

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

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

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	370	
	80	100	360	
	100	150	340	
Tensile strength (transverse)	Nominal thickness (mm)		Values (MPa)	
	>	<=	min	max
	5	100	520	680
	100	150	500	650
	Nominal thickness (mm)		Values min (% , 5.65\sqrt{so})	
Elongation (transverse)	>	<=		
	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	

EN10025-1 2004



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Tata Steel
Long Products Europe
PO Box 1, Brigg Road
Scunthorpe, UK

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LPE Plate S420NL

EN 10025-1 – 2004

Plate S420NL / 1.8912

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Tolerances on dimensions : Plate EN10029

Elongation :
Tensile Strength :
Yield Strength : EN10025-3
Impact Strength :
Weldability :
Durability :

Dangerous Substances : No Performance Determined