

## Declaration of Performance

(according to regulation EU No 305/2011)

Unique identification of product type:  
**Number: LMB Section & Bar S355J0**

**Bars & Section S355J0 / 1.0553 according EN 10025-2: 2004**

Intended use:  
**Welded, bolted and riveted structures**

Manufacturer:  
**Liberty Merchant Bar plc**  
**Liberty House, P O Box 15**  
**Brigg Road, Scunthorpe**  
**DN16 1XL United Kingdom**

**T: +44 (0) 1724 853333**  
**F: +44 (0) 1724 403044**


**Website:** <http://www.libertysteelscunthorpe.com/>

System of assessment and verification of constancy of performance of the product:  
**System 2+**

Scope as detailed in Certificate of Conformity of  
Factory Production Control No: **0038/CPR/20060002/A**

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

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.



Steve Unwin – Managing Director  
Liberty Merchant Bar plc

Date: 29/09/2017

Essential characteristic	Performance				Harmonised specification
Tolerances on dimensions and shape	Flat Bar		EN10058		EN10025-1 2004
	Equal & Unequal Angle		EN 10056-1 & 2		
	Rounds		EN 10060		
	Squares		EN 10059		
	PFC		EN 10279		
	I & H Sections		EN 10034		
Yield strength (longitudinal)	Nominal thickness (mm)		Values Min (MPa)		
	>	≤			
	-	16	355		
	16	40	345		
	40	63	335		
	63	80	325		
	80	100	315		
Tensile strength (longitudinal)	Nominal thickness (mm)		Values (MPa)		
	≥	≤	min	max	
	3	100	470	630	
	>	≤			
	-	40	22		
Elongation (longitudinal)	Nominal thickness (mm)		Values min (%; 5.65V <sub>so</sub> )		
	>	≤			
	40	63	21		
	63	100	20		
Impact strength (longitudinal)	J0		27J at 0°C		
Weldability CEV	Nominal thickness (mm)		Values max (%)		
	>	≤			
	-	30	0.45		
	30	100	0.47		
Durability	Nominal thickness (mm)		Values max (%)		
	-	≤40	C: 0.20 Si: 0.55 Mn: 1.60 P: 0.030 S: 0.030 N: 0.012 Cu: 0.55		
		>40	C: 0.22 Si: 0.55 Mn: 1.60 P: 0.030 S: 0.030 N: 0.012 Cu: 0.55		



0038

EN 10025-1 – 2004

**Bar and Section S355J0 / 1.0553**

To be used in welded, bolted and riveted structures

Elongation:  
Tensile Strength:  
Yield Strength: EN10025-2  
Impact Strength:  
Weldability:  
Durability:

Dangerous Substances: No Performance Determined

CE Marking Notified Body:  
Lloyds Register Verification Limited  
71 Fenchurch Street, London, EC3M 4BS  
Tel: +44 (0)207 423 2428  
Email: [ecdirectives@lr.org](mailto:ecdirectives@lr.org)  
Website: [www.lr.org](http://www.lr.org)

**Liberty Merchant Bar**