



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

Unique identification code of the product-type:
No. BS Section S420ML

Section S420ML / 1.8836 according EN 10025-4

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
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	420	
	16	40	400	
	40	63	390	
	63	80	380	
	80	100	370	
Tensile strength (transverse)	Nominal thickness (mm)		Values (MPa)	
	>	<=	min max	
	0	40	520 680	
	40	63	500 660	
	63	80	480 640	
	80	100	470 630	
	100	150	460 620	
Elongation (transverse)	Nominal thickness (mm)		Values min (% 5.65√s ₀)	
	>	<=		
	0	150	19	
Impact strength (longitudinal)	27J at - 50°C			
Weldability CEV	Nominal thickness (mm)		Values max (%)	
	>	<=		
	-	16	0.43	
	16	40	0.45	
	40	63	0.46	
	63	120	0.47	
Durability	Nominal thickness (mm)		Values min (%) Values max (%)	
	-	120	Mn: 1.70 Cr: 0.30 Cu: 0.55 C: 0.16 Si: 0.50 P: 0.025 S: 0.020 Nb: 0.050 V: 0.12 Ti: 0.05 Ni: 0.80 Mo: 0.20 N: 0.025	



2814

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Scunthorpe, UK

20

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Harmonised Standard :
EN 10025-1 – 2004

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and Concrete Structures

Elongation :
Tensile Strength :
Yield Strength : EN 10025-4
Impact Strength :
Weldability :
Durability :

Dangerous Substances : No Performance Determined

EU Notified Body

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