



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

No. BSU Section S235JR

Section S235JR / 10038 according EN 10025-2

To be used in Metal Structures and Composite Metal and Concrete Structures

British Steel Limited
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CE Marking Notified Body
Lloyds Register Verification Limited
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System of assessment and verification of constancy of performance of the product System 2+

Notified factory production control certification 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. This declaration of performance is issued under the sole responsibility of British Steel Limited.

Signed for and on behalf of the manufacturer by:

Peter Hogg
Director, British Steel Limited

1st June 2016
Date

Essential characteristic	Performance		Harmonised technical specification	
Tolerances on dimensions and shape	I & H Sections Equal Flange Tee Equal Angle Unequal Angle Tapered Flange I Bulb Flats		EN 10034 EN 10055 EN 10056-1 EN10056-2 EN 10024 EN 10067	
Yield strength (transverse)	Nominal thickness (mm)		Values Min (MPa)	
	>	<=		
	-	16	235	
	16	40	225	
	40	63	215	
	63	80	215	
	80	100	215	
Tensile strength (transverse)	Nominal thickness (mm)		Values (MPa)	
	>	<=	min	max
	5	100	360	510
	100	150	350	500
Elongation (transverse)	Nominal thickness (mm)		Values min (%; 5.65√s ₀)	
	>	<=		
	5	40	24	
	40	63	23	
	63	100	22	
Impact strength (longitudinal)	JR		27J at + 20oC	
	Weldability CEV			
Durability	Nominal thickness (mm)		Values max (%)	
	>	<=		
	-	40	0.35	
	40	150	0.38	
Durability	Nominal thickness (mm)		Values max (%)	
	-	40	C: 0.17 Mn: 1.40 P: 0.035 S: 0.035 Cu: 0.55 N: 0.012	
	40	150	C: 0.20 Mn: 1.40 P: 0.035 S: 0.035 Cu: 0.55 N: 0.012	



0038

British Steel Limited
PO Box 1, Brigg Road
Scunthorpe, UK

16

BSU Section S235JR

EN 10025-1 – 2004

Section S235JR / 10038

To be used in Metal Structures and Composite Metal and Concrete Structures

Elongation :
Tensile Strength :
Yield Strength : EN 10025-2
Impact Strength :
Weldability :
Durability :

Dangerous Substances : No Performance Determined



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

No. BSU Section S355J2

Section S355J2 / 1.0577 according EN 10025-2

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1st June 2016
Date

Essential characteristic	Performance		Harmonised technical specification	
Tolerances on dimensions and shape	I & H Sections Equal Flange Tee Equal Angle Unequal Angle Tapered Flange I Bulb Flats		EN 10034 EN 10055 EN 10056-1 EN10056-2 EN 10024 EN 10067	
Yield strength (transverse)	Nominal thickness (mm)		Values Min (MPa)	
	>	<=		
	-	16	355	
	16	40	345	
	40	63	325	
	63	80	325	
	80	100	315	
Tensile strength (transverse)	Nominal thickness (mm)		Values (MPa)	
	>	<=	min	max
	5	100	470	630
	100	150	450	600
Elongation (transverse)	Nominal thickness (mm)		Values min (%. 5.65√s ₀)	
	>	<=		
	5	40	20	
	40	63	19	
	63	100	18	
	63	150	18	
Impact strength (longitudinal)	J2		27J at - 20oC	
Weldability CEV	Nominal thickness (mm)		Values max (%)	
	>	<=		
	-	30	0.45	
	30	40	0.47	
	40	150	0.47	
Durability	Nominal thickness (mm)		Values max (%)	
	-	40	C: 0.20 (>30mm 0.22) Si: 0.55 Mn: 1.60 P: 0.025 S: 0.025 Cu: 0.55	
	40	150	C: 0.22 Si: 0.55 Mn: 1.60 P: 0.025 S: 0.025 Cu: 0.55	

EN10025-1
2004



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BSU Section S355J2

EN 10025-1 – 2004

Section S355J2 / 1.0577

To be used in Metal Structures and Composite Metal and Concrete Structures

Elongation :
Tensile Strength :
Yield Strength :
Impact Strength :
Weldability :
Durability :

EN 10025-2

Dangerous Substances : No Performance Determined