

## Declaration of Performance

(according to regulation EU No 305/2011)

No. Plate **S235J0**

Plate **S235J0 / 1.0114** according **EN 10025-2**

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: [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



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	235	
	16	40	225	
	40	63	215	
	63	80	215	
	80	100	215	
Tensile strength (transverse)	Nominal Thickness (mm)		Values (Mpa)	
	>	<=	Min	Max
	5	100	360	510
	100	150	350	500
Elongation (transverse)	Nominal Thickness (mm)		Values Min (% , 5.65 <sup>√so</sup> )	
	>	<=		
	5	40	24	
	40	63	23	
	63	100	22	
Impact strength (longitudinal)	J0		27J at 0°C	
Weldability CEV	Nominal Thickness (mm)		Values Max (%)	
	>	<=		
	-	40	0.35	
Durability	Nominal Thickness (mm)		Values Max (%)	
	-	<=150	C: 0.17	
			Mn: 1.40	
			P: 0.030	
			S: 0.030	
			N: 0.012	
		Cu: 0.55		

EN10025-1 2004



0038

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

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Plate **S235J0**

EN 10025-1 – 2004

Plate **S235J0 / 1.0114**

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

Tolerances on dimensions: Plate EN10029

Elongation:

Tensile Strength:

Yield Strength: **EN10025-2**

Impact Strength:

Weldability:

Durability:

Dangerous Substances: No Performance Determined

## Declaration of Performance

(according to regulation EU No 305/2011)

No. Plate **S235J2**

Plate **S235J2 / 1.0117** according **EN 10025-2**

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

### Liberty Steel Dalzell Limited

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System 2+

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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	235	
	16	40	225	
	40	63	215	
	63	80	215	
	80	100	215	
Tensile strength (transverse)	Nominal Thickness (mm)		Values (Mpa)	
	>	<=	Min	Max
	5	100	360	510
	100	150	350	500
Elongation (transverse)	Nominal Thickness (mm)		Values Min (% , 5.65 $\sqrt{so}$ )	
	>	<=		
	5	40	24	
	40	63	23	
	63	100	22	
Impact strength (longitudinal)	<b>J2</b>		27J at - 20°C	
	Nominal Thickness (mm)		Values Max (%)	
Weldability CEV	>	<=		
	-	40	0.35	
	40	150	0.38	
Durability	Nominal Thickness (mm)		Values Max (%)	
	-	<=150	C: 0.17	
			Mn: 1.40	
			P: 0.025	
			S: 0.025	
		Cu: 0.55		

EN10025-1 2004



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United Kingdom

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Plate **S235J2**

EN 10025-1 – 2004

Plate **S235J2 / 1.0117**

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

Tolerances on dimensions: Plate EN10029

Elongation:

Tensile Strength:

Yield Strength: **EN10025-2**

Impact Strength:

Weldability:

Durability:

Dangerous Substances: No Performance Determined

## Declaration of Performance

(according to regulation EU No 305/2011)

No. Plate **S235JR**

Plate **S235JR / 1.0038** according **EN 10025-2**

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

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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	235	
	16	40	225	
	40	63	215	
	63	80	215	
	80	100	215	
Tensile strength (transverse)	Nominal Thickness (mm)		Values (Mpa)	
	>	<=	Min	Max
	5	100	360	510
	100	150	350	500
Elongation (transverse)	Nominal Thickness (mm)		Values Min (% , 5.65 $\sqrt{so}$ )	
	>	<=		
	5	40	24	
	40	63	23	
	63	100	22	
Impact strength (longitudinal)	JR		27J at + 20°C	
Weldability CEV	Nominal Thickness (mm)		Values Max (%)	
	>	<=		
	-	40	0.35	
Durability	Nominal Thickness (mm)		Values Max (%)	
	-	<=40	C: 0.17	
			Mn: 1.40	
			P: 0.035	
			S: 0.035	
			N: 0.012	
			Cu: 0.55	
	>40	150	C: 0.20	
			Mn: 1.40	
			P: 0.035	
		S: 0.035		
		N: 0.012		
		Cu: 0.55		

