

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

No. LPE Plate S460ML

Plate S460ML / 1.8838 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
Tolerances on dimensions and shape	Thickness		EN 10029		EN10025-1 2004
	Flatness		EN 10029		
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√s0)		
	>	<=			
	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)				
	-	120	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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Tata Steel Long Products Europe PO Box 1, Brigg Road Scunthorpe, UK 13 LPE Plate S460ML
EN 10025-1 – 2004 Plate S460ML / 1.8838 To be used in-welded, bolted and riveted structures Tolerances on dimensions : Plate EN10029 Elongation : Tensile Strength : Yield Strength : EN10025-4 Impact Strength : Weldability : Durability : Dangerous Substances : No Performance Determined