# Declaration of Performance

(according to regulation EU No 305/2011)

No. Plate **S355M**

Plate **S355M / 1.8823** according **EN 10025-4**

To be used in Metal Structures and Composite Metal and Concrete 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
CEO Liberty Steel Dalzell Limited
Date: 15th September 2016

| Essential Characteristic | Performance | | | | Harmonised Technical Specification |
|---|---|---|---|---|---|
| **Tolerances on dimensions & shape** | **Thickness** | | EN 10029 | | EN1005-1 2004 |
| | **Flatness** | | EN 10029 | | |
| **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√so)** | | |
| | **>** | **<=** | | | |
| | 0 | 120 | 22 | | |
| **Impact strength (longitudinal)** | | | 40J at - 20°C | | |
| **Weldability CEV** | **Nominal Thickness (mm)** | | **Values Max (%)** | | |
| | **>** | **<=** | | | |
| | - | 40 | 0.39 | | |
| | 40 | 63 | 0.40 | | |
| | 63 | 120 | 0.45 | | |
| **Durability** | **Nominal Thickness (mm)** | | **Values Max (%)** | | |
| | 0 | 120 | C: 0.14 | | |
| | | | Si: 0.50 | | |
| | | | Mn: 1.60 | | |
| | | | P: 0.030 | | |
| | | | S: 0.025 | | |
| | | | Nb: 0.05 | | |
| | | | V: 0.10 | | |
| | | | Ti: 0.05 | | |
| | | | Cr: 0.30 | | |
| | | | Ni: 0.50 | | |
| | | | Mo: 0.10 | | |
| | | | Cu: 0.55 | | |
| | | | N: 0.015 | | |

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Plate **S355M**

EN 10025-1 – 2004

Plate **S355M / 1.8823**

To be used in Metal Structures and Composite Metal and Concrete Structures

Tolerances on dimensions: Plate EN10029

Elongation:
Tensile Strength:
Yield Strength: **EN10025-4**
Impact Strength:
Weldability:
Durability:
Dangerous Substances: No Performance Determined