

TARGETGROUP/ summer house winter house 25-60 YEARS OLD AREAS OF SPECIAL CONSERVATION VALUE Characteristics: environment conscious close to nature inspiration value ECO HOTEL CLIENT'S IDEAS GROUP OF FAMILIES sharing property as a holiday

FRAMING LIGHT CONSTRUCTION

I-OSB beams as a secondary, supporting construction.

CONSTRUCTION

From the beginning the idea was to create a construction on a single pole with no footprint on nature. As challenging as it sounds it became even more difficult when the decision of not using

concrete (toxic cement) or energy consuming steel was made. In this way the only solution was to

come up with the wooden structure that could resist wind and gravity force. To achieve this kind

of structure glued laminated wood was used for primary beams, columns and very light, but stiff





N127-2



ENERGY/INDOOR CLIMATE

1/~40M2 PV PANELS

2/ CLIMATE

3/ VENTILATION

natural ventilation inlet in the

lower part of the building

4/ HEAT PUMP +

TECHNICAL UNIT free energy from the

used for any kind of bio waste to

5/ BIO DIGESTER

6/ RAIN WATER

OPTIONAL EXTRA RAIN WATER TANK

main water source xx m3

produce energy or gas

shape of the building maximizes

the efficiency (25 degrees slope)

optimazed daylight in the

no direct sun illumination

were implemented into this project in order to save and produce as much energy as possible. In case of any technical troubles, emergency energy source is provided.

NOT ONLY RECYCLEABLE BUT CRADLE TO CLADLE

Nordic European countries are the leaders in sustainable approach towards environment-friendly resources. Few years ago they have created new standard of Eco materials and marked them with "Cradle to cradle" certificate. The difference between other materials and C2C certified is that there must be the a possibility not only to recycle the material in 100% but also to factorize it. In this way they can be used in every possible way once again.

To create sustainable construction recycling is not enough. We must think cradle to cradle!

In other words, these are materials that from a biological sense of meaning are no different from for example a tree or other biological organism.

1/ WALL LAYERS/ Air circulation space 3cm Moisture & air tight membrane

7/ VENTILATION

FROM NORTH

9/ AIR INTAKE BY

THROUGH FACADE

10/ FIRE PLACE

11/ LED

emergency heating

effective light source

HEATING

pound loops

11/ UNDERFLOOR

pipes in the floor

low temperature heating

· 12/ GEOTHERMAL ENENERGY SOURCE

depending from the nearby environment

we apply horizontal, vertical, slinky or

NATURAL VENTILATION

all seasons depending

on outside temperature

natural ventilation outlet xx m3

Paper insulation/timber construction 35 cm 100% recyclable 7/ CEILING AND WALLS clay-tec regulates moisture in the room cradle to crade 2/ BLACK ZINK 100% recyclable 8/ WINDOWS triple glazed window passive standard 3/ TECHNICAL CORE " construction + 9/SHELVES all instalations built-in to maximaze

4/ ALTERNATING TREAD STAIR wooden construction that allows to save

5/ SHELVES built-in to maximaze storage space in mudroom area

6/TRIANGLE POLE

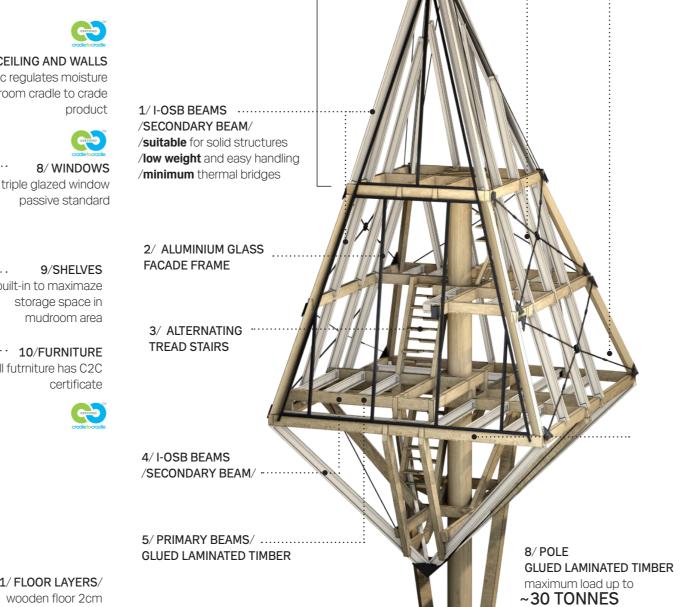
same black zink as

oriented stand board 12,

covered with the

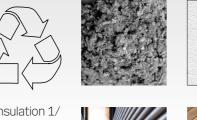
the facade

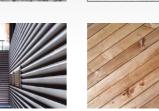
·11/ FLOOR LAYERS/ wooden floor 2cm membrane 1cm Oriented strand board 3cm Paper insulation/timber construction 20 cm CLAY-TEC 2cm 100% recyclable

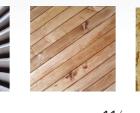


6/ SUPPORTING BEAMS · **BUILDING WILL NOT** EXCEED 20 TONNES ground level

REUSE APPROACH

















9/ FOUNDATIONS

4m width concrete disc







example of estate in TEMPERATE CONIFEROUS FOREST

The aim was to design a self-sufficient unit that would not require any connection to the local technical infrastructure. Thereby, the unit could be place anywhere in the world without disturbing local environment. All of the newest and sustainable technologies from the energetic industry