

Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-001-CPR2020-01-06

- 1) Code of the product type: **1.0039**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S235JRH according to EN 10210:2019**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

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

Notified factory production control certification body 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.

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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 : 06.01. 2020

Essential characteristic	Performance			Harmonised technical specification
Tolerances on dimensions and shape			Values	
	Outside diameter		$\pm 1\%$, min $\pm 0,5$ and max $\pm 10\text{mm}$	
	Wall thickness		$- 10\%$ (loc. $-12,5\%$) / $+8\%$ mass	
	Ovality Straightness Mass		2% 0,2% of total length and 3mm/1m -6% / +8% for particular lengths	
Yield strength	Nominal thickness (mm)		Values	
	>	≤	ReH min (MPa)	
		16	235	
	16	40	225	
Tensile strength	Nominal thickness (mm)		Values	
	>	≤	Rm min (MPa)	max (MPa)
		100	360	510
Elongation	Nominal thickness (mm)		Values	
	>	≤	min (%)	
		40	26	
Impact strength	Nominal thickness (mm)		Values	
	>	≤	KV2Lmin (J)	
		40	27 at 20°C	
Weldability CEV	Nominal thickness (mm)		Values	
	>	≤	max (%)	
		16	0,37	
	16	40	0,39	
Durability	Nominal thickness (mm)		Values	
	>	≤	max (%)	
		40	C : 0,22	P : 0,050
			Mn : 1,50	S : 0,050
		N : 0,011		

Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-002-CPR2020-01-06

- 1) Code of the product type: **1.0149**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S275J0H according to EN 10210:2019**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

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

Notified factory production control certification body 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.

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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 : 06.01. 2020

Essential characteristic	Performance			Harmonised technical specification
Tolerances on dimensions and shape			Values	
	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	
	>	≤	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 0°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	P : 0,045
			Mn : 1,60	S : 0,045
		N : 0,011		

Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-003-CPR2020-01-06

- 1) Code of the product type: **1.0138**
2) Type: Hot finished structural hollow sections (seamless tubes) **S275J2H according to EN 10210:2019**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

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

Notified factory production control certification body 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.

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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Radim Svěchovský
Q-Engineer – LO a.s.

Michal Kolář
Q/A manager – LO a.s.




Date : 06.01. 2020

Essential characteristic	Performance			Harmonised technical specification
Tolerances on dimensions and shape			Values	
	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	
	>	≤	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	P : 0,040
			Mn : 1,60	S : 0,040

Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-004-CPR2020-01-06

- 1) Code of the product type: **1.0493**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S275NH according to EN 10210:2019**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

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

Notified factory production control certification body 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.

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Radim Svěchovský
Q-Engineer – LO a.s.

Michal Kolář
Q/A manager – LO a.s.




Date : 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification
Tolerances on dimensions and shape	Outside diameter		±1%, min ±0,5 and max ± 10mm		EN 10210-2:2019
	Wall thickness		- 10% (loc. -12,5%) / +8% mass		
	Ovality		2%		
Yield strength	Straightness		0,2% of total length and 3mm/1m		EN 10210-1:2019
	Mass		-6% / +8% for particular lengths		
	Nominal thickness (mm)		Values		
Tensile strength	>	≤	ReH min (MPa)		EN 10210-1:2019
		16	275		
	16	40	265		
Elongation	Nominal thickness (mm)		Values		EN 10210-1:2019
	>	≤	min (%)		
		65	longit.	transv.	
Impact strength	Nominal thickness (mm)		Values		EN 10210-1:2019
	>	≤	KV2Lmin (J)		
		40	40 at -20°C		
Weldability CEV	Nominal thickness (mm)		Values		EN 10210-1:2019
	>	≤	max (%)		
		65	0,40		
Durability	Nominal thickness (mm)		Values		EN 10210-1:2019
	>	≤	in (%)		
		65	Mn : 0,35 Al _{tot} : 0,015	C : 0,22 Mn : 0,60 S : 0,035 V : 0,10 Cr : 0,35 Mo : 0,13 N : 0,017	

Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-005-CPR2020-01-06

- 1) Code of the product type: **1.0497**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S275NLH according to EN 10210:2019**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

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

Notified factory production control certification body 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.

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Radim Svěchovský
Q-Engineer – LO a.s.

Michal Kolář
Q/A manager – LO a.s.




