

**DECLARATION OF PERFORMANCE**

No. 30/2021

1. Unique identification code of the product-type:

**Gränges\_Konin\_6082**

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-6082 cold rolled

Essential characteristics	Performance	Harmonised technical specification																																																																																																				
Dimensional tolerances IDT EN 485-4	Thickness tolerances <table border="1" data-bbox="373 1149 1200 1742"> <thead> <tr> <th colspan="2" data-bbox="373 1149 647 1317" rowspan="2">Specified thickness [mm]</th> <th colspan="4" data-bbox="647 1149 1200 1182">Thickness tolerances [mm]</th> </tr> <tr> <th data-bbox="647 1182 788 1317">Up to and including 1000mm</th> <th data-bbox="788 1182 928 1317">Over 1000mm up to and including 1250mm</th> <th data-bbox="928 1182 1069 1317">Over 1250mm up to and including 1600mm</th> <th data-bbox="1069 1182 1200 1317">Over 1600mm up to and including 2000mm</th> </tr> <tr> <th data-bbox="373 1317 513 1361">Over</th> <th data-bbox="513 1317 647 1361">Up to and including</th> <th data-bbox="647 1317 788 1361">mm</th> <th data-bbox="788 1317 928 1361">mm</th> <th data-bbox="928 1317 1069 1361">mm</th> <th data-bbox="1069 1317 1200 1361">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 data-bbox="416 1722 1157 1742">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 Rm</th> <th colspan="2">Yield strength Rp0,2</th> <th colspan="2">Elongation A50 mm</th> <th colspan="2">Bend radius</th> </tr> <tr> <th colspan="2">[mm]</th> <th colspan="2">[MPa]</th> <th colspan="2">[MPa]</th> <th colspan="2">[%]</th> <th>180°</th> <th>90°</th> </tr> <tr> <td></td> <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> <td></td> <td></td> </tr> </thead> <tbody> <tr> <td>O</td> <td>≥0,4 1,5</td> <td>1,5 3,0</td> <td></td> <td>150 150</td> <td></td> <td>85 85</td> <td>14 16</td> <td></td> <td>1,0t 1,0t</td> <td>0,5t 1,0t</td> </tr> </tbody> </table>	Temper	Specified thickness		Tensile strength Rm		Yield strength Rp0,2		Elongation A50 mm		Bend radius		[mm]		[MPa]		[MPa]		[%]		180°	90°		Over	Up to and including	min	max	min	max	min	max			O	≥0,4 1,5	1,5 3,0		150 150		85 85	14 16		1,0t 1,0t	0,5t 1,0t																																																																	
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Weldability IDT EN 1999-1-1	Class I	EN 15088:2005
Bendability	NPD	
Fatigue strength	NPD	
Dangerous substances IDT EN 573-3	NO	
Durability rating IDT EN 1999-1-1	Class B	

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

Director of Development & Investment

  
Paweł Rutecki