

Declaration of Performance

(according to regulation EU No 305/2011)

No. LPE Section S420M

Section S420M / 1.8825 according EN 10025-4

To be used in-welded, bolted and riveted 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



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			420	
	16	40			400	
	40	63			390	
	63	80			380	
	80	100			370	
100	120	365				
Tensile strength (transverse)	Nominal thickness (mm)	Values (MPa)			min	Max
	>	<=				
	5	40	520	680		
	40	63	500	660		
	63	80	480	640		
	80	100	470	630		
	100	120	460	620		
Elongation (transverse)	Nominal thickness (mm)	Values min (% $5.65\sqrt{s_0}$)				
	>	<=				
	5	120	19			
Impact strength (longitudinal)		40J at - 20°C				
Weldability CEV	Nominal thickness (mm)	Values max (%)				
	>	<=				
	-	16	0.43			
	16	40	0.45			
	40	63	0.46			
63	120	0.47				
Durability	Nominal thickness (mm)	Values max (%)				
	-	120	C: 0,16 Si: 0,50 Mn: 1,70 P: 0,030 S: 0,025 Nb: 0,050 V: 0,12 Al: 0,015 Ti: 0,05 Cr: 0,30 Ni: 0,80 Mo: 0,20 Cu: 0,55 N: 0,025			



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LPE Section S420M

EN 10025-1 – 2004

Section S420M / 1.8834

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Elongation :
 Tensile Strength :
 Yield Strength : EN10025-4
 Impact Strength :
 Weldability :
 Durability :

Dangerous Substances : No Performance Determined