



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

Unique identification code of the product-type:  
No. BS Section S460M

**Section S460M / 1.8827 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](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/CPPR/LRQ0860859/1**

Signed for and on behalf of the manufacturer by:

Chris Vaughan  
SHEQ Director,  
British Steel Limited

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

Essential characteristic	Declared Performance				Harmonised Standard
	Nominal thickness (mm)		Values (MPa)		
Tolerances on dimensions and shape	I & H Sections		EN 10034		EN10025-1 2004
	Equal Flange Tee		EN 10055		
	Equal Angle		EN 10056-2		
	Unequal Angle		EN10056-2		
	Tapered Flange I		EN 10024		
	Bulb Flats		EN 10067		
	Channels		EN 10279		
Yield strength (transverse)	Nominal thickness (mm)		Values (MPa)		EN10025-1 2004
	>	<=			
	16	16	460		
	40	40	440		
	63	63	430		
	80	80	410		
	100	100	400		
Tensile strength (transverse)	Nominal thickness (mm)		Values (MPa)		EN10025-1 2004
	>	<=	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√s <sub>0</sub> )		EN10025-1 2004
	>	<=			
	0	150	17		
Impact strength (longitudinal)			40J at -20°C		
Weldability CEV	Nominal thickness (mm)		Values max (%)		EN10025-1 2004
	>	<=			
	16	16	0.45		
	40	40	0.46		
	63	63	0.47		
	63	120	0.48		
Durability	Nominal thickness (mm)		Values min (%)	Values max (%)	EN10025-1 2004
	-	120		Mn: 1.70 Cr: 0.30 Cu: 0.55 C: 0.16 Si: 0.60 P: 0.030 S: 0.025 Nb: 0.050 V: 0.12 Ti: 0.05 Ni: 0.80 Mo: 0.20 N: 0.025	



**2814**

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Brigg Road  
Scunthorpe, UK

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**BS Section S460M**

Harmonised Standard :  
EN 10025-1 – 2004

**Section S460M / 1.8827**

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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 Verification B.V.**  
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