

## Declaration of Performance

(according to 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

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Lloyds Register Verification Limited  
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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: 15<sup>th</sup> September 2016



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	
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√s0)	
	>	<=		
	0	40	20	
	40	63	19	
Impact strength (longitudinal)	L		27J at -20°C	
			EN1005-1 2004	
Weldability CEV	Nominal Thickness (mm)		Values Max (%)	
	>	<=		
	-	63	0.52	
	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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16

Plate **S355J2W**

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