



## DECLARATION OF PERFORMANCE

No. DoP LO-L-SM-4/02-CPR-22-1

UNIQUE IDENTIFICATION CODE OF THE PRODUCT – TYPE:	
<b>Long hot rolled products of structural steel grade S420M (1.8825)</b>	
<ul style="list-style-type: none"><li>- IPN beams 180 - 220</li><li>- IPE beams 180 - 220</li><li>- UPN channels 50 - 120 and 180 - 220</li><li>- Equal angles L 40x40 up to L 150x150, thickness 4 - 18 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, 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	
Yield strength	Nominal thickness(mm)		Values (MPa)	
	>	≤	min	
		16	420	
	16	40	400	
	40	63	390	
	63	80	380	
	80	100	370	
	100	140	365	
Tensile strength	Nominal thickness(mm)		Values (MPa)	
	>	≤	min	max
		40	520	680
	40	63	500	660
	63	80	480	640
	80	100	470	630
	100	140	460	620
	Elongation	Nominal thickness(mm)		Values (%)
>		≤	min	
		140	19	
Impact strength	Nominal thickness(mm)		Values (J)	
	>	≤	min	
		140	40 at -20°C	
Weldability (CEV)	Nominal thickness(mm)		Values (%)	
	>	≤	max	
		16	0,43	
	16	40	0,45	
	40	63	0,46	
Durability (Chemical composition)	Nominal thickness(mm)		Values (%)	
	>	≤	min	max
		140		C: 0,18 Ti: 0,05 Mn: 1,70 Cr: 0,30 Si: 0,50 Mo: 0,20 P: 0,035 Ni: 0,80 S: 0,030 Cu: 0,55 Nb: 0,05 N: 0,025 V: 0,12
			Al*: 0,02	
	* If sufficient other nitrogen binding elements are present, the minimum aluminium requirement does not apply			

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 Božoň



At Ostrava, on 8th of April 2022