

(according to regulation EU No 305/2011)

No. LO-001-CPR2023-02-07

Essential

characteristic

Tolerances on

1) Code of the product type: 1.0039

> Type: Hot finished structural hollow sections (seamless tubes) S235JRH according to EN 10210-1:2006

2) 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: +420 595 682 151, 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) EN 10210-1:2006, EN 10210-2:2019

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.

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- Certificate No. 0045-CPR-0807-1. 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

i diei alices dii			Values			
dimensions and	Outside	e diameter	±1%, min ±	0,5 and max	Ł 10mm	
shape	Wall t	hickness	- 10% (loc.	-12,5%) / +8%	6 mass	EN 10210 2-2010
	0	vality	2%			EN 10210-2:2019
	Strai	ghtness	0,2% of tota	I length and	3mm/1m	
	N	lass	-6% / +8% for particular lengths			
Yield strength	Nomina	l thickness		Values		
	(mm)				
	>	≤	ReH min (MPa)			
		16	235			
	16	40	225			
Tensile strength	Nomina	l thickness		Values		
	(mm)				
	>	≤	Rm min (MPa)		(MPa)	
		100	360		10	
Elongation	Nomina	l thickness		Values		
	(mm)				
	>	≤	min (%)			
		40	26			
Impact strength	-	l thickness		Values		
	(mm)				EN 10210-1:2006
	>	≤	KV2Lmin (J)			
		40	27 at 20°C			
Weldability CEV	Nomina	l thickness		Values		
	(mm)				
	>	≤			: (%)	
		16			37	
	16	40			39	
Durability		l thickness		Values		
		mm)				
	>	≤			(%)	
		40		C: 0,22	P: 0,050	
				Mn : 1,50	S:0,050	
	1	1		N: 0,011		

Performance

Values

Harmonised technical

specification



(according to regulation EU No 305/2011)

No. LO-002-CPR2023-02-07

1) Code of the product type: 1.0149

> Type: Hot finished structural hollow sections (seamless tubes) S275J0H according to EN 10210-1:2006

2) 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: +420 595 682 151, 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) EN 10210-1:2006, EN 10210-2:2019

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.

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- 8) Certificate No. 0045-CPR-0807-1. 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.

Essential characteristic			Performance			Harmonised technical specification	
Tolerances on				Values		-	
dimensions and	Outside	diameter	±1%, min ±0,5 and max ± 10mm				
shape	Wall ti	nickness		-12,5%) / +89		EN 40040 0 0040	
	0\	ality	,	2%		EN 10210-2:2019	
		ghtness	0,2% of tota	I length and	3mm/1m		
		ass		or particular			
Yield strength	Nominal	thickness		Values	•		
	(r	nm)					
	>	≤	ReH min (MPa)				
		16	275				
	16	40	265				
Tensile strength	Nominal	thickness		Values			
	(r	nm)					
	>	≤	Rm min (MPa)	max	(MPa)		
		3	430	5	80		
	3	100	410	5	60		
Elongation	Nominal	thickness		Values			
	(r	nm)					
	>	≤	min (%)				
		40	23				
Impact strength	Nominal	thickness		Values		EN 10210-1:2006	
	(r	nm)				EN 10210-1.2000	
	>	≤	KV2Lmin (J)				
		40	27 at 0°C				
Weldability CEV	Nominal	thickness		Values			
	(r	nm)					
	>	≤		max	k (%)		
		16		0,	41		
	16	40		0,	43		
Durability	Nominal	thickness		Values			
	(r	nm)					
	>	≤]		k (%)		
		40		C: 0,22	P: 0,045		
				Mn : 1,60	S:0,045		
				N : 0,011			



(according to regulation EU No 305/2011)

No. LO-003-CPR2023-02-07

1) Code of the product type: 1.0138

> Type: Hot finished structural hollow sections (seamless tubes) S275J2H according to EN 10210-1:2006

2) 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: +420 595 682 151, 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) EN 10210-1:2006, EN 10210-2:2019

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.

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- Certificate No. 0045-CPR-0807-1. 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.

Essential characteristic			Performance			Harmonised technical specification
Tolerances on				Values		•
dimensions and	Outside	diameter	±1%, min ±0,5 and max ± 10mm			
shape	Wall ti	nickness		-12,5%) / +89		EN 40040 0 0040
·	Ov	ality		2%		EN 10210-2:2019
	Straid	ghtness	0,2% of tota	I length and	3mm/1m	
		ass		or particular		
Yield strength	Nominal	thickness		Values		
	(r	nm)				
	>	≤	ReH min (MPa)			
		16	275			
	16	40	265			
Tensile strength	Nominal	thickness		Values		
	(r	nm)				
	>	≤	Rm min (MPa)	max	(MPa)	
		3	430	5	80	
	3	100	410	5	60	
Elongation	Nominal	thickness		Values		
	(r	nm)				
	>	≤	min (%)			
		40	23			
Impact strength	Nominal	thickness		Values		EN 10210-1:2006
	(r	nm)				LN 10210-1.2000
	>	≤	KV2Lmin (J)			
		40	27 at -20°C			
Weldability CEV	Nominal	thickness		Values		
	(r	nm)				
	>	≤		max	(%)	
		16		0,	41	
	16	40		0,	43	
Durability	Nominal	thickness		Values		
	(r	nm)				
	>	≤			(%)	
		40		C:0,22	P:0,040	
				Mn : 1,60	S:0,040	



(according to regulation EU No 305/2011)

No. LO-004-CPR2023-02-07

1) Code of the product type: 1.0493

> Type: Hot finished structural hollow sections (seamless tubes) S275NH according to EN 10210-1:2006

2) 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: +420 595 682 151, 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) EN 10210-1:2006, EN 10210-2:2019

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.

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- Certificate No. 0045-CPR-0807-1. 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.

