



## DECLARATION OF PERFORMANCE

**No. DoP LO-UK-L-SM-4/01-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

UNIQUE IDENTIFICATION CODE OF THE PRODUCT – TYPE:	
<b>Long hot rolled products of structural steels thermomechanical rolled weldable fine grain steel grade S355M (1.8823)</b>	
<ul style="list-style-type: none"><li>- IPN beams 180 - 220</li><li>- IPE beams 180 - 220</li><li>- UPN channels 180 - 220</li><li>- Equal angles L 90 - 150, thickness 8 - 16 mm</li><li>- Unequal angles L 100x65 up to L 140x90, thickness 7 - 14 mm</li></ul>	
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 <a href="https://libertysteelgroup.com/cz">https://libertysteelgroup.com/cz</a>
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 CRO 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	
Yield strength	Nominal thickness(mm)		Values (MPa)	
	>	≤	min	
		16	355	
	16	40	345	
	40	63	335	
	63	80	325	
	80	100	325	
	100	140	320	
Tensile strength	Nominal thickness(mm)		Values (MPa)	
	>	≤	min	max
		40	470	630
	40	63	450	610
	63	80	440	600
	80	100	440	600
	100	140	430	590
	Elongation	Nominal thickness(mm)		Values (%)
>		≤	min	
		140	22	
Impact strength	Nominal thickness(mm)		Values (J)	
	>	≤	min	
		140	40 at -20°C	
Weldability (CEV)	Nominal thickness(mm)		Values (%)	
	>	≤	max	
		16	0,39	
	16	40	0,39	
	40	63	0,40	
Durability (Chemical composition)	Nominal thickness(mm)		Values (%)	
	>	≤	min	max
		140		C: 0,16 Mn: 1,60 Si: 0,50 P: 0,030 S: 0,030 Nb: 0,05 V: 0,10
				Ti: 0,05 Cr: 0,30 Mo: 0,10 Ni: 0,50 Cu: 0,55 N: 0,015
			Al*: 0,02	
	* If sufficient other nitrogen binding elements are present, the minimum aluminum requirement does not apply			

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>