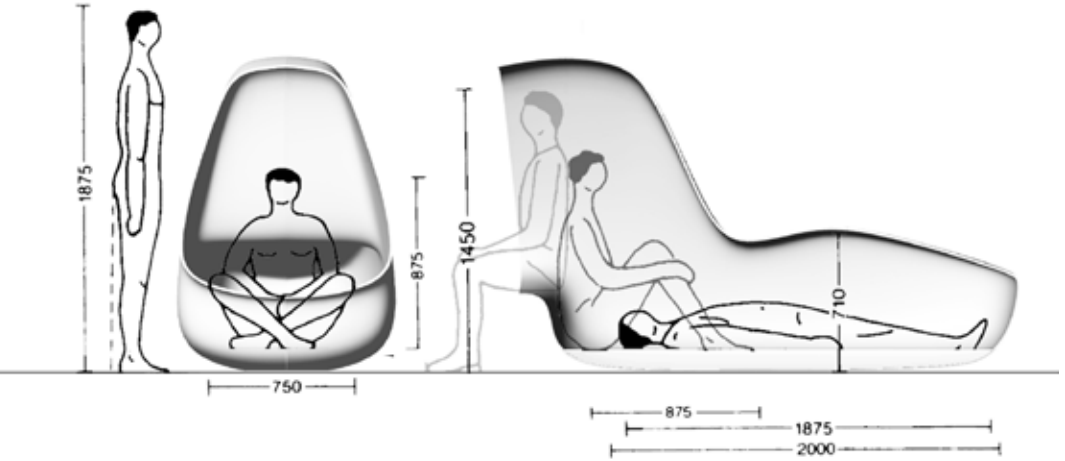
Chair for Computer Aided Architectural Design
www.caad.arch.ethz.ch

Sleepbox

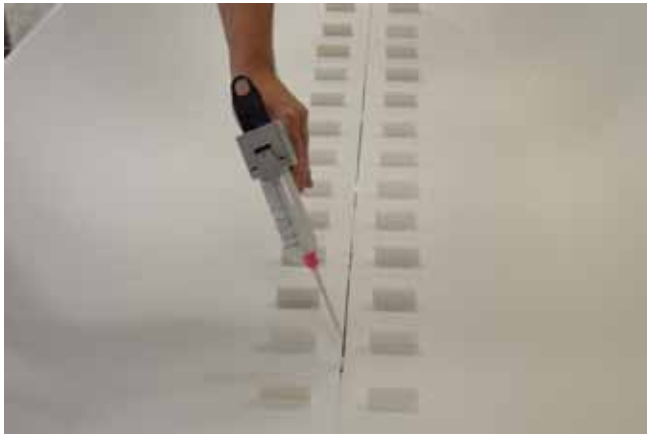
Sleepbox

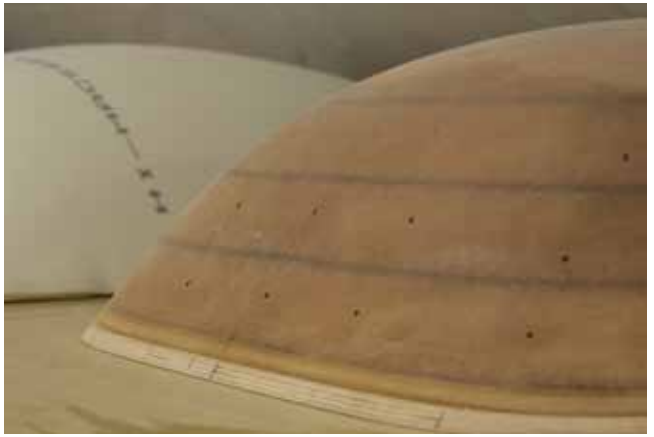
SleepBox represents a contemporary and organic piece of furniture, designed for the demands of an increasingly urbanised environment. A sinuous life-sized object which creates a place of comfort and relaxation within airports, offices or other semi-public areas, providing peace and quiet in busy urban environments.

The hard and uniform shell excludes the exterior and at the same time creates a soft and smooth interior. The project was designed by Caspar Lohner at the Chair for Computer Aided Architectural Design, ETH Zürich and it was produced in collaboration with Kläusler Acrylstein AG.



The free-form shell is made from HI-Macs, an extremely robust solid surface material, which can be thermoformed and visually seamlessly connected.
The necessary MDF moulds were produced on a three axis CNC mill at ETH Zürich's Raplab and the flat HI-Macs sheets then formed into shape using a vacuum membrane press.
After the material cooled down it exhibited the same properties as before deformation and could be further processed similar to wood. The eleven individual pieces were finally glued together to create a single homogeneous object.





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The piece was exhibited at ETH Zürich from October until November 2011 and shown from 17th to 21th January at Swissbau 2012, the most important meeting point for the construction and real-estate industry in Switzerland and one of the biggest specialist exhibitions in Europe.

Swissbau 2012 (Trendwelt Bad)
Stand Kläusler Acrylstein - HI-MACS®
Hall 2.2 – Stand A40
17th – 21st January 2012
Basel, Switzerland

Design:
Caspar Lohner

Supervision:
Mathias Bernhard, Manuel Kretzer

Contribution:
Andreas Aeschbacher, Vedren Brasnic, Nathalie Pietrzko, Bastian Schläpfer, Ankita Thaker, Alain Weber, Viviane Weber

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Manuel Kretzer, 2012