Essential characteristic			Performance			Harmonised technical specification
Tolerances on			Values			·
dimensions and	Outside	diameter	±1%, min ±	0,5 and max	է 10mm	
shape	Wall t	hickness		-12,5%) / +8%		_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Ī	O	ality	1	2%		EN 10210-2:2019
		ghtness	0.2% of tota	I length and	3mm/1m	
		lass		or particular		
Yield strength	Nomina	l thickness		Values	. J	
	(1	nm)				
	>	≤	ReH min (MPa)			
		16	275			
	16	40	265			
Tensile strength	Nomina	l thickness		Values		
	(1	mm)				
	>	≤	Rm min (MPa)	max ((MPa)	
		65	370	51	10	
Elongation	Nomina	l thickness		Values		
	(1	nm)				
	>	≤		min (%)		
			longit.	transv.		
		65	24	2	2	
Impact strength	Nomina	thickness		Values		
'	(1	nm)				EN 10210-1:2006
	>	≤	KV2Lmin (J)			
		40	40 at -20°C			
Weldability CEV	Nomina	thickness		Values		
-	(1	mm)				
	>	≤		max	(%)	
		65		0,4	40	
Durability	Nomina	l thickness		Values		
	(1	nm)				
	>	≤	in (%)	max	(%)	
		65	Mn: 0,35	C: 0,22	Si : 0,45	
			Al _{tot} : 0,015	Mn: 0,60	P:0,040	
				S: 0,035	Nb : 0,060	
				V : 0,10	Ti: 0,04	
				Cr : 0,35	Ni : 0,35	
				Mo : 0,13 N : 0,017	Cu : 0,39	
				N: U,U17		



(according to regulation EU No 305/2011)

No. LO-005-CPR2023-02-07

1) Code of the product type: **1.0497**

Type: Hot finished structural hollow sections (seamless tubes) S275NLH according to EN 10210-1:2006

2) 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: +420 595 682 151, Fax:+420 596 237 980
https: libertysteelgroup.com/cz

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

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.

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- 8) Certificate No. 0045-CPR-0807-1. 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.

Essential characteristic			Performance		Harmonised technical specification
Tolerances on				Values	
dimensions and	Outside	Outside diameter		0,5 and max ± 10mm	
shape	Wall t	hickness	- 10% (loc.	-12,5%) / +8% mass	EN 40240 2-2040
	O	ality		2%	EN 10210-2:2019
	Strai	ghtness	0,2% of tota	I length and 3mm/1m	
	N	lass	-6% / +8% f	or particular lengths	
Yield strength		l thickness nm)		Values	
	>	≤	ReH min (MPa)		
		16	275		
	16	40	265		
Tensile strength		thickness nm)		Values	
	>	≤	Rm min (MPa)	max (MPa)	
		65	370	510	
Elongation		l thickness nm)		Values	
	>	≤		min (%)	
			longit.	transv.	
		65	24	22	
Impact strength		thickness	= -	Values	EN 40040 4 0000
	> (1	····) ≤	KV2Lmin (J)		EN 10210-1:2006
		40	27 at -50°C		
Weldability CEV	Nomina	thickness	21 at -50 C	Values	
Weldability OLV	-	nm)		values	
	> ,	,		max (%)	
		65	-	0,40	
Durability	Nomina	thickness		Values	
Darability	-	nm)		Variabo	
	>		in (%)	max (%)	
		65	Mn : 0,35	C: 0,22 Si: 0,4	5
			Al _{tot} : 0,015	Mn: 0,60 P: 0,03	
				S: 0,030 Nb: 0,0	60
				V : 0,10 Ti : 0,0	4
				Cr : 0,35 Ni : 0,3	
				Mo: 0,13 Cu: 0,3	39
				N : 0,017	



(according to regulation EU No 305/2011)

No. LO-006-CPR2023-02-07

1) Code of the product type: 1.0547

> Type: Hot finished structural hollow sections (seamless tubes) \$355J0H according to EN 10210-1:2006

2) 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: +420 595 682 151, 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) EN 10210-1:2006, EN 10210-2:2019

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.

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- Certificate No. 0045-CPR-0807-1. 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.

Essential characteristic			Performance			Harmonised technical specification	
Tolerances on				Values		opcocac	
dimensions and	Outside	diameter	+1% min +	0,5 and max	+ 10mm		
shape		nickness		-12,5%) / +8%			
		ality	1070 (1001	2%	70 111000	EN 10210-2:2019	
		htness	0.2% of tota	I length and	3mm/1m		
		ass		or particular			
Yield strength	Nominal	thickness		Values	J		
.	(r	nm)					
	>	≤	ReH min (MPa)				
		16	355				
	16	40	345				
Tensile strength	Nominal	thickness		Values			
_	(r	nm)					
	>	≤	Rm min (MPa)		(MPa)		
		3	510	_	80		
	3	100	470		30		
Elongation	-	thickness		Values			
	(r	nm)		1			
	>	≤	min (%)				
		40	22				
Impact strength		thickness		Values		EN 10210-1:2006	
	•	nm)					
	>	≤	KV2Lmin (J)				
		40	27 at 0°C				
Weldability CEV		thickness		Values			
	•	nm)			. (0/)		
	>	≤	_		(%)		
	40	16 40	_		45		
D I. 1116	16			- ,	47		
Durability		thickness nm)		Values			
	> (1			max	((%)		
		≤ 40	1	C : 0,25	P: 0,045		
		40		Mn : 1,70	S: 0,045		
				Si : 0,60	N: 0,011		
				J 0,00			



(according to regulation EU No 305/2011)

No. LO-007-CPR2023-02-07

1) Code of the product type: 1.0576

> Type: Hot finished structural hollow sections (seamless tubes) S355J2H according to EN 10210-1:2006

2) 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: +420 595 682 151, 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) EN 10210-1:2006, EN 10210-2:2019

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.

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- Certificate No. 0045-CPR-0807-1. 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.

Essential characteristic			Performance			Harmonised technical specification
Tolerances on				Values		
dimensions and	Outside	diameter	±1%, min ±0,5 and max ± 10mm			
shape	Wall th	nickness		-12,5%) / +8%		
·	Ov	ality	,	2%		EN 10210-2:2019
		ghtness	0.2% of tota	I length and	3mm/1m	
		ass		or particular		
Yield strength	Nominal	thickness		Values	J	
	(r	nm)				
	>	≤	ReH min (MPa)			
		16	355			
	16	40	345			
Tensile strength	Nominal	thickness		Values		
-	(r	nm)				
	^	≤	Rm min (MPa)	max	(MPa)	
		3	510	6	80	
	3	100	470	6:	30	
Elongation	Nominal	thickness		Values		
	(r	nm)				
	۸	M	min (%)			
		40	22			
Impact strength	Nominal	thickness		Values		EN 10210-1:2006
	(r	nm)				EN 10210-1.2000
	>	≤	KV2Lmin (J)			
		40	27 at -20°C			
Weldability CEV	Nominal	thickness		Values		
	(r	nm)				
	^	≤		max	c (%)	
		16		0,	45	
	16	40		0,	47	
Durability	Nominal	thickness		Values		
	(r	nm)				
	>	≤		max (%)		
		40		C: 0,25	P:0,040	
				Mn: 1,70	S:0,040	
				Si : 0,60		



(according to regulation EU No 305/2011)

No. LO-008-CPR2023-02-07

1) Code of the product type: 1.0539

> Type: Hot finished structural hollow sections (seamless tubes) S355NH according to EN 10210-1:2006

2) 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: +420 595 682 151, Fax:+420 596 237 980 https://libertysteelgroup.com/cz

4)

- System of assessment and verification of 5) performance of the product: System
- 6) EN 10210-1:2006, EN 10210-2:20

Notified factory production control certification be TÜV NORD performed the initial inspection manufacturing plant and of factory production co continuous surveillance, assessment, and ev factory production control and issued the ce conformity of the factory production cor

- 7) The performance of the product identified in conformity with the declared performance in
- Certificate No. 0045-CPR-0807-1. This performance is issued under the sole respons manufacturer identified in point 3. Signed for and the manufacturer by:

Radim Svěchovský Q-Engineer – LO a.s.

