



Declaration of Performance
(according to regulation EU No 305/2011)

No. LO-L-SM-2/04-CPR-19-1

- 1) Code of the product type: **1.0044**
- 2) Type: **Sections/Bars S275JR according EN 10025-2**
Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

To be used in welded, bolted and riveted structures

- 3) **LIBERTY OSTRAVA a.s.**
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System of assessment and verification of constancy of performance of the product:
System 2+

Notified factory production control certification body No. 1020 Technical and Test Institute for Construction Prague (TZUS) performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment, and evaluation of factory production control and issued the certificates of conformity of the factory production control.

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in the table.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3. Signed for and on behalf of the manufacturer by:

David Božoň
Director of Rolling Mills

Date: 19.08.2019

Essential characteristic		Performance		Harmonized technical specification	
Tolerances on dimensions and shape	Angles		EN10056-2		EN 10025-1:2004
	I and H sections		EN 10034		
	Tapered Flange I		EN 10024		
	UPE, UPN		EN 10279		
	Flat / Square / Round / T bars		EN 10058/EN 10059/EN 10060/EN 10055		
Yield strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min		
		16	275		
	16	40	265		
	40	63	255		
	63	80	245		
	80	100	235		
Tensile strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min	max	
	=3	100	410	560	
	100	140	400	540	
	Elongation	Nominal thickness (mm)		Values (%)	
>		≤	min		
=3		40	23		
40		63	22		
63		100	21		
Impact strength	Nominal thickness (mm)		Values (J)		
	>	≤	min		
		140	27 at +20°C		
Weldability (CEV)	Nominal thickness (mm)		Values (%)		
	>	≤	max		
		30	0,40		
	30	40	0,40		
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)		
	>	≤	max		
		140	C* : 0,21	Cu : 0,55	
			Mn : 1,50	S : 0,040	
			P : 0,040	N** : 0,012	
* For nominal thickness > 40 mm C: 0,22. For nominal thickness >100 mm: C content upon agreement					
** 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					