impexmetal s.a. - ALUMINIUM KONIN ®

DECLARATION OF PERFORMANCE
No. 12/2019

1. Unique identification code of the product-type:
Aluminium_Konin_5086
2. Intended use or uses:
Intended for internal and external loaded construction elements of buildings
3.Manufacturer:
Impexmetal S.A., Aleje Jerozolimskie 92, 00-807 Warszawa
4. System or systems of assessment and verification of constancy of performance:
System 2+
5. Harmonised standard:
EN 15088:2005

Notified body/ies:
Zakłady Badań i Atestacji „ZETOM" im. prof. F. Stauba w Katowicach sp. z o.o., No. 1436-CPR-0032

6. Declared performance: Sheet, plate and strip aluminium alloy EN AW-5086 cold rolled

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<tr><th>Essential characteristics</th><th>Performance</th><th>Harmonised technical specification</th></tr>
<tr><td>Dimensional tolerances
IDT EN 485-4</td><td>Thickness tolerances
<table>
<tr><th colspan="2" rowspan="2">Specified thickness [mm]</th><th colspan="4">Thickness tolerances [mm]</th></tr>
<tr><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>
<tr><td>0,20</td><td>0,4</td><td>±0,03</td><td>±0,05</td><td>±0,06</td><td>-</td></tr>
<tr><td>0,4</td><td>0,5</td><td>±0,03</td><td>±0,05</td><td>±0,06</td><td>±0,07</td></tr>
<tr><td>0,5</td><td>0,6</td><td>±0,04</td><td>±0,06</td><td>±0,07</td><td>±0,08</td></tr>
<tr><td>0,6</td><td>0,8</td><td>±0,04</td><td>±0,07</td><td>±0,08</td><td>±0,09</td></tr>
<tr><td>0,8</td><td>1,0</td><td>±0,05</td><td>±0,08</td><td>±0,09</td><td>±0,10</td></tr>
<tr><td>1,0</td><td>1,2</td><td>±0,05</td><td>±0,09</td><td>±0,10</td><td>±0,12</td></tr>
<tr><td>1,2</td><td>1,5</td><td>±0,07</td><td>±0,11</td><td>±0,12</td><td>±0,14</td></tr>
<tr><td>1,5</td><td>1,8</td><td>±0,08</td><td>±0,12</td><td>±0,13</td><td>±0,15</td></tr>
<tr><td>1,8</td><td>2</td><td>±0,09</td><td>±0,13</td><td>±0,14</td><td>±0,16</td></tr>
<tr><td>2</td><td>2,5</td><td>±0,10</td><td>±0,14</td><td>±0,15</td><td>±0,17</td></tr>
<tr><td>2,5</td><td>3,0</td><td>±0,11</td><td>±0,15</td><td>±0,17</td><td>±0,19</td></tr>
<tr><td>3,0</td><td>3,5</td><td>±0,12</td><td>±0,17</td><td>±0,19</td><td>±0,20</td></tr>
<tr><td>3,5</td><td>4,0</td><td>±0,15</td><td>±0,20</td><td>±0,22</td><td>±0,23</td></tr>
<tr><td>4,0</td><td>5,0</td><td>±0,18</td><td>±0,22</td><td>±0,24</td><td>±0,25</td></tr>
<tr><td colspan="6">When measuring the thickness, a zone 10mm wide from the edges of the product shall be disregarded.</td></tr>
</table></td><td>EN 15088:2005</td></tr>
</table>

Essential characteristics	Performance	Harmonised technical specification
Dimensional tolerances IDT EN 485-4		EN 15088:2005