EN10025-1 2004



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Park Street, Motherwell, ML1 1PU  
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Plate **S235JR**

EN 10025-1 – 2004

Plate **S235JR / 1.0038**

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

Tolerances on dimensions: Plate EN10029

Elongation:

Tensile Strength:

Yield Strength: **EN10025-2**

Impact Strength:

Weldability:

Durability:

Dangerous Substances: No Performance Determined

## Declaration of Performance

(according to regulation EU No 305/2011)

No. Plate **S275J0**

Plate **S275J0 / 1.0143** according **EN 10025-2**

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

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System 2+

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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	275	
	16	40	265	
	40	63	255	
	63	80	245	
	80	100	235	
Tensile strength (transverse)	Nominal Thickness (mm)		Values (Mpa)	
	>	<=	Min	Max
	5	100	410	560
	100	150	400	540
Elongation (transverse)	Nominal Thickness (mm)		Values Min (% , 5.65 <sup>√so</sup> )	
	>	<=		
	5	40	21	
	40	63	20	
	63	100	19	
Impact strength (longitudinal)	J0		27J at 0°C	
Weldability CEV	Nominal Thickness (mm)		Values Max (%)	
	>	<=		
	-	40	0.40	
Durability	Nominal Thickness (mm)		Values Max (%)	
	-	150	C: 0.18	
			Mn: 1.50	
			P: 0.030	
			S: 0.030	
			N: 0.012	
		Cu: 0.55		

EN10025-1 2004



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Plate **S275J0**

EN 10025-1 – 2004

Plate **S275J0 / 1.0143**

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

Tolerances on dimensions: Plate EN10029

Elongation:

Tensile Strength:

Yield Strength: **EN10025-2**

Impact Strength:

Weldability:

Durability:

Dangerous Substances: No Performance Determined

## Declaration of Performance

(according to regulation EU No 305/2011)

No. Plate **S275J2**

Plate **S275J2 / 1.0145** according **EN 10025-2**

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

### Liberty Steel Dalzell Limited

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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	275	
	16	40	265	
	40	63	255	
	63	80	245	
Tensile strength (transverse)	Nominal Thickness (mm)		Values (Mpa)	
	>	<=	Min	Max
	5	100	410	560
	100	150	400	540
Elongation (transverse)	Nominal Thickness (mm)		Values Min (% , 5.65 <sup>√so</sup> )	
	>	<=		
	5	40	21	
	40	63	20	
	63	100	19	
Impact strength (longitudinal)	J2		27J at - 20°C	
Weldability CEV	Nominal Thickness (mm)		Values Max (%)	
	>	<=		
	-	40	0.40	
Durability	Nominal Thickness (mm)		Values Max (%)	
	-	150	C: 0.18	
			Mn: 1.50	
			P: 0.025	
			S: 0.025	
		Cu: 0.55		

EN10025-1 2004



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Park Street, Motherwell, ML1 1PU  
United Kingdom

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Plate **S275J2**

EN 10025-1 – 2004

Plate **S275J2 / 1.0145**

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

Tolerances on dimensions: Plate EN10029

Elongation:

Tensile Strength:

Yield Strength: **EN10025-2**

Impact Strength:

Weldability:

Durability:

Dangerous Substances: No Performance Determined

## Declaration of Performance

(according to regulation EU No 305/2011)

No. Plate **S275JR**

Plate **S275JR / 1.0044** according **EN 10025-2**

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

### Liberty Steel Dalzell Limited

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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	275	
	16	40	265	
	40	63	255	
	63	80	245	
	80	100	235	
Tensile strength (transverse)	Nominal Thickness (mm)		Values (Mpa)	
	>	<=	Min	Max
	5	100	410	560
	100	150	400	540
Elongation (transverse)	Nominal Thickness (mm)		Values Min (% , 5.65 <sup>√so</sup> )	
	>	<=		
	5	40	21	
	40	63	20	
	63	100	19	
Impact strength (longitudinal)			40J at - 20°C	
Weldability CEV	Nominal Thickness (mm)		Values Max (%)	
	>	<=		
	-	40	0.40	
Durability	Nominal Thickness (mm)		Values Max (%)	
	-	<=40	C: 0.21	
			Mn: 1.50	
			P: 0.035	
			S: 0.035	
			N: 0.012	
			Cu: 0.55	
	>40	150	C: 0.22	
			Mn: 1.50	
			P: 0.035	
		S: 0.035		
		N: 0.012		
		Cu: 0.55		

