



## Laminex®

HI-MACS® is distributed in Australia by Laminex Group Pty Ltd  
ABN 98 004 093 092, trading as Laminex®.

Call : 132 136  
Visit : [lghimacs.com.au](http://lghimacs.com.au)  
Email : [himacs@laminex.com.au](mailto:himacs@laminex.com.au)

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 **LG Hausys**  
Authorised distributor

[www.lghimacs.com.au](http://www.lghimacs.com.au)

# HI-MACS®

## Healthcare

 Acrylic Solid Surface

# Art serves as an inspiration to others.

Anyone who runs their hands along the contours of a virtually seamless installation made from HI-MACS® will want to use this material to convert their very best ideas into reality. The gentle curves, soft feel and the deep, elegant aesthetic appeal of the material awakens the imagination and inspires new plans and ideas. We have gathered a number of selected projects here, all of which are capable of inspiring and creating a desire to tread new paths.

HI-MACS® is the material of the new generation, inspired by architecture.

# Healthcare

HI-MACS® features a seamless application which can be useful for facilities such hospitals. This ensures easy maintenance and resistance to dust and dirt. HI-MACS® is non-porous, enabling hygiene to be maintained in environments where bacteria is present. Furthermore, the general selection of white colours adds to the sense of sterility in healthcare facilities.



## Dental Implant Clinic

Location : Bucharest, Romania

Design : Adriana Tihon/Atvangarde Surfaces,  
AMA Design, Amadesignstudio.net

Fabricator : Atvangarde Surfaces

Material : HI-MACS®, Alpine White S028, Opal S302



# Healthcare

Cleanliness and sterility is paramount in hospitals and laboratories and any materials used should also meet the strictest hygiene standards. Its internationally certified resistance to dirt, bacteria and numerous chemicals make HI-MACS® the first material of choice in the healthcare sector.

## Dove Spa in Hamburg

**Dove Spa in Hamburg**

- Location : Hamburg, Gemany
- Design : MAVEKO GmbH
- Fabricator : Likoo, Germany - Klöpfer Surfaces, Gemany
- Material : HI-MACS®, Alpine White S028



## Hospital Diakonessen

Perfect hygiene meets perfect formability.

HI-MACS® can be easily combined with other materials as displayed here, in the hospital chemist's, with light oak wood. The generous work surfaces are created smoothly from the easy clean Solid Surface Material, as if in one pour.

The picture below shows how the material can be reshaped in several dimensions and smoothly connected to shape a long band.



