
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. ILGS420J2W-UKCA-10025-01112022

1. Unique identification code of the product Type:

Plate S420J2W / 1.8949 in accordance with EN 10025-5

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	380		
	80	100	370		
	100	150	365		
Tensile strength	Nominal thickness (mm)		Values (MPa)		
		≤	≥	≤	
	≥ 3	100	500	660	
	> 100	150	460	620	
Elongation	Nominal thickness (mm)		Values (%)		
		≤	≥		
	≥ 3	40	17		
	> 40	63	16		
	> 63	100	15		
	> 100	150	14		
Impact energy	Nominal thickness (mm)		Values (J) Temp. -20°C		
		≤	≥		
		150	27		
Weldability	Nominal thickness (mm)		CEV (%)		
	>	≤		≤	
		150		0,52	
	see also EN 10025-5: 7.4.1				



Essential characteristic	Performance					Harmonised technical specification
Durability	Nominal thickness (mm)		Ladle analysis (%)			EN 10025-1:2004
		≤		≥	≤	
		150	C		0,20	
			Si		0,65	
			Mn	0,50	1,35	
			P		0,030	
			S		0,030	
			N		0,025	
			Cr	0,40	0,80	
			Cu	0,25	0,55	
			Ni		0,65	
			Mo		0,30	
	Zr		0,15			

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