

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

No. LPE Plate S420NL

**Plate S420NL / 1.8912 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

**1<sup>st</sup> 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√s <sub>0</sub> )		
>		<=			
5		40	19		
40		63	19		
63		80	18		
80	150	18			
Impact strength (longitudinal)			27J at - 50°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: 0,030 S: 0,025 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		



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Scunthorpe, UK

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LPE Plate S420NL

EN 10025-1 – 2004

Plate S420NL / 1.8912

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