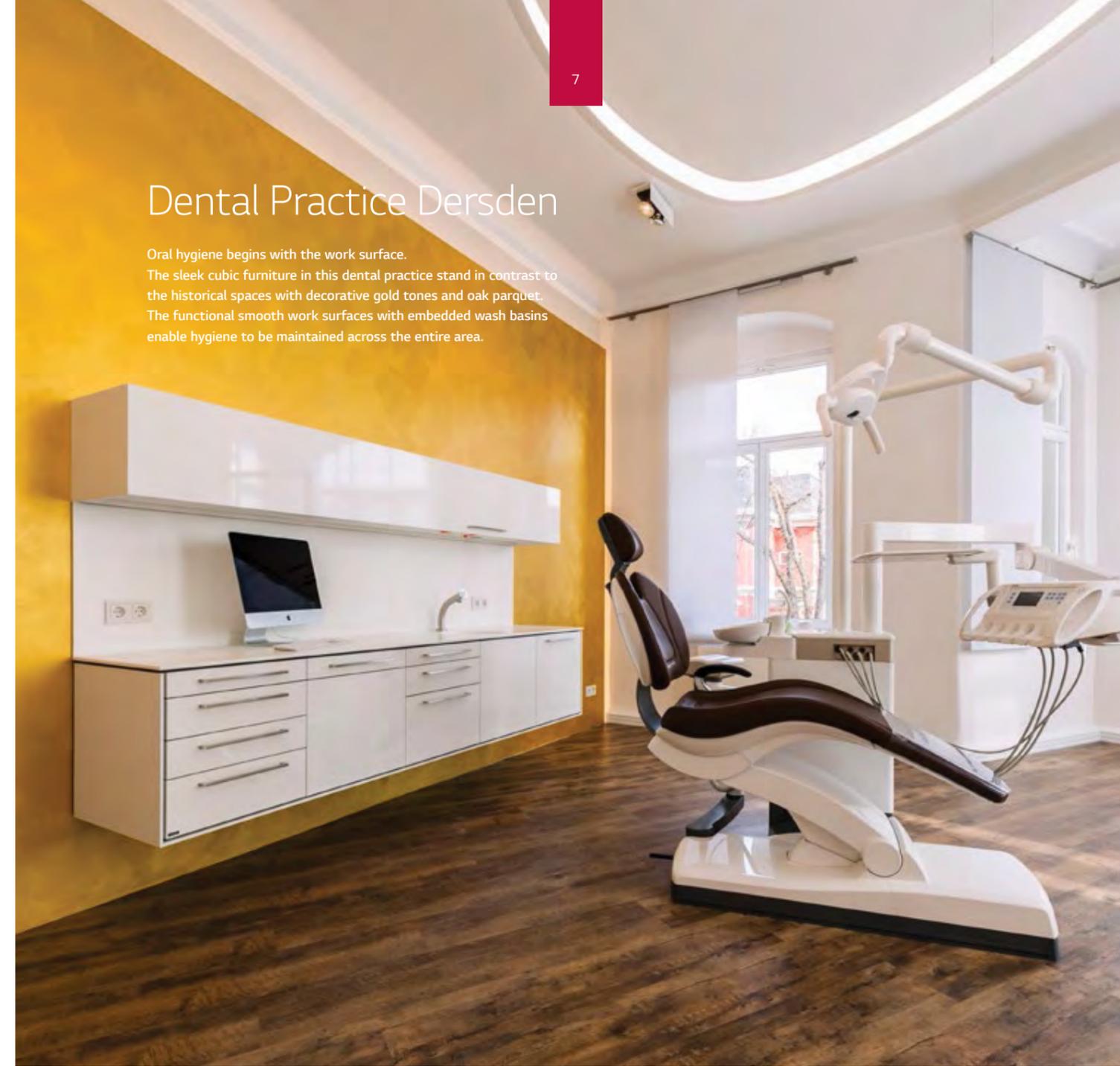
### Hospital Diakonessen

Location : Utrecht, Netherlands  
 Design : Inbo, Netherlands, inbo.com  
 Fabricator : Technoplanning, Netherlands,  
 technoplanning.nl - Baars & Bloemhoff,  
 Netherlands, baars-bloemhoff.nl  
 Material : HI-MACS®, Alpine White S028

## Dental Practice Dresden

Oral hygiene begins with the work surface.

The sleek cubic furniture in this dental practice stand in contrast to the historical spaces with decorative gold tones and oak parquet. The functional smooth work surfaces with embedded wash basins enable hygiene to be maintained across the entire area.



### Dental Practice Dresden

Location : Dresden, Germany  
 Design : Ivo Kindermann, Germany,  
 kindermann-architektur.de  
 Fabrication : Geilert GmbH, geilert-gmbh.de -  
 Klöpfer Surfaces, Germany,  
 kloepfer-surfaces.de  
 Material : HI-MACS®, Alpine White S028

# LCCA at Hospital Expo

Life-cycle cost analysis (LCCA) is a method for assessing the total cost of facility ownership. It takes into account all costs of acquiring, owning, and disposing of a building or building system. LCCA is especially useful when project alternatives that fulfill the same performance requirements, but differ with respect into initial costs and operating costs, having to be compared in order to select the one that maximises net savings.