Micha Q/A manag

Date: 07.02. 2023

of constancy of n 2+	Elongation		thickness nm)	Values				
2019		>	≤		min (%)			
body No. 0045				longit.	trar	isv.		
on of the			65	22	2	0		
control and the evaluation of	Impact strength		thickness nm)		Values			
ertificate of		>		KV2Lmin (J)			EN 10210-1:2006	
ontrol.			40	40 at -20°C				
in point 1) is in n the table.	Weldability CEV	_	thickness nm)		Values			
Title table.		>	≤		max	(%)		
s declaration of			16		0,	43		
sibility of the		16	65		0,	45		
nd on behalf of	Durability		l thickness nm)		Values			
		>	≤	in (%)	max	(%)		
n al Kolář ager – LO a.s.			65	Mn: 0,85	C: 0,22	Si : 0,55		
agei – LO a.s.				Al _{tot} : 0,015	Mn : 1,75	P:0,040		
(5)					S: 0,035	Nb : 0,060		
					V : 0,14	Ti : 0,04		
					Cr : 0,35	Ni : 0,55		
7					Mo : 0,13	Cu : 0,39		
<u>~</u>					N: 0,022			

Performance

ReH min (MPa)

355

345

Rm min (MPa)

470

Outside diameter

Wall thickness

Ovality Straightness

Mass

Nominal thickness

(mm)

Nominal thickness

(mm)

≤

16

40

≤

65

>

16

>

Values

±1%, min ±0,5 and max ± 10mm

- 10% (loc. -12,5%) / +8% mass

0,2% of total length and 3mm/1m

-6% / +8% for particular lengths

Values

Values

max (MPa)

630

Essential

characteristic

Tolerances on

dimensions and

shape

Yield strength

Tensile strength

Harmonised technical

specification

EN 10210-2:2019



(according to regulation EU No 305/2011)

No. LO-009-CPR2023-02-07

1) Code of the product type: **1.0549**

Type: Hot finished structural hollow sections (seamless tubes) S355NLH according to EN 10210-1:2006

2) 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: +420 595 682 151, Fax:+420 596 237 980
https: libertysteelgroup.com/cz

4) ----

- System of assessment and verification of constancy of performance of the product: System 2+
- 6) EN 10210-1:2006, EN 10210-2:2019

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.

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- 8) Certificate No. 0045-CPR-0807-1. 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.

Essential characteristic			Performance			Harmonised technical specification
Tolerances on				Values	opocinioa.ion	
dimensions and	Outside	e diameter	±1%, min ±	0,5 and max :	± 10mm	
shape		hickness	- 10% (loc12,5%) / +8% mass			EN 40040 0 0040
	O	vality		2%		EN 10210-2:2019
	Strai	ghtness	0,2% of tota	I length and	3mm/1m	
	N	lass	-6% / +8% f	or particular	lengths	
Yield strength		l thickness		Values		
	(1	mm)		1		
	>	≤	ReH min (MPa)			
		16	355			
	16	40	345			
Tensile strength		l thickness mm)		Values		
	>	≤	Rm min (MPa)		(MPa)	
		65	470		30	
Elongation		l thickness mm)		Values		
	>	≤		min (%)		
			longit.	trar	ısv.	
		65	22	2	20	
Impact strength	-	l thickness mm)		Values		
	>	≤	KV2Lmin (J)			EN 10210-1:2006
		40	27 at -50°C			
Weldability CEV	-	l thickness mm)		Values		
	>	≤		max	(%)	
		16		0,	43	
	16	65		0,	45	
Durability	-	l thickness mm)		Values		
	>	, ≤	in (%)	max (%)		
		65	Mn : 0,85	C: 0,20	Si : 0,55	
ĺ			Al _{tot} : 0,015	Mn : 1,75	P:0,035	
				S:0,030	Nb: 0,060	
				V : 0,14	Ti : 0,04	
				Cr : 0,35	Ni : 0,55	
				Mo: 0,13	Cu : 0,39	
			1	N: 0,022		



(according to regulation EU No 305/2011)

No. LO-022-CPR2023-02-07

1) Code of the product type: **1.0512**

Type: Hot finished structural hollow sections (seamless tubes) S355K2H according to EN 10210-1:2006

2) 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: +420 595 682 151, Fax:+420 596 237 980
https: libertysteelgroup.com/cz

4) ----

- System of assessment and verification of constancy of performance of the product: System 2+
- 6) EN 10210-1:2006, EN 10210-2:2019

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.

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- 8) Certificate No. 0045-CPR-0807-1. 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.

Essential characteristic			Performance		Harmonised technical specification		
Tolerances on				Values	•		
dimensions and	Outside	diameter	±1%, min ±	0,5 and max :	± 10mm		
shape	Wall th	nickness		-12,5%) / +8%		EN 40040 0 0040	
	O۱	ality	•	2%		EN 10210-2:2019	
	Straig	ghtness	0,2% of tota	al length and	3mm/1m		
		lass	-6% / +8% 1	for particular	lengths		
Yield strength	Nominal	thickness		Values			
	(r	nm)					
	>	≤	ReH min (MPa)				
		16	355				
	16	40	345				
Tensile strength		thickness nm)		Values			
	>	≤	Rm min (MPa)	max	(MPa)		
		3	510	68	30		
	3	100	470	63	30		
Elongation		thickness nm)		Values			
	>	≤	min (%)				
		40	22				
Impact strength		thickness nm)		Values		EN 10210-1:2006	
	>	≤	KV2Lmin (J)				
		40	40 at -20°C				
Weldability CEV		thickness nm)		Values			
	>	≤		max	(%)		
		16		0,	45		
	16	40		0,	47		
Durability		thickness nm)		Values			
	>	≤		max	x (%)		
		40		C: 0,25	P: 0,040		
				Mn : 1,70	S:0,040		
				Si : 0,60			



(according to regulation EU No 305/2011)

No. LO-023-CPR2023-02-07

1) Code of the product type: **1.8750**

Type: Hot finished structural hollow sections (seamless tubes) **S420NH according to EN 10210-1:2006**

2) 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: +420 595 682 151, 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) EN 10210-1:2006, EN 10210-2:2019

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.

