



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

Unique identification code of the product-type:  
No. BS Section S460ML

**Section S460ML / 1.8838 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](http://www.britishsteel.co.uk)

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

Factory Production Control Notified Body No. 2814 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. 2814/CPR/LRQ0860859/1**

Signed for and on behalf of the manufacturer by:

Richard Holcroft  
COO, British Steel Limited

**1<sup>st</sup> July, 2021**  
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	460	
	16	40	440	
	40	63	430	
	63	80	410	
	80	100	400	
Tensile strength (transverse)	Nominal thickness (mm)		Values (MPa)	
	>	<=	min max	
	0	40	540 720	
	40	63	530 710	
	63	80	510 690	
	80	100	500 680	
	100	150	490 660	
Elongation (transverse)	Nominal thickness (mm)		Values min (% 5.65 $\sqrt{so}$ )	
	>	<=		
	0	150	17	
Impact strength (longitudinal)	27J at - 50°C			
Weldability CEV	Nominal thickness (mm)		Values max (%)	
	>	<=		
	-	16	0.45	
	16	40	0.46	
	40	63	0.47	
	63	120	0.48	
Durability	Nominal thickness (mm)		Values min (%) Values max (%)	
	-	120		
			Mn: 1.70 Cr: 0.30 Cu: 0.55 C: 0.16 Si: 0.60 P: 0.025 S: 0.020 Nb: 0.050 V: 0.12 Ti: 0.05 Ni: 0.80 Mo: 0.20 N: 0.025	



**2814**

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

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Unique identification code of the product-type:  
**BS Section S460ML**

Harmonised Standard :  
EN 10025-1 – 2004

**Section S460ML / 1.8838**

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  
**Lloyd's Register Verification B.V.**  
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