

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

No. LPE Section S460ML

**Plate S460ML / 1.8838 according EN 10025-4**

To be used in-welded, bolted and riveted structures

Tata Steel UK Limited  
Long Products Europe  
PO Box 1, Brigg Road  
Scunthorpe, DN16 1BP  
Tel: +44 (0)1724 404040  
Website : www.tatasteeleurope.com

CE Marking Notified Body  
Lloyds Register Verification Limited  
71 Fenchurch Street, London, EC3M 4BS  
Tel :+44 (0)207 423 2428  
Email : ecdirectives@lr.org  
Website : www.lr.org

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

**1<sup>st</sup> 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			460	
	16	40			440	
	40	63			430	
	63	80			410	
	80	100			400	
100	120	385				
Tensile strength (transverse)	Nominal thickness (mm)	Values (MPa)			min	Max
	>	<=				
	5	40	540	720		
	40	63	530	710		
	63	80	510	690		
	80	100	500	680		
	100	120	490	660		
Elongation (transverse)	Nominal thickness (mm)	Values min (% 5.65√s <sub>0</sub> )				
	>	<=				
	5	120	17			
Impact strength (longitudinal)		27J at - 50°C				
Weldability CEV	Nominal thickness (mm)	Values max (%)				
	>	<=				
	-	16	0.45			
	16	40	0.46			
	40	63	0.47			
63	120	0.48				
Durability	Nominal thickness (mm)	Values max (%)				
	-	-	C: 0,16 Si: 0,60 Mn: 1,70 P: 0,025 S: 0,020 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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Scunthorpe, UK

13

LPE Section S460ML

EN 10025-1 – 2004

Section S460ML / 1.8838

To be used in-welded, bolted and riveted structures

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

Dangerous Substances : No Performance Determined