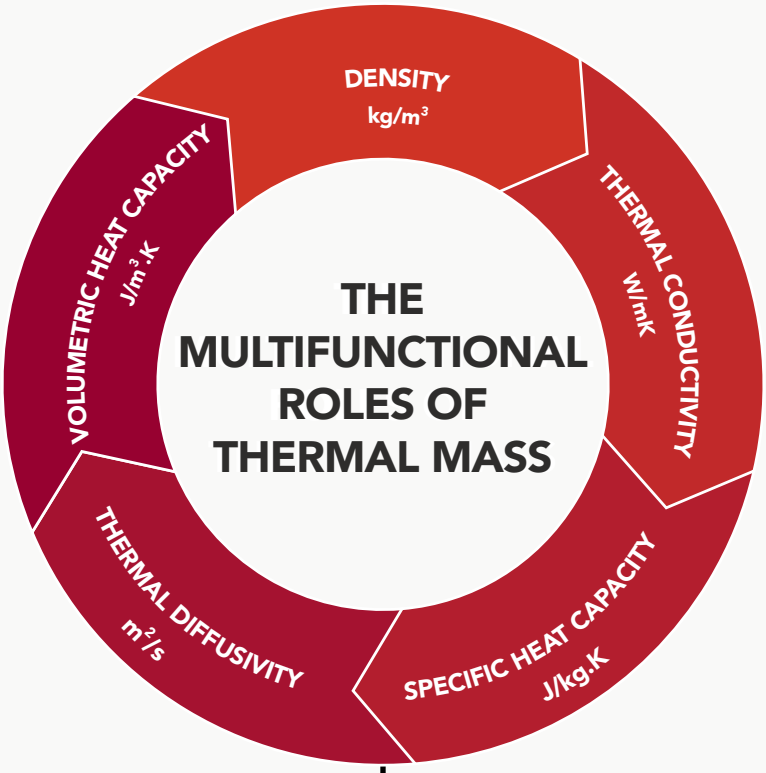


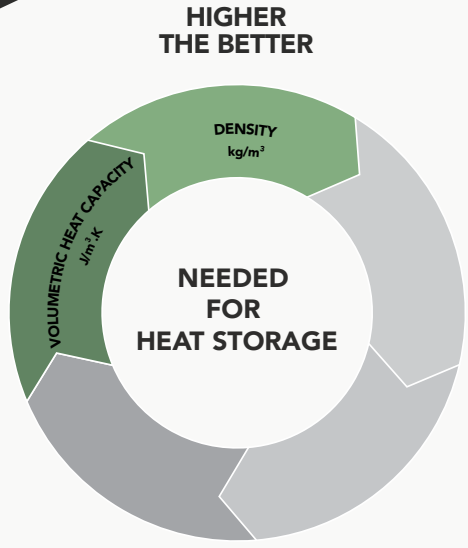
IMPLEMENTED ACROSS TWO SEPERATE ENVIRONMENTS USING DIFFERENT MATERIALS

EXTERNAL

Solution delivered by Wood Fibre as per Multiple Roles of Insulation

INTERNAL

Typical material would be concrete



GLOSSARY

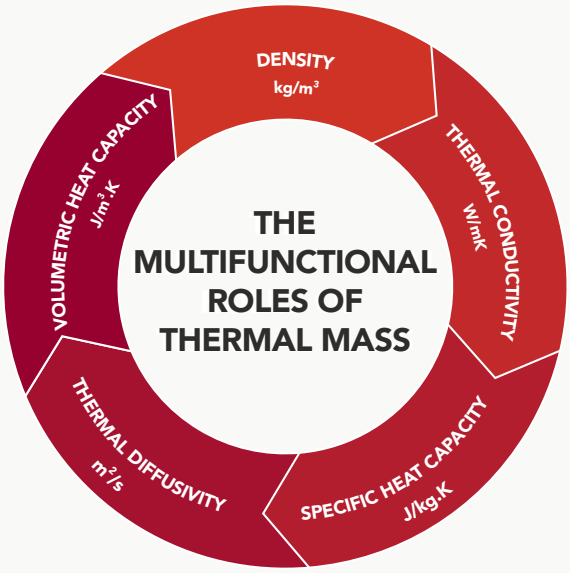
Density kg/m³
The mass per volume of a material - Higher the Better

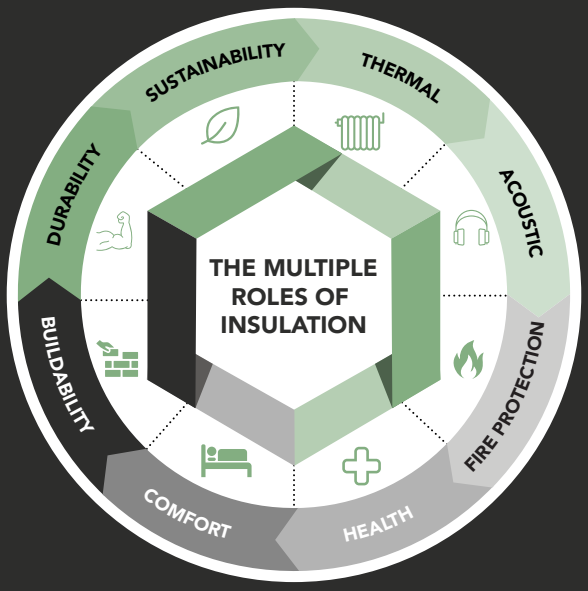
Thermal Conductivity W/mK
The rate at which heat passes through a material
- Lower the Better

Specific Heat Capacity J/kg.K -
How much heat can be stored in a material. Not how much heat it needs to change its temperature - Higher the Better

Thermal Diffusivity m²/s -
The rate of temperature spread through a material
- Lower the Better

Volumetric Heat Capacity J/m³.K - The ability of a volume of a substance to store heat while undergoing temperature change - Higher the Better





The solution: Insulation is about thermal performance and must have the following four in abundance:

1. High Density
For sound and overheating control.

2. Low Thermal Conductivity
To reduce heat loss and for more comfort

3. High Heat Storage
For temperature control

4. High Vapour diffusion
To deal with moisture