

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

No. LO-001-CPR2023-02-07

- 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.
 - 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.




Date : 07.02. 2023

| 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 10210-1:2006 |
| | > | ≤ | 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 Mn : 1,50 N : 0,011 | |
| | | | | P : 0,050 S : 0,050 | |

Declaration of Performance
(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.




Date : 07.02. 2023

| 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 10210-1:2006 |
| | > | ≤ | ReH min (MPa) | | |
| | | 16 | 275 | | |
| | 16 | 40 | 265 | | |
| Tensile strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | Rm min (MPa) | max (MPa) | |
| | | 3 | 430 | 580 | |
| | 3 | 100 | 410 | 560 | |
| Elongation | Nominal thickness (mm) | | Values | | |
| | > | ≤ | min (%) | | |
| | | 40 | 23 | | |
| Impact strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | KV2Lmin (J) | | |
| | | 40 | 27 at 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 Mn : 1,60 N : 0,011 | |

Declaration of Performance
(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://libersteeelgroup.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.




Date : 07.02. 2023

| 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 10210-1:2006 |
| | > | ≤ | ReH min (MPa) | | |
| | | 16 | 275 | | |
| | 16 | 40 | 265 | | |
| Tensile strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | Rm min (MPa) | max (MPa) | |
| | | 3 | 430 | 580 | |
| | 3 | 100 | 410 | 560 | |
| Elongation | Nominal thickness (mm) | | Values | | |
| | > | ≤ | min (%) | | |
| | | 40 | 23 | | |
| Impact strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | KV2Lmin (J) | | |
| | | 40 | 27 at -20°C | | |
| Weldability CEV | Nominal thickness (mm) | | Values | | |
| | > | ≤ | | max (%) | |
| | | 16 | | 0,41 | |
| | 16 | 40 | | 0,43 | |
| Durability | Nominal thickness (mm) | | Values | | |
| | > | ≤ | | max (%) | |
| | | 40 | | C : 0,22 Mn : 1,60 | |

Declaration of Performance
(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.
 - 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.




Date : 07.02. 2023

| 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 10210-1:2006 |
| | > | ≤ | ReH min (MPa) | | | |
| | | 16 | 275 | | | |
| | 16 | 40 | 265 | | | |
| Tensile strength | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | Rm min (MPa) | max (MPa) | | |
| | | 65 | 370 | 510 | | |
| Elongation | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | min (%) | | | |
| | | | longit. | transv. | | |
| | | 65 | 24 | 22 | | |
| Impact strength | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | KV2Lmin (J) | | | |
| | | 40 | 40 at -20°C | | | |
| Weldability CEV | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | | max (%) | | |
| | | 65 | | 0,40 | | |
| Durability | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | in (%) | max (%) | | |
| | | 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 | Si : 0,45 P : 0,040 Nb : 0,060 Ti : 0,04 Ni : 0,35 Cu : 0,39 | |

Declaration of Performance
(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) ----
 - 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.




Date : 07.02. 2023

| 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 10210-1:2006 |
| | > | ≤ | ReH min (MPa) | | | |
| | | 16 | 275 | | | |
| | 16 | 40 | 265 | | | |
| Tensile strength | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | Rm min (MPa) | max (MPa) | | |
| | | 65 | 370 | 510 | | |
| Elongation | Nominal thickness (mm) | | 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 (%) | max (%) | | |
| | | 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-CPR2023-02-07

- 1) Code of the product type: **1.0547**
Type: Hot finished structural hollow sections (seamless tubes) **S355J0H 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.




Date : 07.02. 2023

| 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 10210-1:2006 |
| | > | ≤ | ReH min (MPa) | | |
| | | 16 | 355 | | |
| | 16 | 40 | 345 | | |
| Tensile strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | Rm min (MPa) | max (MPa) | |
| | | 3 | 510 | 680 | |
| | 3 | 100 | 470 | 630 | |
| Elongation | Nominal thickness (mm) | | Values | | |
| | > | ≤ | min (%) | | |
| | | 40 | 22 | | |
| Impact strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | KV2Lmin (J) | | |
| | | 40 | 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 Mn : 1,70 Si : 0,60 | |

Declaration of Performance
(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.
- 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.




Date : 07.02. 2023

| 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 10210-1:2006 |
| | > | ≤ | ReH min (MPa) | | |
| | | 16 | 355 | | |
| | 16 | 40 | 345 | | |
| Tensile strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | Rm min (MPa) | max (MPa) | |
| | | 3 | 510 | 680 | |
| | 3 | 100 | 470 | 630 | |
| Elongation | Nominal thickness (mm) | | Values | | |
| | > | ≤ | min (%) | | |
| | | 40 | 22 | | |
| Impact strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | KV2Lmin (J) | | |
| | | 40 | 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 Mn : 1,70 Si : 0,60 | |

Declaration of Performance
(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) ----
 - 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.




