

Declaration of Performance

DoP-nr: **GeuJa-Venlo – EN 10210-1 – 001**

1. Product name - types - grades:

Hot formed hollow sections, **N 10210-1:2006**,
Types S235/S275/S355,
Grades JRH/J0H/J2H/K2H

2. Name and address supplier:

B.A. Geurts-Janssen BV
Tjalkkade 9
5928 PZ Venlo
The Netherlands

3. Intended use:

To be used in welded, bolted and riveted structures

4. System of assessment and verification of constancy of performance of the product: System 2+

5. Notified Body:

KIWA Nederland BV (NoBo-nr: 0620) has based on:

- The initial inspection of the factory production control
- Continuous surveillance, assessment and evaluation of factory production control

The certificate of conformity of the factory production control has been issued under unique number: 86980

Signed for and on behalf of B.A. Geurts-Janssen BV:

6. Declared Performances

Essential characteristics	Performance	Harmonised technical specifications EN 10210:2006-1																																		
Dimensional and shape tolerances	<table><tr><td>EN 10210-2</td><td>Hot formed hollow sections</td></tr></table>	EN 10210-2	Hot formed hollow sections	Art. 6.10.1																																
EN 10210-2	Hot formed hollow sections																																			
Elongation (%)	<table><tr><th rowspan="2">Type & Grade</th><th colspan="4">Nominal thickness (mm)</th></tr><tr><th>≤40</th><th>>40≤63</th><th>>63≤100</th><th>>100≤120</th></tr><tr><td>S235JRH</td><td>26</td><td>25</td><td>24</td><td>22</td></tr><tr><td>S275J0H/J2H</td><td>23</td><td>22</td><td>21</td><td>19</td></tr><tr><td>S355J0H/J2H/K2H</td><td>22</td><td>21</td><td>20</td><td>18</td></tr></table>	Type & Grade	Nominal thickness (mm)				≤40	>40≤63	>63≤100	>100≤120	S235JRH	26	25	24	22	S275J0H/J2H	23	22	21	19	S355J0H/J2H/K2H	22	21	20	18	Art. 6.6.1, Chart A.3 + B.3										
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Tensile strength (MPa)	<table><tr><th rowspan="2">Type & Grade</th><th colspan="3">Nominal thickness (mm)</th></tr><tr><th>≤3</th><th>>3≤100</th><th>>100≤120</th></tr><tr><td>S235JRH</td><td>360 to 510</td><td>360 to 510</td><td>350 to 500</td></tr><tr><td>S275J0H/J2H</td><td>430 to 580</td><td>410 to 560</td><td>400 to 540</td></tr><tr><td>S355J0H/J2H/K2H</td><td>510 to 680</td><td>470 to 630</td><td>450 to 600</td></tr></table>	Type & Grade	Nominal thickness (mm)			≤3	>3≤100	>100≤120	S235JRH	360 to 510	360 to 510	350 to 500	S275J0H/J2H	430 to 580	410 to 560	400 to 540	S355J0H/J2H/K2H	510 to 680	470 to 630	450 to 600	Art. 6.6.1, Chart A.3 + B.3															
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Yield strength (MPa)	<table><tr><th rowspan="2">Type & Grade</th><th colspan="6">Nominal thickness (mm)</th></tr><tr><th>≤16</th><th>>16≤40</th><th>>40≤63</th><th>>63≤80</th><th>>80≤100</th><th>>100≤120</th></tr><tr><td>S235JRH</td><td>235</td><td>225</td><td>215</td><td>215</td><td>215</td><td>195</td></tr><tr><td>S275J0H/J2H</td><td>275</td><td>265</td><td>255</td><td>245</td><td>235</td><td>225</td></tr><tr><td>S355J0H/J2H/K2H</td><td>355</td><td>345</td><td>335</td><td>325</td><td>315</td><td>295</td></tr></table>	Type & Grade	Nominal thickness (mm)						≤16	>16≤40	>40≤63	>63≤80	>80≤100	>100≤120	S235JRH	235	225	215	215	215	195	S275J0H/J2H	275	265	255	245	235	225	S355J0H/J2H/K2H	355	345	335	325	315	295	Art. 6.6.1, Chart A.3 + B.3
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Impact strength (J)	<table><tr><th rowspan="3">Type & Grade</th><th colspan="3">Nominal thickness (mm)</th></tr><tr><th colspan="3">≤120</th></tr><tr><th>-20 °C</th><th>0 °C</th><th>20 °C</th></tr><tr><td>S235JRH</td><td>-</td><td>-</td><td>27</td></tr><tr><td>S275J0H</td><td>-</td><td>27</td><td>-</td></tr><tr><td>S275J2H</td><td>27</td><td>-</td><td>-</td></tr><tr><td>S355J0H</td><td>-</td><td>27</td><td>-</td></tr><tr><td>S355J2H</td><td>27</td><td>-</td><td>-</td></tr><tr><td>S355K2H</td><td>40</td><td>-</td><td>-</td></tr></table>	Type & Grade	Nominal thickness (mm)			≤120			-20 °C	0 °C	20 °C	S235JRH	-	-	27	S275J0H	-	27	-	S275J2H	27	-	-	S355J0H	-	27	-	S355J2H	27	-	-	S355K2H	40	-	-	Art. 6.6.2, Chart A.3 + B.3
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S235JRH	-	-	27																																	
S275J0H	-	27	-																																	
S275J2H	27	-	-																																	
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S355K2H	40	-	-																																	
Weldability (chemical composition)	<table><tr><th rowspan="3">Type & Grade</th><th colspan="4">CEV% Max</th></tr><tr><th colspan="4">Nominal thickness (mm)</th></tr><tr><th>≤16</th><th>>16≤40</th><th>>40≤65</th><th>>65≤120</th></tr><tr><td>S235JRH</td><td>0.37</td><td>0.39</td><td>0.41</td><td>0.44</td></tr><tr><td>S275J0H/J2H</td><td>0.41</td><td>0.43</td><td>0.45</td><td>0.48</td></tr><tr><td>S355J0H/J2H/K2H</td><td>0.45</td><td>0.47</td><td>0.50</td><td>0.53</td></tr></table>	Type & Grade	CEV% Max				Nominal thickness (mm)				≤16	>16≤40	>40≤65	>65≤120	S235JRH	0.37	0.39	0.41	0.44	S275J0H/J2H	0.41	0.43	0.45	0.48	S355J0H/J2H/K2H	0.45	0.47	0.50	0.53	Art. 6.5, Chart A.2 + B.2 en Art. 6.7.1						
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Durability	NPD	Art. 6.7.2																																		