

Declaration of Performance

Declaration of Performance in accordance with EU-regulation 305/2011, Annex III

No. 023CPR2013-07-01

1. Unique identification code of the product-type:

Hot rolled structural steel plate S420M / 1.8825

2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):

Plate S420M according to EN 10025-4

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Welded, bolted and riveted structures

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant Article 11(5):

NLMK DanSteel A/S
Havnevej 33
DK 3300 Frederiksværk, Denmark
Tel. +4547770333
www.dansteel.dk

5. Name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

Not applicable.

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 2+

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

Notified factory production control certification body TÜV Nord Systems GmbH & Co. KG No. 0045 conducted an initial inspection of the plant and of the factory production control and performs continuous monitoring and conformity assessment of the factory production control.

8. Declared performance

Essential characteristic		Performance				Harmonised technical specification
Tolerances on dimensions and shape	Thickness	In accordance with EN 10029: 2011				EN 10025-1 :2004
	Width	In accordance with EN 10029: 2011				
	Length	In accordance with EN 10029: 2011				
Yield Strength	Nominal thickness (mm)		Values ReH (MPa)			
	>	≤	min	max		
		16	420			
	16	40	400			
	40	63	390			
	63	80	380			
	80	100	370			
	100	120	365			
Tensile Strength	Nominal thickness (mm)		Values Rm (MPa)			
	>	≤	Min	Max		
	3	40	520	680		
	40	63	500	660		
	63	80	480	640		
Elongation	Nominal thickness (mm)		Values A5 (%)			
	>	≤	min	max		
	3	80	19			
Impact Strength	Nominal thickness (mm)		Values (J @ -20°C)			
	>	≤	min	max		
	3	80	40			
Weldability CEV	Nominal thickness (mm)		Values (%)			
	>	≤	min	max		
	3	16		0,43		
	16	40		0,45		
	40	63		0,46		
	63	80		0,47		
Durability (chemical composition)	Nominal thickness (mm)		Values (%)			
	>	≤	min	max		
	3	80				
			C: 0,16	Ti: 0,05		
			Si: 0,50	Cr: 0,30		
			Mn: 1,70	Ni: 0,80		
			P: 0,030	Mo: 0,20		
			S: 0,025	Cu: 0,55		
			Nb: 0,05	N: 0,025		
			V: 0,12			

9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by:

Zibrandt Greisen
Chief Metallurgist.