



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

Unique identification code of the product-type:
No. BS Section S355K2

Section S355K2 / 1.0596 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

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

1st April, 2024
Date

Essential characteristic	Declared Performance			Harmonised Standard
Tolerances on dimensions and shape	I & H Sections Equal Flange Tee Equal Angle Unequal Angle Tapered Flange I Bulb Flats Channels	EN 10034 EN 10055 EN 10056-2 EN10056-2 EN 10024 EN 10067 EN 10279		EN10025-1 2004
Yield strength (transverse)	Nominal thickness (mm)		Values Min (MPa)	
	>	<=		
	-	16	355	
	16	40	345	
	40	63	335	
	63	80	325	
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 ₀)	
	>	<=		
	3	40	22	
	40	63	21	
	63	100	20	
	100	150	18	
Impact strength (longitudinal)	K2		40J at - 20°C	
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 (%)	
	-	40	Mn: 1.60 Cu: 0.55 C: 0.20 (>30mm 0.22) Si: 0.55 P: 0.025 S: 0.025	
	40	150	Mn: 1.60 Cu: 0.55 C: 0.22 Si: 0.55 P: 0.025 S: 0.025	



0343

Manufacturer:
British Steel Limited
Brigg Road
Scunthorpe, UK

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BS Section S355K2

Harmonised Standard :
EN 10025-1 – 2004

Section S355K2 / 1.0596

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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
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