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- 8) Certificate No. 0045-CPR-0807-1. 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.

Essential characteristic			Performance)	Harmonised technical specification
Tolerances on				Values	
dimensions and	Outside	diameter	±1%. min ±0),5 and max ± 10mm	
shape		nickness		-12,5%) / +8% mass	
		ality	1070 (1001	2%	EN 10210-2:2019
		htness	0.2% of total	length and 3mm/1m	
		ass		or particular lengths	
Yield strength	Nominal	thickness		Values	
ū	(n	nm)			
	>	≤	ReH min (MPa)		
		16	420		
	16	40	400		
Tensile strength	Nominal	thickness		Values	
_	(n	nm)			
	۸	≤	Rm min (MPa)	max (MPa)	
		65	520	680	
Elongation	Nominal	thickness		Values	
	(r	nm)			
	>	≤		min (%)	
			longit.	transv.	
		65	19	17	
Impact strength	Nominal	thickness	-	Values	
,	(n	nm)			EN 10210-1:2006
	^	≤	KV2Lmin (J)		
		40	40 at -20°C		
Weldability CEV	Nominal	thickness		Values	
•	(n	nm)			
	>	≤		max (%)	
		16		0,50	
	16	65		0,52	
Durability	Nominal	thickness		Values	
•		nm)			
	>	≤	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	



(according to regulation EU No 305/2011)

No. LO-024-CPR2023-02-07

1) Code of the product type: **1.8751**

Type: Hot finished structural hollow sections (seamless tubes) **S420NLH according to EN 10210-1:2006**

2) 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: +420 595 682 151, 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) EN 10210-1:2006, EN 10210-2:2019

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.

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- 8) Certificate No. 0045-CPR-0807-1. 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	•	Harmonised technica specification
Tolerances on				Values	-
dimensions and	Outside	diameter	±1%, min ±0),5 and max ± 10mm	
shape	Wall th	nickness		-12,5%) / +8% mass	5 11 40040 0 0040
	O۱	ality	,	2%	EN 10210-2:2019
		htness	0,2% of total	length and 3mm/1m	
	M	ass	-6% / +8% fo	or particular lengths	
Yield strength	Nominal	thickness		Values	
	(r	nm)			
	>	≤	ReH min (MPa)		
		16	420		
	16	40	400		
Tensile strength		thickness nm)		Values	
	>	≤	Rm min (MPa)	max (MPa)	
		65	520	680	
Elongation	-	thickness nm)		Values	
	>	≤		min (%)	
			longit.	transv.	
		65	19	17	
Impact strength	Nominal	thickness		Values	
	(r	nm)			EN 10210-1:2006
	>		KV2Lmin (J)		
		40	27 at -50°C		
Weldability CEV		thickness nm)		Values	
	> '.			max (%)	
		16		0,50	
	16	65		0,52	
Durability		thickness		Values	
,		nm)			
	> `	, ≤	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	



(according to regulation EU No 305/2011)

No. LO-025-CPR2023-02-07

1) Code of the product type: 1.8953

> Type: Hot finished structural hollow sections (seamless tubes) S460NH according to EN 10210-1:2006

2) 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: +420 595 682 151, Fax:+420 596 237 980 https://libertysteelgroup.com/cz

4)

6)

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

EN 10210-1:2006, EN 10210-2:2019

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.

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- Certificate No. 0045-CPR-0807-1. 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

Date: 07.02. 2023

Q/A manager - LO a.s.

Essential characteristic			Performance	•		Harmonised technical specification
Tolerances on			Values			
dimensions and	Outside	diameter	±1%, min ±0			
shape		nickness	- 10% (loc.			
		ality	1070 (1001	2%	70 111400	EN 10210-2:2019
		ghtness	0,2% of total		l 3mm/1m	
		ass	-6% / +8% fo			
Yield strength		thickness		Values		
J	(r	nm)				
	>	_ ≤	ReH min (MPa)			
		16	(MFa) 460			
	16	40	440			
Tensile strength		thickness	440	Values		
rensile strength	-	nm)		values		
	> (≤	Rm min (MPa)	max	(МРа)	
		65	540	7	20	
Elongation	Nominal	thickness	Values			
Liongation		nm)	Values			
	> ,			min (%)		
		_	longit.		ısv.	
		65	17		5	
Impact strength	Nominal	thickness	17	Values	3	
impact strength		nm)		values		EN 10210-1:2006
	> ''	<i>,</i> ≤	KV2Lmin (J)			
		40	40 at -20°C			
Weldability CEV	Nominal	thickness	40 at 20 0	Values		
Weiddomity OLV		nm)		Values		
	> '-			max	(%)	
		16			53	
	16	65			55	
Durability	Nominal	thickness		Values		
,	(r	nm)				
	>	≤	in (%)	max	x (%)	
		65	Mn : 0,95	C: 0,25	Si : 0,65	
			Al _{tot} : 0,015	Mn : 1,80	P:0,040	
					Nb: 0,060	
				V : 0,22	Ti: 0,04	
				Cr : 0,35	Ni : 0,85	
				Mo: 0,13	Cu : 0,77	
	l			N: 0,027		



(according to regulation EU No 305/2011)

No. LO-026-CPR2023-02-07

1) Code of the product type: **1.8956**

Type: Hot finished structural hollow sections (seamless tubes) **S460NLH according to EN 10210-1:2006**

2) 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: +420 595 682 151, Fax:+420 596 237 980
https: libertysteelgroup.com/cz

4) ----

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

6) EN 10210-1:2006, EN 10210-2:2019

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.

