

## Declaration of Performance

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

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

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.lrq.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	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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EN 10025-1 – 2004

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Tolerances on dimensions: Plate EN10029

Elongation:  
Tensile Strength:  
Yield Strength: **EN10025-3**  
Impact Strength:  
Weldability:  
Durability:  
Dangerous Substances: No Performance Determined