

Declaration of Performance

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

No. Plate **S355J5W**

Plate **S355J5W / 1.8991** 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.lrqqa.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 -50°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



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EN 10025-1 – 2004

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Tolerances on dimensions: Plate EN10029

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