

DECLARATION OF PERFORMANCE

No. 7/2021

1. Unique identification code of the product-type:

Gränges_Konin_3004

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-3004 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								
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	+10 0	+0,2% of specified length				
3,0	6,0	+4 0	+6 0	+8 0	+10 0	+10 0						
6,0	20	+6 0	+8 0	+10 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 R _m		Yield strength R _{p0,2}		Elongation A50 mm		Bend radius ^a		EN 15088:2005	
		[mm]		[MPa]		[MPa]		[%]		180°	90°		
	Over	Up to and including	min	max	min	max	min	max	180°	90°			
	H12	0,2 0,5 1,5 3,0	0,5 1,5 3,0 6,0	190 190 190 190	240 240 240 240	155 155 155 155		2 3 4 5		1,5t 1,5t 2,0t	0t 0,5t 1,0t 1,5t		
	H14	0,2 0,5 1,5 3,0	0,5 1,5 3,0 6,0	220 220 220 220	265 265 265 265	180 180 180 180		1 2 2 3		2,5t 2,5t 2,5t	0,5t 1,0t 1,5t 2,0t		
	H16	0,2 0,5 1,5	0,5 1,5 4,0	240 240 240	285 285 285	200 200 200		1 1 2		3,5t 3,5t	1,0t 1,5t 2,5t		
	H18	0,2 0,5 1,5	0,5 1,5 3,0	260 260 260		230 230 230		1 1 2			1,5t 2,5t		
	H19	0,2 0,5	0,5 1,5	270 270		240 240		1 1					
	H22	0,2 0,5 1,5 3,0	0,5 1,5 3,0 6,0	190 190 190 190	240 240 240 240	145 145 145 145		4 5 6 7		1,0t 1,0t 1,5t	0t 0,5t 1,0t 1,5t		
	H32	0,2 0,5 1,5 3,0	0,5 1,5 3,0 6,0	190 190 190 190	240 240 240 240	145 145 145 145		4 5 6 7		1,0t 1,0t 1,5t	0t 0,5t 1,0t 1,5t		
	H24	0,2 0,5 1,5	0,5 1,5 3,0	220 220 220	265 265 265	170 170 170		3 4 4		2,0t 2,0t 2,0t	0,5t 1,0t 1,5t		
	H34	0,2 0,5 1,5	0,5 1,5 3,0	220 220 220	265 265 265	170 170 170		3 4 4		2,0t 2,0t 2,0t	0,5t 1,0t 1,5t		
	H26	0,2 0,5 1,5	0,5 1,5 3,0	240 240 240	285 285 285	190 190 190		3 3 3		3,0 t 3,0 t	1,0t 1,5t 2,5t		
	H28	0,2 0,5	0,5 1,5	260 260		220 220		2 3			1,5t 2,5t		
	H38	0,2 0,5	0,5 1,5	260 260		220 220		2 3			1,5t 2,5t		
	Weldability IDT EN 1999-1-1	Class I											
	Bendability	Alloy	Temper										
O H111	H12 H22 H32		H14 H24 H34	H16 H26 H36	H18 H28 H38								
EN AW-3004	-	-	B2	B2	B3								

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

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Paweł Rutecki