

# SleepBox

A contemporary and organic piece of furniture in HI-MACS®



**SleepBox** represents a contemporary and organic piece of furniture, designed for the demands of an increasingly urbanized environment. A sinuous life-sized object which creates a place of comfort and relaxation within airports, offices or other semi-public spaces, providing peace and quiet in busy urban environments. The solid, smooth and uniform shell is made of HI-MACS®, and contains a leather covered mattress.

The project was designed by **Caspar Lohner** at the **Chair for Computer Aided Architectural Design [CAAD], Department of Architecture, ETH Zurich**, supervised by Mathias Bernhard and Manuel Kretzer and produced in collaboration with **Kläusler Acrylstein AG**, who is the exclusive distributor for HI-MACS® in Switzerland.

The free-form shell is made from HI-MACS®, the architect choose the material thanks to its extraordinary properties: it's extremely robust, but it can be thermoformed and visually seamlessly connected – which was essential for this project.

**HI-MACS® Press Contact:**

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Caspar Lohner was in charge of each stage – from design to fabrication - of his first project using Solid Surfaces. He was both managing the project but also producing it with a team of students from the Department of Architecture, ETH Zurich with constant assistance of Kläusler Acrylstein, who supported with their expertise and technical resources. *“Every day was a challenge for me, but when something didn’t work, we tried and tried again until it was resolved. I learnt a lot about HI-MACS® fabrication possibilities thanks to this project”* says the designer.

The necessary MDF moulds were produced on a three axis CNC milling machine at ETH Zürich’s in-house facilities Raplab. The flat HI-MACS sheets then were thermoformed into shape using a vacuum membrane press. After the material cools down it exhibits the same properties as before and can be further processed in a similar way to wood. The eleven individual pieces were finally glued together to create a single seamless homogeneous object.

**SleepBox** will be exhibited from **17<sup>th</sup> to 21<sup>th</sup> 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

17<sup>th</sup> – 21<sup>st</sup> January 2012

Basel, Switzerland

**Design:** Caspar Lohner

**Fabrication:** Kläusler Acrylstein AG

**Supervision:** Mathias Bernhard, Manuel Kretzer

**Photos:** Manuel Kretzer

**Material:** HI-MACS®, Nordic White 12mm

Chair for Computer Aided Architectural Design / Prof. Dr. Ludger Hovestadt

[www.caad.arch.ethz.ch](http://www.caad.arch.ethz.ch)

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

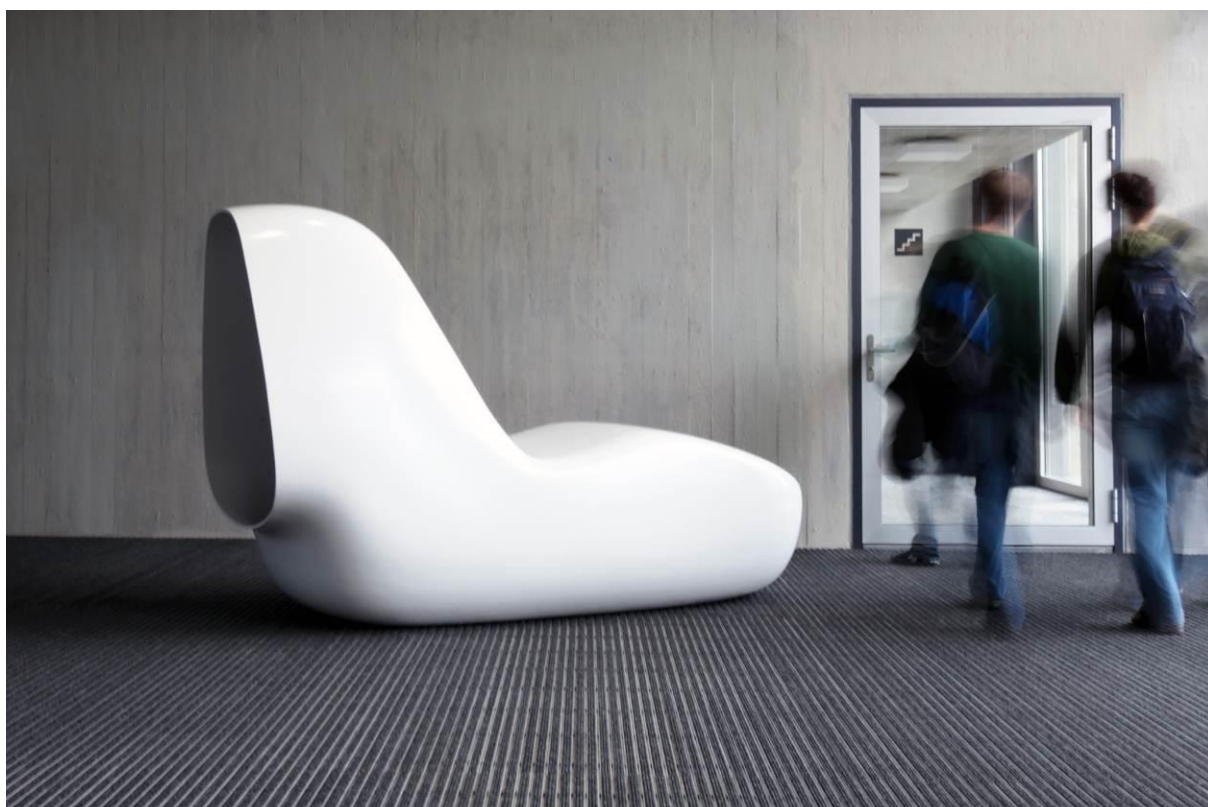
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High resolution photos at: <http://www.himacs.eu/press/photos/furniture-product-design>

