



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

Unique identification code of the product-type:  
No. BS Section S355JR

**Section S355JR / 1.0045 according EN 10025-2**

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  
SHEQ Director,  
British Steel Limited

**1<sup>st</sup> April, 2024**  
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	355		
16	40	345			
40	63	335			
63	80	325			
80	100	315			
100	150	295			
Tensile strength (transverse)	Nominal thickness (mm)		Values (MPa)		
	>	<=	min	max	
	3	100	470	630	
	100	150	450	600	
Elongation (transverse)	Nominal thickness (mm)		Values min (% 5.65√s <sub>0</sub> )		
	>	<=			
	3	40	22		
	40	63	21		
	63	100	20		
100	150	18			
Impact strength (longitudinal)	JR		27J at + 20oC		
Weldability CEV	Nominal thickness (mm)		Values max (%)		
	>	<=			
	-	30	0.45		
	30	40	0.47		
	40	150	0.47		
Durability	Nominal thickness (mm)		Values min (%)	Values max (%)	
	-	150		Mn: 1.60 Cu: 0.55 C: 0.24 Si: 0.55 P: 0.035 S: 0.035 N: 0.012	



0343

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Brigg Road  
Scunthorpe, UK

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**BS Section S355JR**

Harmonised Standard :  
EN 10025-1 – 2004

**Section S355JR / 1.0045**

Intended use:  
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and Concrete Structures

Elongation :  
Tensile Strength :  
Yield Strength : EN 10025-2  
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  
Email : [marc.verboon@lrqa.com](mailto:marc.verboon@lrqa.com)  
Website : [www.lrqa.com](http://www.lrqa.com)