Date : 07.02. 2023

| 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 10210-1:2006 |
| | > | ≤ | ReH min (MPa) | | | |
| | | 16 | 355 | | | |
| | 16 | 40 | 345 | | | |
| Tensile strength | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | Rm min (MPa) | max (MPa) | | |
| | | 65 | 470 | 630 | | |
| Elongation | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | min (%) | | | |
| | | | longit. | transv. | | |
| | | 65 | 22 | 20 | | |
| Impact strength | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | KV2Lmin (J) | | | |
| | | 40 | 40 at -20°C | | | |
| Weldability CEV | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | | max (%) | | |
| | | 16 | | 0,43 | | |
| | 16 | 65 | | 0,45 | | |
| Durability | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | in (%) | max (%) | | |
| | | 65 | Mn : 0,85 Al _{tot} : 0,015 | C : 0,22 Mn : 1,75 S : 0,035 V : 0,14 Cr : 0,35 Mo : 0,13 N : 0,022 | Si : 0,55 P : 0,040 Nb : 0,060 Ti : 0,04 Ni : 0,55 Cu : 0,39 | |
| | | | | | | |

Declaration of Performance
(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) ----
 - 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.




Date : 07.02. 2023

| 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 10210-1:2006 |
| | > | ≤ | ReH min (MPa) | | | |
| | | 16 | 355 | | | |
| | 16 | 40 | 345 | | | |
| Tensile strength | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | Rm min (MPa) | max (MPa) | | |
| | | 65 | 470 | 630 | | |
| | | | | | | |
| Elongation | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | min (%) | | | |
| | | | longit. | transv. | | |
| | | 65 | 22 | 20 | | |
| Impact strength | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | KV2Lmin (J) | | | |
| | | 40 | 27 at -50°C | | | |
| | | | | | | |
| Weldability CEV | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | | max (%) | | |
| | | 16 | | 0,43 | | |
| | 16 | 65 | | 0,45 | | |
| Durability | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | in (%) | max (%) | | |
| | | 65 | Mn : 0,85 Al _{tot} : 0,015 | C : 0,20 Mn : 1,75 S : 0,030 V : 0,14 Cr : 0,35 Mo : 0,13 N : 0,022 | Si : 0,55 P : 0,035 Nb : 0,060 Ti : 0,04 Ni : 0,55 Cu : 0,39 | |
| | | | | | | |

Declaration of Performance
(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) ----
- 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 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 10210-1:2006 |
| | > | ≤ | ReH min (MPa) | | |
| | | 16 | 355 | | |
| | 16 | 40 | 345 | | |
| Tensile strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | Rm min (MPa) | max (MPa) | |
| | | 3 | 510 | 680 | |
| | 3 | 100 | 470 | 630 | |
| Elongation | Nominal thickness (mm) | | Values | | |
| | > | ≤ | min (%) | | |
| | | 40 | 22 | | |
| Impact strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | KV2Lmin (J) | | |
| | | 40 | 40 at -20°C | | |
| Weldability CEV | Nominal thickness (mm) | | Values | | |
| | > | ≤ | | max (%) | |
| | | 16 | | 0,45 | |
| | 16 | 40 | | 0,47 | |
| Durability | Nominal thickness (mm) | | Values | | |
| | > | ≤ | | max (%) | |
| | | 40 | | C : 0,25 Mn : 1,70 Si : 0,60 | |

Declaration of Performance
(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.




Date. 07.02. 2023

| 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 10210-1:2006 |
| | > | ≤ | ReH min (MPa) | | |
| | | 16 | 420 | | |
| | 16 | 40 | 400 | | |
| Tensile strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | Rm min (MPa) | max (MPa) | |
| | | 65 | 520 | 680 | |
| | | | | | |
| Elongation | Nominal thickness (mm) | | Values | | |
| | > | ≤ | min (%) | | |
| | | | longit. | transv. | |
| | | 65 | 19 | 17 | |
| Impact strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | KV2Lmin (J) | | |
| | | 40 | 40 at -20°C | | |
| | | | | | |
| Weldability CEV | Nominal thickness (mm) | | Values | | |
| | > | ≤ | | max (%) | |
| | | 16 | | 0,50 | |
| | 16 | 65 | | 0,52 | |
| Durability | Nominal thickness (mm) | | Values | | |
| | > | ≤ | in (%) | max (%) | |
| | | 65 | Mn : 0,95 Al _{tot} : 0,015 | C : 0,25 Mn : 1,80 S : 0,035 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-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 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 10210-1:2006 |
| | > | ≤ | ReH min (MPa) | | |
| | | 16 | 420 | | |
| | 16 | 40 | 400 | | |
| Tensile strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | Rm min (MPa) | max (MPa) | |
| | | 65 | 520 | 680 | |
| Elongation | Nominal thickness (mm) | | Values | | |
| | > | ≤ | min (%) | | |
| | | | longit. | transv. | |
| | | 65 | 19 | 17 | |
| Impact strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | KV2Lmin (J) | | |
| | | 40 | 27 at -50°C | | |
| Weldability CEV | Nominal thickness (mm) | | Values | | |
| | > | ≤ | | max (%) | |
| | | 16 | | 0,50 | |
| | 16 | 65 | | 0,52 | |
| Durability | Nominal thickness (mm) | | Values | | |
| | > | ≤ | in (%) | max (%) | |
| | | 65 | Mn : 0,95 Al _{tot} : 0,015 | C : 0,25 Mn : 1,80 S : 0,030 V : 0,22 Cr : 0,35 Mo : 0,13 N : 0,027 | |

