

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

No. LPE Section S355ML

Section S355ML / 1.8834 according EN 10025-4

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	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			355	
	16	40			345	
	40	63			335	
	63	80			325	
	80	100			325	
100	120	320				
Tensile strength (transverse)	Nominal thickness (mm)	Values (MPa)			min	Max
	>	<=				
	5	40	470	630		
	40	63	450	610		
	63	100	440	600		
	100	120	430	590		
Elongation (transverse)	Nominal thickness (mm)	Values min (% , 5.65√s ₀)				
	>	<=				
5	120	22				
Impact strength (longitudinal)		27J at - 50°C				
Weldability CEV	Nominal thickness (mm)	Values max (%)				
	>	<=				
	-	16	0.39			
	16	40	0.39			
	40	63	0.40			
63	120	0.45				
Durability	Nominal thickness (mm)	Values max (%)				
	-	120	C: 0,14 Si: 0,50 Mn: 1,60 P: 0,025 S: 0,020 Nb: 0,050 V: 0,10 Al: 0,020 Ti: 0,05 Cr: 0,30 Ni: 0,50 Mo: 0,10 Cu: 0,55 N: 0,015			



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LPE Section S355ML

EN 10025-1 – 2004

Section S355ML / 1.8834

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

Dangerous Substances : No Performance Determined