Date : 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification
Tolerances on dimensions and shape			Values		EN 10210-2:2019
	Outside diameter		±1%, min ±0,5 and max ± 10mm		
	Wall thickness		- 10% (loc. -12,5%) / +8% mass		
	Ovality Straightness Mass		2% 0,2% of total length and 3mm/1m -6% / +8% for particular lengths		
Yield strength	Nominal thickness (mm)		Values		EN 10210-1:2019
	>	≤	ReH min (MPa)		
		16	275		
	16	40	265		
Tensile strength	Nominal thickness (mm)		Values		
	>	≤	Rm min (MPa)	max (MPa)	
		65	370	510	
	Elongation		Values		
>	≤	min (%)			
		longit.	transv.		
	65	24	22		
Impact strength	Nominal thickness (mm)		Values		
	>	≤	KV2Lmin (J)		
		40	27 at -50°C		
Weldability CEV	Nominal thickness (mm)		Values		
	>	≤	max (%)		
		65	0,40		
Durability	Nominal thickness (mm)		Values		
	>	≤	in (%)		
		65	Mn : 0,35 Al _{tot} : 0,015	C : 0,22 Mn : 0,60 S : 0,030 V : 0,10 Cr : 0,35 Mo : 0,13 N : 0,017	Si : 0,45 P : 0,035 Nb : 0,060 Ti : 0,04 Ni : 0,35 Cu : 0,39

Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-006-CPR2020-01-06

- 1) Code of the product type: **1.0547**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S355J0H according to EN 10210:2019**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

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

Notified factory production control certification body 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.

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Radim Svěchovský
Q-Engineer – LO a.s.

Michal Kolář
Q/A manager – LO a.s.




Date : 06.01. 2020

Essential characteristic	Performance			Harmonised technical specification
Tolerances on dimensions and shape	Values			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		EN 10210-1:2019
	>	≤	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	27 at 0°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 : 0,045	
			Mn : 1,70 S : 0,045	
		Si : 0,60 N : 0,011		

Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-007-CPR2020-01-06

- 1) Code of the product type: **1.0576**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S355J2H according to EN 10210:2019**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

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

Notified factory production control certification body 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.

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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Radim Svěchovský
Q-Engineer – LO a.s.

Michal Kolář
Q/A manager – LO a.s.




Date : 06.01. 2020

Essential characteristic	Performance			Harmonised technical specification
Tolerances on dimensions and shape	Values			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		EN 10210-1:2019
	>	≤	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	27 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
(according to regulation EU No 305/2011)

No. LO-008-CPR2020-01-06

- 1) Code of the product type: **1.0539**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S355NH according to EN 10210:2019**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

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

Notified factory production control certification body 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.

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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 : 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification
Tolerances on dimensions and shape			Values		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		EN 10210-1:2019
	>	≤	ReH min (MPa)		
		16	355		
	16	40	345		
Tensile strength	Nominal thickness (mm)		Values		
	>	≤	Rm min (MPa)	max (MPa)	
		65	470	630	
	Nominal thickness (mm)		Values		
Elongation	Nominal thickness (mm)		Values		
	>	≤	min (%)		
			longit.	transv.	
		65	22	20	
Impact strength	Nominal thickness (mm)		Values		
	>	≤	KV2Lmin (J)		
		40	40 at -20°C		
	Nominal thickness (mm)		Values		
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
	Nominal thickness (mm)		Values		

Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-009-CPR2020-01-06

- 1) Code of the product type: **1.0549**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S355NLH according to EN 10210:2019**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

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

Notified factory production control certification body 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.

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Radim Svěchovský
Q-Engineer – LO a.s.

Michal Kolář
Q/A manager – LO a.s.




Date : 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification
Tolerances on dimensions and shape	Outside diameter		±1%, min ±0,5 and max ± 10mm		EN 10210-2:2019
	Wall thickness		- 10% (loc. -12,5%) / +8% mass		
	Ovality		2%		
Yield strength	Nominal thickness (mm)		Values		EN 10210-1:2019
	>	≤	ReH min (MPa)		
	16	40	355		
Tensile strength	Nominal thickness (mm)		Values		EN 10210-1:2019
	>	≤	Rm min (MPa)	max (MPa)	
		65	470	630	
Elongation	Nominal thickness (mm)		Values		EN 10210-1:2019
	>	≤	min (%)		
		65	longit.	transv.	
Impact strength	Nominal thickness (mm)		Values		EN 10210-1:2019
	>	≤	KV2Lmin (J)		
		40	27 at -50°C		
Weldability CEV	Nominal thickness (mm)		Values		EN 10210-1:2019
	>	≤	max (%)		
		16	0,43		
Durability	Nominal thickness (mm)		Values		EN 10210-1:2019
	>	≤	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	

Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-022-CPR2020-01-06

- 1) Code of the product type: **1.0512**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S355K2H according to EN 10210:2019**

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

To be used in welded structures

- 3) Liberty Ostrava a.s.
Vratimovská 689/117
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Fax: +420 596 237 980

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

Notified factory production control certification body 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.

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Radim Svěchovský

Michal Kolář

Q-Engineer – LO a.s

Q/A manager – LO a.s.




