

DECLARATION OF PERFORMANCE

No. 3/2021

1. Unique identification code of the product-type:

Gränges_Konin_1100

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. Harmonised 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-1100 cold rolled

Essential characteristics	Performance	Harmonised technical specification																																																																																																				
Dimensional tolerances IDT EN 485-4	Thickness tolerances <table border="1" data-bbox="379 1144 1203 1733"> <thead> <tr> <th colspan="2" data-bbox="379 1144 651 1301" rowspan="2">Specified thickness [mm]</th> <th colspan="4" data-bbox="651 1144 1203 1178">Thickness tolerances [mm]</th> </tr> <tr> <th data-bbox="651 1178 794 1301">Up to and including 1000mm</th> <th data-bbox="794 1178 938 1301">Over 1000mm up to and including 1250mm</th> <th data-bbox="938 1178 1082 1301">Over 1250mm up to and including 1600mm</th> <th data-bbox="1082 1178 1203 1301">Over 1600mm up to and including 2000mm</th> </tr> <tr> <th data-bbox="379 1301 523 1350">Over</th> <th data-bbox="523 1301 651 1350">Up to and including</th> <th data-bbox="651 1301 794 1350">mm</th> <th data-bbox="794 1301 938 1350">mm</th> <th data-bbox="938 1301 1082 1350">mm</th> <th data-bbox="1082 1301 1203 1350">mm</th> </tr> </thead> <tbody> <tr><td data-bbox="379 1350 523 1379">0,20</td><td data-bbox="523 1350 651 1379">0,4</td><td data-bbox="651 1350 794 1379">±0,02</td><td data-bbox="794 1350 938 1379">±0,04</td><td data-bbox="938 1350 1082 1379">±0,05</td><td data-bbox="1082 1350 1203 1379">-</td></tr> <tr><td data-bbox="379 1379 523 1408">0,4</td><td data-bbox="523 1379 651 1408">0,5</td><td data-bbox="651 1379 794 1408">±0,03</td><td data-bbox="794 1379 938 1408">±0,04</td><td data-bbox="938 1379 1082 1408">±0,05</td><td data-bbox="1082 1379 1203 1408">±0,06</td></tr> <tr><td data-bbox="379 1408 523 1438">0,5</td><td data-bbox="523 1408 651 1438">0,6</td><td data-bbox="651 1408 794 1438">±0,03</td><td data-bbox="794 1408 938 1438">±0,05</td><td data-bbox="938 1408 1082 1438">±0,06</td><td data-bbox="1082 1408 1203 1438">±0,07</td></tr> <tr><td data-bbox="379 1438 523 1467">0,6</td><td data-bbox="523 1438 651 1467">0,8</td><td data-bbox="651 1438 794 1467">±0,03</td><td data-bbox="794 1438 938 1467">±0,06</td><td data-bbox="938 1438 1082 1467">±0,07</td><td data-bbox="1082 1438 1203 1467">±0,08</td></tr> <tr><td data-bbox="379 1467 523 1496">0,8</td><td data-bbox="523 1467 651 1496">1,0</td><td data-bbox="651 1467 794 1496">±0,04</td><td data-bbox="794 1467 938 1496">±0,06</td><td data-bbox="938 1467 1082 1496">±0,08</td><td data-bbox="1082 1467 1203 1496">±0,09</td></tr> <tr><td data-bbox="379 1496 523 1525">1,0</td><td data-bbox="523 1496 651 1525">1,2</td><td data-bbox="651 1496 794 1525">±0,04</td><td data-bbox="794 1496 938 1525">±0,07</td><td data-bbox="938 1496 1082 1525">±0,09</td><td data-bbox="1082 1496 1203 1525">±0,10</td></tr> <tr><td data-bbox="379 1525 523 1554">1,2</td><td data-bbox="523 1525 651 1554">1,5</td><td data-bbox="651 1525 794 1554">±0,05</td><td data-bbox="794 1525 938 1554">±0,09</td><td data-bbox="938 