



DECLARATION OF PERFORMANCE

No. DoP LO-L-SM-4/01-CPR-22-1

UNIQUE IDENTIFICATION CODE OF THE PRODUCT – TYPE:	
Long hot rolled products of structural steel grade S355M (1.8823)	
<ul style="list-style-type: none">- IPN beams 180 - 220- IPE beams 180 - 220- UPN channels 180 - 220- Equal angles L 90 - 150, thickness 8 - 16 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, 719 00 Ostrava Kunčice, Česká republika Tel. +420 59 733 1111 https://libertysteelgroup.com/cz
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	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		
63	140	0,45			
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

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