



Determine your ambition on the sustainability of your project

## A. ENERGY AND COMFORT

*I want a building which features...*

... easy to cool

Insulate properly to minimize energy demand for cooling

Insulated roof

Insulated walls

Insulated windows and doors

... a low electricity usage

Use energy efficient devices and installations

LED-lights

Home automation like motion detectors

... sources of renewable energy

Solve the residual energy demand

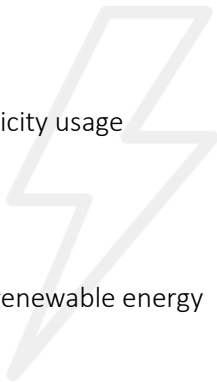
Solar panels

Solar boiler

Wind turbines

... 100% energy self-sufficiency

A building without air-conditioning and independent of the grid



## B. WATER AND GREEN

*I want a building which features...*

... water collection

A septic tank collects rainwater and grey water and refines it

Traditional septic tank

GRAF One-2-Clean septic tank

Rainwater tank

... refined water where possible

Reuse the purified water to irrigate garden and flush toilets

... uses efficient sanitary installations

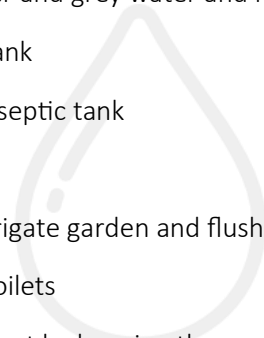
Use water efficient taps and toilets

... maintains the natural planting

Respect the natural environment by keeping the green as it is

... maintains the natural plot elevation

Only partially level up and implement it into the design





## C. VENTILATION

*I want a building which features...*

- ... a ventilated roof
- ... the wind for cooling
- ... natural cross ventilation
- ... ceiling fans to assist cross ventilation

A ceiling under the roof which is ventilated

Use the natural trade wind to cool passively

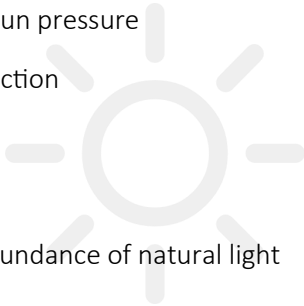
Use adjustable ventilation grills and window which can open

Improve the cooling performance

## D. ORIENTATION

*I want a building which features...*

- ... minimal sun pressure
- ... sun protection
- ... has an abundance of natural light



Optimal orientation of the rooms, regarding the sun's course

Shading devices which protect against solar rays

- Adjustable louvres
- Overhangs calculated on the sun's course

Use skylights, great sliding doors or bi-fold doors

## E. FLEXIBILITY

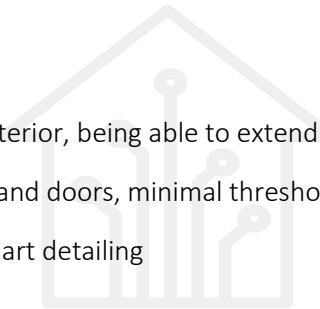
*I want a building which features...*

- ... Adaptability for future changes in lifestyles
- ... accessibility for everyone
- ... ability to repair and easy maintenance

No structural interior, being able to extend in the future

Wide corridors and doors, minimal thresholds, etc.

Efficient and smart detailing



## F. YOUR INPUT

- I have more ideas which I would like to implement into my sustainable building:*