

Declaration of Performance

(The Construction Products (Amendment) (EU Exit) Regulations 2020 No.1359)

Unique identification of product type:
Number: LMB Section & Bar S450J0

Bars & Section S450J0 / 1.0590 according EN 10025-2: 2004

Intended use:
Welded, bolted and riveted structures

Manufacturer:
Liberty Merchant Bar plc
Liberty House, P O Box 15
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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**

Factory production control assessment 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 Exit) 2020 No 1359, 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 Equal & Unequal Angle Rounds Squares PFC I & H Sections	EN10058		EN10025-1 2004	
		EN 10056-1 & 2 EN 10060 EN 10059 EN 10279 EN 10034			
Yield strength (longitudinal)	Nominal thickness (mm)	Values Min (MPa)			
		>	≤		
		-	16		450
		16	40		430
		40	63		410
		63	80		390
Tensile strength (longitudinal)	Nominal thickness (mm)	Values (MPa)			
		≥	≤		min
		3	100	550	720
		Elongation (longitudinal)	Nominal thickness (mm)	Values min (% , 5.65√s ₀)	
				>	≤
		-	100	17	
Impact strength (longitudinal)	J0	27J at 0°C			
		27J at 0°C			
Weldability CEV	Nominal thickness (mm)	Values max (%)			
		>	≤		
		-	30	0.47	
		30	100	0.49	
Durability	Nominal thickness (mm)	Values max (%)			
		-	≤40	C: 0.20 Si: 0.55 Mn: 1.70 P: 0.030 S: 0.030 N: 0.025 Cu: 0.55	
	>40	C: 0.22 Si: 0.55 Mn: 1.70 P: 0.030 S: 0.030 N: 0.025 Cu: 0.55			



0038

EN 10025-1 – 2004

Bar and Section S450J0 / 1.0590

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

UK Conformity Assessment Body:
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Liberty Merchant Bar

