

The Effects of our Climate on Wood Flooring: *The equilibrium **moisture content (EMC)** is the **moisture content** at which the wood is neither gaining nor losing **moisture**; this however, is a dynamic equilibrium and changes with relative humidity and temperature.*

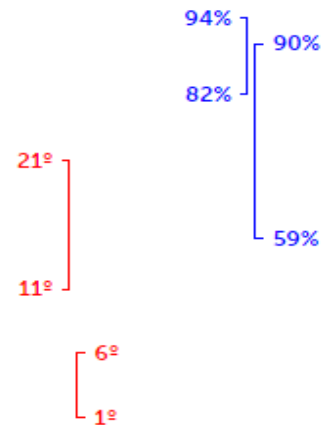
Rathbone Square Development Nov 2016: We currently have Log sensors installed in a selection of apartments and this week recorded RH between 74% and 89% - which is bang on what the chart shows. This means if we installed timber on site now and it was exposed to the ambient atmospheric conditions, it would soon achieve an EMC of ~22%. If the joinery item was delivered to site with a moisture content of say 6%, the change $22\% - 6\% = 16\%$. There is test data in the industry that has evidenced that for every 4% change in moisture content of timber products the item could shrink or grow by 1% of its dimension depending upon the increase or reduction in EMC. So, in the actual example we have on site $16\% / 4\% = 4$, so $4 \times 1\% =$ up to 4% potential shrinkage/growth!

Temperature, Humidity and Moisture Content (MC)

Cities

Santiago
Bangladesh
São Paulo
Mexico City
London
Madrid
Paris
Johannesburg
Sydney
Moskow
Berlin
Rome
Istambul
Beijing
Stockholm
Vienna
Los Angeles
Tokyo
New York

Higher and lower months



Focus on Temperature Humidity MC

