

Declaration of Performance

(Acc. to Annex III Construction Products Regulation (305/2011/EU), Regulation (EU) No 574/2014 and (EU Exit) Regulation 2020 No. 1359)

No. LO-001-CPR2023-02-07

- 1) Code of the product type: **1.0039**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S235JRH according to BS EN/EN 10210-1:2006**
Intended use or uses of the construction product, in accordance with the applicable designated technical specification, as foreseen by the manufacturer:
To be used in welded structures
- 3) Liberty Ostrava a.s.
Vratimovská 689/117
719 00 Ostrava - Kunčice - Czech Republic
Tel: +420 595 682 501, Fax: +420 596 237 980
<https://libertysteelgroup.com/cz>
- 4) ----
- 5) System of assessment and verification of constancy of performance of the product: System 2+
- 6) BS EN/EN 1010-1:2006, BS EN/EN 10210-2:2019

Factory production control assessment body No. 0879 TÜV UK Ltd./No. 0045 TÜV NORD 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.

- 7) The performance of the product identified in 1) - see table.
- 8) Certificate No. 0879-CPR-10210-1-CZ00003/No. 0045-CPR-0807-1. The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3. Signed for and on behalf of the manufacturer by:

Radim Svěchovský
Q-Engineer – LO a.s.

Michal Kolář
Q/A manager – LO a.s.




Date: 07.02. 2023

Essential characteristic	Performance				UK designated technical specification / Harmonised technical specification
Tolerances on dimensions and shape			Values		BS EN 10210-2:2019 / EN 10210-2:2019
	Outside diameter		$\pm 1\%$, min $\pm 0,5$ and max $\pm 10\text{mm}$		
	Wall thickness		- 10% (loc. -12,5%) / +8% mass		
	Ovality		2%		
Yield strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	ReH min (MPa)		
		16	235		
	16	40	225		
Tensile strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	Rm min (MPa)	max (MPa)	
		100	360	510	
Elongation	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	min (%)		
		40	26		
Impact strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	KV2Lmin (J)		
		40	27 at 20°C		
Weldability CEV	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤		max (%)	
		16		0,37	
	16	40		0,39	
Durability	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤		max (%)	
		40		C : 0,22 Mn : 1,50 N : 0,011	
				P : 0,050 S : 0,050	

Declaration of Performance

(Acc. to Annex III Construction Products Regulation (305/2011/EU), Regulation (EU) No 574/2014 and (EU Exit) Regulation 2020 No. 1359)

No. LO-002-CPR2023-02-07

- 1) Code of the product type: **1.0149**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S275J0H according to BS EN/EN 10210-1:2006**
Intended use or uses of the construction product, in accordance with the applicable designated technical specification, as foreseen by the manufacturer:
To be used in welded structures
- 3) Liberty Ostrava a.s.
Vratimovská 689/117
719 00 Ostrava - Kunčice - Czech Republic
Tel: +420 595 682 501, Fax:+420 596 237 980
<https://libertysteelgroup.com/cz>
- 4) ----
- 5) System of assessment and verification of constancy of performance of the product: System 2+
- 6) BS EN/EN 1010-1:2006, BS EN/EN 10210-2:2019

Factory production control assessment body No. 0879 TÜV UK Ltd./No. 0045 TÜV NORD 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.

- 7) The performance of the product identified in 1) - see table.
- 8) Certificate No. 0879-CPR-10210-1-CZ00003/No. 0045-CPR-0807-1. The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3. Signed for and on behalf of the manufacturer by:

Radim Svěchovský
Q-Engineer – LO a.s.

Michal Kolář
Q/A manager – LO a.s.




Date: 07.02. 2023

Essential characteristic	Performance				UK designated technical specification / Harmonised technical specification
Tolerances on dimensions and shape			Values		BS EN 10210-2:2019 / EN 10210-2:2019
	Outside diameter		$\pm 1\%$, min $\pm 0,5$ and max $\pm 10\text{mm}$		
	Wall thickness		- 10% (loc. -12,5%) / +8% mass		
	Ovality		2%		
Yield strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	ReH min (MPa)		
		16	275		
	16	40	265		
Tensile strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	Rm min (MPa)	max (MPa)	
		3	430	580	
	3	100	410	560	
Elongation	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	min (%)		
		40	23		
Impact strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	KV2Lmin (J)		
		40	27 at 0°C		
Weldability CEV	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤		max (%)	
		16		0,41	
	16	40		0,43	
Durability	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤		max (%)	
		40		C : 0,22 Mn : 1,60 N : 0,011	
		40		P : 0,045 S : 0,045	

