Living in a world with(out) oil
turning oil tanks into dwellings in a post oil world

Sanne Beckers
4298241

Section A 1:100

Section C 1:100

Section B 1:100
Living in a world with(out) oil
Turning oil tanks into dwellings in a post oil world

Sanne Beckers
4298241

Horizontal detail
1:20

Facade detail
1:20

Vertical detail
1:20

- 10 mm tiles, wood, people’s choice
- 30 mm Qualitherm OKO system with wood fiber
- 55 mm expanded cork
- 160 mm CLT
- 230 mm expanded cork
- 2 mm vapor-tight layer
- 25 mm plasterboard
- 50 mm gravel
- 2 mm silicone (waterproof layer)
- 230 mm expanded cork
- 2 mm vapor-tight layer
- 160 mm CLT
- 10 mm tiles, wood, people’s choice
- 30 mm Qualitherm OKO system with wood fiber
- 55 mm expanded cork
- 160 mm CLT
- 100 mm CLT
- 55 mm hemp
- 100 mm CLT

9250
5950
12550
Living in a world with(out) oil
Turning oil tanks into dwellings in a post oil world

Sanne Beckers
4298241

Detail A: tank’s wall sliding door 1:5
Detail C: roof 1:5
Detail D: street 1:5
Detail E: garage 1:5

- 20 mm steel tank wall
- 100 mm steel I-column
- 20 mm steel original tank wall functioning as sliding door
- 50 mm gravel
- 2 mm silicone (waterproof layer)
- 80 mm expanded cork
- 70 mm expanded cork
- 80 mm expanded cork
- 2 mm vapor-tight layer with glass fiber
- 160 mm CLT
- 50 mm steel from the original tank wall
- 2 mm silicone (waterproof layer)
- 170 mm hemp
- 10 mm tiles, wood, people’s choice
- 30 mm Qualitherm OKO system with wood fiber
- 55 mm expanded cork
- 160 mm CLT
- 80 mm expanded cork
- 70 mm expanded cork
- 80 mm expanded cork
- 2 mm vapor-tight layer with glass fiber
- 25 mm 2 layers of plasterboard
- glass folding facade
- wooden panels which can turn for privacy and sun protection
- 170 mm hemp
- 2 mm vapor-tight layer with glass fiber
- 25 mm 2 layers of plasterboard
- 15 mm tiles
- 2 mm silicone (waterproof layer)
- 80 mm expanded cork
- 70 mm expanded cork
- 80 mm expanded cork
- 2 mm vapor-tight layer with glass fiber
- 160 mm CLT

- Metal tubes to collect heat or cold from the steel wall
- ring foundation of concrete
- swivel wooden panels to protect against sunlight and give privacy
- solar chimney, in case the building should be extra ventilated when hot, and the mechanical ventilation is insufficient
- Doors in front of balconies can be closed for sun protection
- Floor heating system can be used as cooling system as well. Cool water is collected in the winter
- Metal tubes against the steel tank wall (see detail A + B) to collect heat in the summer, this is stored in two other oil storage tanks
- Mechanical ventilator with heat exchanger
- Mechanical air extraction is provided in all rooms connected directly to the shaft. In this bathroom a lowered ceiling is used
- Boiler
- W.M.

Climate Winter 1:50
Climate summer 1:50

Plan of a single large house 1:50

Due to two front doors connect to the street, there is also the possibility to create a business in a part of the dwellings

Options to split a dwelling in multiple dwellings:
- two staircases and shafts to ensure flexibility
- example of splitting 1
- example of splitting 2
- example of splitting 3
- example of splitting 4

Due to the street above common, it is not possible to create a second floor above the dwelling.