



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

Unique identification code of the product-type:
No. BS Section S235J2

Section S235J2 / 1.0117 according EN 10025-2

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

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/CP/RQ0860859/1

Signed for and on behalf of the manufacturer by:

Richard Holcroft
COO, British Steel Limited

1st July, 2021
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
	>	<=	Min		
	-	16	235		
	16	40	225		
	40	63	215		
	63	80	215		
	80	100	215		
Tensile strength (transverse)	Nominal thickness (mm)		Values (MPa)		EN10025-1 2004
	>	<=	min	max	
	3	100	360	510	
	100	150	350	500	
Elongation (transverse)	Nominal thickness (mm)		Values min (% 5.65√s ₀)		EN10025-1 2004
	>	<=			
	3	40	24		
	40	63	23		
	63	100	22		
	100	150	22		
Impact strength (longitudinal)	J2		27J at - 20°C		EN10025-1 2004
Weldability CEV	Nominal thickness (mm)		Values max (%)		
	>	<=			
	-	40	0.35		
	40	150	0.38		
Durability	Nominal thickness (mm)		Values min (%)	Values max (%)	EN10025-1 2004
	-	150		Mn: 1.40 Cu: 0.55 C: 0.17 P: 0.025 S: 0.025	



2814

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

20

Unique identification code of the product-type:
BS Section S235J2

Harmonised Standard :
EN 10025-1 – 2004

Section S235J2 / 1.0117

Intended use:
To be used in Metal Structures and Composite Metal
and Concrete Structures

Elongation :
Tensile Strength :
Yield Strength : EN 10025-2
Impact Strength :
Weldability :
Durability :

Dangerous Substances : No Performance Determined

EU Notified Body
Lloyd's Register Verification B.V.
K.P. van der Mandelelaan 41A
Rotterdam, Netherlands
Tel : +31 (0)10 4145088
Email : rotterdam@lr.org
Website : www.lr.org