

## Declaration of Performance

(according to regulation EU No 305/2011)

No. Plate **S275N**

Plate **S275N / 1.0490** according **EN 10025-3**

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

### Liberty Steel Dalzell Limited

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United Kingdom

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Website: [www.libertyhg.com/Dalzell](http://www.libertyhg.com/Dalzell)

CE Marking Notified Body

Lloyds Register Verification Limited  
71 Fenchurch Street, London, EC3M 4BS

Tel: +44 (0)207 423 2428

Email: [ecdirectives@lr.org](mailto:ecdirectives@lr.org)

Website: [www.lr.org](http://www.lr.org)

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



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	275	
	16	40	265	
	40	63	255	
	63	80	245	
	80	100	235	
100	150	225		
Tensile strength (transverse)	Nominal Thickness (mm)		Values (Mpa)	
	>	<=	Min	Max
	5	100	370	510
	100	150	350	480
Elongation (transverse)	Nominal Thickness (mm)		Values Min (% , 5.65√so)	
	>	<=		
	0	63	24	
	63	150	23	
Impact strength (longitudinal)	L		40J at - 20°C	
Weldability CEV	Nominal Thickness (mm)		Values Max (%)	
	>	<=		
	-	63	0.40	
	30	100	0.40	
100	150	0.42		
Durability	Nominal Thickness (mm)		Values Max (%)	
	0	150	C: 0.18	
			Si: 0.40	
			Mn: 1.50	
			P: 0.030	
			S: 0.025	
			Nb: 0.05	
			V: 0.05	
			Ti: 0.05	
			Cr: 0.30	
			Ni: 0.30	
			Mo: 0.10	
			Cu: 0.55	
N: 0.015				

EN1005-1 2004



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Plate **S275N**

EN 10025-1 – 2004

Plate **S275N / 1.0490**

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

Tolerances on dimensions: Plate EN10029

Elongation:

Tensile Strength:

Yield Strength: **EN10025-3**

Impact Strength:

Weldability:

Durability:

Dangerous Substances: No Performance Determined