

□ **TIMBER FLOORS**

- **Properties:**

- Cheap
- Approximately the same tension, pressure level
- Easy to build, but flat iron ties
- Lower weight
- Lower load-bearing capacity
- Higher deflection (load-bearing capacity!)
- Lower noise protection level (weight!)
- Combustible
- Protection need of the material (mould, fungus, worm, fire) {paint, scooping, spraying}
- Good from environment protection point of view (recyclable, low pollution when annihilating, renewable material)
- does not stand the changing of the humidity content

- **Important point of views when using the material:**

- Fiber direction
- Deformation (humidity!!!) twisting, curving, warping, buckling
- Dimension changing (humidity!!!)
- Rotting
- **Worm, fungi** damage / **protection need**

- **Traditional timber floor construction**

- Trunks
 - Wedges, dowels (hard wood) to work together (horizontal distribution of the load)
 - Reed + plastering
 - Mud or slag
 - floor bearers + Boards / parquet
- Later (less material consuming)
- square sawn beams covered by boarding
 - exposed timber floor
 - composite beams,etc.

- **Timber floor arrangement sample**

- **Traditional timber floor details**