

DECLARATION OF PERFORMANCE

No. 19/2021

1. Unique identification code of the product-type:

Gränges_Konin_5083

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-5083 cold rolled

Essential characteristics	Performance	Harmonized technical specification																																																																																																				
Dimensional tolerances IDT EN 485-4	Thickness tolerances <table border="1" data-bbox="379 1167 1206 1760"> <thead> <tr> <th colspan="2" data-bbox="379 1167 651 1323" rowspan="2">Specified thickness [mm]</th> <th colspan="4" data-bbox="651 1167 1206 1200">Thickness tolerances [mm]</th> </tr> <tr> <th data-bbox="651 1200 778 1323">Up to and including 1000mm</th> <th data-bbox="778 1200 906 1323">Over 1000mm up to and including 1250mm</th> <th data-bbox="906 1200 1034 1323">Over 1250mm up to and including 1600mm</th> <th data-bbox="1034 1200 1206 1323">Over 1600mm up to and including 2000mm</th> </tr> <tr> <th data-bbox="379 1323 507 1368">Over</th> <th data-bbox="507 1323 651 1368">Up to and including</th> <th data-bbox="651 1323 778 1368">mm</th> <th data-bbox="778 1323 906 1368">mm</th> <th data-bbox="906 1323 1034 1368">mm</th> <th data-bbox="1034 1323 1206 1368">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 1738 1206 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							
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		Yield strength		Elongation		Bend radius	
		[mm]		R _m		R _{p0,2}		A ₅₀ mm			
		Over	Up to and including	min	max	min	max	min	max	180°	90°
	O	0,2	0,5	275	350	125		11		1,0t	0,5t
		0,5	1,5	275	350	125		12		1,0t	1,0t
		1,5	3,0	275	350	125		13		1,5t	1,0t
		3,0	6,3	275	350	125		15			1,5t
		6,3	12,5	270	345	115		16			2,5t
		12,5	20,0	270	345	115		15			
	H111	0,2	0,5	275	350	125		11		1,0t	0,5t
		0,5	1,5	275	350	125		12		1,0t	1,0t
		1,5	3,0	275	350	125		13		1,5t	1,0t
		3,0	6,3	275	350	125		15			1,5t
	6,3	12,5	270	345	115		16			2,5t	
	12,5	20,0	270	345	115		15				
H12	0,2	0,5	315	375	250		3				
	0,5	1,5	315	375	250		4				
	1,5	3,0	315	375	250		5				
	3,0	6,0	315	375	250		6				
	6,0	12,5	315	375	250		7				
	12,5	20,0	315	375	250		6				

Essential characteristics	Performance										Harmonized technical specification	
Mechanical properties IDT EN 485-2	Temper	Specified thickness [mm]		Tensile strength R _m [MPa]		Yield strength R _{p0,2} [MPa]		Elongation A50 mm [%]		Bend radius		EN 15088:2005
		Over	Up to and including	min	max	min	max	min	max	180°	90°	
	H14	0,2	0,5	340	400	280		2				
		0,5	1,5	340	400	280		3				
		1,5	3,0	340	400	280		3				
		3,0	6,0	340	400	280		3				
		6,0	12,5	340	400	280		4				
		12,5	20,0	340	400	280			3			
	H16	0,2	0,5	360	420	300		1				
		0,5	1,5	360	420	300		2				
		1,5	3,0	360	420	300		2				
		3,0	4,0	360	420	300		2				
	H22	0,2	0,5	305	380	215		5				
	0,5	1,5	305	380	215		6					
	1,5	3,0	305	380	215		7					
	3,0	6,0	305	380	215		8					
	6,0	12,5	305	380	215		10					
	12,5	20,0	305	380	215			9				
H32	0,2	0,5	305	380	215		5					
	0,5	1,5	305	380	215		6					
	1,5	3,0	305	380	215		7					
	3,0	6,0	305	380	215		8					
	6,0	12,5	305	380	215		10					
	12,5	20,0	305	380	215			9				
H24	0,2	0,5	340	400	250		4					
	0,5	1,5	340	400	250		5					
	1,5	3,0	340	400	250		6					
	3,0	6,0	340	400	250		7					
	6,0	12,5	340	400	250		8					
	12,5	25,0	340	400	250			7				
H34	0,2	0,5	340	400	250		4					
	0,5	1,5	340	400	250		5					
	1,5	3,0	340	400	250		6					
	3,0	6,0	340	400	250		7					
	6,0	12,5	340	400	250		8					
	12,5	25,0	340	400	250			7				
H26	0,2	0,5	360	420	280		2					
	0,5	1,5	360	420	280		3					
	1,5	3,0	360	420	280		3					
	3,0	4,0	360	420	280		3					
H36	0,2	0,5	360	420	280		2					
	0,5	1,5	360	420	280		3					
	1,5	3,0	360	420	280		3					
	3,0	4,0	360	420								

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