Declaration of Performance

(Acc. to Annex III Construction Products Regulation (305/2011/EU), Regulation (EU) No 574/2014 and (EU Exit) Regulation 2020 No. 1359)

No. LO-003-CPR2023-02-07

- 1) Code of the product type: **1.0138**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S275J2H according to BS EN/EN 10210-1:2006**

Intended use or uses of the construction product, in accordance with the applicable designated technical specification, as foreseen by the manufacturer:

To be used in welded structures

- 3) Liberty Ostrava a.s.
Vratimovská 689/117
719 00 Ostrava - Kunčice - Czech Republic
Tel: +420 595 682 501, Fax:+420 596 237 980
<https://libertysteelgroup.com/cz>
- 4) ----
- 5) System of assessment and verification of constancy of performance of the product: System 2+
- 6) BS EN/EN 1010-1:2006, BS EN/EN 10210-2:2019

Factory production control assessment body No. 0879 TÜV UK Ltd./No. 0045 TÜV NORD 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.

7) The performance of the product identified in 1) – see table.

8) Certificate No. 0879-CPR-10210-1-CZ00003/No. 0045-CPR-0807-1. The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3. Signed for and on behalf of the manufacturer by:

Radim Svěchovský
Q-Engineer – LO a.s.

Michal Kolář
Q/A manager – LO a.s.




Date: 07.02. 2023

Essential characteristic	Performance				UK designated technical specification / Harmonised technical specification
Tolerances on dimensions and shape			Values		BS EN 10210-2:2019 / EN 10210-2:2019
	Outside diameter		$\pm 1\%$, min $\pm 0,5$ and max $\pm 10\text{mm}$		
	Wall thickness		$- 10\%$ (loc. $-12,5\%$) / $+8\%$ mass		
	Ovality		2%		
Yield strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	ReH min (MPa)		
		16	275		
	16	40	265		
Tensile strength	Nominal thickness (mm)		Values		
	>	≤	Rm min (MPa)	max (MPa)	
		3	430	580	
	3	100	410	560	
Elongation	Nominal thickness (mm)		Values		
	>	≤	min (%)		
		40	23		
Impact strength	Nominal thickness (mm)		Values		
	>	≤	KV2Lmin (J)		
		40	27 at -20°C		
Weldability CEV	Nominal thickness (mm)		Values		
	>	≤		max (%)	
		16		0,41	
	16	40		0,43	
Durability	Nominal thickness (mm)		Values		
	>	≤		max (%)	
		40		C : 0,22 Mn : 1,60	
				P : 0,040 S : 0,040	

Declaration of Performance

(Acc. to Annex III Construction Products Regulation (305/2011/EU), Regulation (EU) No 574/2014 and (EU Exit) Regulation 2020 No. 1359)

No. LO-004-CPR2023-02-07

- 1) Code of the product type: **1.0493**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S275NH according to BS EN/EN 10210-1:2006**
Intended use or uses of the construction product, in accordance with the applicable designated technical specification, as foreseen by the manufacturer:
To be used in welded structures
- 3) Liberty Ostrava a.s.
Vratimovská 689/117
719 00 Ostrava - Kunčice - Czech Republic
Tel: +420 595 682 501, Fax:+420 596 237 980
<https://libertysteelgroup.com/cz>
- 4) ----
- 5) System of assessment and verification of constancy of performance of the product: System 2+
- 6) BS EN/EN 1010-1:2006, BS EN/EN 10210-2:2019

Factory production control assessment body No. 0879 TÜV UK Ltd./No. 0045 TÜV NORD 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.

- 7) The performance of the product identified in 1) - see table.
- 8) Certificate No. 0879-CPR-10210-1-CZ00003/No. 0045-CPR-0807-1. The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3. Signed for and on behalf of the manufacturer by:

Radim Svěchovský
Q-Engineer – LO a.s.

Michal Kolář
Q/A manager – LO a.s.




