

**DECLARATION OF PERFORMANCE**

No. 31/2021

1. Unique identification code of the product-type:

**Gränges\_Konin\_8011A**

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-8011A cold rolled

Essential characteristics	Performance						Harmonized technical specification
Dimensional tolerances IDT EN 485-4	Thickness tolerances						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		
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 mm</sub>		Bend radius	
		[mm]		[MPa]		[MPa]		[%]			
		Over	Up to and including	min	max	min	max	min	max	180°	90°
	O	0,2	0,5	85	130	30		19			
		0,5	1,5	85	130	30		21			
		1,5	3,0	85	130	30		24			
		3,0	6,0	85	130	30		25			
		6,0	12,5	85	130	30		30			
	H111	0,2	0,5	85	130	30		19			
		0,5	1,5	85	130	30		21			
		1,5	3,0	85	130	30		24			
3,0		6,0	85	130	30		25				
6,0		12,5	85	130	30		30				
H14	0,2	0,5	120	170	110		1				
	0,5	1,5	125	165	110		3				
	1,5	3,0	125	165	110		3				
	3,0	6,0	125	165	110		4				
	6,0	12,5	125	165	110		5				

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			
	H16	0,2	0,5	140	190	130		1				
		0,5	1,5	145	185	130		2				
		1,5	4,0	145	185	130		3				
	H18	0,2	0,5	160		145		1				
	0,5	1,5	165		145		2					
	1,5	3,0	165		145		2					
H22	0,2	0,5	105	145	90		4					
	0,5	1,5	105	145	90		5					
	1,5	3,0	105	145	90		6					
H24	0,2	0,5	125	165	100		3					
	0,5	1,5	125	165	100		4					
	1,5	3,0	125	165	100		5					
	3,0	6,0	125	165	100		6					
	6,0	12,5	125	165	100		7					
H26	0,2	0,5	145	185	120		2					
	0,5	1,5	145	185	120		3					
	1,5	4,0	145	185	120		4					
Weldability IDT EN 1999-1-1	Class II											
Bendability	Alloy		Temper								EN 15088:2005	
		O H111	H22	H14 H24	H16 H26	H18						
	EN AW-8011A	-	-	B2	B2	-						
Fatigue strength	NPD											
Dangerous substances IDT EN 573-3	NO											
Durability rating IDT EN 1999-1-1	Class B											

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:

Pawel Rutecki  
Director of Development and Investment

Konin, 13 April 2021

Director of Development & Investment

  
Pawel Rutecki