Date. 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification
Tolerances on dimensions and shape			Values		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		EN 10210-1:2019
	>	≤	ReH min (MPa)		
		16	355		
	16	40	345		
Tensile strength	Nominal thickness (mm)		Values		EN 10210-1:2019
	>	≤	Rm min (MPa)	max (MPa)	
		3	510	680	
	3	100	470	630	
Elongation	Nominal thickness (mm)		Values		EN 10210-1:2019
	>	≤	min (%)		
		40	22		
Impact strength	Nominal thickness (mm)		Values		EN 10210-1:2019
	>	≤	KV2Lmin (J)		
		40	40 at -20°C		
Weldability CEV	Nominal thickness (mm)		Values		EN 10210-1:2019
	>	≤	max (%)		
		16	0,45		
	16	40	0,47		
Durability	Nominal thickness (mm)		Values		EN 10210-1:2019
	>	≤	max (%)		
		40	C : 0,25	P : 0,040	
		40	Mn : 1,70	S : 0,040	
	40	Si : 0,60			

Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-023-CPR2020-01-06

- 1) Code of the product type: **1.8750**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S420NH according to EN 10210:2019**
- Intended use or uses of the construction product, in accordance with the applicable harmonised 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
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Fax: +420 596 237 980

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

Notified factory production control certification body No. 0045
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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. 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification	
Tolerances on dimensions and shape			Values		EN 10210-2:2019	
	Outside diameter	±1%, min ±0,5 and max ± 10mm				
	Wall thickness	- 10% (loc. -12,5%) / +8% mass				
	Ovality Straightness Mass	2% 0,2% of total length and 3mm/1m -6% / +8% for particular lengths				
Yield strength	Nominal thickness (mm)		Values		EN 10210-1:2019	
	>	≤	ReH min (MPa)			
		16	420			
	16	40	400			
Tensile strength	Nominal thickness (mm)		Values		EN 10210-1:2019	
	>	≤	Rm min (MPa)	max (MPa)		
		65	520	680		
Elongation	Nominal thickness (mm)		Values		EN 10210-1:2019	
	>	≤	min (%)			
		65	longit.	transv.		
			19	17		
Impact strength	Nominal thickness (mm)		Values		EN 10210-1:2019	
	>	≤	KV2Lmin (J)			
		40	40 at -20°C			
Weldability CEV	Nominal thickness (mm)		Values		EN 10210-1:2019	
	>	≤	max (%)			
		16	0,50			
	16	65	0,52			
Durability	Nominal thickness (mm)		Values		EN 10210-1:2019	
	>	≤	in (%)	max (%)		
		65	Mn : 0,95 Al _{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
(according to regulation EU No 305/2011)

No. LO-024-CPR2020-01-06

- 1) Code of the product type: **1.8751**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S420NLH according to EN 10210:2019**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

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

Notified factory production control certification body 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.

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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. 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification	
Tolerances on dimensions and shape			Values		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		EN 10210-1:2019	
	>	≤	ReH min (MPa)			
		16	420			
		16	40	400		
Tensile strength	Nominal thickness (mm)		Values		EN 10210-1:2019	
	>	≤	Rm min (MPa)	max (MPa)		
		65	520	680		
		65	520	680		
Elongation	Nominal thickness (mm)		Values		EN 10210-1:2019	
	>	≤	min (%)			
		65	longit.	transv.		
		65	19	17		
Impact strength	Nominal thickness (mm)		Values		EN 10210-1:2019	
	>	≤	KV2Lmin (J)			
		40	27 at -50°C			
		40	27 at -50°C			
Weldability CEV	Nominal thickness (mm)		Values		EN 10210-1:2019	
	>	≤	max (%)			
		16	0,50			
		16	0,52			
Durability	Nominal thickness (mm)		Values		EN 10210-1:2019	
	>	≤	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
		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
(according to regulation EU No 305/2011)

No. LO-025-CPR2020-01-06

- 1) Code of the product type: **1.8953**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S460NH according to EN 10210:2019**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

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

Notified factory production control certification body 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.

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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 : 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification	
Tolerances on dimensions and shape			Values		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		EN 10210-1:2019	
	>	≤	ReH min (MPa)			
		16	460			
		16 40	440			
Tensile strength	Nominal thickness (mm)		Values		EN 10210-1:2019	
	>	≤	Rm min (MPa)	max (MPa)		
		65	540	720		
Elongation	Nominal thickness (mm)		Values		EN 10210-1:2019	
	>	≤	min (%)			
			longit.	transv.		
		65	17	15		
Impact strength	Nominal thickness (mm)		Values		EN 10210-1:2019	
	>	≤	KV2Lmin (J)			
		40	40 at -20°C			
Weldability CEV	Nominal thickness (mm)		Values		EN 10210-1:2019	
	>	≤	max (%)			
		16	0,53			
		16 65	0,55			
Durability	Nominal thickness (mm)		Values		EN 10210-1:2019	
	>	≤	in (%)	max (%)		
		65	Mn : 0,95 Al _{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
(according to regulation EU No 305/2011)

No. LO-026-CPR2020-01-06

- 1) Code of the product type: **1.8956**
- 2) Type: Hot finished structural hollow sections (seamless tubes) **S460NLH according to EN 10210:2019**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

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

Notified factory production control certification body 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.

