

DECLARATION OF PERFORMANCE

No. 26/2021

1. Unique identification code of the product-type:

Gränges_Konin_5449A

2. Intended use or uses:

Intended for internal and external loaded construction elements of buildings

3. Manufacturer:

Gränges Konin S.A., Bolesława Prusa 2 Street, 00-493 Warsaw, Poland
Correspondence address: Hutnicza 1 Street, 62-510 Konin, Poland

4. System or systems of assessment and verification of constancy of performance:

System 2+

5. Harmonised standard:

EN 15088: 2005

Notified body/ies:

Research and Certification Department „ZETOM” prof. F. Stauba in Katowice sp. z o.o.,
Notified Body number 1436

6. Declared performance: Sheet, plate and strip aluminum alloy EN AW-5449A cold rolled

Essential characteristics	Performance	Harmonised technical specification																																																																																																				
Dimensional tolerances IDT EN 485-4	Thickness tolerances <table border="1"> <thead> <tr> <th colspan="2" rowspan="2">Specified thickness [mm]</th> <th colspan="4">Thickness tolerances [mm]</th> </tr> <tr> <th>Up to and including 1000mm</th> <th>Over 1000mm up to and including 1250mm</th> <th>Over 1250mm up to and including 1600mm</th> <th>Over 1600mm up to and including 2000mm</th> </tr> <tr> <th>Over</th> <th>Up to and including</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>mm</th> </tr> </thead> <tbody> <tr><td>0,20</td><td>0,4</td><td>±0,02</td><td>±0,04</td><td>±0,05</td><td>-</td></tr> <tr><td>0,4</td><td>0,5</td><td>±0,03</td><td>±0,04</td><td>±0,05</td><td>±0,06</td></tr> <tr><td>0,5</td><td>0,6</td><td>±0,03</td><td>±0,05</td><td>±0,06</td><td>±0,07</td></tr> <tr><td>0,6</td><td>0,8</td><td>±0,03</td><td>±0,06</td><td>±0,07</td><td>±0,08</td></tr> <tr><td>0,8</td><td>1,0</td><td>±0,04</td><td>±0,06</td><td>±0,08</td><td>±0,09</td></tr> <tr><td>1,0</td><td>1,2</td><td>±0,04</td><td>±0,07</td><td>±0,09</td><td>±0,10</td></tr> <tr><td>1,2</td><td>1,5</td><td>±0,05</td><td>±0,09</td><td>±0,10</td><td>±0,11</td></tr> <tr><td>1,5</td><td>1,8</td><td>±0,06</td><td>±0,10</td><td>±0,11</td><td>±0,12</td></tr> <tr><td>1,8</td><td>2</td><td>±0,06</td><td>±0,11</td><td>±0,12</td><td>±0,14</td></tr> <tr><td>2</td><td>2,5</td><td>±0,07</td><td>±0,12</td><td>±0,13</td><td>±0,15</td></tr> <tr><td>2,5</td><td>3,0</td><td>±0,08</td><td>±0,13</td><td>±0,15</td><td>±0,17</td></tr> <tr><td>3,0</td><td>3,5</td><td>±0,10</td><td>±0,15</td><td>±0,17</td><td>±0,18</td></tr> <tr><td>3,5</td><td>4,0</td><td>±0,15</td><td>±0,20</td><td>±0,22</td><td>±0,23</td></tr> <tr><td>4,0</td><td>5,0</td><td>±0,18</td><td>±0,22</td><td>±0,24</td><td>±0,25</td></tr> </tbody> </table> <p>When measuring the thickness, a zone 10mm wide from the edges of the product shall be disregarded.</p>	Specified thickness [mm]		Thickness tolerances [mm]				Up to and including 1000mm	Over 1000mm up to and including 1250mm	Over 1250mm up to and including 1600mm	Over 1600mm up to and including 2000mm	Over	Up to and including	mm	mm	mm	mm	0,20	0,4	±0,02	±0,04	±0,05	-	0,4	0,5	±0,03	±0,04	±0,05	±0,06	0,5	0,6	±0,03	±0,05	±0,06	±0,07	0,6	0,8	±0,03	±0,06	±0,07	±0,08	0,8	1,0	±0,04	±0,06	±0,08	±0,09	1,0	1,2	±0,04	±0,07	±0,09	±0,10	1,2	1,5	±0,05	±0,09	±0,10	±0,11	1,5	1,8	±0,06	±0,10	±0,11	±0,12	1,8	2	±0,06	±0,11	±0,12	±0,14	2	2,5	±0,07	±0,12	±0,13	±0,15	2,5	3,0	±0,08	±0,13	±0,15	±0,17	3,0	3,5	±0,10	±0,15	±0,17	±0,18	3,5	4,0	±0,15	±0,20	±0,22	±0,23	4,0	5,0	±0,18	±0,22	±0,24	±0,25	EN 15088:2005
