

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

No. LPE Section S235JR

Section S235JR / 1.0038 according EN 10025-2

To be used in-welded, bolted and riveted structures

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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



Jon Bolton – Director, Long Products Europe
Tata Steel UK Limited

1st July 2013
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	EN10025-1 2004			
Yield strength (transverse)	Nominal thickness (mm)	Values Min (MPa)				
	>	<=				
	-	16			235	
	16	40			225	
	40	63			215	
	63	80			215	
80	100	215				
100	150	195				
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			
100	150	22				
Impact strength (longitudinal)	JR	27J at + 20°C				
Weldability CEV	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 N: 0,012 Cu: 0,55			
	>40	150	C:0,20 Mn: 1,40 P: 0,035 S: 0,035 N: 0,012 Cu: 0,55			



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LPE Section S235JR

EN 10025-1 – 2004

Section S235JR / 1.0038

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Elongation :
Tensile Strength :
Yield Strength : EN10025-2
Impact Strength :
Weldability :
Durability :

Dangerous Substances : No Performance Determined