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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. 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification
Tolerances on dimensions and shape			Values		EN 10210-2:2019
	Outside diameter	±1%, min ±0,5 and max ± 10mm			
	Wall thickness	- 10% (loc. -12,5%) / +8% mass			
	Ovality Straightness Mass	2% 0,2% of total length and 3mm/1m -6% / +8% for particular lengths			
Yield strength	Nominal thickness (mm)		Values		EN 10210-1:2019
	>	≤	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 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
(according to regulation EU No 305/2011)

No. LO-010-CPR2020-01-06

- 1) Code of the product type: **1.0039**
- 2) Type: Cold formed welded structural hollow sections (SAWH tubes) **S235JRH according to EN 10219:2006**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

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

Notified factory production control certification body 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.

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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 : 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification	
Tolerances on dimensions and shape	Outside diameter		Values		EN 10219-2:2006	
			±1%, min ±0,5 and max ± 10mm			
	Wall thickness		For D≤406,4mm: T≤5mm ±10% and T>5mm ±5mm; for D<406,4mm: ±10% and max ±2mm			
	Ovality Straightness Mass		2%, for D/T≥100 must be agreed 0,20% of total length and 3mm/1m ±-6% for particular lengths			
Yield strength	Nominal thickness (mm)		Values		EN 10219-1:2006	
	>	≤	ReH min (MPa)			
		16	235			
	16	40	225			
Tensile strength	Nominal thickness (mm)		Values		EN 10219-1:2006	
	>	≤	Rm min (MPa)	max (MPa)		
		40	360	510		
Elongation	Nominal thickness (mm)		Values		EN 10219-1:2006	
	>	≤	min (%)			
		40	24			
Impact strength	Nominal thickness (mm)		Values		EN 10219-1:2006	
	>	≤	KV2Lmin (J)			
		40	27 at 20°C			
Weldability CEV	Nominal thickness (mm)		Values		EN 10219-1:2006	
	>	≤		max (%)		
		40		0,35		
Durability	Nominal thickness (mm)		Values		EN 10219-1:2006	
	>	≤		max (%)		
		40		C : 0,19 Mn : 1,50 N : 0,011		P : 0,050 S : 0,050

Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-011-CPR2020-01-06

- 1) Code of the product type: **1.0149**
- 2) Type: Cold formed welded structural hollow sections (SAWH tubes) **S275J0H according to EN 10219:2006**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

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

Notified factory production control certification body 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.

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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 : 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification
Tolerances on dimensions and shape	Outside diameter		Values		EN 10219-2:2006
			$\pm 1\%$, min $\pm 0,5$ and max $\pm 10\text{mm}$		
	Wall thickness		For $D \leq 406,4\text{mm}$: $T \leq 5\text{mm} \pm 10\%$ and $T > 5\text{mm} \pm 5\text{mm}$; for $D < 406,4\text{mm}$: $\pm 10\%$ and max $\pm 2\text{mm}$		
	Ovality Straightness Mass		2%, for $D/T \geq 100$ must be agreed 0,20% of total length and 3mm/1m $\pm 6\%$ for particular lengths		
Yield strength	Nominal thickness (mm)		Values		EN 10219-1:2006
	>	\leq	ReH min (MPa)		
		16	275		
	16	40	265		
Tensile strength	Nominal thickness (mm)		Values		
	>	\leq	Rm min (MPa)	max (MPa)	
		40	410	560	
Elongation	Nominal thickness (mm)		Values		
	>	\leq	min (%)		
		40	20		
Impact strength	Nominal thickness (mm)		Values		
	>	\leq	KV2Lmin (J)		
		40	27 at 0°C		
Weldability CEV	Nominal thickness (mm)		Values		
	>	\leq		max (%)	
		40		0,40	
Durability	Nominal thickness (mm)		Values		
	>	\leq		max (%)	
		40			
			C : 0,22 Mn : 1,60 N : 0,011	P : 0,045 S : 0,045	

Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-012-CPR2020-01-06

- 1) Code of the product type: **1.0138**
- 2) Type: Cold formed welded structural hollow sections (SAWH tubes) **S275J2H according to EN 10219:2006**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

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

Notified factory production control certification body 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.

