

**DECLARATION OF PERFORMANCE**

No. 11/2021

1. Unique identification code of the product-type:

**Gränges\_Konin\_3105**

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. Harmonized 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-3105 cold rolled

Essential characteristics	Performance	Harmonized technical specification																																																																																																				
Dimensional tolerances IDT EN 485-4	Thickness tolerances <table border="1" data-bbox="379 1160 1206 1756"> <thead> <tr> <th colspan="2" data-bbox="379 1160 651 1323" rowspan="2">Specified thickness [mm]</th> <th colspan="4" data-bbox="651 1160 1206 1196">Thickness tolerances [mm]</th> </tr> <tr> <th data-bbox="651 1196 778 1323">Up to and including 1000mm</th> <th data-bbox="778 1196 906 1323">Over 1000mm up to and including 1250mm</th> <th data-bbox="906 1196 1034 1323">Over 1250mm up to and including 1600mm</th> <th data-bbox="1034 1196 1206 1323">Over 1600mm up to and including 2000mm</th> </tr> <tr> <th data-bbox="379 1323 517 1373">Over</th> <th data-bbox="517 1323 651 1373">Up to and including</th> <th data-bbox="651 1323 778 1373">mm</th> <th data-bbox="778 1323 906 1373">mm</th> <th data-bbox="906 1323 1034 1373">mm</th> <th data-bbox="1034 1323 1206 1373">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="379 1733 1206 1756">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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Essential characteristics	Performance										Harmonized technical specification	
Dimensional tolerances IDT EN 485-4	Width tolerances for sheet and plate										EN 15088:2005	
	Specified thickness [mm]		Width tolerance for specified width [mm]									
	Over	Up to and including	Up to and including 500mm	Over 500mm up to and including 1250mm	Over 1250mm up to and including 2000mm							
	0,20	3,0	+1,5 0	+3 0	+4 0							
3,0	6,0	+3 0	+4 0	+5 0								
6,0	20	+4 0	+5 0	+5 0								
Mechanical properties IDT EN 485-2	Length tolerances for sheet and plate											
	Specified thickness [mm]		Length tolerance for specified length [mm]									
	Over	Up to and including	Up to and including 1000mm	Over 1000mm up to and including 2000mm	Over 2000mm up to and including 3000mm	Over 3000mm up to and including 4000mm	Over 5000mm					
	0,20	3,0	+3 0	+4 0	+6 0	+8 0	+10 0	+0,2% of specified length				
3,0	6,0	+4 0	+6 0	+8 0	+10 0	+10 0						
6,0	20	+6 0	+8 0	+10 0	+10 0	+10 0						
	Width tolerances for strip											
Specified thickness [mm]		Width tolerance for specified width [mm]										
Over	Up to and including	Up to and including 100mm	Over 100mm up to and including 300mm	Over 300mm up to and including 500mm	Over 500mm up to and including 1250mm	Over 1250mm up to and including 1650mm						
0,20	0,6	+0,3 0	+0,4 0	+0,6 0	+1,5 0	+2,5 0						
0,6	1,0	+0,3 0	+0,5 0	+1 0	+1,5 0	+2,5 0						
1,0	2,0	+0,4 0	+0,7 0	+1,2 0	+2 0	+2,5 0						
2,0	3,0	+1 0	+1 0	+1,5 0	+2 0	+2,5 0						
3,0	5,0	-	+1,5 0	+2 0	+3 0	+3 0						

Essential characteristics	Performance										Harmonized technical specification		
<b>Mechanical properties</b> IDT EN 485-2	Temper	Specified thickness		Tensile strength R <sub>m</sub>		Yield strength R <sub>p0,2</sub>		Elongation A50 mm		Bend radius		EN 15088:2005	
		[mm]		[MPa]		[MPa]		[%]					
	Over	Up to and including	min	max	min	max	min	max	180°	90°			
	H14	0,2 0,5 1,5	0,5 1,5 3,0	150 150 150	200 200 200	130 130 130		2 2 2		2,5t 2,5t 2,5t			
	H16	0,2 0,5 1,5	0,5 1,5 3,0	175 175 175	225 225 225	160 160 160		1 2 2					
	H18	0,2 0,5 1,5	0,5 1,5 3,0	195 195 195		180 180 180		1 1 1					
	H19	0,2 0,5	0,5 1,5	215 215		190 190		1 1					
	H22	0,2 0,5 1,5	0,5 1,5 3,0	130 130 130	180 180 180	105 105 105		6 6 7					
	H24	0,2 0,5 1,5	0,5 1,5 3,0	150 150 150	200 200 200	120 120 120		4 4 5		2,5 t 2,5 t 2,5 t			
	H26	0,2 0,5 1,5	0,5 1,5 3,0	175 175 175	225 225 225	150 150 150		3 3 3					
H28	0,2 0,5	0,5 1,5	195 195		170 170		2 2						
<b>Weldability</b> IDT EN 1999-1-1	Class I												
<b>Bendability</b>	Alloy	Temper											
O H111		H12 H22	H14 H24	H16 H26	H18 H28								
EN AW-3105	-	-	-	-	B3								

Essential characteristics	Performance	Harmonized technical specification
Fatigue strength	NPD	EN 15088:2005
Dangerous substances IDT EN 573-3	NO	
Durability rating IDT EN 1999-1-1	Class A	

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