



**Declaration of Performance**  
**The Construction Products (Amendment etc.) (EU Exit)**  
**Regulations 2020 No 1359**

Unique identification code of the product-type:  
 No. BS Section S450J0

**Section S450J0 / 1.0590 according EN10025-2**

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**

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

Factory Production Control Assessment body No. 0038 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  
 Exit) Regulations 2020 No 1359, under the sole responsibility of the  
 manufacturer identified above.

**Certificate No. 0038/CPR/LRQ0860859/1**

Signed for and on behalf of the manufacturer by:

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

**1<sup>st</sup> May 2025**  
 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	450		
	16	40	430		
	40	63	410		
	63	80	390		
	80	100	380		
Tensile strength (transverse)	Nominal thickness (mm)		Values (MPa)		EN10025-1 2004
	>	<=	min	max	
	3	100	550	720	
	100	150	530	700	
Elongation (transverse)	Nominal thickness (mm)		Values min (% 5.65√s <sub>0</sub> )		EN10025-1 2004
	>	<=			
	3	150	17		
Impact strength (longitudinal)			27J at - 0oC		
Weldability CEV	Nominal thickness (mm)		Values max (%)		EN10025-1 2004
	>	<=			
	-	30	0.47		
	30	40	0.49		
	40	150	0.49		
Durability	Nominal thickness (mm)		Values min (%)	Values max (%)	EN10025-1 2004
	-	40		Mn: 1.70 Cu: 0.55 C: 0.20 (>30mm 0.22) Si: 0.55 P: 0.03 S: 0.03 N: 0.025	
	40	150		Mn: 1.70 Cu: 0.55 C: 0.22 Si: 0.55 P: 0.03 S: 0.03 N: 0.025	



Manufacturer:  
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**BS Section S450J0**

Harmonised Standard :  
 EN 10025-1 – 2004

**Section S450J0 / 1.0590**

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 and Concrete Structures

Elongation :  
 Tensile Strength :  
 Yield Strength : EN10025-2  
 Impact Strength :  
 Weldability :  
 Durability :

Dangerous Substances : No Performance Determined

UK Conformity Assessment Body  
**LRQA Verification Limited**  
**1 Trinity Park, Bickenhill Lane,**  
**Birmingham B37 7ES.**

**Website www.lrqa.com**