

Declaration of Performance

(according to regulation EU No 305/2011)

Unique identification of product type:
Number: LMB Section & Bar S355JR

Bars & Section S355JR / 1.0045 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

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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: **2814/CPR/20060002/A**

Notified factory production control certification body No. 2814 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.



Subhajit Roy Chowdhury
Chief Executive Officer
GFG Alliance, UK

Date: 25-10-2021

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		
Elongation (longitudinal)	Nominal thickness (mm)	Values min (% , 5.65V _{so})				
	>	≤				
	-	40	22			
	40	63	21			
	63	100	20			
Impact strength (longitudinal)	JR	27J at +20°C				
Weldability CEV	Nominal thickness (mm)	Values max (%)				
	>	≤				
	-	30	0.45			
	30	100	0.47			
Durability	Nominal thickness (mm)	Values max (%)				
	-	> 40	C:0.24 Si: 0.55 Mn: 1.60 P: 0.035 S: 0.035 N: 0.012 Cu: 0.55			



2814

EN 10025-1 – 2004

Bar and Section S355JR / 1.0045

To be used in welded, bolted and riveted structures

Elongation:
Tensile Strength:
Yield Strength:
Impact Strength:
Weldability:
Durability:

EN10025-2

Dangerous Substances: No Performance Determined

CE Marking Notified Body:
Lloyd's Register Verification B.V.
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Liberty Merchant Bar

