



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

Unique identification code of the product-type:
No. BS Section S355J0

Section S355J0 / 1.0553 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/CPR/LRQ0860859/1

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 Min (MPa)		EN10025-1 2004
	>	<=			
	-	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)		EN10025-1 2004
	>	<=	min	max	
	3	100	470	630	
	100	150	450	600	
Elongation (transverse)	Nominal thickness (mm)		Values min (% 5.65√s ₀)		EN10025-1 2004
	>	<=			
	3	40	22		
	40	63	21		
	63	100	20		
	100	150	18		
Impact strength (longitudinal)	J0		27J at - 0oC		
Weldability CEV	Nominal thickness (mm)		Values max (%)		EN10025-1 2004
	>	<=			
	-	30	0.45		
	30	40	0.47		
	40	150	0.47		
Durability	Nominal thickness (mm)		Values min (%)	Values max (%)	EN10025-1 2004
	-	40		Mn: 1.60 Cu: 0.55 C: 0.20 (>30mm 0.22) Si: 0.55 P: 0.030 S: 0.030 N: 0.012	
	40	150		Mn: 1.60 Cu: 0.55 C: 0.22 Si: 0.55 P: 0.030 S: 0.030 N: 0.012	



2814

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Scunthorpe, UK

20

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Harmonised Standard :
EN 10025-1 – 2004

Section S355J0 / 1.0553

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

Dangerous Substances : No Performance Determined

EU Notified Body
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