

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. ILGS420NL-UKCA-10025-01112022

1. Unique identification code of the product Type:

Plate S420NL / 1.8912 in accordance with EN 10025-3

2. Intended use(s):

Metallic structure, metallic- / concrete composite construction

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

**Ilseburger Grobblech GmbH
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38871 Ilseburg, Germany
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Fax: +49 (0) 39452 85 - 8161
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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	420						
	16	40	400						
	40	63	390						
	63	80	370						
	80	100	360						
	100	150	340						
150	200	330							
200	250	320							
Tensile strength	Nominal thickness (mm)		Values (MPa)						
	>	≤	≥			≤			
		100	520			680			
	100	200	500			650			
200	250	500			650				
Elongation	Nominal thickness (mm)		Values (%)						
	>	≤	≥						
		16	19						
	16	40	19						
	40	63	19						
	63	80	18						
80	200	18							
200	250	18							
Impact energy	Nominal thickness (mm)		Values (J) Temp. (°C)						
			+20	0	-10	-20	-30	-40	-50
		≤	≥						
	250	63	55	51	47	40	31	27	
Weldability	Nominal thickness (mm)		CEV (%)						
	>	≤	≤						
		63	0,48						
	63	100	0,50						
100	250	0,52							



Essential characteristic	Performance				Harmonised technical specification	
Durability	Nominal thickness (mm)		Ladle analysis (%)			EN 10025-1:2004
		≤		≥	≤	
		250	C		0,20	
			Si		0,60	
			Mn	1,00	1,70	
			P		0,025	
			S		0,020	
			Nb		0,05	
			V		0,20	
			Al ges.	0,02		
			Ti		0,05	
			Cr		0,30	
			Ni		0,80	
			Mo		0,10	
	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:

Ilsenburg, 01.11.2022

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