



**Declaration of Performance**  
**The Construction Products (Amendment etc.) (EU Exit)**  
**Regulations 2020 No 1359**

Unique identification code of the product-type:  
 No. BS Section S420M

**Section S420M / 1.8825 according EN 10025-4**

Intended use:  
 To be used in Metal Structures and Composite Metal and  
 Concrete Structures

Manufacturer:  
**British Steel Limited**  
**PO Box 1, Brigg Road**  
**Scunthorpe, DN16 1BP**

**Tel: +44 (0)1724 404040**

**Website : www.britishsteel.co.uk**

System of assessment and verification of constancy of  
 performance of the product:  
**System 2+**

Factory Production Control Assessment body No. 0038 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.

The performance of the product identified in the Declared Performance is in  
 conformity with the set of declared performance/s.  
 This declaration of performance is issued, in accordance with: Regulation (EU  
 Exit) Regulations 2020 No 1359, under the sole responsibility of the  
 manufacturer identified above.

**Certificate No. 0038/CPR/LRQ0860859/1**

Signed for and on behalf of the manufacturer by:

Chris Vaughan  
 SHEQ Director,  
 British Steel Limited

**1<sup>st</sup> January, 2023**  
 Date

Essential characteristic	Declared Performance			Harmonised Standard	
Tolerances on dimensions and shape	I & H Sections		EN 10034	EN10025-1 2004	
	Equal Flange Tee		EN 10055		
Yield strength (transverse)	Equal Angle		EN 10056-2		
	Unequal Angle		EN10056-2		
	Tapered Flange I		EN 10024		
	Bulb Flats		EN 10067		
	Channels		EN 10279		
	Nominal thickness (mm)		Values Min (MPa)		
	>	<=			
	-	16	420		
16	40	400			
40	63	390			
63	80	380			
80	100	370			
100	150	365			
Tensile strength (transverse)	Nominal thickness (mm)		Values (MPa)		
	>	<=	min	max	
	0	40	520	680	
	40	63	500	660	
	63	80	480	640	
	80	100	470	630	
	100	150	460	620	
	Elongation (transverse)	Nominal thickness (mm)		Values min (% 5.65√s <sub>0</sub> )	
>		<=			
0		150	19		
Impact strength (longitudinal)			40J at - 20°C		
	Weldability CEV	Nominal thickness (mm)		Values max (%)	
>		<=			
-		16	0.43		
16		40	0.45		
40		63	0.46		
63		120	0.47		
Durability	Nominal thickness (mm)		Values min (%)	Values max (%)	
	-	120		Mn: 1.70 Cr: 0.30 Cu: 0.55 C: 0.16 Si: 0.50 P: 0.030 S: 0.025 Nb: 0.050 V: 0.12 Ti: 0.05 Ni: 0.80 Mo: 0.20 N: 0.025	



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Harmonised Standard :  
 EN 10025-1 – 2004

**Section S420M / 1.8825**

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 and Concrete Structures

Elongation :  
 Tensile Strength :  
 Yield Strength : EN 10025-4  
 Impact Strength :  
 Weldability :  
 Durability :

Dangerous Substances : No Performance Determined

UK Conformity Assessment Body  
**LRQA Verification Limited**  
**1 Trinity Park, Bickenhill Lane,**  
**Birmingham B37 7ES.**

**Website www.lrqa.com**