



**Declaration of Performance**  
(according to regulation EU No 305/2011)

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**  
Brigg Road  
Scunthorpe, DN16 1XA

**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 Notified Body No. 0343 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 No 305/2011 under the sole responsibility of the  
manufacturer identified above.

**Certificate No. 0343/CPR/LRQ0860859/1**

Signed for and on behalf of the manufacturer by:

Chris Vaughan  
Chief Operating Officer (Interim),  
British Steel Limited

**22<sup>nd</sup> January 2026**  
Date

Essential characteristic	Declared Performance		Harmonised Standard			
Tolerances on dimensions and shape	I & H Sections Equal Flange Tee Equal Angle Unequal Angle Tapered Flange I Bulb Flats Channels	EN 10034 EN 10055 EN 10056-2 EN10056-2 EN 10024 EN 10067 EN 10279	EN10025-1 2004			
Yield strength (transverse)	Nominal thickness (mm)	Values Min (MPa)				
	>	<=				
	16	16			420	
	40	40			400	
	63	63			390	
	80	80			380	
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		
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	16	0.43			
	40	40	0.45			
	63	63	0.46			
	80	80	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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Manufacturer:  
**British Steel Limited**  
Brigg Road  
Scunthorpe, UK

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Unique identification code of the product-type:  
**BS Section S420M**

Harmonised Standard :  
EN 10025-1 – 2004

**Section S420M / 1.8825**

Intended use:  
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and Concrete Structures

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

Dangerous Substances : No Performance Determined

EU Notified Body  
**LRQA Nederland B.V.**  
George Hintzenweg 77, 3068 AX  
Rotterdam, Netherlands  
Tel : +31 (0)10 2248500  
Website: www.lrqa.com