Date: 07.02. 2023

Essential characteristic	Performance				UK designated technical specification / Harmonised technical specification
Tolerances on dimensions and shape			Values		BS EN 10210-2:2019 / EN 10210-2:2019
	Outside diameter		$\pm 1\%$, min $\pm 0,5$ and max $\pm 10\text{mm}$		
	Wall thickness		- 10% (loc. -12,5%) / +8% mass		
	Ovality		2%		
Yield strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	ReH min (MPa)		
		16	275		
	16	40	265		
Tensile strength	Nominal thickness (mm)		Values		
	>	≤	Rm min (MPa)	max (MPa)	
		65	370	510	
	Nominal thickness (mm)		Values		
Elongation	>	≤	min (%)		
		65	longit.	transv.	
		65	24	22	
	Nominal thickness (mm)		Values		
Impact strength	>	≤	KV2Lmin (J)		
		40	40 at -20°C		
	Nominal thickness (mm)		Values		
	>	≤	max (%)		
Weldability CEV		65	0,40		
	Nominal thickness (mm)		Values		
	>	≤	in (%)		
		65	Mn : 0,35	C : 0,22	
Durability		65	Al_{tot} : 0,015	Mn : 0,60	
		65		S : 0,035	
		65		V : 0,10	
		65		Cr : 0,35	
		65		Mo : 0,13	
		65		N : 0,017	
		65		Si : 0,45	
		65		P : 0,040	
		65		Nb : 0,060	
		65		Ti : 0,04	
	65		Ni : 0,35		
	65		Cu : 0,39		

Declaration of Performance

(Acc. to Annex III Construction Products Regulation (305/2011/EU), Regulation (EU) No 574/2014 and (EU Exit) Regulation 2020 No. 1359)

No. LO-005-CPR2023-02-07

- 1) Code of the product type: **1.0497**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S275NLH according to BS EN/EN 10210-1:2006**

Intended use or uses of the construction product, in accordance with the applicable designated technical specification, as foreseen by the manufacturer:

To be used in welded structures

- 3) Liberty Ostrava a.s.
Vratimovská 689/117
719 00 Ostrava - Kunčice - Czech Republic
Tel: +420 595 682 501, Fax:+420 596 237 980
<https://libertysteelgroup.com>
- 4) ----
- 5) System of assessment and verification of constancy of performance of the product: System 2+
- 6) BS EN/EN 1010-1:2006, BS EN/EN 10210-2:2019

Factory production control assessment body No. 0879 TÜV UK Ltd./No. 0045 TÜV NORD 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.

- 7) The performance of the product identified in 1) - see table.
- 8) Certificate No. 0879-CPR-10210-1-CZ00003/No. 0045-CPR-0807-1. The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3. Signed for and on behalf of the manufacturer by:

Radim Svěchovský
Q-Engineer – LO a.s.

Michal Kolář
Q/A manager – LO a.s.




Date: 07.02. 2023

Essential characteristic	Performance				UK designated technical specification / Harmonised technical specification
Tolerances on dimensions and shape			Values		BS EN 10210-2:2019 / EN 10210-2:2019
	Outside diameter		$\pm 1\%$, min $\pm 0,5$ and max $\pm 10\text{mm}$		
	Wall thickness		- 10% (loc. -12,5%) / +8% mass		
	Ovality		2%		
Yield strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	ReH min (MPa)		
		16	275		
	16	40	265		
Tensile strength	Nominal thickness (mm)		Values		
	>	≤	Rm min (MPa)	max (MPa)	
		65	370	510	
	Nominal thickness (mm)		Values		
Elongation	>	≤	min (%)		
		65	longit.	transv.	
		65	24	22	
	Nominal thickness (mm)		Values		
Impact strength	>	≤	KV2Lmin (J)		
		40	27 at -50°C		
	Nominal thickness (mm)		Values		
	>	≤	max (%)		
Weldability CEV		65	0,40		
	Nominal thickness (mm)		Values		
	>	≤	in (%)		
		65	Mn : 0,35	C : 0,22	
Durability		65	Al_{tot} : 0,015	Mn : 0,60	
		65		S : 0,030	
		65		V : 0,10	
		65		Cr : 0,35	
		65		Mo : 0,13	
		65		N : 0,017	
		65		Si : 0,45	
		65		P : 0,035	
		65		Nb : 0,060	
		65		Ti : 0,04	
	65		Ni : 0,35		
	65		Cu : 0,39		

Declaration of Performance

(Acc. to Annex III Construction Products Regulation (305/2011/EU), Regulation (EU) No 574/2014 and (EU Exit) Regulation 2020 No. 1359)

No. LO-006-CPR2023-02-07

- 1) Code of the product type: **1.0547**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S355J0H according to BS EN/N 10210-1:2006**
Intended use or uses of the construction product, in accordance with the applicable designated technical specification, as foreseen by the manufacturer:
To be used in welded structures
- 3) Liberty Ostrava a.s.
Vratimovská 689/117
719 00 Ostrava - Kunčice - Czech Republic
Tel: +420 595 682 501, Fax:+420 596 237 980
<https://libertysteelgroup.com>
- 4) ----
- 5) System of assessment and verification of constancy of performance of the product: System 2+
- 6) BS EN/EN 1010-1:2006, BS EN/EN 10210-2:2019

Factory production control assessment body No. 0879 TÜV UK Ltd./No. 0045 TÜV NORD 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.

