minimal skin

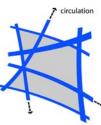
concept

The minimal skin is an all integrated solution for construction, installations and climatically separation. All these functions are integrated in one mould made of a transparent and flexible foil. The mould consists of several layers foil witch are mounted together. Filling the layers of the mould with different materials determines the overall properties of the skin.

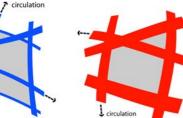
All materials are a fluid or gasiform when the mould is filled. For construction parts are hardening materials used e.g. concrete witch after hardening forms a firm skeleton. Installations and climatically separation consist of fluids or a gasiform e.g. water, air witch flow through the skin. All fillings are visible and abele to expand and shrink due to the transparent and flexible foil mould.



material properties: fixed function: construction



water filling material properties: fluid function: water-works

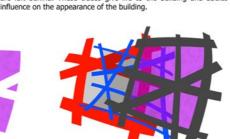


air filling material properties: gasiform



interaction

transforming filling material properties: slow reacting function: interaction



Except for the materials used for construction, installations and climatically separation

parts of the skin are filled with materials with a specific tactile sense. These materials transform by touching them through the flexible foil. Materials like gravel or jelly forms

keep the shape they are put in to for a short or longer time depending on their flexibility. These materials are used in the walls and floor, if a person has entered the space traces

are left behind. These traces give life to the building and abeles the user to have

combining layers

material properties: combination fixed, fluid, gasiform and slow reacting function: construction, installations, climatically separation and interaction

children sporting center

The building is made for children with a physical or mental disorder. The building should create an environment were the children can sport and develop. A place where the can learn and discover and be who the really are. Outside sporting facilities are e.g. football ground and a running track, inside facilities gymnasium, swimming pool and meeting

The design of the building is not fully finished as it is a part of my graduation witch is planed in September 2006.

The skin is the most important part of the building the skin is the building. It is the transition zone between inside spaces and inside and outside space. This transition zone witch varies in wide from 1 meter to 4 meter is a place of playing and discovering. A place were the children can retreat and make their own so the can feel safe in their







ground floor

outside facilities

football ground 90x120 m1 hockey ground 90x120 m1 tennis ground 33x17 m1 obstacle course 350 m2 running track 4x 400 meter play ground 500 m2

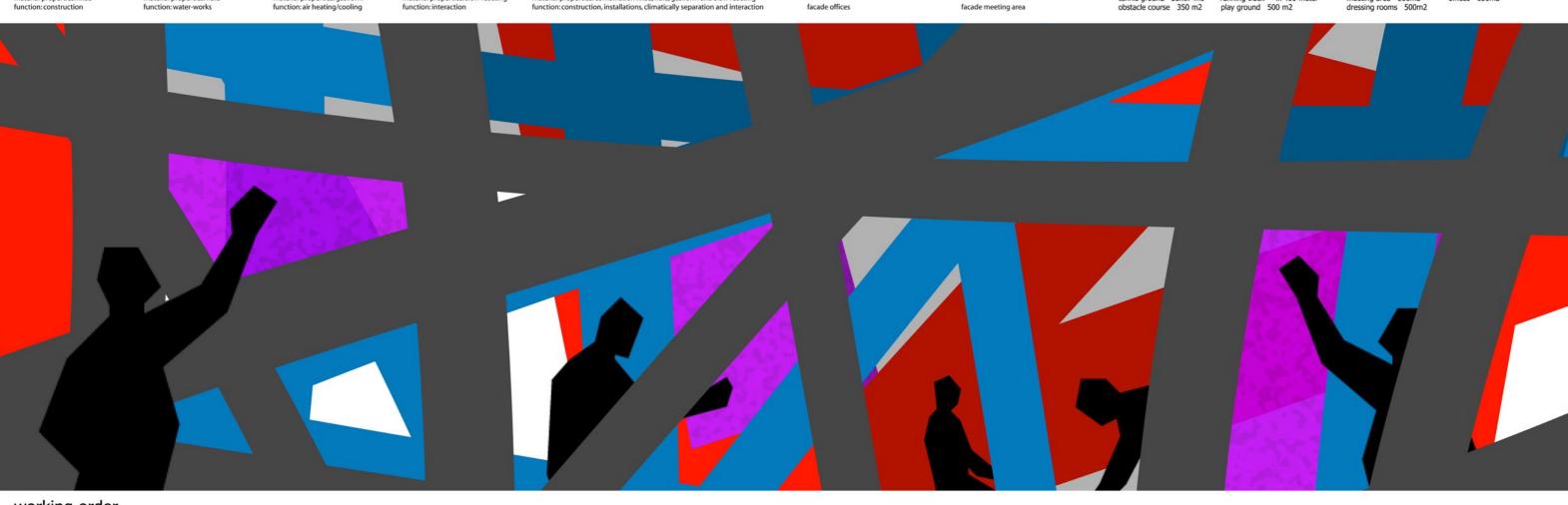


first floor

inside facilities

gymnasium 45x28x7 m1 meeting area 500m2 dressing rooms 500m2

swimming pool 25x15x2 m1 offices 150m2



working order

shaping

The flexible foil and different filling of the mould able the designer of the structure almost unlimited options. The shape of the building is divided in seg-ments witch are filled and put together on the building site



mounting

Segments consist of various layer transparent flexible foil witch are mounted together. A computerized mounting machine precedes





cutting

Excessive foil around the edges of the elements is cut away. Openings in the elements witch allow passing through the skin



filling

The elements are filled with concrete, for transport and placing the element some parts are filled with air.



connect the construction.

The elements are brought in to

place and connections are made. Interlocking "concert fingers"

shaping

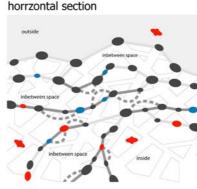


sections

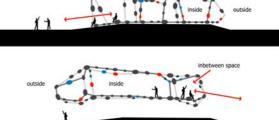
Several elements of transparent and flexible foil filled with different materials form a transition zone between inside and outside

By opening the layers a person can move through the open spaces in and out the skin.

Inflating or deflating parts of the elements can close parts of the skin. Interaction zones in wall through touching by users of the







vertical sections

section meeting area

setting

The skin is fully filled till the de-

termined shape is reached. When the concrete has hardened

parts of the skin cab be deflated.