



DECLARATION OF PERFORMANCE

No. DoP LO-UK-L-SM-4/02-CPR-23-1

according to Annex III of the Regulation (EU) No 305/2011 of the European Parliament and Construction Products Regulation 2011 (retained EU law EUR 305/2011) as amended by the Construction Products (Amendment etc) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc) (EU Exit) Regulations 2020

UNIQUE IDENTIFICATION CODE OF THE PRODUCT – TYPE:	
Long hot rolled products of structural steels thermomechanical rolled weldable fine grain steel grade S420M (1.8825)	
<ul style="list-style-type: none">- IPN beams 180 - 220- IPE beams 180 - 220- UPN channels 50 - 120 and 180 - 220- Equal angles L 40x40 up to L 150x150, thickness 4 - 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, Kunčice 719 00 Ostrava Czech Republic Tel. +420 59 733 1111 https://libertysteelgroup.com/cz
SYSTEM/S OF AVCP:	System 2+
HARMONISED / DESIGNATED STANDARD:	EN 10025-1:2004
NOTIFIED BODY (EU):	Technický a zkušební ústav stavební Praha, s.p. Prosecká 811/76y, Praha 9 – Prosek No. 1020
APPROVED BODY (UK):	TUV UK Limited AMP House Suites 27 – 29 Fifth Floor Dingwall Road Croydon CR0 2LX No. 0879

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, 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		
63	140	0,47			
Durability (Chemical composition)	Nominal thickness(mm)		Values (%)		
	>	≤	min	max	
		140		C: 0,18 Mn: 1,70 Si: 0,50 P: 0,035 S: 0,030 Nb: 0,05 V: 0,12	Ti: 0,05 Cr: 0,30 Mo: 0,20 Ni: 0,80 Cu: 0,55 N: 0,025
			Al*: 0,02		
* If sufficient other nitrogen binding elements are present, the minimum aluminum requirement does not apply					

EN 10025-1:2004

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

Signed for and on behalf of the manufacturer by:

David Božon

At Ostrava, on 12th of January 2023

The Declarations of Performance for download: <https://libertysteelgroup.com/cz>