

## ALUMINIUM – THERMAL EXPANSION COEFFICIENT

### EFFECT FOR BAR LENGTHS OF 1,0 METER

<i>Expansion for aluminium</i>		
<b>Temp. expansion coefficient</b>	<b>2,38E – 05 / °C</b>	
<b>Based on length L =</b>	<b>1 000 mm</b>	
<b>Aluminium</b>		
<b>Temperature</b>	<b>New length L1</b>	
90 °C	1001,67 mm	1,67 mm
80 °C	1001,43 mm	1,43 mm
70 °C	1001,19 mm	1,19 mm
60 °C	1000,95 mm	0,95 mm
50 °C	1000,71 mm	0,71 mm
40 °C	1000,48 mm	0,48 mm
30 °C	1000,24 mm	0,24 mm
20 °C	1000,00 mm	0 mm
10 °C	999,76 mm	- 0,24 mm
0 °C	999,52 mm	- 0,48 mm
- 10 °C	999,29 mm	- 0,71 mm
- 20 °C	999,05 mm	- 0,95 mm
- 30 °C	998,81 mm	- 1,19 mm
- 40 °C	998,57 mm	- 1,43 mm
- 50 °C	998,33 mm	- 1,67 mm

### EFFECT FOR BAR LENGTHS OF 2,0 METER

<i>Expansion for aluminium</i>		
<b>Temp. expansion coefficient</b>	<b>2,38E – 05 / °C</b>	
<b>Based on length L =</b>	<b>2 000 mm</b>	
<b>Aluminium</b>		
<b>Temperature</b>	<b>New length L1</b>	
90 °C	2003,33 mm	3,33 mm
80 °C	2002,86 mm	2,86 mm
70 °C	2002,38 mm	2,38 mm
60 °C	2001,90 mm	1,90 mm
50 °C	2001,43 mm	1,43 mm
40 °C	2000,95 mm	0,95 mm
30 °C	2000,48 mm	0,48 mm
20 °C	2000,00 mm	0 mm
10 °C	1999,52 mm	- 0,48 mm
0 °C	1999,05 mm	- 0,95 mm
- 10 °C	1998,57 mm	- 1,43 mm
- 20 °C	1998,10 mm	- 1,90 mm
- 30 °C	1997,62 mm	- 2,38 mm
- 40 °C	1997,14 mm	- 2,86 mm
- 50 °C	1996,67 mm	- 3,33 mm