



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

No. LO-L-SM-4/01-CPR-20-1

1) Code of the product type: **1.8823**

2) Type: **Sections/Bars S355M according EN 10025-4**

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: **02.03.2020**

Essential characteristic		Performance		Harmonized technical specification
Tolerances on dimensions and shape	Angles		EN10056-2	
	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	325	
100	140	320		
Tensile strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	max
		40	470	630
	40	63	450	610
	63	80	440	600
	80	100	440	600
	100	140	430	590
Elongation	Nominal thickness (mm)		Values (%)	
	>	≤	min	
		140	22	
Impact strength	Nominal thickness (mm)		Values (J)	
	>	≤	min	
		140	40 at -20°C	
Weldability (CEV)	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		16	0,39	
	16	40	0,39	
	40	63	0,40	
63	140	0,45		
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)	
	>	≤	min	max
		140	C : 0,16	Ti : 0,05
			Mn : 1,60	Cr : 0,30
		Si : 0,50	Mo : 0,10	
		P : 0,030	Ni : 0,50	
		S : 0,030	Cu : 0,55	
		Nb : 0,05	N : 0,015	
		V : 0,10		
		Al* : 0,02		
* If sufficient other nitrogen binding elements are present, the minimum aluminum requirement does not apply				

EN 10025-1:2004