EN10025-1 2004



0038

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United Kingdom

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Plate **S275JR**

EN 10025-1 – 2004

Plate **S275JR / 1.0044**

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

Tolerances on dimensions: Plate EN10029

Elongation:

Tensile Strength:

Yield Strength: **EN10025-2**

Impact Strength:

Weldability:

Durability:

Dangerous Substances: No Performance Determined

## Declaration of Performance

(according to regulation EU No 305/2011)

No. Plate **S275JR**

Plate **S275JR / 1.0044** according **EN 10025-2**

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

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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	275	
	16	40	265	
	40	63	255	
	63	80	245	
	80	100	235	
Tensile strength (transverse)	Nominal Thickness (mm)		Values (Mpa)	
	>	<=	Min	Max
	5	100	410	560
	100	150	400	540
Elongation (transverse)	Nominal Thickness (mm)		Values Min (% , 5.65 $\sqrt{so}$ )	
	>	<=		
	5	40	21	
	40	63	20	
	63	100	19	
100	150	19		
Impact strength (longitudinal)			40J at - 20°C	
Weldability CEV	Nominal Thickness (mm)		Values Max (%)	
	>	<=		
	-	40	0.40	
40	150	0.42		
Durability	Nominal Thickness (mm)		Values Max (%)	
	-	<=40	C: 0.21	
			Mn: 1.50	
			P: 0.035	
			S: 0.035	
			N: 0.012	
	>40	150	Cu: 0.55	
			C: 0.22	
			Mn: 1.50	
			P: 0.035	
S: 0.035				
		N: 0.012		
		Cu: 0.55		

EN10025-1 2004



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Plate **S275JR**

EN 10025-1 – 2004

Plate **S275JR / 1.0044**

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

Tolerances on dimensions: Plate EN10029

Elongation:

Tensile Strength:

Yield Strength: **EN10025-2**

Impact Strength:

Weldability:

Durability:

Dangerous Substances: No Performance Determined

## 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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System 2+

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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		
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	
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	
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



## Declaration of Performance

(according to regulation EU No 305/2011)

No. Plate **S275NL**

Plate **S275NL / 1.0491** according **EN 10025-3**

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

### Liberty Steel Dalzell Limited

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System 2+

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Jon Bolton

CEO Liberty Steel Dalzell Limited

Date: 15<sup>th</sup> September 2016



Essential Characteristic	Performance			Harmonised Technical Specification
	Thickness		EN 10029	
Tolerances on dimensions & shape	Flatness		EN 10029	EN1005-1 2004
	Nominal Thickness (mm)		Values Min (Mpa)	
Yield strength (transverse)	>	<=		
	-	16	275	
	16	40	265	
	40	63	255	
	63	80	245	
	80	100	235	
Tensile strength (transverse)	100	150	225	
	Nominal Thickness (mm)		Values (Mpa)	
	>	<=	Min Max	
	5	100	370 510	
Elongation (transverse)	100	150	350 480	
	Nominal Thickness (mm)		Values Min (% , 5.65√so)	
	>	<=		
	0	63	24	
Impact strength (longitudinal)	63	150	23	
	L		27J at - 50°C	
Weldability CEV	Nominal Thickness (mm)		Values Max (%)	
	>	<=		
	-	63	0.40	
	63	100	0.40	
Durability	100	150	0.42	
	Nominal Thickness (mm)		Values Max (%)	
	0	150	C: 0.16	
			Si: 0.40	
			Mn: 1.50	
			P: 0.025	
			S: 0.020	
			Nb: 0.05	
			V: 0.05	
			Ti: 0.05	
			Cr: 0.30	
			Ni: 0.30	
Mo: 0.10				
Cu: 0.55				
N: 0.015				



