

Liberty Steel Dalzell - Declarations of Performance for weathering steels EN10025-5

The following slides represent a single declaration of performance.

Slide Num	Declaration of performance
2	Plate S355J0W / 1.8959 according EN 10025-5
3	Plate S355J2W / 1.8965 according EN 10025-5
4	Plate S355J4W / 1.8787 according EN 10025-5
5	Plate S355J5W / 1.8991 according EN 10025-5
6	Plate S355K2W / 1.8967 according EN 10025-5

(according to Construction Product Regulation EU No 305/2011)

No. Plate **S355J2W**

Plate **S355J2W / 1.8965** 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://libertysteelgroup.com/uk/our-locations/liberty-steel-dalzell/>

CE Marking Notified Body
LRQA, Nederland BV
George Hintzenweg 77
3068 AX Rotterdam
Tel: +31 (0) 10 2248500

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

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

Signed for and behalf of Liberty Steel Dalzell Ltd;

Name: Kenny McLeary
Title: Technical Manager

Sign: K. McLeary
Date 29/04/24



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 -20°C		
Weldability CEV	Nominal Thickness (mm)		Values Max (%)		
	>	<=	0.52		
	-	63			
	63	100			
	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					



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

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Plate **S355J2W**

EN 10025-1 – 2004

Plate **S355J2W / 1.8965**

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

(according to Construction Product Regulation EU No 305/2011)

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

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Name: Kenny McLeary
Title: Technical Manager



LIBERTY

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 (%)		
	>	<=	0.52		
	-	63			
	63	100			
	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					



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Plate **S355J4W**Plate **S355J4W / 1.8787**

Tolerances on dimensions: Plate EN10029

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