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- 8) Certificate No. 0045-CPR-0807-1. 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)	Harmonised technical specification	
Tolerances on				Values	-	
dimensions and	Outside	diameter	±1%, min ±0,5 and max ± 10mm			
shape	Wall th	nickness	- 10% (loc.			
	Ov	ality	,	2%		EN 10210-2:2019
	Straig	ghtness	0,2% of total	length and	l 3mm/1m	
		ass	-6% / +8% fo			
Yield strength	Nominal	thickness		Values		
	(r	nm)				
	>	≤	ReH min (MPa)			
		16	460			
	16	40	440			
Tensile strength		thickness	770	Values		
renone on engin		nm)		Values		
	>	≤	Rm min (MPa)	max	(MPa)	
		65	540	720		
Elongation	Nominal	thickness	Values			
-	(n	nm)		min (%)		
	>	≤				
			longit.	trar	isv.	
		65	17	1	5	
Impact strength	Nominal	thickness		Values		
	(n	nm)				EN 10210-1:2006
	>	≤	KV2Lmin (J)			
		40	27 at -50°C			
Weldability CEV	Nominal	thickness		Values		
	(n	nm)				
	>	≤			(%)	
		16			53	
	16	65			55	
Durability	-	thickness		Values		
	•	nm)				
	>	≤	in (%)		(%)	
		65	Mn : 0,95	C: 0,25	Si : 0,65	
			Al _{tot} : 0,015	Mn : 1,80	P: 0,035 Nb: 0,060	
				V: 0,22	Ti: 0,060	
				Cr : 0,35	Ni : 0,85	
				Mo : 0,13	Cu: 0,77	
				N: 0,027		



(according to regulation EU No 305/2011)

No. LO-010-CPR2023-02-07

1) Code of the product type: **1.0039**

Type: Cold formed welded structural hollow sections (SAWH tubes) **S235JRH according to EN 10219:2006**

2) 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: +420 595 682 151, 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) EN 10219-1:2006, EN 10219-2:2006

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.

- 7) The performance of the product identified in point 1) in conformity with the declared performance in the table.
- 8) Certificate No. 0045-CPR-0807-2. 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.

Essential characteristic	Performance					Harmonised technical	
Tolerances on			1	Values	specification		
dimensions and	0	!! 1	±1%, min ±0,5 and max ± 10mm				
	Outside	diameter					
shape				mm: T≤5mm :			
			T>5mm ±5mm; f		m: ±10% and	EN 10219-2:2006	
		hickness		max ±2mm			
		/ality		≥100 must be			
		ghtness		al length and			
		lass	±6% for	particular ler	ngths		
Yield strength		thickness		Values			
	· ·	nm)					
	>	≤	ReH min (MPa)				
		16	235				
	16	40	225				
Tensile strength		thickness		Values			
	(r	nm)					
	>	≤	Rm min (MPa)	, , , , , ,			
		40	360		10		
Elongation	Nomina	thickness		Values			
	1)	nm)					
	>	≤	min (%)				
		40	24				
Impact strength	Nomina	thickness		Values		EN 10219-1:2006	
	1)	nm)				LN 10219-1.2000	
	>	≤	KV2Lmin (J)				
		40	27 at 20°C				
Weldability CEV	Nomina	thickness		Values			
	(r	nm)					
	>	≤		max	(%)		
		40		0,	35		
Durability	Nomina	thickness		Values			
-	(r	nm)	20.00				
	>	≤	max (%)				
		40		C: 0,19	P: 0,050		
				Mn: 1,50	S:0,050		
				N : 0,011			



(according to regulation EU No 305/2011)

No. LO-011-CPR2023-02-07

1) Code of the product type: 1.0149

> Type: Cold formed welded structural hollow sections (SAWH tubes) **S275J0H according to EN 10219:2006**

2) 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: +420 595 682 151, 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) EN 10219-1:2006, EN 10219-2:2006

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.

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- Certificate No. 0045-CPR-0807-2. 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.

Essential characteristic			Performance			Harmonised technical specification
Tolerances on				Values	•	
dimensions and	Outside	diameter	±1%, min ±	0,5 and max		
shape				nm: T≤5mm :		
_			T>5mm ±5mm; f	or D<406,4m	m: ±10% and	EN 40040 0 0000
	Wall th	nickness		nax ±2mm		EN 10219-2:2006
	Ov	ality		≥100 must be		
	Straig	ghtness	0,20% of total	al length and	3mm/1m	
		ass	±6% for	particular ler	gths	
Yield strength	Nominal	thickness		Values		
	(r	nm)				
	>	≤	ReH min (MPa)			
		16	275			
	16	40	265			
Tensile strength	Nominal	thickness		Values		
	(r	nm)				
	>	≤	Rm min (MPa)	(MPa) max (MPa)		
		40	410	560		
Elongation	Nominal	thickness	Values			
	(r	nm)				
	>	≤	min (%)			
		40	20			
Impact strength	Nominal	thickness		Values		EN 10219-1:2006
	(r	nm)				EN 10219-1.2000
	>	≤	KV2Lmin (J)			
		40	27 at 0°C			
Weldability CEV	Nominal	thickness		Values		
	(r	nm)				
	>	≤		max	(%)	
		40		0,40		
Durability	Nominal	thickness	Values			
	(r	nm)				
	>	≤		max (%)		
		40		C:0,22	P: 0,045	
				Mn: 1,60	S: 0,045	
				N: 0,011		



(according to regulation EU No 305/2011)

No. LO-012-CPR2023-02-07

Essential

characteristic

Tolerances on

dimensions and

shape

1) Code of the product type: **1.0138**

Type: Cold formed welded structural hollow sections (SAWH tubes) **S275J2H according to EN 10219:2006**

2) 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: +420 595 682 151, Fax:+420 596 237 980
https: libertysteelgroup.com/cz

- 4) ----
- System of assessment and verification of constancy of performance of the product: System 2+
- 6) EN 10219-1:2006, EN 10219-2:2006

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.

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- 8) Certificate No. 0045-CPR-0807-2. 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

	•	Wall ti	nickness	T>5mm ±5mm; f	or D<406,4m	m: ±10% and	EN 10219-2:2006
		Ov	ality	2%, for D/T	≥100 must be	agreed	
			htness		al length and		
		M	ass	±6% for	particular len	gths	
١	ield strength	-	thickness nm)		Values		
		>	≤	ReH min (MPa)			
			16	275			
		16	40	265			
Te	ensile strength		thickness nm)		Values		
		>	≤	Rm min (MPa)	max	(MPa)	
			40	410	56	60	
	Elongation	Nominal thickness (mm)		Values			
		> ,	, 	min (%)			
			40	20			
In	npact strength	Nominal thickness (mm)		Values		EN 10219-1:2006	
		>	≤	KV2Lmin (J)			
			40	27 at -20°C			
W	eldability CEV	Nominal thickness (mm)		Values			
		>	≤		max	(%)	
			40		0,	40	
	Durability	Nominal	thickness		Values		
		(r	nm)				
		>	≤		max	(%)	
			40		C : 0,22 Mn : 1,60 N : 0,011	P: 0,040 S: 0,040	
I							

Performance

Outside diameter

Values

±1%, min ±0,5 and max ± 10mm

For D≤406,4mm: T≤5mm ±10% and

Harmonised technical

specification



(according to regulation EU No 305/2011)

No. LO-013-CPR2023-02-07

1) Code of the product type: **1.0547**

Type: Cold formed welded structural hollow sections (SAWH tubes) **S355J0H according to EN 10219:2006**

2) 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: +420 595 682 151, 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) EN 10219-1:2006, EN 10219-2:2006

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.

