

TEMPERATE CLIMATE ZONE

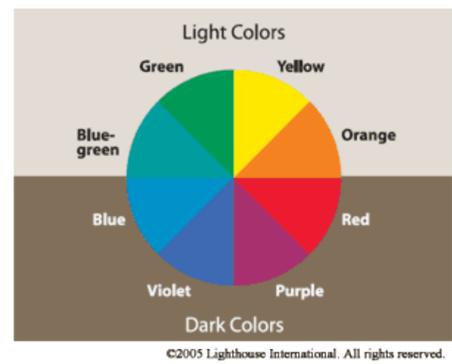
Temperate climates are those without extremes of temperature and precipitation (rain and snow). The changes between summer and winter are without being extreme. There are two types of temperate climate: **maritime** and **continental**. The **maritime** climate is strongly influenced by the oceans, which maintain fairly steady temperatures across the seasons. The winds are coming from west in the temperate zones.

Continental climate is warmer summers and colder winters. This is particularly true in North America, where the north-south aligned Rocky Mountains act as a climate barrier to the mild maritime air blowing from the west. Maritime climate, on the other hand, penetrates further into Europe where the major mountain range - the Alps - is orientated east-west.

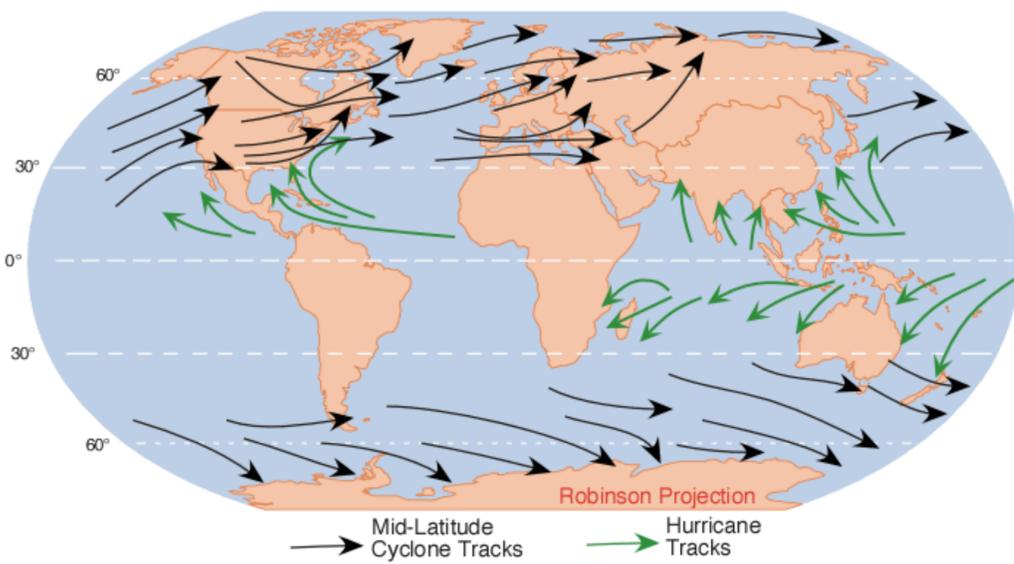
Characteristics

- Area
Between the cold zone and the subtropical zone (40° to 60°)
- Sun path
Maximum 73°, minimum 0° (at Arctic Circle)
- Average temperature
Between 0 and 20°C
- Minimal temperature
-40°C -40°F
- Maximal temperature
+40°C +104°F
- Radiation
The balance is negative
- Daylength
8 to 12 hours at 50°N
- Precipitation
From 300 to 2000 mm, average 800 mm
Extreme temperature and precipitation is rare

