

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

No. LPE Plate S420N

Plate S420N / 1.8902 according EN 10025-3

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
Yield strength (transverse)	Flatness	EN 10029			
	Nominal thickness (mm)	Values Min (Mpa)			
	>	<=			
	-	16	420		
	16	40	400		
	40	63	390		
	63	80	370		
	80	100	360		
Tensile strength (transverse)	100	150	340		
	Nominal thickness (mm)	Values (MPa)			
	>	<=	min	max	
	5	100	520	680	
	100	150	500	650	
	Elongation (transverse)	Nominal thickness (mm)	Values min (%; 5.65√so)		
>		<=			
5		40	19		
40		63	19		
63		80	18		
80	150	18			
Impact strength (longitudinal)		40J at - 20°C			
Weldability CEV	Nominal thickness (mm)	Values max (%)			
	>	<=			
	-	63	0.48		
	63	100	0.50		
	100	150	0.52		
Durability	Nominal thickness (mm)	Values max (%)			
	-	150	C: 0,22 Si: 0,65 Mn: 0,95 - 1,80 P: 0,035 S: 0,030 Nb: 0,060 V: 0,22 Al: 0,015 Ti: 0,060 Cr: 0,35 Ni: 0,85 Mo: 0,13 Cu: 0,60 N: 0,027		

 0038
Tata Steel Long Products Europe PO Box 1, Brigg Road Scunthorpe, UK 13 LPE Plate S420N
EN 10025-1 – 2004 Plate S420N / 1.8902 To be used in-welded, bolted and riveted structures Tolerances on dimensions : Plate EN10029 Elongation : Tensile Strength : Yield Strength : EN10025-3 Impact Strength : Weldability : Durability : Dangerous Substances : No Performance Determined