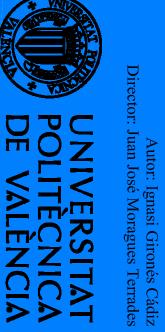
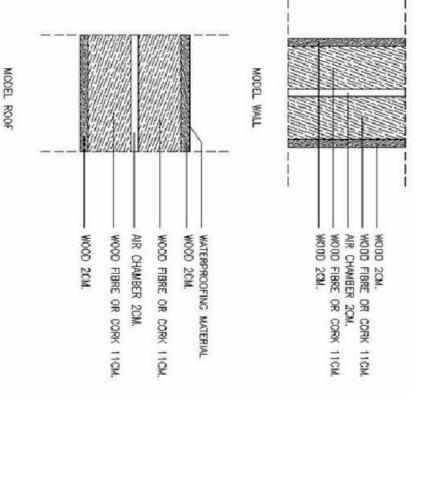
Foundation of a flo



Netherlands)

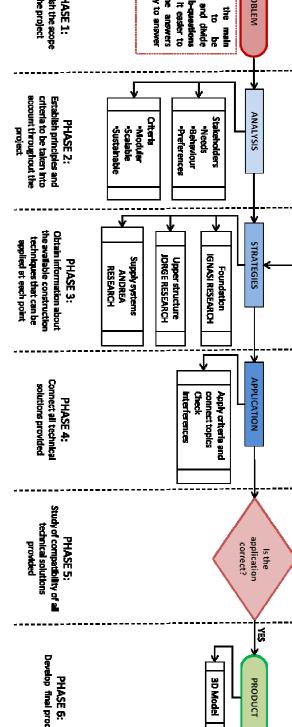
MATERIALS (Forés)

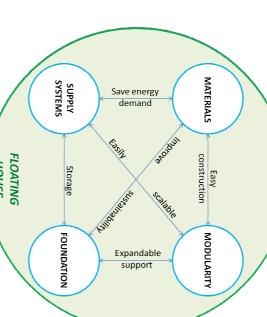
important. very adaptable and very advisable for a modular system because its dry set up allows assembly and disassembly very easy, besides it is a very light material to work, is very sustainable, The wood is the main material in the execution of the upper structure, it is the material that best meets the criteria required by the client. The wood is a material possible. system, since it is a floating system the weight of the structure must be as light as comfortable and fast. This quality also contributes to the buoyancy of the complete that is used almost in its natural state and also has other qualities that make it very This is a design requirement that must be taken into account, it is very its mechanical capabilities allow to apply it perfectly to any design, it is

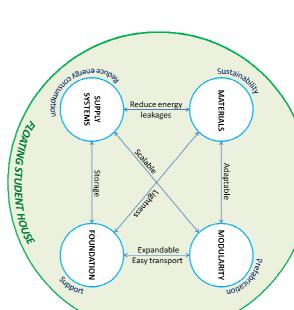












Modular design is an attempt to combine the advantages of industrialization with customization in a construction system. The modular design is the design based on the reticular modulation of spaces that allow optimising the construction process in different degrees. MODULARIT

constructor to cut execution times and assure quality. The structure is made of wood. The requirements followed by the structure will be the same as for the facade in terms <u>s</u>. made by prefabricated panels. This panelled systems allows the



Roof: two sheets wood + cork and in between air chamber. Air chamber for ventilation. Wood + waterproofing layer

Facade: two sheets wood + cork and in between air chamber



Room modules furnished according to the client's needs

Room module size deppens on the foundation module

FOUNDATION STORAGE
Blue: water storage
Yellow: batteries storage
Red: heating system storage Green: waste storage





FOUNDA I O Z Gironés

(-) N

ω)-4

(5)

(a)

(J

(w) (0) (a)

=

(1)

(ಪ)

(<u>1</u>)

