

Declaration of Performance

(according to Construction Product Regulation (EU Exit)
2020 No 1359)

No. Plate **S355J4W**

Plate **S355J4W / 1.8787** according **EN 10025-5**

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

Liberty Steel Dalzell Limited

Park Street, Motherwell, ML1 1PU
United Kingdom

Tel: +44 (0)1698 266100

Website: <https://libersteeelgroup.com/uk/our-locations/liberty-steel-dalzell/>


UK Conformity Assessment Body
LRQA Verification Limited, 1 Trinity Park
Bickenhill Lane, Birmingham B37 7ES
Tel: +44 (0)330 414 1351
Website: www.lrqa.com

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

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

Signed for and behalf of Liberty Steel Dalzell Ltd;

Name: Kenny McLeary
Title: Technical Manager

Sign: 
Date: 04/02/22



| Essential Characteristic | Performance | | Harmonised Technical Specification | |
|----------------------------------|------------------------|-----|------------------------------------|-----|
| Tolerances on dimensions & shape | Thickness | | EN 10029 | |
| | 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 | 315 | |
| 100 | 150 | 295 | | |
| Tensile strength (transverse) | Nominal Thickness (mm) | | Values (Mpa) | |
| | > | <= | Min | Max |
| | 5 | 100 | 470 | 630 |
| | 100 | 150 | 450 | 600 |
| Elongation (transverse) | Nominal Thickness (mm) | | Values Min (% , 5.65√so) | |
| | > | <= | | |
| | 0 | 40 | 20 | |
| | 40 | 63 | 19 | |
| 63 | 150 | 18 | | |
| Impact strength (longitudinal) | L | | 27J at -40°C | |
| Weldability CEV | Nominal Thickness (mm) | | Values Max (%) | |
| | > | <= | | |
| | - | 63 | | |
| | 63 | 100 | 0.52 | |
| 100 | 150 | | | |
| Durability | Nominal Thickness (mm) | | Values Max (%) | |
| | 0 | 150 | C: 0.16 | |
| | | | Si: 0.50 | |
| | | | Mn: 0.5 – 1.50 | |
| | | | P: 0.030 | |
| | | | S: 0.030 | |
| | | | Nb: 0.015 – 0.060 | |
| | | | V: 0.02 – 0.12 | |
| | | | Ti: 0.02 – 0.10 | |
| | | | Cr: 0.40 – 0.80 | |
| | | | Ni: 0.65 | |
| | | | Mo: 0.30 | |
| Cu: 0.25 - 0.55 | | | | |
| N: 0.009 | | | | |

EN10025-1 2004



Liberty Steel Dalzell Limited
Park Street, Motherwell, ML1 1PU
United Kingdom

16

Plate **S355J4W**

EN 10025-1 – 2004

Plate **S355J4W / 1.8787**

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

Tolerances on dimensions: Plate EN10029

Elongation:
Tensile Strength:
Yield Strength: **EN10025-5**
Impact Strength:
Weldability:
Durability:
Dangerous Substances: No Performance Determined