- 7) The performance of the product identified in 1) - see table.
- 8) Certificate No. 0879-CPR-10210-1-CZ00003/No. 0045-CPR-0807-1. The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3. Signed for and on behalf of the manufacturer by:

Radim Svěchovský
Q-Engineer – LO a.s.

Michal Kolář
Q/A manager – LO a.s.




Date: 07.02. 2023

Essential characteristic	Performance				UK designated technical specification / Harmonised technical specification
Tolerances on dimensions and shape			Values		BS EN 10210-2:2019 / EN 10210-2:2019
	Outside diameter		$\pm 1\%$, min $\pm 0,5$ and max $\pm 10\text{mm}$		
	Wall thickness		- 10% (loc. -12,5%) / +8% mass		
	Ovality		2%		
Yield strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	ReH min (MPa)		
		16	355		
	16	40	345		
Tensile strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	Rm min (MPa)	max (MPa)	
		3	510	680	
	3	100	470	630	
Elongation	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	min (%)		
		40	22		
Impact strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	KV2Lmin (J)		
		40	27 at 0°C		
Weldability CEV	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤		max (%)	
		16		0,45	
	16	40		0,47	
Durability	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤		max (%)	
		40		C : 0,25 Mn : 1,70 Si : 0,60	
		40		P : 0,045 S : 0,045 N : 0,011	

Declaration of Performance

(Acc. to Annex III Construction Products Regulation (305/2011/EU), Regulation (EU) No 574/2014 and (EU Exit) Regulation 2020 No. 1359)

No. LO-007-CPR2023-02-07

- 1) Code of the product type: **1.0576**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S355J2H according to BS EN/EN 10210-1:2006**
Intended use or uses of the construction product, in accordance with the applicable designated technical specification, as foreseen by the manufacturer:
To be used in welded structures
- 3) Liberty Ostrava a.s.
Vratimovská 689/117
719 00 Ostrava - Kunčice - Czech Republic
Tel: +420 595 682 501, Fax:+420 596 237 980
<https://libertysteelgroup.com/cz>

- 4) System of assessment and verification of constancy of performance of the product: System 2+
- 5) BS EN/EN 1010-1:2006, BS EN/EN 10210-2:2019

Factory production control assessment body No. 0879 TÜV UK Ltd./No. 0045 TÜV NORD 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.

- 7) The performance of the product identified in 1) - see table.
- 8) Certificate No. 0879-CPR-10210-1-CZ00003/No. 0045-CPR-0807-1. The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3. Signed for and on behalf of the manufacturer by:

Radim Svěchovský
Q-Engineer – LO a.s.

Michal Kolář
Q/A manager – LO a.s.




Date: 07.02. 2023

Essential characteristic	Performance				UK designated technical specification / Harmonised technical specification
Tolerances on dimensions and shape			Values		BS EN 10210-2:2019 / EN 10210-2:2019
	Outside diameter		$\pm 1\%$, min $\pm 0,5$ and max $\pm 10\text{mm}$		
	Wall thickness		- 10% (loc. -12,5%) / +8% mass		
	Ovality		2%		
Yield strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	ReH min (MPa)		
		16	355		
	16	40	345		
Tensile strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	Rm min (MPa)	max (MPa)	
		3	510	680	
	3	100	470	630	
Elongation	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	min (%)		
		40	22		
Impact strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	KV2Lmin (J)		
		40	27 at -20°C		
Weldability CEV	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤		max (%)	
		16		0,45	
	16	40		0,47	
Durability	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤		max (%)	
		40		C : 0,25 Mn : 1,70 Si : 0,60	
		40		P : 0,040 S : 0,040	

Declaration of Performance

(Acc. to Annex III Construction Products Regulation (305/2011/EU), Regulation (EU) No 574/2014 and (EU Exit) Regulation 2020 No. 1359)

No. LO-008-CPR2023-02-07

- 1) Code of the product type: **1.0539**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S355NH according to BS EN/EN 10210-1:2006**
Intended use or uses of the construction product, in accordance with the applicable designated technical specification, as foreseen by the manufacturer:
To be used in welded structures
- 3) Liberty Ostrava a.s.
Vratimovská 689/117
719 00 Ostrava - Kunčice - Czech Republic
Tel: +420 595 682 501, Fax:+420 596 237 980
<https://libertysteelgroup.com/cz>
- 4) ---
- 5) System of assessment and verification of constancy of performance of the product: System 2+
- 6) BS EN/EN 10210-1:2006, BS EN/EN 10210-2:2019

Factory production control assessment body No. 0879 TÜV UK Ltd. / 0045 TÜV NORD 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.