Declaration of Performance
(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) ----
- 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 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 10210-1:2006 |
| | > | ≤ | ReH min (MPa) | | |
| | | 16 | 460 | | |
| | 16 | 40 | 440 | | |
| Tensile strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | Rm min (MPa) | max (MPa) | |
| | | 65 | 540 | 720 | |
| Elongation | Nominal thickness (mm) | | Values | | |
| | > | ≤ | min (%) | | |
| | | | longit. | transv. | |
| | | 65 | 17 | 15 | |
| Impact strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | KV2Lmin (J) | | |
| | | 40 | 40 at -20°C | | |
| Weldability CEV | Nominal thickness (mm) | | Values | | |
| | > | ≤ | | max (%) | |
| | | 16 | | 0,53 | |
| | 16 | 65 | | 0,55 | |
| Durability | Nominal thickness (mm) | | Values | | |
| | > | ≤ | in (%) | max (%) | |
| | | 65 | Mn : 0,95 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 | |

Declaration of Performance
(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) ----

- 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 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 10210-1:2006 |
| | > | ≤ | ReH min (MPa) | | |
| | | 16 | 460 | | |
| | 16 | 40 | 440 | | |
| Tensile strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | Rm min (MPa) | max (MPa) | |
| | | 65 | 540 | 720 | |
| Elongation | Nominal thickness (mm) | | Values | | |
| | > | ≤ | min (%) | | |
| | | | longit. | transv. | |
| | | 65 | 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 | |

Declaration of Performance
(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.




Date : 07.02. 2023

| 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 | | |
| | > | ≤ | Rm min (MPa) | max (MPa) | |
| | | 40 | 360 | 510 | |
| | | | | | |
| Elongation | Nominal thickness (mm) | | Values | | |
| | > | ≤ | min (%) | | |
| | | 40 | 24 | | |
| | | | | | |
| Impact strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | KV2Lmin (J) | | |
| | | 40 | 27 at 20°C | | |
| | | | | | |
| Weldability CEV | Nominal thickness (mm) | | Values | | |
| | > | ≤ | | max (%) | |
| | | 40 | | 0,35 | |
| | | | | | |
| Durability | Nominal thickness (mm) | | Values | | |
| | > | ≤ | | 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-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.
 - 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

| 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 | 275 | | |
| | 16 | 40 | 265 | | |
| Tensile strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | Rm min (MPa) | max (MPa) | |
| | | 40 | 410 | 560 | |
| | | | | | |
| Elongation | Nominal thickness (mm) | | Values | | |
| | > | ≤ | min (%) | | |
| | | 40 | 20 | | |
| | | | | | |
| Impact strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | KV2Lmin (J) | | |
| | | 40 | 27 at 0°C | | |
| | | | | | |
| Weldability CEV | Nominal thickness (mm) | | Values | | |
| | > | ≤ | | max (%) | |
| | | 40 | | 0,40 | |
| | | | | | |
| Durability | Nominal thickness (mm) | | Values | | |
| | > | ≤ | | 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-CPR2023-02-07

- 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) ----
- 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.




Date : 07.02. 2023

| Essential characteristic | Performance | | | | | Harmonised technical specification |
|------------------------------------|---------------------------------|----|--|------------------------------------|------------------------|------------------------------------|
| Tolerances on dimensions and shape | | | Values | | | EN 10219-2:2006 |
| | Outside diameter | | ±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 | 275 | | | |
| | 16 | 40 | 265 | | | |
| Tensile strength | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | Rm min (MPa) | max (MPa) | | |
| | | 40 | 410 | 560 | | |
| | | | | | | |
| Elongation | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | min (%) | | | |
| | | 40 | 20 | | | |
| | | | | | | |
| Impact strength | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | KV2Lmin (J) | | | |
| | | 40 | 27 at -20°C | | | |
| | | | | | | |
| Weldability CEV | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | | max (%) | | |
| | | 40 | | 0,40 | | |
| | | | | | | |
| Durability | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | | max (%) | | |
| | | 40 | | C : 0,22 Mn : 1,60 N : 0,011 | P : 0,040 S : 0,040 | |
| | | | | | | |

Declaration of Performance
(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.




