

DECLARATION OF PERFORMANCE

No. 4/2021

1. Unique identification code of the product-type:

Gränges_Konin_1200

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-1200 cold rolled

Essential characteristics	Performance	Harmonized technical specification													
Dimensional tolerances IDT EN 485-4	Thickness tolerances	EN 15088:2005													
	Thickness tolerances [mm]														
	<table border="1"> <thead> <tr> <th colspan="2">Specified thickness [mm]</th> <th>Up to and including 1000mm</th> <th>Over 1000mm up to and including 1250mm</th> <th>Over 1250mm up to and including 1600mm</th> <th>Over 1600mm up to and including 2000mm</th> </tr> <tr> <th>Over</th> <th>Up to and including</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>mm</th> </tr> </thead> </table>		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	
	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										
<small>When measuring the thickness, a zone 10mm wide from the edges of the product shall be disregarded.</small>															

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	75	105	25		19		0t	0t
		0,5	1,5	75	105	25		21		0t	0t
		1,5	3,0	75	105	25		24		0t	0t
		3,0	6,0	75	105	25		28		0,5t	0,5t
		6,0	12,5	75	105	25		33		1,0t	1,0t
		12,5	20,0	75	105	25		30			
	H111	0,2	0,5	75	105	25		19		0t	0t
	0,5	1,5	75	105	25		21		0t	0t	
	1,5	3,0	75	105	25		24		0t	0t	
	3,0	6,0	75	105	25		28		0,5t	0,5t	
	6,0	12,5	75	105	25		33		1,0t	1,0t	
	12,5	20,0	75	105	25		30				

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 ^a		
		[mm]		[MPa]		[MPa]		[%]		180°	90°	
		Over	Up to and including	min	max	min	max	min	max			
	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	95 95 95 95 95 95	135 135 135 135 135 135	75 75 75 75 75 75		2 4 5 6 8 8			0,5t 0,5t 0,5t 1,0t	0t 0t 0,5t 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	105 115 115 115 115 115	155 155 155 155 155 155	95 95 95 95 90 90		1 3 4 5 6 6			1,0t 1,0t 1,0t 1,5t	0t 0,5t 1,0t 1,5t 2,5t
	H16	0,2 0,5 1,5	0,5 1,5 4,0	120 130 130	170 170 170	110 115 115		1 2 3				0,5t 1,0t 1,5t
	H18	0,2 0,5 1,5	0,5 1,5 3,0	150 150 150		130 130 130		1 2 2				1,0t 2,0t 3,0t
	H19	0,2 0,5 1,5	0,5 1,5 3,0	160 160 160		140 140 140		1 1 1				
	H22	0,2 0,5 1,5 3,0 6,0	0,5 1,5 3,0 6,0 12,5	95 95 95 95 95	135 135 135 135 135	65 65 65 65 65		4 5 6 10 10			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	115 115 115 115 115	155 155 155 155 155	90 90 90 90 85		3 4 5 7 9			1,0t 1,0t 1,0t	0t 0,5t 1,0t 1,5t 2,5t
	H26	0,2 0,5 1,5	0,5 1,5 4,0	130 130 130	170 170 170	105 105 105		2 3 4				0,5t 1,0t 1,5t
	Weldability IDT EN 1999-1-1	Class I										
	Bendability	Alloy	Temper									
O H111			H12 H22	H14 H24	H16 H26	H18						
	EN AW-1200	-	-	-	-	-						

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