**LCCA at Hospital Expo**  
Participants : LG Hausys - HI-MACS® and LCCA  
Location : VIPARIS - Porte de Versailles  
Photo : Massimo Pessina  
Material : HI-MACS®, Alpine White S028



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Photo : Massimo Pessina  
Material : HI-MACS®, Alpine White S028



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## Dental Practice

Location : Berlin, Germany  
 Design and Fabrication : Geilert GmbH, Germany, geilert-gmbh.de,  
 Klöpfer Surfaces, Germany, kloepfer-surfaces.de  
 Material : HI-MACS®, Alpine White S028

## Dental Implant Clinic

Location : Bucharest, Romania  
 Design : Adriana Tihon/Atvangarde Surfaces,  
 AMA Design, Amadesignstudio.net  
 Fabrication : Atvangarde Surfaces  
 Material : HI-MACS®, Alpine White S028, Opal S302



## Tomograph

Location : Russia  
 Fabrication : ArtCor  
 Material : HI-MACS®, Sapphire S303\*  
 \*colour not available in Australia





## Dental Practice Edelweiss

Perfect hygiene and optimum ease of care for all the equipment in the treatment area play a key role in doctors' surgeries. Countertops with flush integrated sinks are all made of HI-MACS®. A host of certificates are a testament to the outstanding suitability of HI-MACS®, specifically in the medical sector.



Location : Berlin, Germany  
 Design : KLM Architekten, Germany  
 Fabricator : Geilert & Kurth GmbH, Germany  
 Material : HI-MACS®, Alpine White S028