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United Kingdom

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Plate **S275NL**

EN 10025-1 – 2004

Plate **S275NL / 1.0491**

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

## Declaration of Performance

(according to regulation EU No 305/2011)

No. Plate **S355J0**

Plate **S355J0 / 1.0553** according **EN 10025-2**

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

### Liberty Steel Dalzell Limited

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

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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



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	325	
	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√so)	
	>	<=		
	5	40	20	
	40	63	19	
	63	100	18	
Impact strength (longitudinal)	<b>J0</b>		27J at 0°C	
	27J at 0°C			
Weldability CEV	Nominal Thickness (mm)		Values Max (%)	
	>	<=		
	-	30	0.45	
	30	40	0.47	
Durability	Nominal Thickness (mm)		Values Max (%)	
	-	<=40	C: 0.20 (>30mm 0.22)	
			Si: 0.55	
			Mn: 1.60	
			P: 0.030	
			S: 0.030	
			N: 0.012	
			Cu: 0.55	
			C: 0.20	
			Si: 0.55	
			Mn: 1.60	
			P: 0.030	
		S: 0.030		
		N: 0.012		
		Cu: 0.55		

EN10025-1 2004



0038

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

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Plate **S355J0**

EN 10025-1 – 2004

Plate **S355J0 / 1.0553**

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

Tolerances on dimensions: Plate EN10029

Elongation:  
Tensile Strength:  
Yield Strength: **EN10025-2**  
Impact Strength:  
Weldability:  
Durability:  
Dangerous Substances: No Performance Determined

## Declaration of Performance

(according to regulation EU No 305/2011)

No. Plate **S355J2**

Plate **S355J2 / 1.0577** according **EN 10025-2**

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

### Liberty Steel Dalzell Limited

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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



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	325	
	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√so)	
	>	<=		
	5	40	20	
	40	63	19	
	63	100	18	
Impact strength (longitudinal)	J2		27J at - 20°C	
Weldability CEV	Nominal Thickness (mm)		Values Max (%)	
	>	<=		
	-	30	0.45	
	30	40	0.47	
Durability	Nominal Thickness (mm)		Values Max (%)	
	-	<=40	C: 0.20 (>30mm 0.22)	
			Si: 0.55	
			Mn: 1.60	
			P: 0.025	
			S: 0.025	
	>40	150	Cu: 0.55	
			C: 0.22	
			Si: 0.55	
			Mn: 1.60	
P: 0.025				
		S: 0.025		
		Cu: 0.55		

EN10025-1 2004



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

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Plate **S355J2**

EN 10025-1 – 2004

Plate **S355J2 / 1.0577**

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

Tolerances on dimensions: Plate EN10029

Elongation:

Tensile Strength:

Yield Strength: **EN10025-2**

Impact Strength:

Weldability:

Durability:

Dangerous Substances: No Performance Determined

## Declaration of Performance

(according to regulation EU No 305/2011)

No. Plate **S355JR**

Plate **S355JR / 1.0045** according **EN 10025-2**

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

### Liberty Steel Dalzell 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	325	
	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√so)	
	>	<=		
	5	40	20	
	40	63	19	
	63	100	18	
Impact strength (longitudinal)	JR		27J at + 20°C	
	Nominal Thickness (mm)		Values Max (%)	
Weldability CEV	>	<=		
	-	30	0.45	
	30	40	0.47	
	40	150	0.47	
Durability	Nominal Thickness (mm)		Values Max (%)	
	-	150	C: 0.24	
			Si: 0.55	
			Mn: 1.60	
			P: 0.035	
			S: 0.035	
			N: 0.012	
		Cu: 0.55		

EN10025-1 2004



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

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Plate **S355JR**

EN 10025-1 – 2004

Plate **S355JR / 1.0045**

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

Tolerances on dimensions: Plate EN10029

Elongation:  
Tensile Strength:  
Yield Strength: **EN10025-2**  
Impact Strength:  
Weldability:  
Durability:  
Dangerous Substances: No Performance Determined

