

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

No. LPE Plate S420M

Plate 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	Thickness		EN 10029	
	Flatness		EN 10029	
Yield strength (transverse)	Nominal thickness (mm)		Values Min (Mpa)	
	>	<=		
	-	16	420	
	16	40	400	
	40	63	390	
	63	80	380	
	80	100	370	
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√so)	
	>	<=		
	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	
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	

EN10025-1 2004



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LPE Plate S420M

EN 10025-1 – 2004
Plate S420M / 1.8834

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