- 7) The performance of the product identified in 1) - see table.
- 8) Certificate No. 0879-CPR-10210-1-CZ00003/No. 0045-CPR-0807-1. The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3. Signed for and on behalf of the manufacturer by:

Radim Svěchovský
Q-Engineer – LO a.s.

Michal Kolář
Q/A manager – LO a.s.




Date: 07.02. 2023

Essential characteristic	Performance				UK designated technical specification / Harmonised technical specification
Tolerances on dimensions and shape			Values		BS EN 10210-2:2019 / EN 10210-2:2019
	Outside diameter		$\pm 1\%$, min $\pm 0,5$ and max $\pm 10\text{mm}$		
	Wall thickness		- 10% (loc. -12,5%) / +8% mass		
	Ovality		2%		
Yield strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	ReH min (MPa)		
		16	355		
	16	40	345		
Tensile strength	Nominal thickness (mm)		Values		
	>	≤	Rm min (MPa)	max (MPa)	
		65	470	630	
Elongation	Nominal thickness (mm)		Values		
	>	≤	min (%)		
		65	longit.	transv.	
			22	20	
Impact strength	Nominal thickness (mm)		Values		
	>	≤	KV2Lmin (J)		
		40	40 at -20°C		
Weldability CEV	Nominal thickness (mm)		Values		
	>	≤	max (%)		
		16	0,43		
	16	65	0,45		
Durability	Nominal thickness (mm)		Values		
	>	≤	in (%)	max (%)	
		65	Mn : 0,85 Al_{tot} : 0,015	C : 0,22 Mn : 1,75 S : 0,035 V : 0,14 Cr : 0,35 Mo : 0,13 N : 0,022	Si : 0,55 P : 0,040 Nb : 0,060 Ti : 0,04 Ni : 0,55 Cu : 0,39

Declaration of Performance

(Acc. to Annex III Construction Products Regulation (305/2011/EU), Regulation (EU) No 574/2014 and (EU Exit) Regulation 2020 No. 1359)

No. LO-009-CPR2023-02-07

- 1) Code of the product type: **1.0549**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S355NLH according to BS EN/EN 10210-1:2006**

Intended use or uses of the construction product, in accordance with the applicable designated technical specification, as foreseen by the manufacturer:

To be used in welded structures

- 3) Liberty Ostrava a.s.
Vratimovská 689/117
719 00 Ostrava - Kunčice - Czech Republic
Tel: +420 595 682 501, Fax:+420 596 237 980
<https://libertysteelgroup.com/cz>
- 4) ---
- 5) System of assessment and verification of constancy of performance of the product: System 2+
- 6) BS EN/EN 10210-1:2006, BS EN/EN 10210-2:2019

Factory production control assessment body No. 0879 TÜV UK Ltd./No. 0045 TÜV NORD 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.

- 7) The performance of the product identified in 1) - see table.
- 8) Certificate No. 0879-CPR-10210-1-CZ00003/No. 0045-CPR-0807-1. The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3. Signed for and on behalf of the manufacturer by:

Radim Svěchovský
Q-Engineer – LO a.s.

Michal Kolář
Q/A manager – LO a.s.




Date: 07.02. 2023

Essential characteristic	Performance				UK designated technical specification / Harmonised technical specification	
Tolerances on dimensions and shape			Values		BS EN 10210-2:2019 / EN 10210-2:2019	
	Outside diameter		$\pm 1\%$, min $\pm 0,5$ and max $\pm 10\text{mm}$			
	Wall thickness		- 10% (loc. -12,5%) / +8% mass			
	Ovality		2%			
Yield strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006	
	>	≤	ReH min (MPa)			
		16	355			
	16	40	345			
Tensile strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006	
	>	≤	Rm min (MPa)	max (MPa)		
		65	470	630		
Elongation	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006	
	>	≤	min (%)			
		65	longit.	transv.		
			22	20		
Impact strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006	
	>	≤	KV2Lmin (J)			
		40	27 at -50°C			
Weldability CEV	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006	
	>	≤	max (%)			
		16	0,43			
	16	65	0,45			
Durability	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006	
	>	≤	in (%)	max (%)		
		65	Mn : 0,85 Al_{tot} : 0,015	C : 0,20 Mn : 1,75 S : 0,030 V : 0,14 Cr : 0,35 Mo : 0,13 N : 0,022		Si : 0,55 P : 0,035 Nb : 0,060 Ti : 0,04 Ni : 0,55 Cu : 0,39

Declaration of Performance

(Acc. to Annex III Construction Products Regulation (305/2011/EU), Regulation (EU) No 574/2014 and (EU Exit) Regulation 2020 No. 1359)

