

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

No. LPE Section S460M

Section S460M / 1.8827 according EN 10025-4

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		
	Nominal thickness (mm)		Values (MPa)				
Tolerances on dimensions and shape	I & H Sections		EN 10034		EN10025-1 2004		
	Equal Flange Tee		EN 10055				
Equal Angle		EN 10056-1					
Unequal Angle		EN10056-2					
Tapered Flange I		EN 10024					
Bulb Flats		EN 10067					
Yield strength (transverse)	>		<=				
	-	16	460				
	16	40	440				
	40	63	430				
	63	80	410				
	80	100	400				
	100	120	385				
	Tensile strength (transverse)	>		<=		min	Max
5		40	540	720			
40		63	530	710	EN10025-1 2004		
63		80	510	690			
80		100	500	680			
100		120	490	660			
Elongation (transverse)		>		<=		Values min (% 5.65√so)	
		5	120	17			
Impact strength (longitudinal)			40J at - 20°C				
Weldability CEV	>		<=		Values max (%)		
	-	16	0.45				
	16	40	0.46				
	40	63	0.47				
	63	120	0.48				
Durability	>		<=		Values max (%)		
	-	120	C: 0,16 Si: 0,60 Mn: 1,70 P: 0,030 S: 0,025 Nb: 0,050 V: 0,12 Al: 0,020 Ti: 0,05 Cr: 0,30 Ni: 0,80 Mo: 0,20 Cu: 0,55 N: 0,025				



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EN 10025-1 – 2004

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

Dangerous Substances : No Performance Determined