



DECLARATION OF PERFORMANCE

No. DoP LO-UK-L-SM-5/02-CPR-23-1

according to Annex III of the Regulation (EU) No 305/2011 of the European Parliament and Construction Products Regulation 2011 (retained EU law EUR 305/2011) as amended by the Construction Products (Amendment etc) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc) (EU Exit) Regulations 2020

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|--|--|
| UNIQUE IDENTIFICATION CODE OF THE PRODUCT – TYPE: | |
| Long hot rolled products of structural steels With improved atmospheric corrosion resistance steel grade S355J2W (1.8965) | |
| <ul style="list-style-type: none">- Flat bars width 30 - 170 mm and thickness 10 - 60 mm- IPN beams 180 - 220- IPE beams 180 - 220- UPN channels 50 - 220- Equal angles L 40x40 up to L 150x150, thickness 3 - 18 mm- Unequal angles L 100x65 up to L 140x90, thickness 7 - 14 mm | |
| INTENDED USE: | Metal structures or mixed metal and concrete structures |
| MANUFACTURER: | LIBERTY OSTRAVA a.s. Vratimovská 689/117, Kunčice 719 00 Ostrava Czech Republic Tel. +420 59 733 1111 https://libertysteelgroup.com/cz |
| SYSTEM/S OF AVCP: | System 2+ |
| HARMONISED / DESIGNATED STANDARD: | EN 10025-1:2004 |
| NOTIFIED BODY (EU): | Technický a zkušební ústav stavební Praha, s.p. Prosecká 811/76y, Praha 9 – Prosek No. 1020 |
| APPROVED BODY (UK): | TUV UK Limited AMP House Suites 27 – 29 Fifth Floor Dingwall Road Croydon CR0 2LX No. 0879 |

DECLARED PERFORMANCES:

| Essential characteristic | | Performance | | Harmonized technical specification |
|------------------------------------|--|-------------|------------------------------------|------------------------------------|
| Tolerances on dimensions and shape | Angles | | EN10056-1, 2 | |
| | IPN and H sections | | EN 10365, EN 10034 | |
| | Tapered Flange IPE | | EN 10365, EN 10024 | |
| | UPE, UPN | | EN 10365, EN 10279 | |
| | Flat bars | | EN 10058 | |
| Yield strength | Nominal thickness(mm) | | Values (MPa) | |
| | > | ≤ | min | |
| | | 16 | 355 | |
| | 16 | 40 | 345 | |
| | 40 | 63 | 335 | |
| Tensile strength | Nominal thickness(mm) | | Values (MPa) | |
| | > | ≤ | min | max |
| | =3 | 100 | 470 | 630 |
| Elongation | Nominal thickness(mm) | | Values (%) | |
| | > | ≤ | min | |
| | =3 | 40 | 22 | |
| | 40 | 21 | | |
| Impact strength | Nominal thickness(mm) | | Values (J) | |
| | > | ≤ | min | |
| | | 63 | 27 at -20°C | |
| Weldability (CEV) | Nominal thickness(mm) | | Values (%) | |
| | > | ≤ | NPD | |
| | | 16 | | |
| | 16 | 40 | | |
| | 40 | 63 | | |
| Durability (Chemical composition) | Nominal thickness(mm) | | | |
| | > | ≤ | min | max |
| | | 40 | | S: 0,035 N*: |
| | | | C: 0,16 Si: 0,50 P: 0,035 | |
| | | | Mn: 0,50 Cu: 0,25 Cr: 0,40** | Mn: 1,50 Cu: 0,55 Cr: 0,80 |
| | *The max. value for nitrogen does not apply if the chemical composition shows a minimum total Al content of 0,020% or if sufficient other N binding elements are present. Cr content can be reduced to 0.37% if the Si content is min. 0.15%. | | | |
| | Addition of nitrogen binding elements: the steels shall contain at least one of the following elements: Al total ≥ 0,020%, Nb: 0,015 - 0,060%, V: 0,02-0,12%, Ti: 0,02 - 0,10%. If these elements are used in combination, at least one of them shall be present with the minimum content indicated. . | | | |
| | CEV max. 0,52% | | | |
| | The steels may show a Ni content of max. 0,65%. The steels may contain max. 0,30% Mo and max. 0,15% Zr. | | | |
| | Fully killed steel containing nitrogen binding element in amounts sufficient to bind the available nitrogen (for example min. 0,02% Al) | | | |

EN 10025-1:2004

This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, as it has effect in the United Kingdom, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

David Božon

At Ostrava, on 12th of January 2023

The Declarations of Performance for download: <https://libertysteelgroup.com/cz>