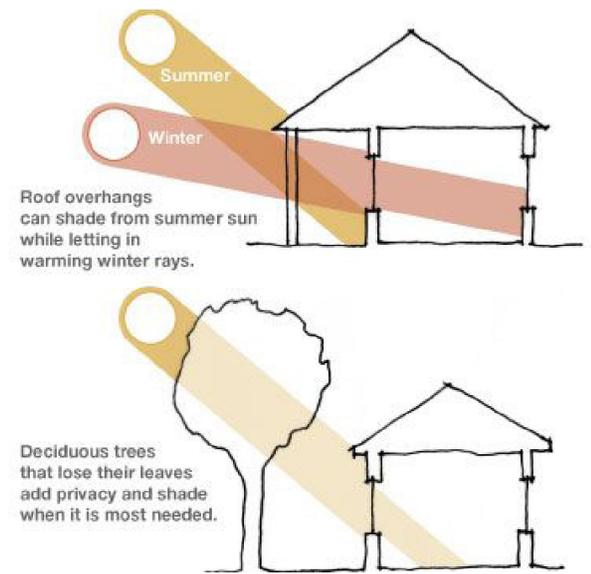
Since temperate climate zone is like medium, not too hot and at the same time not too cold, me as an architect have to consider rain, wind, sun, snowing and freezing during winter. So I need to use materials and shapes which will respond all of these. First of all, I'm going to use trees, as much as possible, for good shade, wind protection and fresh air. For building materials I would use brick walls for beauty and flexibility and strength, and insulation inside for sure to avoid hot and cold temperature during their seasons. Special exterior with helps water come out and not freeze between bricks and angular of the roof so neither snow stays on the roof and nor rain. also using different colors as a facade will work well. while dark colors absorb the sun radiation, light colors reflect it.



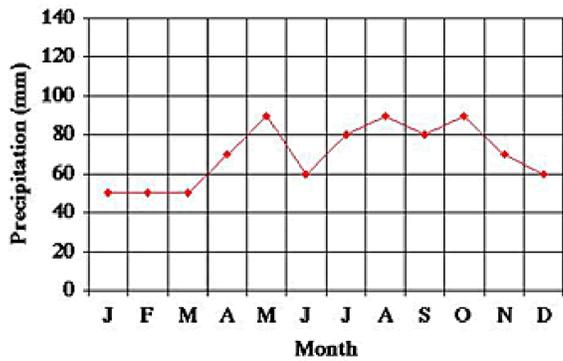
WIND DIAGRAM



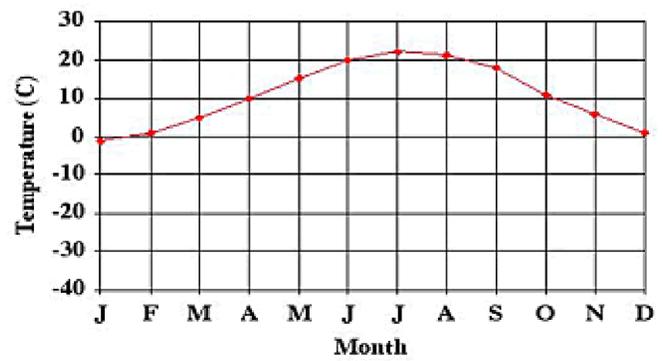
SHADING EXAMPLE



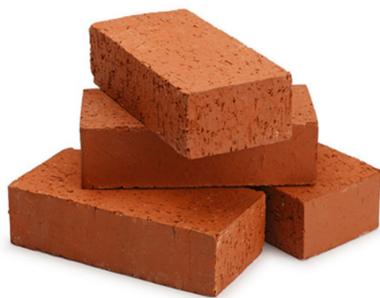
RAIN GRAPH



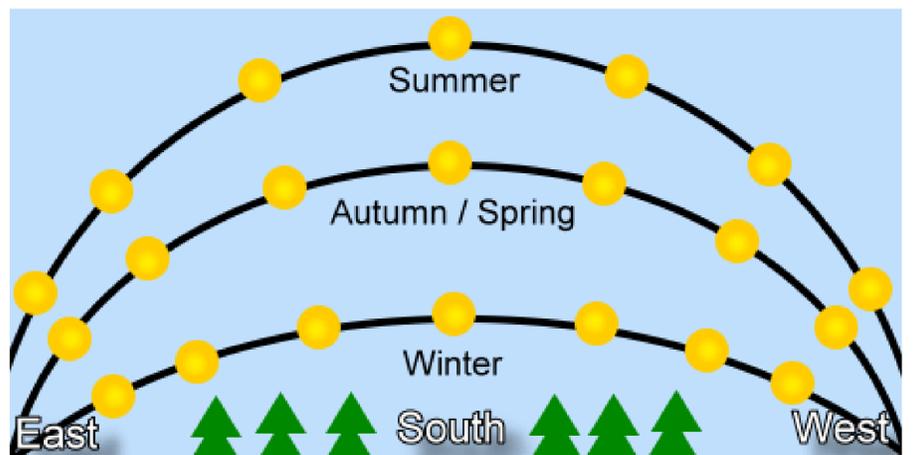
TEMPERATURE



REGULAR BRICK



SUN DIAGRAM



CLIMATE ZONE MAP

