



DECLARATION OF PERFORMANCE

No. DoP LO-L-SM-5/02-CPR-22-1

UNIQUE IDENTIFICATION CODE OF THE PRODUCT – TYPE:	
Long hot rolled products of structural steel grade S355J2W (1.8965)	
<ul style="list-style-type: none">- Flat bars width 30 - 170 mm and thickness 10 - 60 mm- IPN beams 180 - 220- IPE beams 180 - 220- UPN channels 50 - 220- Equal angles L 40x40 up to L 150x150, thickness 3 - 18 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	
	Flat bars		EN 10058	
Yield strength	Nominal thickness(mm)		Values (MPa)	
	>	≤	min	
		16	355	
	16	40	345	
	40	63	335	
Tensile strength	Nominal thickness(mm)		Values (MPa)	
	>	≤	min	max
	≅3	100	470	630
Elongation	Nominal thickness(mm)		Values (%)	
	>	≤	min	
	≅3	40	22	
	40	21		
Impact strength	Nominal thickness(mm)		Values (J)	
	>	≤	min	
		63	27 at -20°C	
Weldability	Nominal thickness(mm)		Values (%)	
	>	≤	NPD	
		16		
	16	40		
	40	63		
Durability (Chemical composition)	Nominal thickness(mm)			
	>	≤	min	max
		40		C: 0,16 Si: 0,50 P: 0,035 N*:
			Mn: 0,50 Cu: 0,25 Cr: 0,40**	Mn: 1,50 Cu: 0,55 Cr: 0,80
	*The max. value for nitrogen does not apply if the chemical composition shows a minimum total Al content of 0,020% or if sufficient other N binding elements are present. Cr content can be reduced to 0.37% if the Si content is min. 0.15%.			
	Addition of nitrogen binding elements: the steels shall contain at least one of the following elements: Al total ≥ 0,020%, Nb: 0,015 - 0,060%, V: 0,02-0,12%, Ti: 0,02 - 0,10%. If these elements are used in combination, at least one of them shall be present with the minimum content indicated..			
	CEV max. 0,52% The steels may show a Ni content of max. 0,65%. The steels may contain max. 0,30% Mo and max. 0,15% Zr.			
	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