Date : 07.02. 2023

| Essential characteristic | Performance | | | | | Harmonised technical specification |
|------------------------------------|---------------------------------|----|--|------------------------------------|-------------------------------------|------------------------------------|
| Tolerances on dimensions and shape | | | Values | | | EN 10219-2:2006 |
| | Outside diameter | | ±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 | 355 | | | |
| | 16 | 40 | 345 | | | |
| Tensile strength | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | Rm min (MPa) | max (MPa) | | |
| | | 40 | 470 | 630 | | |
| | | | | | | |
| Elongation | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | min (%) | | | |
| | | 40 | 20 | | | |
| | | | | | | |
| Impact strength | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | KV2Lmin (J) | | | |
| | | 40 | 27 at 0°C | | | |
| | | | | | | |
| Weldability CEV | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | | max (%) | | |
| | | 40 | | 0,45 | | |
| | | | | | | |
| Durability | Nominal thickness (mm) | | Values | | | |
| | > | ≤ | | max (%) | | |
| | | 40 | | C : 0,24 Mn : 1,60 Si : 0,60 | P : 0,045 S : 0,045 N : 0,011 | |
| | | | | | | |

Declaration of Performance
(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**
- 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 **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 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 | 355 | | |
| | 16 | 40 | 345 | | |
| Tensile strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | Rm min (MPa) | max (MPa) | |
| | | 40 | 470 | 630 | |
| | | | | | |
| Elongation | Nominal thickness (mm) | | Values | | |
| | > | ≤ | min (%) | | |
| | | 40 | 20 | | |
| | | | | | |
| Impact strength | Nominal thickness (mm) | | Values | | |
| | > | ≤ | KV2Lmin (J) | | |
| | | 40 | 27 at -20°C | | |
| | | | | | |
| Weldability CEV | Nominal thickness (mm) | | Values | | |
| | > | ≤ | | max (%) | |
| | | 40 | | 0,45 | |
| | | | | | |
| Durability | Nominal thickness (mm) | | Values | | |
| | > | ≤ | | max (%) | |
| | | 40 | | C : 0,24 Mn : 1,60 Si : 0,60 | |
| | | | | P : 0,040 S : 0,040 | |

Declaration of Performance
(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.
- 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.




Date : 07.02. 2023

| 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 | | | |
| | ≥ | ≤ | 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 | | |
| 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 | | | |
| | ≥ | ≤ | | | | |
| | 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-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.




Date : 07.02. 2023

| 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 | | | |
| | ≥ | ≤ | | | | |
| | 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-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

| 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 | | 2% max for D/T≤100 | | | | | |
| Yield strength | Straightness | | 0,2% L | | EN 10224:2002 + A1:2005 | | | |
| | Nominal thickness (mm) | | Values | | | | | |
| | > | ≤ | ReH min (MPa) | | | | | |
| | | 16 | 355 | | | | | |
| Tensile strength | 16 | | 345 | | | | | |
| | Nominal thickness (mm) | | Values | | | | | |
| | ≥ | ≤ | Rm min (MPa) | max (MPa) | | | | |
| | 2,0 | 25,0 | 500 | 650 | | | | |
| 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 : 0,24 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-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.




Date : 07.02. 2023

| 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 Straightness | | 2% max for D/T≤100, for D/T>100 must be agreed 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 | | | | | | | |
| | ≥ | ≤ | 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-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://libertysteellgroup.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.




Date : 07.02. 2023

| 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 Straightness | | 2% max for D/T≤100, for D/T>100 must be agreed 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 | | |
| 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 | | | |
| | ≥ | ≤ | | | | |
| | 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-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.




Date : 07.02. 2023

| 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 Straightness | | 2% max for D/T≤100, for D/T>100 must be agreed 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 | | | | |
| | ≥ | ≤ | Rm min (MPa) | max (MPa) | | | |
| | 2,0 | 25,0 | 500 | 650 | | | |
| | | | | | | | |
| 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 | | | | |
| | ≥ | ≤ | Class A1 | | | | |
| | 2,0 | 25,0 | | | | | |
| | | | | | | | |
| 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 : 0,24 Mn : 1,70 Si : 0.60 | P : 0,035 S : 0,030 | | |
| | | | | | | | |

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

No. LO-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.




Date : 07.02. 2023

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