No. LO-022-CPR2023-02-07

- 1) Code of the product type: **1.0512**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S355K2H according to BS EN/EN 10210-1:2006**
Intended use or uses of the construction product, in accordance with the applicable designated technical specification, as foreseen by the manufacturer:
To be used in welded structures
- 3) Liberty Ostrava a.s.
Vratimovská 689/117
719 00 Ostrava - Kunčice - Czech Republic
Tel: +420 595 682 501 Fax: +420 596 237 980
<https://libertysteelgroup.com/cz>
- 4) ---
- 5) System of assessment and verification of constancy of performance of the product: System 2+
- 6) BS EN/EN 10210-1:2006, BS EN/EN 10210-2:2019

Factory production control assessment body No. 0879 TÜV UK Ltd./No. 0045 TÜV NORD 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.

- 7) The performance of the product identified in 1) - see table.
- 8) Certificate No. 0879-CPR-10210-1-CZ00003/No. 0045-CPR-0807-1. The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3. Signed for and on behalf of the manufacturer by:

Radim Svěchovský

Michal Kolář

Q-Engineer – LO a.s

Q/A manager – LO a.s.



Date: 07.02. 2023



Essential characteristic	Performance				UK designated technical specification / Harmonised technical specification
Tolerances on dimensions and shape	Outside diameter		±1%, min ±0,5 and max ± 10mm		BS EN 10210-2:2019 / EN 10210-2:2019
	Wall thickness		- 10% (loc. -12,5%) / +8% mass		
	Ovality		2%		
	Straightness Mass		0,2% of total length and 3mm/1m -6% / +8% for particular lengths		
Yield strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	ReH min (MPa)		
		16	355		
	16	40	345		
Tensile strength	Nominal thickness (mm)		Values		
	>	≤	Rm min (MPa)	max (MPa)	
		3	510	680	
	3	100	470	630	
Elongation	Nominal thickness (mm)		Values		
	>	≤	min (%)		
		40	22		
Impact strength	Nominal thickness (mm)		Values		
	>	≤	KV2Lmin (J)		
		40	40 at -20°C		
Weldability CEV	Nominal thickness (mm)		Values		
	>	≤		max (%)	
		16		0,45	
	16	40		0,47	
Durability	Nominal thickness (mm)		Values		
	>	≤		max (%)	
		40		C : 0,25 P : 0,040 Mn : 1,70 S : 0,040 Si : 0,60	

Declaration of Performance

(Acc. to Annex III Construction Products Regulation (305/2011/EU), Regulation (EU) No 574/2014 and (EU Exit) Regulation 2020 No. 1359)

No. LO-023-CPR2023-02-07

- 1) Code of the product type: **1.8750**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S420NH according to BS EN/EN 10210-1:2006**
 Intended use or uses of the construction product, in accordance with the applicable designated technical specification, as foreseen by the manufacturer:
 To be used in welded structures
- 3) Liberty Ostrava a.s.
 Vratimovská 689/117
 719 00 Ostrava - Kunčice - Czech Republic
 Tel: +420 595 682 501, Fax: +420 596 237 980
<https://libertysteelgroup.com/cz>
- 4) ---
- 5) System of assessment and verification of constancy of performance of the product: system 2+
- 6) BS EN/EN 10210-1:2006, BS EN/EN 10210-2:2019
 Factory production control assessment body No. 0879 TÜV UK Ltd./No. 0045 TÜV NORD 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.
- 7) The performance of the product identified in 1) - see table.
- 8) Certificate No. 0879-CPR-10210-1-CZ00003/No. 0045-CPR-0807-1. The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3. Signed for and on behalf of the manufacturer by:

Radim Svěchovský

Michal Kolář

Q-Engineer – LO a.s.

Q/A manager – LO a.s.




