

DECLARATION OF PERFORMANCE

No. 8/2021

1. Unique identification code of the product-type:

Gränges_Konin_3005

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-3005 cold rolled

Essential characteristics	Performance	Harmonized technical specification																																																																																																				
Dimensional tolerances IDT EN 485-4	Thickness tolerances <table border="1" data-bbox="373 1167 1200 1760"> <thead> <tr> <th colspan="2" data-bbox="373 1167 651 1328" rowspan="2">Specified thickness [mm]</th> <th colspan="4" data-bbox="651 1167 1200 1200">Thickness tolerances [mm]</th> </tr> <tr> <th data-bbox="651 1200 783 1328">Up to and including 1000mm</th> <th data-bbox="783 1200 916 1328">Over 1000mm up to and including 1250mm</th> <th data-bbox="916 1200 1048 1328">Over 1250mm up to and including 1600mm</th> <th data-bbox="1048 1200 1200 1328">Over 1600mm up to and including 2000mm</th> </tr> <tr> <th data-bbox="373 1328 512 1375">over</th> <th data-bbox="512 1328 651 1375">Up to and including</th> <th data-bbox="651 1328 783 1375">mm</th> <th data-bbox="783 1328 916 1375">mm</th> <th data-bbox="916 1328 1048 1375">mm</th> <th data-bbox="1048 1328 1200 1375">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 1742 1157 1760">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		
Mechanical properties IDT EN 485-2	Temper	Specified thickness		Tensile strength Rm		Yield strength Rp0,2		Elongation A50 mm		Bend radius		EN 15088:2005	
		[mm]		[MPa]		[MPa]		[%]		180°	90°		
	Over	Up to and including	min	max	min	max	min	max	min	max	180°		90°
	H14	0,2 0,5 1,5 3,0	0,5 1,5 3,0 6,0	170 170 170 170	215 215 215 215	150 150 150 150			1 2 2 3		2,5t 2,5t		0,5t 1,0t 1,5t 2,0t
	H16	0,2 0,5 1,5	0,5 1,5 4,0	195 195 195	240 240 240	175 175 175			1 2 2				1,0t 1,5t 2,5t
	H18	0,2 0,5 1,5	0,5 1,5 3,0	220 220 220		200 200 200			1 2 2				1,5t 2,5t
	H19	0,2 0,5	0,5 1,5	235 235		210 210			1 1				
	H22	0,2 0,5 1,5 3,0	0,5 1,5 3,0 6,0	145 145 145 145	195 195 195 195	110 110 110 110			5 5 6 7		1,0t 1,0t 1,5t		0t 0,5t 1,0t 1,5t
	H24	0,2 0,5 1,5	0,5 1,5 3,0	170 170 170	215 215 215	130 130 130			4 4 4		1,5 t 1,5 t		0,5t 1,0t 1,5t
	H26	0,2 0,5 1,5	0,5 1,5 3,0	195 195 195	240 240 240	160 160 160			3 3 3				1,0t 1,5t 2,5t
	H28	0,2 0,5 1,5	0,5 1,5 3,0	220 220 220		190 190 190			2 2 3				1,5t 2,5t
	Weldability IDT EN 1999-1-1	Class I											
	Bendability	Temper											
Alloy		O H111	H12 H22	H14 H24	H16 H26	H18 H28							
EN AW-3005		-	-	B2	B2	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



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Paweł Rutecki