1525 1082 1554">±0,10</td><td data-bbox="1082 1525 1203 1554">±0,11</td></tr> <tr><td data-bbox="379 1554 523 1583">1,5</td><td data-bbox="523 1554 651 1583">1,8</td><td data-bbox="651 1554 794 1583">±0,06</td><td data-bbox="794 1554 938 1583">±0,10</td><td data-bbox="938 1554 1082 1583">±0,11</td><td data-bbox="1082 1554 1203 1583">±0,12</td></tr> <tr><td data-bbox="379 1583 523 1612">1,8</td><td data-bbox="523 1583 651 1612">2</td><td data-bbox="651 1583 794 1612">±0,06</td><td data-bbox="794 1583 938 1612">±0,11</td><td data-bbox="938 1583 1082 1612">±0,12</td><td data-bbox="1082 1583 1203 1612">±0,14</td></tr> <tr><td data-bbox="379 1612 523 1641">2</td><td data-bbox="523 1612 651 1641">2,5</td><td data-bbox="651 1612 794 1641">±0,07</td><td data-bbox="794 1612 938 1641">±0,12</td><td data-bbox="938 1612 1082 1641">±0,13</td><td data-bbox="1082 1612 1203 1641">±0,15</td></tr> <tr><td data-bbox="379 1641 523 1671">2,5</td><td data-bbox="523 1641 651 1671">3,0</td><td data-bbox="651 1641 794 1671">±0,08</td><td data-bbox="794 1641 938 1671">±0,13</td><td data-bbox="938 1641 1082 1671">±0,15</td><td data-bbox="1082 1641 1203 1671">±0,17</td></tr> <tr><td data-bbox="379 1671 523 1700">3,0</td><td data-bbox="523 1671 651 1700">3,5</td><td data-bbox="651 1671 794 1700">±0,10</td><td data-bbox="794 1671 938 1700">±0,15</td><td data-bbox="938 1671 1082 1700">±0,17</td><td data-bbox="1082 1671 1203 1700">±0,18</td></tr> <tr><td data-bbox="379 1700 523 1729">3,5</td><td data-bbox="523 1700 651 1729">4,0</td><td data-bbox="651 1700 794 1729">±0,15</td><td data-bbox="794 1700 938 1729">±0,20</td><td data-bbox="938 1700 1082 1729">±0,22</td><td data-bbox="1082 1700 1203 1729">±0,23</td></tr> <tr><td data-bbox="379 1729 523 1758">4,0</td><td data-bbox="523 1729 651 1758">5,0</td><td data-bbox="651 1729 794 1758">±0,18</td><td data-bbox="794 1729 938 1758">±0,22</td><td data-bbox="938 1729 1082 1758">±0,24</td><td data-bbox="1082 1729 1203 1758">±0,25</td></tr> </tbody> </table> <p data-bbox="421 1711 1161 1733">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]																																																																																																		
		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																																																																																																	

Essential characteristics	Performance							Harmonised 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 according to ASTM B209-14	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					
Temper	Specified thickness [mm]		Tensile strength R _m [MPa]		Yield strength R _{p0,2} [MPa]		Elongation A _{50 mm} [%]				
	Over	Up to and including	min	max	min	max	min	max			
O	0,2	25	76	107	24		15				
H12/ H22	0,2	25	97	131	76		3				
H14/ H24	0,2	25	110	145	97		1				
H16/ H26	0,2	25	131	165	117		1				
H18/ H28	0,2	25	152				1				

Essential characteristics	Performance	Harmonised technical specification
Weldability IDT EN 1999-1-1	NPD	EN 15088:2005
Bendability	NPD	
Fatigue strength	NPD	
Dangerous substances IDT EN 573-3	NO	
Durability rating IDT EN 1999-1-1	NPD	

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