## Declaration of Performance

(according to regulation EU No 305/2011)

No. Plate **S355K2**

Plate **S355K2 / 1.0596** according **EN 10025-2**

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

### Liberty Steel Dalzell 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	325	
	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)	
	>	<=		
	5	40	20	
	40	63	19	
	63	100	18	
100	150	18		
Impact strength (longitudinal)	<b>K2</b>		40J at - 20°C	
Weldability CEV	Nominal Thickness (mm)		Values Max (%)	
	>	<=		
	-	30	0.45	
	30	40	0.47	
40	150	0.47		
Durability	Nominal Thickness (mm)		Values Max (%)	
	-	<=40	C: 0.20 (>30mm 0.22)	
			Si: 0.55	
			Mn: 1.60	
			P: 0.025	
			S: 0.025	
	>40	150	Cu: 0.55	
			C: 0.22	
			Si: 0.55	
			Mn: 1.60	
P: 0.025				
S: 0.025				
Cu: 0.55				

EN10025-1 2004



0038

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

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Plate **S355K2**

EN 10025-1 – 2004

Plate **S355K2 / 1.0596**

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

Tolerances on dimensions: Plate EN10029

Elongation:

Tensile Strength:

Yield Strength: **EN10025-2**

Impact Strength:

Weldability:

Durability:

Dangerous Substances: No Performance Determined

## Declaration of Performance

(according to regulation EU No 305/2011)

No. Plate **S355N**

Plate **S355N / 1.0545** according **EN 10025-3**

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

### Liberty Steel Dalzell Limited

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

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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	
	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	63	22	
	63	150	21	
Impact strength (longitudinal)	L		40J at - 20°C	
Weldability CEV	Nominal Thickness (mm)		Values Max (%)	
	>	<=		
	-	63	0.43	
	63	100	0.45	
100	150	0.45		
Durability	Nominal Thickness (mm)		Values Max (%)	
	0	150	C: 0.20	
			Si: 0.50	
			Mn: 1.65	
			P: 0.030	
			S: 0.025	
			Nb: 0.05	
			V: 0.12	
			Ti: 0.05	
			Cr: 0.30	
			Ni: 0.30	
			Mo: 0.10	
			Cu: 0.55	
N: 0.015				

EN1005-1 2004



0038

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

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Plate **S355N**

EN 10025-1 – 2004

Plate **S355N / 1.0545**

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

## Declaration of Performance

(according to regulation EU No 305/2011)

No. Plate **S355NL**

Plate **S355NL / 1.0546** according **EN 10025-3**

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

### Liberty Steel Dalzell 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
	Thickness		EN 10029	
Tolerances on dimensions & shape	Flatness		EN 10029	EN1005-1 2004
	Nominal Thickness (mm)		Values Min (Mpa)	
Yield strength (transverse)	>	<=		
	-	16	355	
	16	40	345	
	40	63	335	
	63	80	325	
	80	100	315	
Tensile strength (transverse)	100	150	295	
	Nominal Thickness (mm)		Values (Mpa)	
	>	<=	Min Max	
	5	100	470 630	
Elongation (transverse)	100	150	450 600	
	Nominal Thickness (mm)		Values Min (% , 5.65√so)	
	>	<=		
	0	63	22	
Impact strength (longitudinal)	63	150	21	
	L		27J at - 50°C	
Weldability CEV	Nominal Thickness (mm)		Values Max (%)	
	>	<=		
	-	63	0.43	
	63	100	0.45	
Durability	100	150	0.45	
	Nominal Thickness (mm)		Values Max (%)	
	0	150	C: 0.18	
			Si: 0.50	
			Mn: 1.65	
			P: 0.025	
			S: 0.020	
			Nb: 0.05	
			V: 0.12	
			Ti: 0.05	
			Cr: 0.30	
			Ni: 0.30	
Mo: 0.10				
Cu: 0.55				
N: 0.015				



0038

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

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Plate **S355NL**

EN 10025-1 – 2004

Plate **S355NL / 1.0546**

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