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- 8) Certificate No. 0045-CPR-0807-2. 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.

Q-Engineer – LO a.s.

Essential characteristic			Performance			Harmonised technical specification
Tolerances on				Values	-	
dimensions and	Outside	e diameter	±1%, min ±	0,5 and max		
shape				nm: T≤5mm :		
			T>5mm ±5mm; 1			
	Wall t	hickness		max ±2mm		EN 10219-2:2006
	O	vality		≥100 must be	agreed	
		ghtness		al length and		
		lass		particular ler		
Yield strength	Nomina	l thickness		Values	J.	
J		mm)				
	>	≤	ReH min (MPa)			
		16	355			
	16	40	345			
Tensile strength	Nomina	l thickness		Values		
		mm)				
	>		Rm min (MPa)	max	(MPa)	
		40	470	6	30	
Elongation	Nomina	l thickness		Values		
	(1	mm)				
	>	≤	min (%)			
		40	20			
Impact strength	Nomina	l thickness		Values		EN 40040 4-2000
'	(1	mm)				EN 10219-1:2006
	>	≤	KV2Lmin (J)			
		40	27 at 0°C			
Weldability CEV	Nomina	l thickness		Values		
,	(1	mm)				
	>	≤		max	((%)	
		40	1	0,	45	
Durability	Nomina	l thickness		Values		
_	(1	mm)				
	>	≤	max (%)			
		40	7	C: 0,24	P: 0,045	
				Mn : 1,60	S: 0,045	
				Si : 0,60	N: 0,011	



(according to regulation EU No 305/2011)

No. LO-014-CPR2023-02-07

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

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: +420 595 682 151, 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) EN 10219-1:2006, EN 10219-2:2006

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) is in conformity with the declared performance in the table.
- 8) Certificate No. 0045-CPR-0807-2. 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.

Essential characteristic		Performance				Harmonised technical specification
Tolerances on				Values	•	
dimensions and	Outside	diameter	±1%, min ±	0,5 and max		
shape			For D≤406,4mm: T≤5mm ±10% and			
•			T>5mm ±5mm; f	or D<406,4m	m: ±10% and	EN 40040 0 0000
	Wall t	hickness		max ±2mm		EN 10219-2:2006
	O	/ality	2%, for D/T	≥100 must be	agreed	
	Strai	ghtness	0,20% of tota	al length and	3mm/1m	
	N	lass	±6% for	particular ler	ngths	
Yield strength	Nomina	thickness		Values		
	(1	nm)				
	^	≤	ReH min (MPa)			
		16	355			
	16	40	345			
Tensile strength	Nominal thickness			Values		
	(mm)					
	^	≤	Rm min (MPa)	max	(MPa)	
		40	470	6	30	
Elongation	Nomina	thickness		Values		
	(1	nm)				
	>	≤	min (%)			
		40	20			
Impact strength	Nomina	thickness		Values		EN 10219-1:2006
	(1	nm)				LIV 10213-1.2000
	>	≤	KV2Lmin (J)			
		40	27 at -20°C			
Weldability CEV	Nomina	thickness		Values		
	(1	nm)				
	>	≤			(%)	
		40		,	45	
Durability		thickness		Values		
	(I	nm)				
	>	≤	_		(%)	
		40	1	C: 0,24	P:0,040	
		-				
				Mn : 1,60 Si : 0,60	S:0,040	



(according to regulation EU No 305/2011)

No. LO-015-CPR2023-02-07

1) Code of the product type: 1.0252

> Type: Non-alloy seamless steel tubes L235 according to EN 10224:2002 + A1:2005

2) 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: +420 595 682 151, Fax:+420 596 237 980 https://libertysteelgroup.com/cz 4)

- 5) System of assessment and verification of constancy of performance of the product: System 4
- 6) EN 10224:2002 + A1:2005

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

- 7) The performance of the product identified in point 1) 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.

Essential characteristic			Harmonised technical specification		
Tolerances on				Values	
dimensions and	Outside	e diameter	±1% c	or min ±0,5 mm	
shape		hickness		002 + A1:2005, table 7	EN 10224:2002 + A1:2005
		roundness		ax for D/T≤100	211 1022 112002 1 71112000
		ghtness		0,2% L	
Yield strength		l thickness		Values	
riola di diigii		mm)		14.400	
	>		ReH min (MPa)		
		16	235		
	16		225		
Tensile strength	Nomina	l thickness mm)		Values	
	≥ (Rm min (MPa)	max (MPa)	
	2.0	25,0	360	500	
Elongation	,-	l thickness		Values	
		mm)			
	≥ `	≤	long. min (%)	transv. min (%)	
	2,0	25,0	25	23	
Flattening test		I thickness		Test	
ū	(mm)				
	>	≤			
	2,0	25,0	1	no cracks	
Reaction to fire	Nomina	l thickness	Mandated cla	ass as per 96/303/EEC	EN 10224:2002 + A1:2005
	(1	mm)		•	LN 10224.2002 + A1.2003
	≥	≤			
	2,0	25,0		Class A1	
Tightness	Nomina	l thickness		Test	
-	(1	mm)			
	≥	≤		at a minimum of 7MPa/5s	
	2,0	25,0	or EMT in a	acc. with EN 10246-1	
Dangerous	Nomina	I thickness		Values	
substances	(1	mm)			
	≥	≤		stances in excess of the	
	2,0	25,0	max. permitted levels specified in		
			relevant E	European standard	
Durability		l thickness		Values	
		mm)	ļ	(0.1)	
	≥	≤	_	max (%)	
	2,0	25,0		C: 0,18 P: 0,035	
				Mn: 1,30 S: 0,030	
				Si : 0,40	



(according to regulation EU No 305/2011)

No. LO-016-CPR2023-02-07

1) Code of the product type: **1.0260**

Type: Non-alloy seamless steel tubes L275 according to EN 10224:2002 + A1:2005

2) 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: +420 595 682 151, Fax:+420 596 237 980
https: libertysteelgroup.com/cz

- 4) ----
- 5) System of assessment and verification of constancy of performance of the product: System 4
- 6) EN 10224:2002 + A1:2005

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

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- 8) 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.

