



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

Unique identification code of the product-type:  
No. BS Section S275M

**Section S275M / 1.8818 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. 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  
Technical Director,  
British Steel Limited

**1<sup>st</sup> May, 2024**  
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 Min (MPa)		EN10025-1 2004
	>	<=			
	16	16	275		
	40	40	265		
	40	63	255		
	63	80	245		
	80	100	245		
Tensile strength (transverse)	Nominal thickness (mm)		Values (MPa)		EN10025-1 2004
	>	<=	min	max	
	5	40	370	530	
	40	63	360	520	
	63	120	350	510	
Elongation (transverse)	Nominal thickness (mm)		Values min (% 5.65√s <sub>0</sub> )		EN10025-1 2004
	>	<=			
	5	120	24		
Impact strength (longitudinal)			40J at - 20°C		
Weldability CEV	Nominal thickness (mm)		Values max (%)		EN10025-1 2004
	>	<=			
	16	16	0.34		
	40	40	0.34		
	40	63	0.35		
	63	120	0.38		
Durability	Nominal thickness (mm)		Values min (%)	Values max (%)	EN10025-1 2004
	-	120		Mn: 1.50 Cr: 0.30 Cu: 0.55 C: 0.13 Si: 0.50 P: 0.030 S: 0.025 Nb: 0.050 V: 0.08 Ti: 0.05 Ni: 0.30 Mo: 0.10 N: 0.015	



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British Steel Limited  
Brigg Road  
Scunthorpe, UK

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**BS Section S275M**

Harmonised Standard :  
EN 10025-1 – 2004

**Section S275M / 1.8818**

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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  
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