



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

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 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
SHEQ Director,
British Steel Limited

1st January, 2023
Date

Essential characteristic	Declared Performance				Harmonised Standard
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)		
	>	<=			
	-	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√so)		
	>	<=			
	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 (%)	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
	-	120			



Manufacturer:
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Harmonised Standard :
EN 10025-1 – 2004

Section S420ML / 1.8836

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and Concrete Structures

Elongation :
Tensile Strength :
Yield Strength : EN 10025-4
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