Date: 07.02. 2023

Essential characteristic	Performance				UK designated technical specification / Harmonised technical specification	
Tolerances on dimensions and shape			Values		BS EN 10210-2:2019 / EN 10210-2:2019	
	Outside diameter		±1%, min ±0,5 and max ± 10mm			
	Wall thickness		- 10% (loc. -12,5%) / +8% mass			
	Ovality		2%			
Yield strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006	
	>	≤	ReH min (MPa)			
	16		420			
	16	40	400			
Tensile strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006	
	>	≤	Rm min (MPa)	max (MPa)		
	65		520			
	65		680			
Elongation	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006	
	>	≤	min (%)			
	65		longit.	transv.		
	65		19	17		
Impact strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006	
	>	≤	KV2Lmin (J)			
	40		40 at -20°C			
	40		40 at -20°C			
Weldability CEV	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006	
	>	≤	max (%)			
	16		0,50			
	16	65	0,52			
Durability	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006	
	>	≤	in (%)	max (%)		
	65		Mn : 0,95 A _{tot} : 0,015	C : 0,25 Mn : 1,80 S : 0,035 V : 0,22 Cr : 0,35 Mo : 0,13 N : 0,027		Si : 0,65 P : 0,040 Nb : 0,060 Ti : 0,04 Ni : 0,85 Cu : 0,77
	65		Mn : 0,95 A _{tot} : 0,015	C : 0,25 Mn : 1,80 S : 0,035 V : 0,22 Cr : 0,35 Mo : 0,13 N : 0,027		Si : 0,65 P : 0,040 Nb : 0,060 Ti : 0,04 Ni : 0,85 Cu : 0,77

Declaration of Performance

(Acc. to Annex III Construction Products Regulation (305/2011/EU), Regulation (EU) No 574/2014 and (EU Exit) Regulation 2020 No. 1359)

No. LO-024-CPR2023-02-07

- 1) Code of the product type: **1.8751**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S420NLH according to BS EN/EN 10210-1:2006**

Intended use or uses of the construction product, in accordance with the applicable designated technical specification, as foreseen by the manufacturer:

To be used in welded structures

- 3) Liberty Ostrava a.s.
Vratimovská 689/117
719 00 Ostrava - Kunčice - Czech Republic
Tel: +420 595 682 501, Fax: +420 596 237 980
<https://libertysteelgroup.com/cz>
- 4) ---
- 5) System of assessment and verification of constancy of performance of the product: System 2+
- 6) BS EN/EN 10210-1:2006, BS EN/EN 10210-2:2019

Factory production control assessment body No. 0879 TÜV UK Ltd./No. 0045 TÜV NORD 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.

- 7) The performance of the product identified in 1) – see table.
- 8) Certificate No. 0879-CPR-10210-1-CZ00003/No. 0045-CPR-0807-1. The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3. Signed for and on behalf of the manufacturer by:

Radim Svěchovský

Michal Kolář

Q-Engineer – LO a.s

Q/A manager – LO a.s




Date: 07.02. 2023

Essential characteristic	Performance				UK designated technical specification / Harmonised technical specification
Tolerances on dimensions and shape			Values		BS EN 10210-2:2019 / EN 10210-2:2019
	Outside diameter		±1%, min ±0,5 and max ± 10mm		
	Wall thickness		- 10% (loc. -12,5%) / +8% mass		
	Ovality		2%		
Yield strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	ReH min (MPa)		
		16	420		
	16	40	400		
Tensile strength	Nominal thickness (mm)		Values		
	>	≤	Rm min (MPa)	max (MPa)	
		65	520	680	
Elongation	Nominal thickness (mm)		Values		
	>	≤	min (%)		
		65	longit.	transv.	
		19	17		
Impact strength	Nominal thickness (mm)		Values		
	>	≤	KV2Lmin (J)		
		40	27 at -50°C		
Weldability CEV	Nominal thickness (mm)		Values		
	>	≤	max (%)		
		16	0,50		
		16	65	0,52	
Durability	Nominal thickness (mm)		Values		
	>	≤	in (%)	max (%)	
		65	Mn : 0,95 Al _{tot} : 0,015	C : 0,25 Mn : 1,80 S : 0,030 V : 0,22 Cr : 0,35 Mo : 0,13 N : 0,027	Si : 0,65 P : 0,035 Nb : 0,060 Ti : 0,04 Ni : 0,85 Cu : 0,77

Declaration of Performance

(Acc. to Annex III Construction Products Regulation (305/2011/EU), Regulation (EU) No 574/2014 and (EU Exit) Regulation 2020 No. 1359)

No. LO-025-CPR2023-02-07

- 1) Code of the product type: **1.8953**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S460NH according to BS EN/EN 10210-1:2006**

Intended use or uses of the construction product, in accordance with the applicable designated technical specification, as foreseen by the manufacturer:
To be used in welded structures
- 3) Liberty Ostrava a.s.
Vratimovská 689/117
719 00 Ostrava - Kunčice - Czech Republic
Tel: +420 595 682 501, Fax:+420 596 237 980
<https://libertysteelgroup.com/cz>
- 4) ----
- 5) System of assessment and verification of constancy of performance of the product: System 2+
- 6) BS EN/EN 10210-1:2006, BS EN/EN 10210-2:2019

Factory production control assessment body No. 0879 TÜV UK Ltd./No. 0045 TÜV NORD 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.

