impexmetal s.a. - ALUMINIUM KONIN®

DECLARATION OF PERFORMANCE
No. 11/2015

1. Unique identification code of the product-type:
Aluminium_Konin_5083
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-5083 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>±0,03</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 485-4:1993	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 485-2:2008

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	275	350	125		11		1,0t	0,5t
	0,5	1,5	275	350	125		12		1,0t	1,0t
	1,5	3,0	275	350	125		13		1,5t	1,0t
	3,0	6,3	275	350	125		15			1,5t
	6,3	12,5	270	345	115		16			2,5t
	12,5	20,0	270	345	115			15		
H111	0,2	0,5	275	350	125		11		1,0t	0,5t
	0,5	1,5	275	350	125		12		1,0t	1,0t
	1,5	3,0	275	350	125		13		1,5t	1,0t
	3,0	6,3	275	350	125		15			1,5t
	6,3	12,5	270	345	115		16			2,5t
	12,5	20,0	270	345	115			15		
H12	0,2	0,5	315	375	250		3			
	0,5	1,5	315	375	250		4			
	1,5	3,0	315	375	250		5			
	3,0	6,0	315	375	250		6			
	6,0	12,5	315	375	250		7			
	12,5	20,0	315	375	250			6		

Essential characteristics	Performance	Harmonised technical specification
Mechanical properties IDT EN 485-2:2008	See table below	EN 15088:2005
Weldability IDT EN 1999-1-1:2007 + A1:2009	Class I	
Bendability	See table below	

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	340	400	280		2			
	0,5	1,5	340	400	280		3			
	1,5	3,0	340	400	280		3			
	3,0	6,0	340	400	280		3			
	6,0	12,5	340	400	280		4			
	12,5	20,0	340	400	280			3		
H16	0,2	0,5	360	420	300		1			
	0,5	1,5	360	420	300		2			
	1,5	3,0	360	420	300		2			
	3,0	4,0	360	420	300		2			
H22	0,2	0,5	305	380	215		5			
	0,5	1,5	305	380	215		6			
	1,5	3,0	305	380	215		7			
	3,0	6,0	305	380	215		8			
	6,0	12,5	305	380	215		10			
	12,5	20,0	305	380	215			9		
H32	0,2	0,5	305	380	215		5			
	0,5	1,5	305	380	215		6			
	1,5	3,0	305	380	215		7			
	3,0	6,0	305	380	215		8			
	6,0	12,5	305	380	215		10			
	12,5	20,0	305	380	215			9		
H24	0,2	0,5	340	400	250		4			
	0,5	1,5	340	400	250		5			
	1,5	3,0	340	400	250		6			
	3,0	6,0	340	400	250		7			
	6,0	12,5	340	400	250		8			
	12,5	25,0	340	400	250			7		
H34	0,2	0,5	340	400	250		4			
	0,5	1,5	340	400	250		5			
	1,5	3,0	340	400	250		6			
	3,0	6,0	340	400	250		7			
	6,0	12,5	340	400	250		8			
	12,5	25,0	340	400	250			7		
H26	0,2	0,5	360	420	280		2			
	0,5	1,5	360	420	280		3			
	1,5	3,0	360	420	280		3			
	3,0	4,0	360	420	280		3			
H36	0,2	0,5	360	420	280		2			
	0,5	1,5	360	420	280		3			
	1,5	3,0	360	420	280		3			
	3,0	4,0	360	420	280		3			

Alloy	Temper			
	O H111	H12 H22 H32	H14 H24 H34	H16 H26 H36
EN AW-5083	B1	B2	B2	-

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

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