



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

Unique identification code of the product-type:
 No. BS Section S460ML

Section S460ML / 1.8838 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	460		
	16	40	440		
	40	63	430		
	63	80	410		
	80	100	400		
	100	150	385		
Tensile strength (transverse)	Nominal thickness (mm)		Values (MPa)		
	>	<=	min	max	
	0	40	540	720	
	40	63	530	710	
	63	80	510	690	
	80	100	500	680	
	100	150	490	660	
	Elongation (transverse)	Nominal thickness (mm)		Values min (% 5.65√so)	
>		<=			
0		150	17		
Impact strength (longitudinal)			27J at - 50°C		
Weldability CEV	Nominal thickness (mm)		Values max (%)		
	>	<=			
	-	16	0.45		
	16	40	0.46		
	40	63	0.47		
	63	120	0.48		
	63	120	0.48		
Durability	Nominal thickness (mm)		Values min (%)	Values max (%)	Mn: 1.70 Cr: 0.30 Cu: 0.55 C: 0.16 Si: 0.60 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			



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Scunthorpe, UK

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Harmonised Standard :
 EN 10025-1 – 2004

Section S460ML / 1.8838

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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