

**DECLARATION OF PERFORMANCE**

No. 5/2021

1. Unique identification code of the product-type:

**Gränges\_Konin\_3003**

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-3003 cold rolled

Essential characteristics	Performance	Harmonized technical specification																																																																																																	
Dimensional tolerances IDT EN 485-4	Thickness tolerances	EN 15088:2005																																																																																																	
			Thickness tolerances [mm]																																																																																																
			<table border="1"> <thead> <tr> <th colspan="2">Specified thickness [mm]</th> <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>	Specified thickness [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
	Specified thickness [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																																																																																														
	When measuring the thickness, a zone 10mm wide from the edges of the product shall be disregarded.																																																																																																		

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							
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	+0,2% of specified length					
3,0	6,0	+4 0	+6 0	+8 0	+10 0						
6,0	20	+6 0	+8 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					
Mechanical properties IDT EN 485-2	Temper	Specified thickness		Tensile strength R <sub>m</sub>		Yield strength R <sub>p0,2</sub>		Elongation A <sub>50</sub> mm		Bend radius	
		[mm]		[MPa]		[MPa]		[%]		180°	90°
		Over	Up to and including	min	max	min	max	min	max		
	O	0,2	0,5	95	135	35		15		0t	0t
		0,5	1,5	95	135	35		17		0t	0t
		1,5	3,0	95	135	35		20		0t	0t
		3,0	6,0	95	135	35		23		1,0t	1,0t
		6,0	12,5	95	135	35		24		1,0t	1,5t
		12,5	20,0	95	135	35		23			
	H111	0,2	0,5	95	135	35		15		0t	0t
		0,5	1,5	95	135	35		17		0t	0t
	1,5	3,0	95	135	35		20		0t	0t	
	3,0	6,0	95	135	35		23		1,0t	1,0t	
	6,0	12,5	95	135	35		24		1,0t	1,5t	
	12,5	20,0	95	135	35		23				

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]		[%]		180°	90°			
	Over	Up to and including	min	max	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	120 120 120 120 120 120	160 160 160 160 160 160	90 90 90 90 90 90			3 4 5 6 7		8		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 25,0	145 145 145 145 145 145	185 185 185 185 185 185	125 125 125 125 125 125		2 2 3 4 5		5			2,0t 2,0t 2,0t	0,5t 1,0t 1,0t 2,0t 2,5t
	H16	0,2 0,5 1,5	0,5 1,5 4,0	170 170 170	210 210 210	150 150 150		1 2 2					2,5t 2,5t 2,5t	1,0t 1,5t 2,0t
	H18	0,2 0,5 1,5	0,5 1,5 3,0	190 190 190		170 170 170		1 2 2						1,5t 2,5t 3,0t
	H19	0,2 0,5 1,5	0,5 1,5 3,0	210 210 210		180 180 180		1 2 2						
	H22	0,2 0,5 1,5 3,0 6,0	0,5 1,5 3,0 6,0 12,5	120 120 120 120 120	160 160 160 160 160	80 80 80 80 80		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	145 145 145 145 145	185 185 185 185 185	115 115 115 115 110		4 4 5 6 8					1,5 t 1,5 t 1,5 t	0,5t 1,0t 1,0t 2,0t 2,5t
	H26	0,2 0,5 1,5	0,5 1,5 4,0	170 170 170	210 210 210	140 140 140		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	190 190 190		160 160 160		2 2 3						1,5t 2,5t 3,0t
	<b>Weldability</b> IDT EN 1999-1-1	Class I												
<b>Bendability</b>	Alloy		Temper											
EN AW-3003			O H111	H12 H22	H14 H24	H16 H26	H18 H28	B3						
	-	-	-	-										

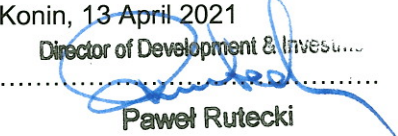


Essential characteristics	Performance	Harmonized technical specification
Fatigue strength	NPD	EN 15088:2005
Dangerous substances IDT EN 573-3	NO	
Durability rating IDT EN 1999-1-1	Class A	

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**