB011-UKCA-10025-01022024

1. Unique Identification Code of the product type:

Plate S450J0 in acc. with EN 10025-2

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 as required pursuant Article 11(5):

**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 task:

- not applicable -

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in EU-Regulation 305/2011 Annex V:

System 2+

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

Approved body – TÜV UK Ltd (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	450		
	16	40	430		
	40	63	410		
	63	80	390		
	80	100	380		
100	150	380			
Tensile Strength	Nominal thickness (mm)		Value R _m (MPa)		
	>	≤	Min	max	
		3	-	-	
	3	100	550	720	
100	150	530	700		
Elongation	Nominal thickness (mm)		Value A ₅ (%)		
	>	≤	min		
	3	40	17		
	40	63	17		
	63	100	17		
100	150	17			
Impact Strength	Nominal thickness (mm)		Value J/Temp. 0°C)		
	≤		Min		
	150		27		
Weldability	Nominal thickness (mm)		Value CEV (%)		
	>	≤	max		
		30	0,47		
	30	40	0,49		
40	150	0,49			
Durability	Nominal thickness (mm)		Value (%) (Ladle analysis)		
	>	≤	max.		
		40	C: 0,20 Si: 0,55	Mn: 1,70 P: 0,030	S: 0,030 N: 0,025
40		C: 0,22 Si: 0,55	Mn: 1,70 P: 0,030	S: 0,030 N: 0,025	Cu: 0,55

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, 01.02.2024 **Bernd Schneider**
Head of quality department