



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

Unique identification code of the product-type:
No. BS Section S355M

Section S355M / 1.8823 according EN 10025-4

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
Technical Director,
British Steel Limited

1st May, 2024
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		
Yield strength (transverse)	Equal Angle		EN 10056-2		
	Unequal Angle		EN10056-2		
	Tapered Flange I		EN 10024		
	Bulb Flats		EN 10067		
	Channels		EN 10279		
	Nominal thickness (mm)		Values Min (MPa)		
	>	<=			
	-	16	355		
16	40	345			
40	63	335			
63	80	325			
80	100	325			
100	150	320			
Tensile strength (transverse)	Nominal thickness (mm)		Values (MPa)		
	>	<=	min	max	
	0	40	470	630	
	40	63	450	610	
	63	80	440	600	
	80	100	440	600	
	100	150	430	590	
	Elongation (transverse)	Nominal thickness (mm)		Values min (% 5.65√s ₀)	
>		<=			
0		150	22		
Impact strength (longitudinal)			40J at - 20°C		
	Weldability CEV	Nominal thickness (mm)		Values max (%)	
>		<=			
-		16	0.39		
16		40	0.39		
40		63	0.40		
63		120	0.45		
63	120	0.45			
Durability	Nominal thickness (mm)		Values min (%)	Values max (%)	
	-	120		Mn: 1.60 Cr: 0.30 Cu: 0.55 C: 0.14 Si: 0.50 P: 0.030 S: 0.025 Nb: 0.050 V: 0.10 Ti: 0.05 Ni: 0.50 Mo: 0.10 N: 0.015	



0343

Manufacturer:
British Steel Limited
Brigg Road
Scunthorpe, UK

20

Unique identification code of the product-type:
BS Section S355M

Harmonised Standard :
EN 10025-1 – 2004

Section S355M / 1.8823

Intended use:
To be used in Metal Structures and Composite Metal
and Concrete Structures

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

Dangerous Substances : No Performance Determined

EU Notified Body
LRQA Nederland B.V.
George Hintzenweg 77, 3068 AX
Rotterdam, Netherlands
Tel : +31 (0)10 2248500
Email : marc.verboon@lrqa.com
Website : www.lrqa.com