



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

No. BSU Section S275JR

Section S275JR / 1.0044 according EN 10025-2

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

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CE Marking Notified Body
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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	275	
	16	40	265	
	40	63	255	
	63	80	245	
	80	100	235	
Tensile strength (transverse)	Nominal thickness (mm)		Values (MPa)	
	>	<=	min	max
	5	100	410	560
	100	150	400	540
Elongation (transverse)	Nominal thickness (mm)		Values min (%; 5.65√s ₀)	
	>	<=		
	5	40	21	
	40	63	20	
	63	100	19	
	63	150	19	
Impact strength (longitudinal)	JR		27J at + 20oC	
Weldability CEV	Nominal thickness (mm)		Values max (%)	
	>	<=		
	-	40	0.40	
	40	150	0.42	
Durability	Nominal thickness (mm)		Values max (%)	
	-	40	C: 0.21 Mn: 1.50 P: 0.035 S: 0.035 Cu: 0.55 N: 0.012	
	40	150	C: 0.22 Mn: 1.50 P: 0.035 S: 0.035 Cu: 0.55 N: 0.012	



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16

BSU Section S275JR

EN 10025-1 – 2004

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

EN 10025-2

Dangerous Substances : No Performance Determined