



**LIBERTY**

## DECLARATION OF PERFORMANCE

No. DoP LO-L-SM-2/01-CPR-22-1

UNIQUE IDENTIFICATION CODE OF THE PRODUCT – TYPE:	
<b>Long hot rolled products of structural non-alloy steel grade S235JR (1.0038)</b>	
<ul style="list-style-type: none"><li>- IPN/IPE beams 80 - 220</li><li>- IPE A/IPE AA beams 80 - 220</li><li>- UPN channels 50 - 220 mm</li><li>- UE shape sections 80 - 120 mm</li><li>- Equal angles L 35 - 150, thickness 3 - 18 mm</li><li>- Unequal angles L 100x65 up to 140x90, thickness 7 - 14 mm</li><li>- Round bars <math>\varnothing</math> 10 - 110 mm</li><li>- Square bars 14 - 16 mm</li><li>- HEA/HEB wide flange beams 100 - 140</li><li>- Flat bars width 18 - 180 mm, and flat bars of thickness 10 - 25 mm and width 200 mm</li></ul>	
INTENDED USE:	Metal structures or mixed metal and concrete structures
MANUFACTURER:	LIBERTY OSTRAVA a.s. Vratimovská 689/117, 719 00 Ostrava Kunčice, Česká republika Tel. +420 59 733 1111 <a href="https://libertysteelgroup.com/cz">https://libertysteelgroup.com/cz</a>
SYSTEM/S OF AVCP:	System 2+
HARMONISED STANDARD:	EN 10025-1:2004
NOTIFIED BODY/IES:	Technický a zkušební ústav stavební Praha, s.p. Prosecká 811/76y, Praha 9 – Prosek No. 1020

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, ČSN 425571, EN 10279	
	Flat / Square / Round bars		EN 10058/EN 10059/EN 10060	
Yield strength	Nominal thickness(mm)		Values (MPa)	
	>	≤	min	
		16	235	
	16	40	225	
	40	63	215	
	63	80		
	80	100		
	100	140	195	
Tensile strength	Nominal thickness(mm)		Values (MPa)	
	>	≤	min	max
	=3	100	360	510
	100	140	350	500
Elongation	Nominal thickness(mm)		Values (%)	
	>	≤	min	
	=3	40	26	
	40	63	25	
	63	100	24	
	100	140	22	
Impact strength	Nominal thickness(mm)		Values (J)	
	>	≤	min	
		140	27 at +20°C	
Weldability (CEV)	Nominal thickness(mm)		Values (%)	
	>	≤	max	
		30	0,35	
	30	40	0,35	
	40	140	0,38	
Durability (Chemical composition)	Nominal thickness(mm)		Values (%)	
	>	≤	max	
		140	C*: 0,17	Cu: 0,55
			Mn: 1,40	S: 0,040
			P: 0,040	N**: 0,012
	* For Nominal thickness> 40 mm C: 0,20. For Nominal thickness>100 mm: C content upon agreement			
	** 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

The performance of the product identified above is in conformity with the set of declared performance/s.

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

Signed for and on behalf of the manufacturer by:

David Božon



At Ostrava, on 8th of April 2022