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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 : 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification
Tolerances on dimensions and shape	Outside diameter		Values		EN 10219-2:2006
			±1%, min ±0,5 and max ± 10mm		
	Wall thickness		For D≤406,4mm: T≤5mm ±10% and T>5mm ±5mm; for D<406,4mm: ±10% and max ±2mm		
Yield strength	Ovality		2%, for D/T≥100 must be agreed		EN 10219-1:2006
	Straightness		0,20% of total length and 3mm/1m		
	Mass		±-6% for particular lengths		
Tensile strength	Nominal thickness (mm)		Values		EN 10219-1:2006
	>	≤	ReH min (MPa)		
		16	275		
Elongation	>	≤	Rm min (MPa)	max (MPa)	EN 10219-1:2006
		40	410	560	
		16	265		
Impact strength	Nominal thickness (mm)		Values		EN 10219-1:2006
	>	≤	min (%)		
		40	20		
Weldability CEV	Nominal thickness (mm)		Values		EN 10219-1:2006
	>	≤		max (%)	
		40		0,40	
Durability	Nominal thickness (mm)		Values		EN 10219-1:2006
	>	≤		max (%)	
		40		C : 0,22 P : 0,040 Mn : 1,60 S : 0,040 N : 0,011	

Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-013-CPR2020-01-06

- 1) Code of the product type: **1.0547**
- 2) Type: Cold formed welded structural hollow sections (SAWH tubes) **S355J0H according to EN 10219:2006**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

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

Notified factory production control certification body 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.

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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 : 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification
Tolerances on dimensions and shape	Outside diameter		Values		EN 10219-2:2006
			±1%, min ±0,5 and max ± 10mm		
	Wall thickness		For D≤406,4mm: T≤5mm ±10% and T>5mm ±5mm; for D<406,4mm: ±10% and max ±2mm		
Yield strength	Ovality		2%, for D/T≥100 must be agreed		EN 10219-1:2006
	Straightness		0,20% of total length and 3mm/1m		
	Mass		±-6% for particular lengths		
Tensile strength	Nominal thickness (mm)		Values		EN 10219-1:2006
	>	≤	ReH min (MPa)		
		16	355		
Elongation	>	≤	Rm min (MPa)	max (MPa)	EN 10219-1:2006
		40	470	630	
		16	345		
Impact strength	Nominal thickness (mm)		Values		EN 10219-1:2006
	>	≤	min (%)		
		40	20		
Weldability CEV	Nominal thickness (mm)		Values		EN 10219-1:2006
	>	≤		max (%)	
		40		0,45	
Durability	Nominal thickness (mm)		Values		EN 10219-1:2006
	>	≤		max (%)	
		40		C : 0,24 P : 0,045 Mn : 1,60 S : 0,045 Si : 0,60 N : 0,011	

Declaration of Performance

(according to regulation EU No 305/2011)

No. LO-014-CPR2020-01-06

1) Code of the product type: **1.0576**

2) Type: Cold formed welded structural hollow sections (SAWH tubes) **S355J2H according to EN 10219:2006**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

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

Notified factory production control certification body 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.

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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: 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification
Tolerances on dimensions and shape	Outside diameter		Values		EN 10219-2:2006
			±1%, min ±0,5 and max ± 10mm		
	Wall thickness		For D≤406,4mm: T≤5mm ±10% and T>5mm ±5mm; for D<406,4mm: ±10% and max ±2mm		
Yield strength	Nominal thickness (mm)		Values		EN 10219-1:2006
	>	≤	ReH min (MPa)		
	16	40	355	345	
Tensile strength	Nominal thickness (mm)		Values		EN 10219-1:2006
	>	≤	Rm min (MPa)	max (MPa)	
		40	470	630	
Elongation	Nominal thickness (mm)		Values		EN 10219-1:2006
	>	≤	min (%)		
		40	20		
Impact strength	Nominal thickness (mm)		Values		EN 10219-1:2006
	>	≤	KV2Lmin (J)		
		40	27 at -20°C		
Weldability CEV	Nominal thickness (mm)		Values		EN 10219-1:2006
	>	≤		max (%)	
		40		0,45	
Durability	Nominal thickness (mm)		Values		EN 10219-1:2006
	>	≤		max (%)	
		40		C : 0,24 Mn : 1,60 Si : 0,60	

Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-015-CPR2020-01-06

- 1) Code of the product type: **1.0252**
 2) Type: Non-alloy seamless steel tubes **L235 according to EN 10224:2002 + A1:2005**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

System of assessment and verification of constancy of performance of the product:
 System 4

The initial type testing was performed by the manufacturer whereas LO a.s. performs permanent surveillance, assessment, and evaluation of factory production control.