- 7) The performance of the product identified in 1) – see table.
- 8) Certificate No. 0879-CPR-10210-1-CZ00003/No. 0045-CPR-0807-1. The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3. Signed for and on behalf of the manufacturer by:

Radim Svěchovský

Michal Kolář

Q-Engineer – LO a.s

Q/A manager – LO a.s.




Date: 07.02. 2023

Essential characteristic	Performance				UK designated technical specification / Harmonised technical specification
Tolerances on dimensions and shape			Values		BS EN 10210-2:2019 / EN 10210-2:2019
	Outside diameter		±1%, min ±0,5 and max ± 10mm		
	Wall thickness		- 10% (loc. -12,5%) / +8% mass		
	Ovality		2%		
Yield strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	ReH min (MPa)		
		16	460		
	16	40	440		
Tensile strength	Nominal thickness (mm)		Values		
	>	≤	Rm min (MPa)	max (MPa)	
		65	540	720	
Elongation	Nominal thickness (mm)		Values		
	>	≤	min (%)		
		65	longit.	transv.	
		17	15		
Impact strength	Nominal thickness (mm)		Values		
	>	≤	KV2Lmin (J)		
		40	40 at -20°C		
Weldability CEV	Nominal thickness (mm)		Values		
	>	≤	max (%)		
		16	0,53		
		16	65	0,55	
Durability	Nominal thickness (mm)		Values		
	>	≤	in (%)		max (%)
		65	Mn : 0,95	C : 0,25	Si : 0,65
			Al _{tot} : 0,015	Mn : 1,80	P : 0,040
			S : 0,035	Nb : 0,060	
			V : 0,22	Ti : 0,04	
			Cr : 0,35	Ni : 0,85	
			Mo : 0,13	Cu : 0,77	
			N : 0,027		

Declaration of Performance

(Acc. to Annex III Construction Products Regulation (305/2011/EU), Regulation (EU) No 574/2014 and (EU Exit) Regulation 2020 No. 1359)

No. LO-026-CPR2023-02-07

- 1) Code of the product type: **1.8956**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S460NLH according to BS EN/EN 10210-1:2006**

Intended use or uses of the construction product, in accordance with the applicable designated technical specification, as foreseen by the manufacturer:

To be used in welded structures

- 3) Liberty Ostrava a.s.
Vratimovská 689/117
719 00 Ostrava - Kunčice - Czech Republic
Tel: +420 595 682 501, Fax:+420 596 237 980
<https://libertysteelgroup.com/cz>
- 4) ---
- 5) System of assessment and verification of constancy of performance of the product: System 2+
- 6) BS EN/EN 10210-1:2006, BS EN/EN 10210-2:2019

Factory production control assessment body No. 0879 TÜV UK Ltd./No. 0045 TÜV NORD 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.

- 7) The performance of the product identified in 1) - see table.
- 8) Certificate No. 0879-CPR-10210-1-CZ00003/No. 0045-CPR-0807-1. The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3. Signed for and on behalf of the manufacturer by:

Radim Svěchovský

Michal Kolář

Q-Engineer – LO a.s.

Q/A manager – LO a.s.



Date: 07.02. 2023



Essential characteristic	Performance				UK designated technical specification / Harmonised technical specification
Tolerances on dimensions and shape			Values		BS EN 10210-2:2019 / EN 10210-2:2019
	Outside diameter		±1%, min ±0,5 and max ± 10mm		
	Wall thickness		- 10% (loc. -12,5%) / +8% mass		
	Ovality		2%		
Yield strength	Nominal thickness (mm)		Values		BS EN 10210-1:2006 / EN 10210-1:2006
	>	≤	ReH min (MPa)		
		16	460		
	16	40	440		
Tensile strength	Nominal thickness (mm)		Values		
	>	≤	Rm min (MPa)	max (MPa)	
		65	540	720	
Elongation	Nominal thickness (mm)		Values		
	>	≤	min (%)		
		65	longit.	transv.	
		17	15		
Impact strength	Nominal thickness (mm)		Values		
	>	≤	KV2Lmin (J)		
		40	27 at -50°C		
Weldability CEV	Nominal thickness (mm)		Values		
	>	≤	max (%)		
		16	0,53		
		16	65	0,55	
Durability	Nominal thickness (mm)		Values		
	>	≤	in (%)		max (%)
		65	Mn : 0,95	C : 0,25	Si : 0,65
			Al _{tot} : 0,015	Mn : 1,80	P : 0,035
			S : 0,030	Nb : 0,060	
			V : 0,22	Ti : 0,04	
			Cr : 0,35	Ni : 0,85	
			Mo : 0,13	Cu : 0,77	
			N : 0,027		