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Mechanical properties IDT EN 485-2	<table border="1"> <thead> <tr> <th rowspan="2">Temper</th> <th colspan="2">Specified thickness</th> <th colspan="2">Tensile strength R_m</th> <th colspan="2">Yield strength R_{p0,2}</th> <th colspan="2">Elongation A₅₀ mm</th> </tr> <tr> <th colspan="2">[mm]</th> <th colspan="2">[MPa]</th> <th colspan="2">[MPa]</th> <th colspan="2">[%]</th> </tr> <tr> <th></th> <th>Over</th> <th>Up to and including</th> <th>min</th> <th>max</th> <th>min</th> <th>max</th> <th>min</th> <th>max</th> </tr> </thead> <tbody> <tr> <td rowspan="2">O</td> <td>0,5</td> <td>1,5</td> <td>190</td> <td>240</td> <td>80</td> <td></td> <td>14</td> <td></td> </tr> <tr> <td>1,5</td> <td>3,0</td> <td>190</td> <td>240</td> <td>80</td> <td></td> <td>16</td> <td></td> </tr> <tr> <td rowspan="2">H111</td> <td>0,5</td> <td>1,5</td> <td>190</td> <td>240</td> <td>80</td> <td></td> <td>14</td> <td></td> </tr> <tr> <td>1,5</td> <td>3,0</td> <td>190</td> <td>240</td> <td>80</td> <td></td> <td>16</td> <td></td> </tr> <tr> <td rowspan="2">H22</td> <td>0,5</td> <td>1,5</td> <td>220</td> <td>270</td> <td>130</td> <td></td> <td>8</td> <td></td> </tr> <tr> <td>1,5</td> <td>3,0</td> <td>220</td> <td>270</td> <td>130</td> <td></td> <td>10</td> <td></td> </tr> <tr> <td rowspan="2">H24</td> <td>0,5</td> <td>1,5</td> <td>240</td> <td>280</td> <td>160</td> <td></td> <td>6</td> <td></td> </tr> <tr> <td>1,5</td> <td>3,0</td> <td>240</td> <td>280</td> <td>160</td> <td></td> <td>7</td> <td></td> </tr> <tr> <td rowspan="2">H26</td> <td>0,5</td> <td>1,5</td> <td>265</td> <td>305</td> <td>190</td> <td></td> <td>4</td> <td></td> </tr> <tr> <td>1,5</td> <td>3,0</td> <td>265</td> <td>305</td> <td>190</td> <td></td> <td>5</td> <td></td> </tr> <tr> <td rowspan="2">H28</td> <td>0,5</td> <td>1,5</td> <td>290</td> <td></td> <td>230</td> <td></td> <td>3</td> <td></td> </tr> <tr> <td>1,5</td> <td>3,0</td> <td>290</td> <td></td> <td>230</td> <td></td> <td>4</td> <td></td> </tr> </tbody> </table>	Temper	Specified thickness		Tensile strength R _m		Yield strength R _{p0,2}		Elongation A ₅₀ mm		[mm]		[MPa]		[MPa]		[%]			Over	Up to and including	min	max	min	max	min	max	O	0,5	1,5	190	240	80		14		1,5	3,0	190	240	80		16		H111	0,5	1,5	190	240	80		14		1,5	3,0	190	240	80		16		H22	0,5	1,5	220	270	130		8		1,5	3,0	220	270	130		10		H24	0,5	1,5	240	280	160		6		1,5	3,0	240	280	160		7		H26	0,5	1,5	265	305	190		4		1,5	3,0	265	305	190		5		H28	0,5	1,5	290		230		3		1,5	3,0	290		230		4		
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Essential characteristics	Performance	Harmonised technical specification
Weldability IDT EN 1999-1-1	NPD	EN 15088:2005
Bendability	NPD	
Fatigue strength	NPD	
Dangerous substances IDT EN 573-3	NO	
Durability rating IDT EN 1999-1-1	NPD	

The performance of the product identified above is in conformity with the declared performance/s.
This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011,
under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Paweł Rutecki
Director of Development and Investment

Konin, 13 April 2021

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Director of Development & Investment

Paweł Rutecki