



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

No. LO-L-SM-2/07-CPR-19-1

1) Code of the product type: 1.0045

2) Type: Sections/Bars S355JR 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	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	27 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* : 0,24	Cu : 0,55	
			Si : 0,55	S : 0,040	
			Mn : 1,60	N** : 0,012	
			P : 0,040		
* 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					