Essential characteristic			Performance		Harmonised technical specification
Tolerances on				Values	
dimensions and	Outside	e diameter	±1% (or min ±0,5 mm	
shape	Wall t	hickness		002 + A1:2005, table	7 EN 10224:2002 + A1:2005
	Out of I	roundness		ax for D/T≤100	
	Strai	ghtness		0,2% L	
Yield strength	Nomina	l thickness		Values	
	(1	mm)			
	>	≤	ReH min (MPa)		
		16	275		
	16		265		
Tensile strength		l thickness		Values	
		mm)			
	≥	≤	Rm min (MPa)	max (MPa)	
	2,0	25,0	430	570	
Elongation		l thickness		Values	
		mm)			
	≥	≤	long. min (%)	transv. min (%))
	2,0	25,0	21	19	
Flattening test		l thickness		Test	
		mm)			
	>	≤			
D 4: 4 5:	2,0	25,0		no cracks	
Reaction to fire		l thickness mm)	Mandated ci	ass as per 96/303/EE	EN 10224:2002 + A1:2005
	≥ `	≤			
	2,0	25,0		Class A1	
Tightness	Nomina	l thickness		Test	
	(1	mm)			
	≥	≤		at a minimum of 7M	
	2,0	25,0	or EMT in a	acc. with EN 10246-1	
Dangerous	Nomina	l thickness		Values	
substances		mm)			
	≥	≤	Any dang. substances in excess of the		
	2,0	25,0	max. permitted levels specified in		in
B 1377			relevant European standard		
Durability		l thickness		Values	
	(mm)	+	max (%)	
	2,0	≤ 25,0	1	C: 0,22 P: 0,	025
	2,0	25,0		Mn: 1,50 S: 0,	
				Si: 0,45	,,,,,,



(according to regulation EU No 305/2011)

No. LO-017-CPR2023-02-07

1) Code of the product type: **1.0419**

Type: Non-alloy seamless steel tubes L355 according to EN 10224:2002 + A1:2005

2) 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: +420 595 682 151, Fax:+420 596 237 980
https: libertysteelgroup.com/cz
4) ----

- 5) System of assessment and verification of constancy of performance of the product: System 4
- 6) EN 10224:2002 + A1:2005

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

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- 8) 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: 07.02. 2023

characteristic					specification
Tolerances on				Values	
dimensions and	Outside	e diameter	±1% c	or min ±0,5 mm	
shape	Wall t	hickness	EN 10224:20	EN 10224:2002 + A1:2005, table 7 EN 10224:2002 + A1	
	Out of I	oundness	2% m	ax for D/T≤100	
	Strai	ghtness		0,2% L	
Yield strength	Nomina	l thickness		Values	
	(1	mm)			
	>	≤	ReH min (MPa)		
		16	355		
	16		345		
Tensile strength		l thickness mm)		Values	
	≥	≤	Rm min (MPa)	max (MPa)	
	2,0	25,0	500	650	
Elongation	Nomina	l thickness		Values	
	(1	mm)			
	≥	≤	long. min (%)	transv. min (%)	
	2,0	25,0	21	19	
Flattening test	Nomina	l thickness	Test		
	(1	mm)			
	>	≤			
	2,0	25,0	1	no cracks	
Reaction to fire		l thickness mm)	Mandated cla	ass as per 96/303/EEC	EN 10224:2002 + A1:2005
	≥				
	2,0	25,0		Class A1	
Tightness	Nomina	l thickness		Test	
	(1	mm)			
	≥	≤		at a minimum of 7MPa/5s	
	2,0	25,0	or EMT in a	icc. with EN 10246-1	
Dangerous	Nomina	l thickness		Values	
substances	(1	mm)			
	≥	≤	Any dang. substances in excess of the max. permitted levels specified in		
	2,0	25,0			
			relevant European standard		
Durability		l thickness		Values	
		mm)	 		
	≥	≤	4	max (%)	
	2,0	25,0		C: 0,24 P: 0,035	
				Mn: 1,70 S: 0,030	
	1			Si : 0,60	

Performance

Harmonised technical

Essential



(according to regulation EU No 305/2011)

No. LO-018-CPR2023-02-07

1) Code of the product type: 1.0252

> Type: Non-alloy welded steel tubes L235 according to EN 10224:2002 + A1:2005

2) 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: +420 595 682 151, Fax:+420 596 237 980 https://libertysteelgroup.com/cz

4)

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

6) EN 10224:2002 + A1:2005

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

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- 8) 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.

Essential characteristic			Harmonised technical specification		
Tolerances on				Values	
dimensions and	Outside	diameter	+0.75%	6, max ± 6,0 mm	
shape		nickness	20,107	±7,5%	
0	- Wan u	iioitii 1000	2% max for D/T	100, for D/T>100 must be	EN 10224:2002 + A1:2005
	Out of r	oundness	70	agreed	
		htness		0,2% L	
Yield strength		thickness		Values	
		nm)			
	> ,	, ≤	ReH min (MPa)		
		16	235		
	16		225		
Tensile strength	Nominal	thickness	_	Values	
		nm)			
	≥ `	≤	Rm min (MPa)	max (MPa)	
	2.0	25.0	360	500 ´	
Elongation	Nominal	thickness		Values	
gu		nm)		1 4.400	
	≥ `	≤	long. min (%)	transv. min (%)	
	2,0	25,0	25	23	
Bending	Nominal	thickness	Test		
test	(r	nm)			
	>	≤			
	2,0	25,0		no cracks	
Reaction to fire	Nominal	thickness	Mandated cla	ass as per 96/303/EEC	EN 10224:2002 + A1:2005
	(r	nm)		-	EN 10224.2002 + A1.2003
	≥	≤			
	2,0	25,0		Class A1	
Tightness	Nominal	thickness		Test	
-	(r	nm)			
	≥	≤	Hydrostatic test	at a minimum of 7MPa/5s	
	2,0	25,0	or EMT in a	ncc. with EN 10246-1	
Dangerous	Nominal	thickness		Values	
substances	(r	nm)			
	≥	≤		stances in excess of the	
	2,0	25,0		ted levels specified in	
			relevant l	European standard	
Durability		thickness		Values	
		nm)	<u> </u>		
	≥	≤	_	max (%)	
	2,0	25,0		C: 0,18 P: 0,035	
				Mn: 1,30 S: 0,030	
				Si : 0,40	



(according to regulation EU No 305/2011)

No. LO-019-CPR2023-02-07

1) Code of the product type: **1.0260**

Type: Non-alloy welded steel tubes L275 according to EN 10224:2002 + A1:2005

2) 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: +420 595 682 151, Fax:+420 596 237 980
https: libertysteelgroup.com/cz

- 4) ----
- 5) System of assessment and verification of constancy of performance of the product: System 4
- 6) EN 10224:2002 + A1:2005

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

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- 8) 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.

a Enginoon Lo a.o.

