

Declaration of performance CE/UKCA

DOP certification number: TKMN002

1. Product name and identification code:

Hot-drawn tube profiles, EN 10210-1: 2006; EN10210-2:2019

Shape and sections	Dimensions	Steel grade
Round	Diameter 21,3 to 1219 mm Thickness 2,3 to 25 mm	S235JRH, S275J0H, S275J2H, S355J0H, S355J2H, S355NH, S355NLH
Square	Dimensions 40x40 to 400x400mm Thickness 2,6 to 25 mm	S235JRH, S275J0H, S275J2H, S355J0H, S355J2H, S355NH, S355NLH
Rectangular	Dimensions 50x30 to 500x300 mm Thickness 2,6 to 25 mm	S235JRH, S275J0H, S275J2H, S355J0H, S355J2H, S355NH, S355NLH
Oval	Dimensions 120x60 to 500x250mm Thickness 3,2 to 16 mm	S235JRH, S275J0H, S275J2H, S355J0H, S355J2H, S355NH, S355NLH

2. Name and production address:

ThyssenKrupp Materials Nederland B.V.

Taylorweg 7

5466 AE Veghel (NL)

3. Application

to be used in metal structures or in composite metal and concrete structures.

4. System for assessing and verifying the consistent performance of the product:

System 2+

5. Notify and approved body

CE: KIWA, notified body No. 0620

Assessment and evaluation of factory production control for the system 2+

UKCA: CARES, approved body No. 1244

Assessment and evaluation of factory production control for system 2+, by KIWA.

6. Declared achievements:

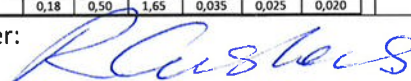
The approved body No.1244 has certified the factory production control according to the 2+system. It continuously monitors, evaluates and confirm the factory production control and has issued the certificate of the factory production control,

The product performance as defined in point 1 corresponds to the performance as declared in point 6. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011 (CE) and in accordance with regulation (EU) No 302/2011, (retained EU law EUR 305/2011) as amended by the Construction Products (amendment etc.)(EU Exit) Regulations 2019 and the Construction Products (amendment etc.)(EU Exit) Regulations 2020, under the sole responsibility of the manufacturer mentioned above. In accordance with the Construction Products Regulation.

The Declaration of Performance TKMN001 for EN10025 is located on: <https://www.thyssenkrupp-materials.nl/nl/kwaliteit-en-milieu/kwaliteit-en-veiligheid/>

Main features	Performance	Designated technical specification																																																																										
Dimension- and shape tolerances	According to EN10210-1: 2006 and EN10210-2:2019, chapter 6	EN10210-1:2006 & EN10210-2:2019																																																																										
Breaking strain (%)	<table><tr><th>Type and Value</th><th>Minimum extension (A) ≤ 40 mm</th></tr><tr><td>S235JRH</td><td>26%</td></tr><tr><td>S275JOH</td><td>23%</td></tr><tr><td>S275J2H</td><td>23%</td></tr><tr><td>S355JOH</td><td>22%</td></tr><tr><td>S355J2H</td><td>22%</td></tr><tr><td>S355NH</td><td>24%</td></tr><tr><td>S355NLH</td><td>22%</td></tr></table>		Type and Value	Minimum extension (A) ≤ 40 mm	S235JRH	26%	S275JOH	23%	S275J2H	23%	S355JOH	22%	S355J2H	22%	S355NH	24%	S355NLH	22%																																																										
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Tensile strength (MPa)	<table><tr><th>Type and Value</th><th>Thickness ≥ 16 mm</th><th>Thickness < 3 mm</th><th>Thickness > 3 and ≥ 100 mm</th></tr><tr><td>S235JRH</td><td>-</td><td>360-510</td><td>360-510</td></tr><tr><td>S275JOH</td><td>-</td><td>430-580</td><td>410-560</td></tr><tr><td>S275J2H</td><td>-</td><td>430-580</td><td>410-560</td></tr><tr><td>S355JOH</td><td>-</td><td>510-680</td><td>470-630</td></tr><tr><td>S355J2H</td><td>-</td><td>510-680</td><td>470-630</td></tr><tr><td>S355NH</td><td>470-630</td><td>-</td><td>-</td></tr><tr><td>S355NLH</td><td>470-630</td><td>-</td><td>-</td></tr></table>	Type and Value	Thickness ≥ 16 mm	Thickness < 3 mm	Thickness > 3 and ≥ 100 mm	S235JRH	-	360-510	360-510	S275JOH	-	430-580	410-560	S275J2H	-	430-580	410-560	S355JOH	-	510-680	470-630	S355J2H	-	510-680	470-630	S355NH	470-630	-	-	S355NLH	470-630	-	-																																											
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Minimum yield strength (MPa)	<table><tr><th>Type and Value</th><th>Thickness ≤ 16 mm</th></tr><tr><td>S235JRH</td><td>235</td></tr><tr><td>S275JOH</td><td>275</td></tr><tr><td>S275J2H</td><td>275</td></tr><tr><td>S355JOH</td><td>355</td></tr><tr><td>S355J2H</td><td>355</td></tr><tr><td>S355NH</td><td>355</td></tr><tr><td>S355NLH</td><td>355</td></tr></table>	Type and Value	Thickness ≤ 16 mm	S235JRH	235	S275JOH	275	S275J2H	275	S355JOH	355	S355J2H	355	S355NH	355	S355NLH	355																																																											
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Impact resistance (J)	<table><tr><th rowspan="2">Type and Value</th><th colspan="4">Test temperature</th></tr><tr><th>-50°C</th><th>-20°C</th><th>0°C</th><th>20°C</th></tr><tr><td>S235JRH</td><td>-</td><td>-</td><td>-</td><td>27</td></tr><tr><td>S275JOH</td><td>-</td><td>-</td><td>27</td><td>-</td></tr><tr><td>S275J2H</td><td>-</td><td>27</td><td>-</td><td>-</td></tr><tr><td>S355JOH</td><td>-</td><td>-</td><td>27</td><td>-</td></tr><tr><td>S355J2H</td><td>-</td><td>27</td><td>-</td><td>-</td></tr><tr><td>S355NH</td><td>-</td><td>27</td><td>-</td><td>-</td></tr><tr><td>S355NLH</td><td>40</td><td>-</td><td>-</td><td>-</td></tr></table>	Type and Value	Test temperature				-50°C	-20°C	0°C	20°C	S235JRH	-	-	-	27	S275JOH	-	-	27	-	S275J2H	-	27	-	-	S355JOH	-	-	27	-	S355J2H	-	27	-	-	S355NH	-	27	-	-	S355NLH	40	-	-	-																															
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Weldability	<table><tr><th>Type and Value</th><th>CEV % Max.</th></tr><tr><td></td><td>Normal thickness (mm) >16 ≤40</td></tr><tr><td>S235JR</td><td>0,39</td></tr><tr><td>S275JO/J2</td><td>0,43</td></tr><tr><td>S355JR/JO/J2</td><td>0,47</td></tr><tr><td>S355NH</td><td>0.45</td></tr><tr><td>S355NLH</td><td>0.45</td></tr></table>	Type and Value	CEV % Max.		Normal thickness (mm) >16 ≤40	S235JR	0,39	S275JO/J2	0,43	S355JR/JO/J2	0,47	S355NH	0.45	S355NLH	0.45																																																													
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Signed for and on behalf of the manufacturer:



R.C.M. Custers; QHSE Manager: Veghel, 24-10-2022