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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 : 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification
Tolerances on dimensions and shape			Values		EN 10224:2002 + A1:2005
	Outside diameter		±1% or min ±0,5 mm		
	Wall thickness		EN 10224:2002 + A1:2005, table 7		
	Out of roundness Straightness		2% max for D/T≤100 0,2% L		
Yield strength	Nominal thickness (mm)		Values		EN 10224:2002 + A1:2005
	>	≤	ReH min (MPa)		
		16	235		
	16		225		
Tensile strength	Nominal thickness (mm)		Values		EN 10224:2002 + A1:2005
	≥	≤	Rm min (MPa)	max (MPa)	
	2,0	25,0	360	500	
Elongation	Nominal thickness (mm)		Values		EN 10224:2002 + A1:2005
	≥	≤	long. min (%)	transv. min (%)	
	2,0	25,0	25	23	
Flattening test	Nominal thickness (mm)		Test		EN 10224:2002 + A1:2005
	>	≤			
	2,0	25,0	no cracks		
Reaction to fire	Nominal thickness (mm)		Mandated class as per 96/303/EEC		EN 10224:2002 + A1:2005
	≥	≤			
	2,0	25,0	Class A1		
Tightness	Nominal thickness (mm)		Test		EN 10224:2002 + A1:2005
	≥	≤	Hydrostatic test at a minimum of 7MPa/5s or EMT in acc. with EN 10246-1		
	2,0	25,0			
Dangerous substances	Nominal thickness (mm)		Values		EN 10224:2002 + A1:2005
	≥	≤	Any dang. substances in excess of the max. permitted levels specified in relevant European standard		
	2,0	25,0			
Durability	Nominal thickness (mm)		Values		EN 10224:2002 + A1:2005
	≥	≤	max (%)		
	2,0	25,0	C : 0,18 Mn : 1,30 Si : 0,40	P : 0,035 S : 0,030	

Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-016-CPR2020-01-06

- 1) Code of the product type: **1.0260**
- 2) Type: Non-alloy seamless steel tubes **L275 according to EN 10224:2002 + A1:2005**

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

To be used in welded structures

- 3) Liberty Ostrava a.s.
Vratimovská 689/177
719 00 Ostrava - Kunčice - Czech Republic
Tel: +420 595 682 501
Fax: +420 596 237 980

System of assessment and verification of constancy of performance of the product:
System 4

The initial type testing was performed by the manufacturer whereas LO a.s. performs permanent surveillance, assessment, and evaluation of factory production control.

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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 : 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification
Tolerances on dimensions and shape			Values		EN 10224:2002 + A1:2005
	Outside diameter		±1% or min ±0,5 mm		
	Wall thickness		EN 10224:2002 + A1:2005, table 7		
	Out of roundness Straightness		2% max for D/T≤100 0,2% L		
Yield strength	Nominal thickness (mm)		Values		EN 10224:2002 + A1:2005
	>	≤	ReH min (MPa)		
		16	275		
	16		265		
Tensile strength	Nominal thickness (mm)		Values		
	≥	≤	Rm min (MPa)	max (MPa)	
	2,0	25,0	430	570	
Elongation	Nominal thickness (mm)		Values		
	≥	≤	long. min (%)	transv. min (%)	
	2,0	25,0	21	19	
Flattening test	Nominal thickness (mm)		Test		
	>	≤			
	2,0	25,0	no cracks		
Reaction to fire	Nominal thickness (mm)		Mandated class as per 96/303/EEC		EN 10224:2002 + A1:2005
	≥	≤			
	2,0	25,0	Class A1		
Tightness	Nominal thickness (mm)		Test		
	≥	≤	Hydrostatic test at a minimum of 7MPa/5s or EMT in acc. with EN 10246-1		
	2,0	25,0			
Dangerous substances	Nominal thickness (mm)		Values		
	≥	≤	Any dang. substances in excess of the max. permitted levels specified in relevant European standard		
	2,0	25,0			
Durability	Nominal thickness (mm)		Values		
	≥	≤	max (%)		
	2,0	25,0	C : 0,22 Mn : 1,50 Si : 0,45	P : 0,035 S : 0,030	

Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-017-CPR2020-01-06

- 1) Code of the product type: **1.0419**
 2) Type: Non-alloy seamless steel tubes **L355 according to EN 10224:2002 + A1:2005**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

System of assessment and verification of constancy of performance of the product:
 System 4

The initial type testing was performed by the manufacturer whereas LO a.s. performs permanent surveillance, assessment, and evaluation of factory production control.

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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.

Micha Kolář
 Q/A manager – LO a.s.