Essential characteristic			Performance	Harmonised technical specification	
Tolerances on				Values	specification
dimensions and	Outoide	e diameter	+0.750		
shape			±0,75%, max ± 6,0 mm		
Snape	want	hickness	20/ may for D/Te	±7,5%	EN 10224:2002 + A1:2005
	04 of	aun du aaa	2% max for D/13	≤100, for D/T>100 must be	
		oundness		agreed 0,2% L	
Viold otropoth		ghtness I thickness		Values	
Yield strength		nm)		values	
	>	, ≤	ReH min (MPa)		
		16	275		
	16	-	265		
Tensile strength	Nomina	thickness		Values	
i onone on ongui		nm)			
	≥ `	≤	Rm min (MPa)	max (MPa)	
	2,0	25,0	430	570	
Elongation	Nomina	thickness		Values	
	1)	nm)			
	Δ	≤	long. min (%)	transv. min (%)	
	2,0	25,0	21	19	
Bending	Nomina	thickness	Test		
test	1)	nm)			
	>	≤			
	2,0	25,0		no cracks	
Reaction to fire		thickness	Mandated cla	ass as per 96/303/EEC	EN 10224:2002 + A1:2005
		nm)			
	≥	≤			
	2,0	25,0		Class A1	
Tightness		l thickness		Test	
	•	nm)			
	≥	≤		at a minimum of 7MPa/5s	
_	2,0	25,0	or EMT in a	acc. with EN 10246-1	
Dangerous		thickness		Values	
substances		nm)	.		
	≥	≤	Any dang. substances in excess of the		
	2,0	25,0	max. permitted levels specified in		
Durability	Nemina	thickness	relevant European standard Values		
Durability		nm)		values	
	') ≥	····) ≤		max (%)	
	2,0	25,0	-	C: 0,22 P: 0,035	
	2,0	25,0		Mn : 1,50 S : 0,030	
				Si : 0,45	
<u> </u>		l .	I	0 0,70	



(according to regulation EU No 305/2011)

No. LO-020-CPR2023-02-07

1) Code of the product type: **1.0419**

Type: Non-alloy welded steel tubes L355 according to EN 10224:2002 + A1:2005

2) 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: +420 595 682 151, Fax:+420 596 237 980
https: libertysteelgroup.com/cz

- 4) ----
- 5) System of assessment and verification of constancy of performance of the product: System 4
- 6) EN 10224:2002 + A1:2005

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

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- 8) 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.

Essential			Harmonised technical				
characteristic			specification				
Tolerances on		Values				EN 10224:2002 + A1:2005	
dimensions and	Outside diameter		±0,75%, max ± 6,0 mm				
shape	Wall thickness		±7,5%				
			2% max for D/T≤100, for D/T>100 must be		EN 10224.2002 + A1.2003		
	Out of r	oundness	agreed				
	Straightness		0,2% L				
Yield strength	Nominal thickness		Values				
	(1	nm)	<u> </u>				
	>	≤	ReH min (MPa)				
		16	355				
	16		345				
Tensile strength	Nominal thickness		Values				
	(mm)						
	≥	≤	Rm min (MPa)	max	(MPa)		
	2,0	25,0	500	6	50		
Elongation	Nominal thickness		Values				
	(mm)						
	≥	≤	long. min (%)	transv.	min (%)		
	2,0	25,0	21	19			
Bending	Nomina	l thickness	Test				
test	(1	(mm)					
	> ≤						
	2,0	25,0	no cracks				
Reaction to fire	Nominal thickness		Mandated class as per 96/303/EEC		EN 10224:2002 + A1:2005		
	(mm)		-				
	≥	≤					
	2,0	25,0	Class A1				
Tightness	Nomina	Nominal thickness Test					
_	(mm)						
	≥	≤	Hydrostatic test at a minimum of 7MPa/5s				
	2,0	25,0	or EMT in acc. with EN 10246-1				
Dangerous	Nomina	Nominal thickness Values					
substances	(mm)						
	≥	≤	Any dang. substances in excess of the				
	2,0	25,0	max. permitted levels specified in				
	·		relevant European standard				
Durability	Nominal thickness		Values				
	(mm)						
	≥	≤	max (%)				
	2,0	25,0		C: 0,24	P: 0,035		
				Mn: 1,70	S:0,030		
				Si : 0,60			



(according to regulation EU No 305/2011)

No. LO-021-CPR2023-02-07

1) Code of the product type: 1.0026

> Type: Non-alloy steel tubes S195T according to EN 10255:2004 + A1:2007

2) 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: +420 595 682 151, Fax:+420 596 237 980 https://libertysteelgroup.com/cz

4)

5) System of assessment and verification of constancy of performance of the product: System 3 6)

EN 10255:2004 + A1:2007

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

- 7) The performance of the product identified in point 1) is in conformity with the declared performance in the table.
- 8) TÜV file 1326WL31702. 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.

Essential characteristic			Harmonised technical specification		
Tolerances on			•		
dimensions and	Outside diameter		Values EN 10255:2004 + A1:2007, Table 2		
shape			2,5% / -12,5%		
_	Out of r	oundness	Included in diameter tolerance		EN 10255:2004 + A1:2007
	Straid	ghtness	0.002L		
	Mass		EN 10255:20	004 + A1:2007, Table 2	
Yield strength	Nominal thickness			Values	
	(mm)				
	2	≤	ReH min		
			(MPa)		
	2,0	5,4	195]	
Tensile strength	Nominal thickness		Values		
	(mm)				
	N	≤	<i>R</i> m min	max (MPa)	
			(MPa)		
	2,0	5,4	320	520	
Elongation	Nominal thickness		Values		
	(mm)				
	≥	≤	min (%)		
	2,0	5,4	20		
Reaction to fire	Nominal thickness		Mandated class as per		
	(mm)		96/303/EEC		
	≥	≤			EN 10255:2004 + A1:2007
	2,0	5,4		Class A1	
Tightness	Nominal thickness		Test		
	(mm)				
	^1	≤		at a minimum of 5MPa/5s	
	2,0	5,4	or EMT in acc. With EN 10246-1		<u> </u>
Dangerous	-	Nominal thickness Values		Values	
substances	(mm)				
	≥	≤	Any dang. substances in excess of the		
	2,0	5,4		ted levels specified in	
	N. 1 1 1 1 1 1		relevant European standard		
Durability	Nominal thickness		Values		
	(mm)		may (9/)		
	≥	≤	max (%)		
	2,0	5,4		C: 0,20 P: 0,035	
				Mn: 1,40 S: 0,030	