Width tolerances for sheet and plate

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 [mm]		Tensile strength Rm [MPa]		Yield strength $R_{p0,2}$ [MPa]		Elongation A50 mm [%]		Bend radius[a]	
	Over	Up to and including	min	max	min	max	min	max	180°	90°
O	0,2 0,5 1,5 3,0 6,0 12,5	0,5 1,5 3,0 6,0 12,5 20,0	240 240 240 240 240 240	310 310 310 310 310 310	100 100 100 100 100 100		11 12 13 15 17	 16	1,0t 1,0t 1,0t 1,5t	0,5t 1,0t 1,0t 1,5t 2,5t
H111	0,2 0,5 1,5 3,0 6,0 12,5	0,5 1,5 3,0 6,0 12,5 20,0	240 240 240 240 240 240	310 310 310 310 310 310	100 100 100 100 100 100		11 12 13 15 17	 16	1,0t 1,0t 1,0t 1,5t	0,5t 1,0t 1,0t 1,5t 2,5t
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	275 275 275 275 275 275	335 335 335 335 335 335	200 200 200 200 200 200		3 4 5 6 7	 6		

Essential characteristics	Performance	Harmonised technical specification
Mechanical properties IDT EN 485-2	See table below	EN 15088:2005

Temper	Specified thickness [mm]		Tensile strength Rm [MPa]		Yield strength $R_{p0,2}$ [MPa]		Elongation A50 mm [%]		Bend radius[a]	
	Over	Up to and including	min	max	min	max	min	max	180°	90°
H14	0,2	0,5	300	360	240		2			
	0,5	1,5	300	360	240		3			
	1,5	3,0	300	360	240		3			
	3,0	6,0	300	360	240		3			
	6,0	12,5	300	360	240		4			
	12,5	20,0	300	360	240			3		
H16	0,2	0,5	325	385	270		1			
	0,5	1,5	325	385	270		2			
	1,5	3,0	325	385	270		2			
	3,0	4,0	325	385	270		2			
H18	0,2	0,5	345		290		1			
	0,5	1,5	345		290		1			
	1,5	3,0	345		290		1			
H22	0,2	0,5	275	335	185		5		2,0t	0,5t
	0,5	1,5	275	335	185		6		2,0t	1,5t
	1,5	3,0	275	335	185		7		2,0t	2,0t
	3,0	6,0	275	335	185		8			2,5t
	6,0	12,5	275	335	185		10			3,5t
	12,5	20,0	275	335	185			9		
H32	0,2	0,5	275	335	185		5		2,0t	0,5t
	0,5	1,5	275	335	185		6		2,0t	1,5t
	1,5	3,0	275	335	185		7		2,0t	2,0t
	3,0	6,0	275	335	185		8			2,5t
	6,0	12,5	275	335	185		10			3,5t
	12,5	20,0	275	335	185			9		
H24	0,2	0,5	300	360	220		4		2,5t	1,0t
	0,5	1,5	300	360	220		5		2,5t	2,0t
	1,5	3,0	300	360	220		6		2,5t	2,5t
	3,0	6,0	300	360	220		7			3,5t
	6,0	12,5	300	360	220		8			4,5t
	12,5	20,0	300	360	220			7		
H34	0,2	0,5	300	360	220		4		2,5t	1,0t
	0,5	1,5	300	360	220		5		2,5t	2,0t
	1,5	3,0	300	360	220		6		2,5t	2,5t
	3,0	6,0	300	360	220		7			3,5t
	6,0	12,5	300	360	220		8			4,5t
	12,5	20,0	300	360	220			7		
H26	0,2	0,5	325	385	250		2			
	0,5	1,5	325	385	250		3			
	1,5	3,0	325	385	250		3			
	3,0	4,0	325	385	250		3			
H36	0,2	0,5	325	385	250		2			
	0,5	1,5	325	385	250		3			
	1,5	3,0	325	385	250		3			
	3,0	4,0	325	385	250		3			

Weldability IDT EN 1999-1-1	Class I

Bendability

Alloy	Temper				
	O H111	H12 H22 H32	H14 H24 H34	H16 H26 H36	H18
EN AW-5086	-	-	-	-	-

Essential characteristics	Performance	Harmonised 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, an 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, 1st July 2019

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