



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. ILGS500ML-UKCA-10025-01112022

1. Unique identification code of the product Type:

Plate S500ML / 1.8839 in accordance with EN 10025-4

2. Intended use(s):

Metallic structure, metallic- / concrete composite construction

3. Name, registered trade name or registered trademark and contact address of the manufacturer:

**Ilsenburger Grobblech GmbH
Veckenstedter Weg 10
38871 Ilsenburg, Germany
Tel.: +49 (0) 39452 85 - 0
Fax: +49 (0) 39452 85 - 8161
www.ilsenburger-grobblech.de**

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

- not applicable -

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

System 2+

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

Approved Body -TÜV UK Ltd (No. UKAB 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.



7. Declared Performance:

Essential characteristic	Performance								Harmonised technical specification
Tolerances on dimensions and shape	see supplementary sheet 1								EN 10025-1:2004
Yield strength	Nominal thickness (mm)		Values (MPa)						
	>	≤	≥						
		16	500						
	16	40	480						
	40	63	460						
	63	80	450						
	80	100	450						
100	150	450							
Tensile strength	Nominal thickness (mm)		Values (MPa)						
	>	≤	≥			≤			
		40	580			760			
	40	63	580			760			
	63	80	580			760			
	80	100	560			750			
100	150	560			750				
Elongation	Nominal thickness (mm)		Values (%)						
	>	≤	≥						
		150	15						
Impact energy	Nominal thickness (mm)		Values (J) Temp. (°C)						
			+20	0	-10	-20	-30	-40	-50
		≤	≥						
		150	63	55	51	47	40	31	27
Weldability	Nominal thickness (mm)		CEV (%)						
	>	≤	≤						
		16	0,47						
	16	40	0,47						
	40	63	0,47						
63	150	0,48							



Essential characteristic	Performance					Harmonised technical specification	
Durability	Nominal thickness (mm)		Ladle analysis (%)			EN 10025-1:2004	
		≤		≥	≤		
		150	C		0,16		
			Si		0,60		
			Mn		1,70		
			P		0,025		
			S		0,020		
			Nb		0,05		
			V		0,12		
			Al ges.	0,02			
			Ti		0,05		
			Cr		0,30		
			Ni		0,80		
			Mo		0,20		
	Cu			0,55			
	N		0,025				

The performance of the product named above is in conformity with the declared performances.
This declaration of performance is issued under the sole responsibility of the above-mentioned manufacturer.

Signed for and on behalf of the manufacturer by:

Ilseburg, 01.11.2022

Dipl.-Ing. Andreas Rost
Head of Order Management and Technical Service