

DECLARATION OF PERFORMANCE

No. 15/2021

1. Unique identification code of the product-type:

Gränges_Konin_5005A

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-5005A 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							
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	+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					

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]		[%]				
		Over	Up to and including	min	max	min	max	min	max	180°	90°	
	H12	0,2 0,5 1,5 3,0 6,0	0,5 1,5 3,0 6,0 12,5	125 125 125 125 125	165 165 165 165 165	95 95 95 95 95		2 2 4 5 7		1,0t 1,0t 1,5t	0t 0,5t 1,0t 1,0t 2,0t	
	H14	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	120 120 120 120 120		2 2 3 4 5		2,0t 2,0t 2,5t	0,5t 1,0t 1,0t 2,0t 2,5t	
	H16	0,2 0,5 1,5 3,0	0,5 1,5 3,0 4,0	165 165 165 165	205 205 205 205	145 145 145 145		1 2 3 3			1,0t 1,5t 2,0t 2,5t	
	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	205 205 205		185 185 185		1 2 2				
	H22	0,2 0,5 1,5 3,0 6,0	0,5 1,5 3,0 6,0 12,5	125 125 125 125 125	165 165 165 165 165	80 80 80 80 80		4 5 6 8 10		1,0t 1,0t 1,5t	0t 0,5t 1,0t 1,0t 2,0t	
	H32	0,2 0,5 1,5 3,0 6,0	0,5 1,5 3,0 6,0 12,5	125 125 125 125 125	165 165 165 165 165	80 80 80 80 80		4 5 6 8 10		1,0t 1,0t 1,5t	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	110 110 110 110 110		3 4 5 6 8		1,5t 1,5t 2,0t	0,5t 1,0t 1,0t 2,0t 2,5t	
	H34	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	110 110 110 110 110		3 4 5 6 8		1,5t 1,5t 2,0t	0,5t 1,0t 1,0t 2,0t 2,5t	
	H26	0,2 0,5 1,5 3,0	0,5 1,5 3,0 4,0	165 165 165 165	205 205 205 205	135 135 135 135		2 3 4 4			1,0t 1,5t 2,0t 2,5t	
	H36	0,2 0,5 1,5 3,0	0,5 1,5 3,0 4,0	165 165 165 165	205 205 205 205	135 135 135 135		2 3 4 4			1,0t 1,5t 2,0t 2,5t	
	H28	0,2 0,5 1,5	0,5 1,5 3,0	185 185 185		160 160 160		1 2 3			1,5t 2,5t 3,0t	
	H38	0,2 0,5 1,5	0,5 1,5 3,0	185 185 185		160 160 160		1 2 3				
Weldability IDT EN 1999-1-1	Class I											

Essential characteristics	Performance						Harmonized technical specification
Bendability	Alloy	Temper					EN 15088:2005
		O H111	H12 H22 H32	H14 H24 H34	H16 H26 H36	H18 H28 H38	
	EN AW-5005A	-	-	-	-	-	
Fatigue strength	NPD						
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
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Paweł Rutecki