

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

No. LO-L-SM-4/02-CPR-19-1

1) Code of the product type: 1.8825

Type: Sections/Bars S420M 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

2) 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 point 1 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 2. 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		Angles	EN10056-2			
dimensions and shape	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	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		EN 10025-1:2004	
		140	19			
Impact strength	Nominal thickness (mm)		Values (J)			
	>	≤	min			
	140		40 at -20°C			
Weldability (CEV)	Nominal thickness (mm)		Values (%)			
	>	<u> </u>	max			
		16	0,43			
	16	40	0,45			
	40	63	0,46			
	63 140		0,47			
Durability	Nominal thickness (mm)		Values (%)			
(Chemical composition)	>	<u> </u>	min		max	
		140		C:0,: Mn::		
				Si:0,		
				P:0,0		
				S:0,0	•	
				Nb:0	·	
				V:0,:		
			Al* : 0,02			
	* If sufficient other nitrogen binding elements are present, the minimum aluminium requirement does					
	not apply	ot apply				