

DECLARATION OF PERFORMANCE

No. 1/2021

1. Unique identification code of the product-type:

Gränges_Konin_1050A

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-1050A cold rolled

Essential characteristics	Performance	Harmonized technical specification					
Dimensional tolerances IDT EN 485-4	Thickness tolerances	EN 15088:2005					
	Thickness tolerances [mm]						
	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 _m		Yield strength R _{p0,2}		Elongation A _{50 mm}		Bend radius	
		[mm]		[MPa]		[MPa]		[%]		180°	90°
		Over	Up to and including	min	max	min	max	min	max		
	O	0,2	0,5	65	95	20		20		0t	0t
		0,5	1,5	65	95	20		22		0t	0t
		1,5	3,0	65	95	20		26		0t	0t
		3,0	6,0	65	95	20		29		0,5t	0,5t
		6,0	12,5	65	95	20		35		1,0t	1,0t
		12,5	20,0	65	95	20		32			
	H111	0,2	0,5	65	95	20		20		0t	0t
	0,5	1,5	65	95	20		22		0t	0t	
	1,5	3,0	65	95	20		26		0t	0t	
	3,0	6,0	65	95	20		29		0,5t	0,5t	
	6,0	12,5	65	95	20		35		1,0t	1,0t	
	12,5	20,0	65	95	20		32				

Essential characteristics	Performance										Harmonized technical specification		
Mechanical properties IDT EN 485-2	Temper	Specified thickness		Tensile strength R _m		Yield strength R _{p0,2}		Elongation A50 mm		Bend radius		EN 15088:2005	
		[mm]		[MPa]		[MPa]		[%]		180°	90°		
	Over	Up to and including	min	max	min	max	min	max	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	85 85 85 85 85 85	125 125 125 125 125 125	65 65 65 65 65 65			2 4 5 7 9 9		0,5t 0,5t 0,5t 1,0t 1,0t		0t 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 20,0	105 105 105 105 105 105	145 145 145 145 145 145	85 85 85 85 85 85			2 2 4 5 6 6		1,0t 1,0t 1,0t		0t 0,5t 1,0t 1,5t 2,5t
	H16	0,2 0,5 1,5	0,5 1,5 4,0	120 120 120	160 160 160	100 100 100			1 2 3				0,5t 1,0t 1,5t
	H18	0,2 0,5 1,5	0,5 1,5 3,0	135 140 140		120 120 120			1 2 2				1,0t 2,0t 3,0t
	H19	0,2 0,5 1,5	0,5 1,5 3,0	155 150 150		140 130 130			1 1 1				
	H22	0,2 0,5 1,5 3,0 6,0	0,5 1,5 3,0 6,0 12,5	85 85 85 85 85	125 125 125 125 125	55 55 55 55 55			4 5 6 11 12		0,5t 0,5t 0,5t 1,0t		0t 0t 0,5t 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	105 105 105 105 105	145 145 145 145 145	75 75 75 75 75			3 4 5 8 8		1,0t 1,0t 1,0t 1,5t		0t 0,5t 1,0t 1,5t 2,5t
	H26	0,2 0,5 1,5	0,5 1,5 4,0	120 120 120	160 160 160	90 90 90			2 3 4				0,5t 1,0t 1,5t
	H28	0,2 0,5 1,5	0,5 1,5 3,0	140 140 140		110 110 110			2 2 3				1,0t 2,0t 3,0t
	Weldability IDT EN 1999-1-1	Class I											
Bendability	Alloy	Temper											
		O H111	H12 H22	H14 H24	H16 H26	H18 H28							
EN AW-1050A	-	-	-	-	-								

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	

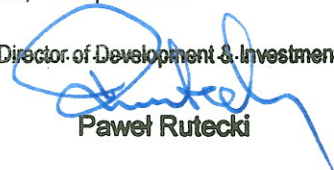
The performance of the product identified above is in conformity with the declared performance/s.
 This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011,
 under the sole responsibility of the manufacturer identified above.

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