

DECLARATION OF PERFORMANCE

No. 9/2021

1. Unique identification code of the product-type:

Gränges_Konin_3103

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-3103 cold rolled

Essential characteristics	Performance	Harmonized technical specification																																																																																																				
Dimensional tolerances IDT EN 485-4	Thickness tolerances <table border="1" data-bbox="373 1149 1200 1738"> <thead> <tr> <th colspan="2" data-bbox="373 1149 647 1308" 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 783 1308">Up to and including 1000mm</th> <th data-bbox="783 1182 919 1308">Over 1000mm up to and including 1250mm</th> <th data-bbox="919 1182 1054 1308">Over 1250mm up to and including 1600mm</th> <th data-bbox="1054 1182 1200 1308">Over 1600mm up to and including 2000mm</th> </tr> <tr> <th data-bbox="373 1308 510 1357">Over</th> <th data-bbox="510 1308 647 1357">Up to and including</th> <th data-bbox="647 1308 783 1357">mm</th> <th data-bbox="783 1308 919 1357">mm</th> <th data-bbox="919 1308 1054 1357">mm</th> <th data-bbox="1054 1308 1200 1357">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 1720 1157 1738">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
Specified thickness [mm]				Thickness tolerances [mm]																																																																																																		
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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 R _m		Yield strength R _{p0,2}		Elongation A50 mm		Bend radius		EN 15088:2005	
		[mm]		[MPa]		[MPa]		[%]					
	Over	Up to and including	min	max	min	max	min	max	180°	90°			
	H12	0,2 0,5 1,5 3,0 6,0 12,5	0,5 1,5 3,0 6,0 12,5 20,0	115 115 115 115 115 115	155 155 155 155 155 155	85 85 85 85 85 85		3 4 5 6 7		1,5t 1,5t 1,5t	0t 0,5t 1,0t 1,0t 2,0t		
	H14	0,2 0,5 1,5 3,0 6,0 12,5	0,5 1,5 3,0 6,0 12,5 20,0	140 140 140 140 140 140	180 180 180 180 180 180	120 120 120 120 120 120		2 2 3 4 5		2,0t 2,0t 2,0t	0,5t 1,0t 1,0t 2,0t 2,5t		
	H16	0,2 0,5 1,5 4,0	0,5 1,5 4,0 8,0	160 160 160 160	200 200 200 200	145 145 145 145		1 2 2 2		2,5t 2,5t 2,5t 2,0t	1,0t 1,5t 2,0t 1,5t		
	H18	0,2 0,5 1,5	0,5 1,5 3,0	185 185 185		165 165 165		1 2 2			1,5t 2,5t 3,0t		
	H19	0,2 0,5 1,5	0,5 1,5 3,0	200 200 200		175 175 175		1 2 2					
	H22	0,2 0,5 1,5 3,0 6,0	0,5 1,5 3,0 6,0 12,5	115 115 115 115 115	155 155 155 155 155	75 75 75 75 75		6 7 8 9 11		1,0t 1,0t 1,0t	0t 0,5t 1,0t 1,0t 2,0t		
	H24	0,2 0,5 1,5 3,0 6,0	0,5 1,5 3,0 6,0 12,5	140 140 140 140 140	180 180 180 180 180	110 110 110 110 110		4 4 5 6 8		1,5t 1,5t 1,5t	0,5t 1,0t 1,0t 2,0t 2,5t		
	H26	0,2 0,5 1,5	0,5 1,5 4,0	160 160 160	200 200 200	135 135 135		2 3 3		2,0 t 2,0 t 2,0 t	1,0t 1,5t 2,0t		
	H28	0,2 0,5 1,5	0,5 1,5 3,0	185 185 185		155 155 155		2 2 3			1,5t 2,5t 3,0t		
	Weldability IDT EN 1999-1-1	Class I											
	Bendability	Alloy	Temper										
	O H111		H12 H22	H14 H24	H16 H26	H18 H28							
EN AW-3103	-	-	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

Konjn, 13 April 2021
Director of Development & Investment


Paweł Rutecki