

Expansion/Contraction Table

Board Length (in feet)	Installed Board Temperature (f)							Decimal Conversion		
	0	20	40	60	80	100	120	1/8 "	0.13	
6	0.00	0.03	0.06	0.10	0.13	0.16	0.19	3/16 "	0.19	
8	0.00	0.04	0.09	0.13	0.17	0.22	0.26	1/4 "	0.25	
12	0.00	0.06	0.13	0.19	0.26	0.32	0.39	5/16 "	0.31	
16	0.00	0.09	0.17	0.26	0.35	0.43	0.52	3/8 "	0.38	
								7/16 "	0.44	
								9/16 "	0.56	
								11/16 "	0.69	
	End Gap to Leave for Expansion (on each side)									

Formula --- Total inches of the board X temperature variation (in Fahrenheit) x .000045 = Total Board Movement

Example:

```
>>> Board Length In feet = 12
>>> Board Length In Inches = 144 (12x12)
>>> Estimated Maximum Board Temperature (based on your climate) = 120 degrees (Fahrenheit)
>>> Estimated Minimum Board Temperature (based on your climate) = 0 degrees (Fahrenheit)
>>> Estimated Maximum Board Temperature Fluctuation = 120 degrees (Fahrenheit)
>>> 144 (inches) x 120 (temperature fluctuation) x .000045 = .7776 (total movement) divided by 2 (each end) = .3888
```

This chart is based on a 100-degree yearly temperature swing.

This chart is based on the temperature of the board at the time of installation.

Boards in direct sunlight will be warmer than the boards stacked underneath.