Date : 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification
Tolerances on dimensions and shape			Values		EN 10224:2002 + A1:2005
	Outside diameter		±1% or min ±0,5 mm		
	Wall thickness		EN 10224:2002 + A1:2005, table 7		
	Out of roundness Straightness		2% max for D/T≤100 0,2% L		
Yield strength	Nominal thickness (mm)		Values		EN 10224:2002 + A1:2005
	>	≤	ReH min (MPa)		
		16	355		
	16		345		
Tensile strength	Nominal thickness (mm)		Values		EN 10224:2002 + A1:2005
	≥	≤	Rm min (MPa)	max (MPa)	
	2,0	25,0	500	650	
Elongation	Nominal thickness (mm)		Values		EN 10224:2002 + A1:2005
	≥	≤	long. min (%)	transv. min (%)	
	2,0	25,0	21	19	
Flattening test	Nominal thickness (mm)		Test		EN 10224:2002 + A1:2005
	>	≤			
	2,0	25,0	no cracks		
Reaction to fire	Nominal thickness (mm)		Mandated class as per 96/303/EEC		EN 10224:2002 + A1:2005
	≥	≤			
	2,0	25,0	Class A1		
Tightness	Nominal thickness (mm)		Test		EN 10224:2002 + A1:2005
	≥	≤	Hydrostatic test at a minimum of 7MPa/5s or EMT in acc. with EN 10246-1		
	2,0	25,0			
Dangerous substances	Nominal thickness (mm)		Values		EN 10224:2002 + A1:2005
	≥	≤	Any dang. substances in excess of the max. permitted levels specified in relevant European standard		
	2,0	25,0			
Durability	Nominal thickness (mm)		Values		EN 10224:2002 + A1:2005
	≥	≤	max (%)		
	2,0	25,0	C : 0,24 Mn : 1,70 Si : 0,60	P : 0,035 S : 0,030	

Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-018-CPR2020-01-06

- 1) Code of the product type: **1.0252**
 2) Type: Non-alloy welded steel tubes **L235 according to EN 10224:2002 + A1:2005**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

System of assessment and verification of constancy of performance of the product:
 System 4

The initial type testing was performed by the manufacturer whereas LO a.s. performs permanent surveillance, assessment, and evaluation of factory production control.

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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 : 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification
Tolerances on dimensions and shape	Outside diameter		Values		EN 10224:2002 + A1:2005
	Wall thickness		±0,75%, max ± 6,0 mm		
	Out of roundness		±7,5%		
	Straightness		2% max for D/T≤100, for D/T>100 must be agreed 0,2% L		
Yield strength	Nominal thickness (mm)		Values		
	>	≤	ReH min (MPa)		
		16	235		
	16	225			
Tensile strength	Nominal thickness (mm)		Values		
	≥	≤	Rm min (MPa)	max (MPa)	
	2,0	25,0	360	500	
Elongation	Nominal thickness (mm)		Values		
	≥	≤	long. min (%)	transv. min (%)	
	2,0	25,0	25	23	
Bending test	Nominal thickness (mm)		Test		
	>	≤			
	2,0	25,0	no cracks		
Reaction to fire	Nominal thickness (mm)		Mandated class as per 96/303/EEC		EN 10224:2002 + A1:2005
	≥	≤			
	2,0	25,0	Class A1		
Tightness	Nominal thickness (mm)		Test		
	≥	≤	Hydrostatic test at a minimum of 7MPa/5s or EMT in acc. with EN 10246-1		
	2,0	25,0			
Dangerous substances	Nominal thickness (mm)		Values		
	≥	≤	Any dang. substances in excess of the max. permitted levels specified in relevant European standard		
	2,0	25,0			
Durability	Nominal thickness (mm)		Values		
	≥	≤	max (%)		
	2,0	25,0	C : 0,18 Mn : 1,30 Si : 0,40	P : 0,035 S : 0,030	



Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-019-CPR2020-01-06

- 1) Code of the product type: **1.0260**
 2) Type: Non-alloy welded steel tubes **L275 according to EN 10224:2002 + A1:2005**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

System of assessment and verification of constancy of performance of the product:
 System 4

The initial type testing was performed by the manufacturer whereas LO a.s. performs permanent surveillance, assessment, and evaluation of factory production control.

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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 : 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification
Tolerances on dimensions and shape			Values		EN 10224:2002 + A1:2005
	Outside diameter		±0,75%, max ± 6,0 mm		
	Wall thickness		±7,5%		
	Out of roundness		2% max for D/T≤100, for D/T>100 must be agreed		
	Straightness		0,2% L		
Yield strength	Nominal thickness (mm)		Values		
	>	≤	ReH min (MPa)		
	16	16	275		
	16	265			
Tensile strength	Nominal thickness (mm)		Values		
	≥	≤	Rm min (MPa)	max (MPa)	
	2,0	25,0	430	570	
Elongation	Nominal thickness (mm)		Values		
	≥	≤	long. min (%)	transv. min (%)	
	2,0	25,0	21	19	
Bending test	Nominal thickness (mm)		Test		
	>	≤			
	2,0	25,0	no cracks		
Reaction to fire	Nominal thickness (mm)		Mandated class as per 96/303/EEC		EN 10224:2002 + A1:2005
	≥	≤			
	2,0	25,0	Class A1		
Tightness	Nominal thickness (mm)		Test		
	≥	≤	Hydrostatic test at a minimum of 7MPa/5s or EMT in acc. with EN 10246-1		
	2,0	25,0			
Dangerous substances	Nominal thickness (mm)		Values		
	≥	≤	Any dang. substances in excess of the max. permitted levels specified in relevant European standard		
	2,0	25,0			
Durability	Nominal thickness (mm)		Values		
	≥	≤	max (%)		
	2,0	25,0	C : 0,22	P : 0,035	
		Mn : 1,50	S : 0,030		
		Si : 0,45			

Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-020-CPR2020-01-06

- 1) Code of the product type: **1.0419**
- 2) Type: Non-alloy welded steel tubes **L355 according to EN 10224:2002 + A1:2005**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

System of assessment and verification of constancy of performance of the product:
System 4

The initial type testing was performed by the manufacturer whereas LO a.s. performs permanent surveillance, assessment, and evaluation of factory production control.

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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 : 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification
Tolerances on dimensions and shape			Values		EN 10224:2002 + A1:2005
	Outside diameter		$\pm 0,75\%$, max $\pm 6,0$ mm		
	Wall thickness		$\pm 7,5\%$		
	Out of roundness Straightness		2% max for D/T \leq 100, for D/T>100 must be agreed 0,2% L		
Yield strength	Nominal thickness (mm)		Values		EN 10224:2002 + A1:2005
	>	\leq	ReH min (MPa)		
		16	355		
			345		
Tensile strength	Nominal thickness (mm)		Values		
	\geq	\leq	Rm min (MPa)	max (MPa)	
	2,0	25,0	500	650	
Elongation	Nominal thickness (mm)		Values		
	\geq	\leq	long. min (%)	transv. min (%)	
	2,0	25,0	21	19	
Bending test	Nominal thickness (mm)		Test		
	>	\leq			
	2,0	25,0	no cracks		
Reaction to fire	Nominal thickness (mm)		Mandated class as per 96/303/EEC		EN 10224:2002 + A1:2005
	\geq	\leq			
	2,0	25,0	Class A1		
Tightness	Nominal thickness (mm)		Test		
	\geq	\leq	Hydrostatic test at a minimum of 7MPa/5s or EMT in acc. with EN 10246-1		
	2,0	25,0			
Dangerous substances	Nominal thickness (mm)		Values		
	\geq	\leq	Any dang. substances in excess of the max. permitted levels specified in relevant European standard		
	2,0	25,0			
Durability	Nominal thickness (mm)		Values		
	\geq	\leq	max (%)		
	2,0	25,0	C : 0,24	P : 0,035	
			Mn : 1,70	S : 0,030	
		Si : 0,60			

Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-021-CPR2020-01-06

- 1) Code of the product type: **1.0026**
 2) Type: Non-alloy steel tubes **S195T according to EN 10255:2004 + A1:2007**

Intended use or uses of the construction product, in accordance with the applicable harmonised 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

System of assessment and verification of constancy of performance of the product:
 System 3

The initial type testing was performed by notified test laboratory and manufacturer whereas the internal factory production control is under permanent surveillance and assessment of the manufacturer. In addition, the certification body No. 0045 TÜV NORD issued certificate of conformity with requirements acc. to DIN EN 10255:2004+A1:2007

The performance of the product identified in point 1 and 2 is in conformity with the declared performance in the table.

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 : 06.01. 2020

Essential characteristic	Performance				Harmonised technical specification
Tolerances on dimensions and shape	Nominal thickness (mm)		Values		EN 10255:2004 + A1:2007
	≥	≤	EN 10255:2004 + A1:2007, Table 2		
	2,0	5,4	+12,5% / -12,5%		
	Out of roundness		Included in diameter tolerance		
Yield strength	Nominal thickness (mm)		Values		EN 10255:2004 + A1:2007, Table 2
	≥	≤	ReH min (MPa)		
	2,0	5,4	195		
	Straightness		0,002L		
Tensile strength	Nominal thickness (mm)		Values		EN 10255:2004 + A1:2007, Table 2
	≥	≤	Rm min (MPa)	max (MPa)	
	2,0	5,4	320	520	
	Mass		EN 10255:2004 + A1:2007, Table 2		
Elongation	Nominal thickness (mm)		Values		EN 10255:2004 + A1:2007
	≥	≤	min (%)		
	2,0	5,4	20		
	Reaction to fire		Mandated class as per 96/303/EEC		
Tightness	Nominal thickness (mm)		Test		EN 10255:2004 + A1:2007
	≥	≤	Class A1		
	2,0	5,4	Class A1		
	Dangerous substances		Any dang. substances in excess of the max. permitted levels specified in relevant European standard		
Durability	Nominal thickness (mm)		Values		EN 10255:2004 + A1:2007
	≥	≤	max (%)		
	2,0	5,4	C : 0,20 P : 0,035 Mn : 1,40 S : 0,030		
	Tightness		Hydrostatic test at a minimum of 5MPa/5s or EMT in acc. With EN 10246-1		