

## Declaration of Performance

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

Unique identification of product type:  
**Number: LMB Section & Bar S355J2**

**Bars & Section S355J2 / 1.0577 according EN 10025-2: 2004**

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

Manufacturer:  
**Liberty Merchant Bar plc**  
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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<br>Equal &<br>Unequal Angle<br>Rounds<br>Squares<br>PFC<br>I & H Sections | EN10058<br><br>EN 10056-1 & 2<br>EN 10060<br>EN 10059<br>EN 10279<br>EN 10034 | EN10025-1 2004  |  |     |     |
| Yield strength (longitudinal)      | Nominal thickness (mm)   | Values Min (MPa)  |   |  |     |     |
|                                    | >  | ≤   |   |  |     |     |
|                                    | -  | 16  |   |  | 355 |     |
|                                    | 16   | 40  |   |  | 345 |     |
|                                    | 40   | 63  |   |  | 335 |     |
|                                    | 63   | 80  |   |  | 325 |     |
| Tensile strength (longitudinal)    | 80   | 100   |   |  | 315 |     |
|                                    | Nominal thickness (mm)   | Values (MPa)  |   |  | min | max |
|                                    | ≥  | ≤   |   |  | 470 | 630 |
| Elongation (longitudinal)          | 3  | 100   | 22  |  |     |     |
|                                    | Nominal thickness (mm)   | Values min (% , 5.65v <sub>so</sub> )   |   |  |     |     |
|                                    | >  | ≤   |   |  |     |     |
|                                    | -  | 40  | 21  |  |     |     |
|                                    | 40   | 63  | 20  |  |     |     |
| Impact strength (longitudinal)     | 63   | 100   | 20  |  |     |     |
|                                    | J2   | 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: 0.20<br>Si: 0.55<br>Mn: 1.60<br>P: 0.030<br>S: 0.030<br>N: 0.012<br>Cu: 0.55 |  |     |     |
|                                    | >  | >40   | C: 0.22<br>Si: 0.55<br>Mn: 1.60<br>P: 0.030<br>S: 0.030<br>N: 0.012<br>Cu: 0.55 |  |     |     |



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EN 10025-1 – 2004

**Bar and Section S355J2 / 1.0577**

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**

