



DECLARATION OF PERFORMANCE

No. DoP LO-L-SM-2/10-CPR-22-1

UNIQUE IDENTIFICATION CODE OF THE PRODUCT – TYPE:	
Long hot rolled products of structural non-alloy steel grade S355K2 (1.0596)	
<ul style="list-style-type: none">- IPN/IPE beams 180 - 220- UPN channels 180 – 220 mm- Equal angles L 90 - 150, thickness 8 - 18 mm- Unequal angles L 120x80 up to L 140x90, thickness 10 - 14 mm- HEA/HEB wide flange beams 120 - 140	
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	315	
	100	140	295	
Tensile strength	Nominal thickness(mm)		Values (MPa)	
	>	≤	min	max
	≤3	100	470	630
	100	140	450	600
Elongation	Nominal thickness(mm)		Values (%)	
	>	≤	min	
	≤3	40	22	
	40	63	21	
	63	100	20	
	100	140	18	
Impact strength	Nominal thickness(mm)		Values (J)	
	>	≤	min	
		140	40 at -20°C	
Weldability (CEV)	Nominal thickness(mm)		Values (%)	
	>	≤	max	
		30	0,45	
	30	40	0,47	
	40	140	0,47	
Durability (Chemical composition)	Nominal thickness(mm)		Values (%)	
	>	≤	max	
		140	C*: 0,20	Cu: 0,55
			Si: 0,55	S: 0,030
			Mn: 1,60	P: 0,030
	* For Nominal thickness> 30 mm C: 0,22. 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 Božoň



At Ostrava, on 8th of April 2022