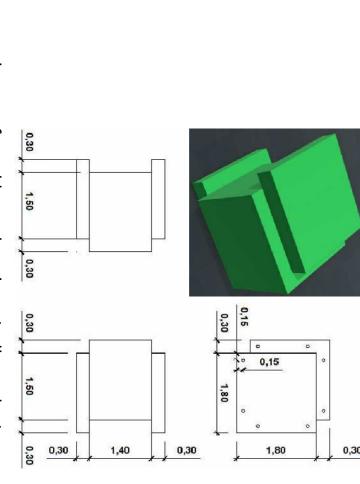
(g)

(1)

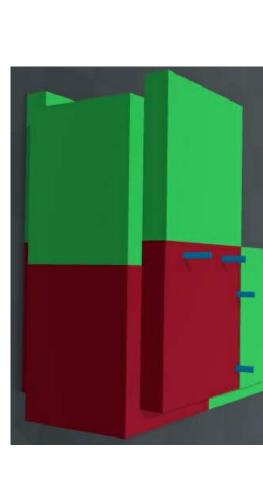
Modular :

foundation

Rectangular blocks are the easiest to produce, transport and collocate. Also, with this kind of blocks, it links the foundations and modularity. Those blocks can be easily transported by road and also, easy to add. The shape of the blocks has been decided so EPS is a light material that can be found worldwide with great lifespan and possibility to recycle. With EPS, and its lightness, the connection between foundations and materials is accomplished. For this project it is aimed to find sustainable and light materials. Rectangular blocks are the easiest to produce, transport and they can collaborate and form a whole vertical unions. unit and being united



Unions made out of steel bars placed vertically as the image shows are resistant and durable. Moreover, with the selected shape, blocks and steel bars work uniformly which helps to redistribute efforts.



Hybrid panels for heating and electricity
+ wind turbines for electricity

Eaves

Rainwater harvest for non purified purposes

Windows reach ceiling

ORIENTATION For the specific location in Groningen, the perfect orientation is South with 30º maximum deviation.

Common spaces have been placed to the North.

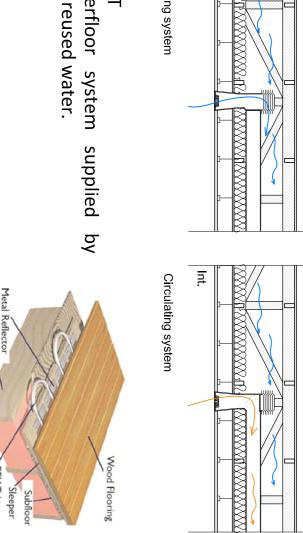
SUPPLY

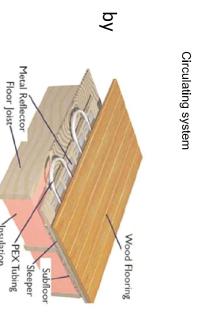
STEMS

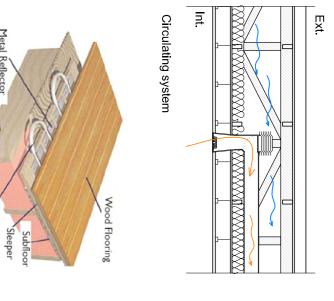
(Morant)

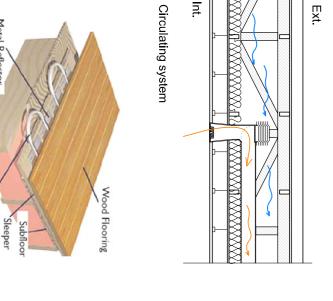
chimney system. An air chamber has been created on the roof to force wind to pass through so it can generate an airflow. This airflow will create a suction effect that can be use to ventilate every room through a VENTILATION

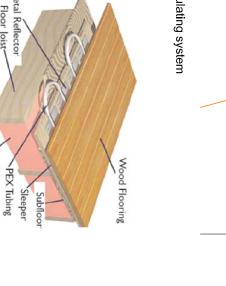
foundation.











HEAT Underfloor

The construction of the same o