***If you need further information or need additional images about the projects or product, please don't hesitate to request them at [www.himacs.eu/press](http://www.himacs.eu/press), or simply contact us.***

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## **HI-MACS<sup>®</sup> ADVANTAGES AT A GLANCE.**

The following properties make HI-MACS<sup>®</sup> stand out as the material of “New Generation”:

- **Virtually unlimited range of applications**
- **Countless possibilities for customized design (colour, formability, translucency, etc.)**
- **Valuable, laboratory-tested raw materials**
- **Advanced manufacturing techniques**
- **High-quality processing technology**
- **Ecological commitment**
- **Wide range of sinks and bowls**
- **Ease of maintenance thanks to dirt-repellent surfaces**
- **Resistance to common household chemicals**
- **Resistance to bacteria and viruses**
- **Fire resistance and low flame propagation properties**
- **Excellent value for money**
- **10 + 5-year warranty, the only one of its kind on the market**

*If you need further information or need additional images about the projects or product, please don't hesitate to request them at [www.himacs.eu/press](http://www.himacs.eu/press), or simply contact us.*

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## HI-MACS® Natural Acrylic Stone

**HI-MACS®** is the ***New Generation*** of solid surface. It is composed of 70% natural stone powder derived from bauxite, 25% high quality acrylic resin and 5% natural pigments. Designed and produced by **LG HAUSYS**, a world technology leader, it is distributed across Europe from **LG Hausys Europe** headquarters in Geneva.

It is a product of highest quality, and is inert and ecological. Its versatility allows users to mould and transform their ideas into reality with possibilities far beyond those offered by materials traditionally used in the world of architecture and design.

The most prestigious groups have adopted this product which adapts to the most demanding needs with its extraordinary characteristics; it is completely non-porous, has the highest level of durability and thus does not lose its colouring. It also has uniform thickness, allowing for perfectly imperceptible joints!

Easy to fabricate, **HI-MACS®**, with its excellent thermoformability properties, lets you adapt the material to the desired shapes and to create a range of designs that is nearly infinite.

**HI-MACS®** is used by the most prestigious companies, and many well-known architects and designers such as **Zaha Hadid, Jean Nouvel, David Chipperfield, Ron Arad, Marc Newson, Elke Delugan Meissl** and **Joaquín Torres**. Some of the most notable projects made out of **HI-MACS®** include the **Prado Museum** and the **Hotel Puerta América** in Spain, **Leonardo Glass Cube** and the **Porsche Museum** in Germany and the **Zara** flagship store in the Westfield Shopping Complex in London, UK.

**HI-MACS®** is available in more than 100 colours, comprised of the following ranges: **Solids, Granite, Sand, Pearl & Quartz, Volcanics, Lucent, Galaxy, Marmo**, and the new recycled range of colours **HI-MACS® Eden**. Eden is **GREENGUARD** Certified for indoor air quality as a “**Low Emitting Product**” which can help your projects achieve **LEED® credits** in sustainable design, under the Green Building Rating System managed by the **U.S. Green Building Council (USGBC)** – A clear benefit for constructing sustainable buildings.

**HI-MACS®** is manufactured in 3, 6, 9 and 12 mm thicknesses. Furthermore a wide range of sinks and bowls is available.

**HI-MACS®** is synonymous with the very best quality thanks to a production process that it is one of the world's most innovative, sourcing the finest materials that result in a harder, flatter more resistant product. Many international certifications backup the outstanding quality of **HI-MACS®** concerning environment, hygiene, fire resistance and processes as ISO 9001 and 14001, Greenguard, NSF, LGA and IMO MED (Module B and D), among others.

**HI-MACS®** is in a league of its own with its quality assistance, guaranteed by **Quality Club**, a network of expert and approved fabricators. Thanks to the quality of the material, we can offer the longest warranty package currently on the market: 10+5 years\*.

\* An initial guarantee of 10 years + an extension of 5 years if you register on our Internet site at [www.himacs.eu](http://www.himacs.eu)

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