impexmetal s.a. - ALUMINIUM KONIN ®

DECLARATION OF PERFORMANCE
No. 5/2015

1. Unique identification code of the product-type:
Aluminium_Konin_3005
2. Intended use or uses:
Intended for internal and external loaded construction elements of buildings
3.Manufacturer:
Impexmetal S.A. Aluminium Konin ul. Hutnicza 1, 62-510 Konin
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-3005 cold rolled

<table>
<tr><th>Essential characteristics</th><th>Performance</th><th>Harmonised technical specification</th></tr>
<tr><td>Dimensional tolerances
IDT EN 485-4:1993</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>±0,02</td><td>±0,04</td><td>±0,05</td><td>-</td></tr>
<tr><td>0,4</td><td>0,5</td><td>±0,03</td><td>±0,04</td><td>±0,05</td><td>±0,06</td></tr>
<tr><td>0,5</td><td>0,6</td><td>±0,03</td><td>±0,05</td><td>±0,06</td><td>±0,07</td></tr>
<tr><td>0,6</td><td>0,8</td><td>±0,03</td><td>±0,06</td><td>±0,07</td><td>±0,08</td></tr>
<tr><td>0,8</td><td>1,0</td><td>±0,04</td><td>±0,06</td><td>±0,08</td><td>±0,09</td></tr>
<tr><td>1,0</td><td>1,2</td><td>±0,04</td><td>±0,07</td><td>±0,09</td><td>±0,10</td></tr>
<tr><td>1,2</td><td>1,5</td><td>±0,05</td><td>±0,09</td><td>±0,10</td><td>±0,11</td></tr>
<tr><td>1,5</td><td>1,8</td><td>±0,06</td><td>±0,10</td><td>±0,11</td><td>±0,12</td></tr>
<tr><td>1,8</td><td>2</td><td>±0,06</td><td>±0,11</td><td>±0,12</td><td>±0,14</td></tr>
<tr><td>2</td><td>2,5</td><td>±0,07</td><td>±0,12</td><td>±0,13</td><td>±0,15</td></tr>
<tr><td>2,5</td><td>3,0</td><td>±0,08</td><td>±0,13</td><td>±0,15</td><td>±0,17</td></tr>
<tr><td>3,0</td><td>3,5</td><td>±0,10</td><td>±0,15</td><td>±0,17</td><td>±0,18</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 485-4:1993		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 485-2:2008

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	115	165	45		12		0t	0t
	0,5	1,5	115	165	45		14		0t	0t
	1,5	3,0	115	165	45		16		1,0t	0,5t
	3,0	6,0	115	165	45		19			1,0t
H111	0,2	0,5	115	165	45		12		0t	0t
	0,5	1,5	115	165	45		14		0t	0t
	1,5	3,0	115	165	45		16		1,0t	0,5t
	3,0	6,0	115	165	45		19			1,0t
H12	0,2	0,5	145	195	125		3		1,5t	0t
	0,5	1,5	145	195	125		4		1,5t	0,5t
	1,5	3,0	145	195	125		4		2,0t	1,0t
	3,0	6,0	145	195	125		5			1,5t

Essential characteristics	Performance	Harmonised technical specification
Mechanical properties IDT EN 485-2:2008		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	170	215	150		1		2,5t	0,5t
	0,5	1,5	170	215	150		2		2,5t	1,0t
	1,5	3,0	170	215	150		2			1,5t
	3,0	6,0	170	215	150		3			2,0t
H16	0,2	0,5	195	240	175		1			1,0t
	0,5	1,5	195	240	175		2			1,5t
	1,5	4,0	195	240	175		2			2,5t
H18	0,2	0,5	220		200		1			1,5t
	0,5	1,5	220		200		2			2,5t
	1,5	3,0	220		200		2			
H19	0,2	0,5	235		210		1			
	0,5	1,5	235		210		1			
H22	0,2	0,5	145	195	110		5		1,0t	0t
	0,5	1,5	145	195	110		5		1,0t	0,5t
	1,5	3,0	145	195	110		6		1,5t	1,0t
	3,0	6,0	145	195	110		7			1,5t
H24	0,2	0,5	170	215	130		4		1,5 t	0,5t
	0,5	1,5	170	215	130		4		1,5 t	1,0t
	1,5	3,0	170	215	130		4			1,5t
H26	0,2	0,5	195	240	160		3			1,0t
	0,5	1,5	195	240	160		3			1,5t
	1,5	3,0	195	240	160		3			2,5t
H28	0,2	0,5	220		190		2			1,5t
	0,5	1,5	220		190		2			2,5t
	1,5	3,0	220		190		3			

Weldability IDT EN 1999-1-1:2007 + A1:2009	Class I

Bendability

Alloy	Temper				
	O H111	H12 H22	H14 H24	H16 H26	H18 H28
EN AW-3005	-	-	B2	B2	B3

Essential characteristics	Performance	Harmonised technical specification
Fatigue strength	NPD	EN 15088:2005
Dangerous substances IDT EN 573-3:2009	No	
Durability rating IDT EN 1999-1-1:2007 + A1:2009	Class A	

10. 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:

Robert Jeżak
w Konin dnia 16 lutego 2015r

.....