

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

No. LPE Section S420ML

Section S420ML / 1.8836 according EN 10025-4

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	I & H Sections Equal Flange Tee Equal Angle Unequal Angle Tapered Flange I Bulb Flats	EN 10034 EN 10055 EN 10056-1 EN10056-2 EN 10024 EN 10067	EN10025-1 2004			
Yield strength (transverse)	Nominal thickness (mm)	Values Min (MPa)				
	>	<=				
	-	16			420	
	16	40			400	
	40	63			390	
	63	80			380	
	80	100			370	
100	120	365				
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√s ₀)				
	>	<=				
	5	120	19			
Impact strength (longitudinal)		27J at - 50°C				
Weldability CEV	Nominal thickness (mm)	Values max (%)				
	>	<=				
	-	16	0.43			
	16	40	0.45			
	40	63	0.46			
63	120	0.47				
Durability	Nominal thickness (mm)	Values max (%)				
	-	120	C: 0,16 Si: 0,50 Mn: 1,70 P: 0,025 S: 0,020 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			



0038

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

13

LPE Section S420ML

EN 10025-1 – 2004

Section S420ML / 1.8836

To be used in-welded, bolted and riveted structures

Elongation :
Tensile Strength :
Yield Strength : EN10025-4
Impact Strength :
Weldability :
Durability :

Dangerous Substances : No Performance Determined