

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

No. LPE Section S450J0

Section S450J0 / 1.0590 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			450	
	16	40			430	
	40	63			410	
	63	80			390	
	80	100			380	
100	150	380				
Tensile strength (transverse)	Nominal thickness (mm)	Values (MPa)			min	max
	>	<=				
	3	100	550	720		
	100	150	530	700		
Elongation (transverse)	Nominal thickness (mm)	Values min (% , 5.65\sqrt{so})				
	>	<=				
	5	150	17			
Impact strength (longitudinal)	J0	27J at - 0°C				
Weldability CEV	Nominal thickness (mm)	Values max (%)				
	>	<=				
	-	30	0.47			
	30	40	0.49			
40	150	0.49				
Durability	Nominal thickness (mm)	Values max (%)				
	-	<=40	C:0,20 (>30mm 0,22) Si: 0,55 Mn: 1,70 P: 0,030 S: 0,030 N: 0,025 Cu: 0,55			
	>40	150	C:0,22 Si: 0,55 Mn: 1,70 P: 0,030 S: 0,030 N: 0,025 Cu: 0,55			



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LPE Section S450J0

EN 10025-1 – 2004

Section S450J0 / 1.0590

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

Dangerous Substances : No Performance Determined