## Dental Surgery Zahnarztpraxis

### Dental Surgery - Zahnarztpraxis

Location : Bad Reichenhall, Germany

Design : Buer & Reif Dental GmbH

Fabricator : Geilert & Kurth GmbH  
and Fassadentechnik GmbH, Bad Salzungen

Material : HI-MACS®, Alpine White S028

## Medical Practice

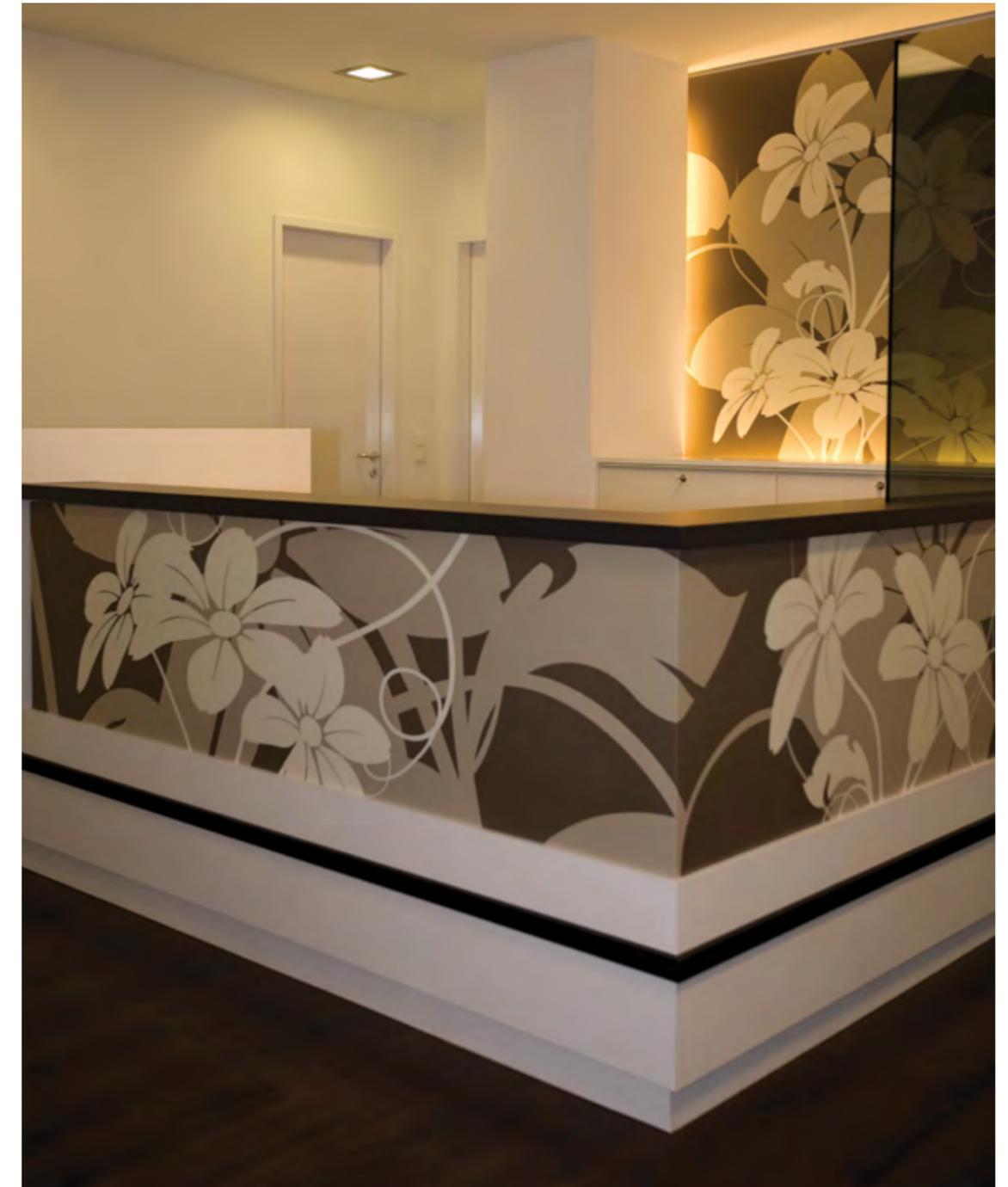
### Medical Practice

Location : Berlin, Germany

Design : Nathalie Alonso, Soner Pirasa

Fabricator : Kiebitzberg Möbelwerkstätten - Klopfer Surfaces

Material : HI-MACS®, Alpine White S028





#### Maternity

Location : Valencia, Spain

Design : AMA Arquitectura de Maternidades, Spain,  
arquitecturadematernidades.com

Architect : Angela Müller and Marta Parra

Fabrication : Jucalbe Carpinteria, Spain, jucalbe.com

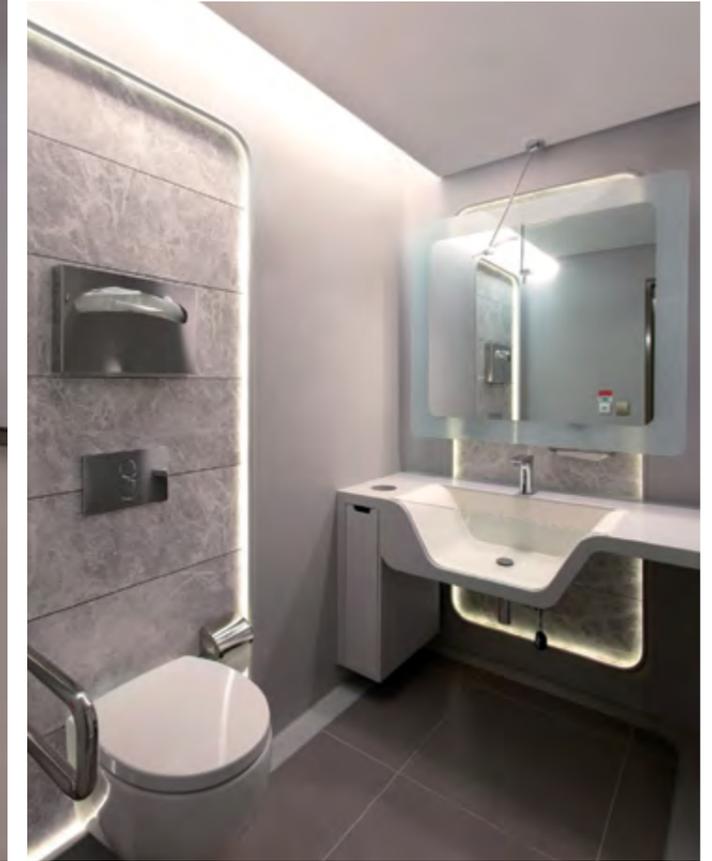
Material : HI-MACS® , Sky Blue S203\*

\*colour not available in Australia

## Maternity

The vanity top, wall and ceiling panels in this maternity hospital are made from a continuous 60 cm wide strip of HI-MACS®. The result is an ultra-hygienic piece of furniture incorporating seating and a bathroom – with integrated bowl and ceiling lights.

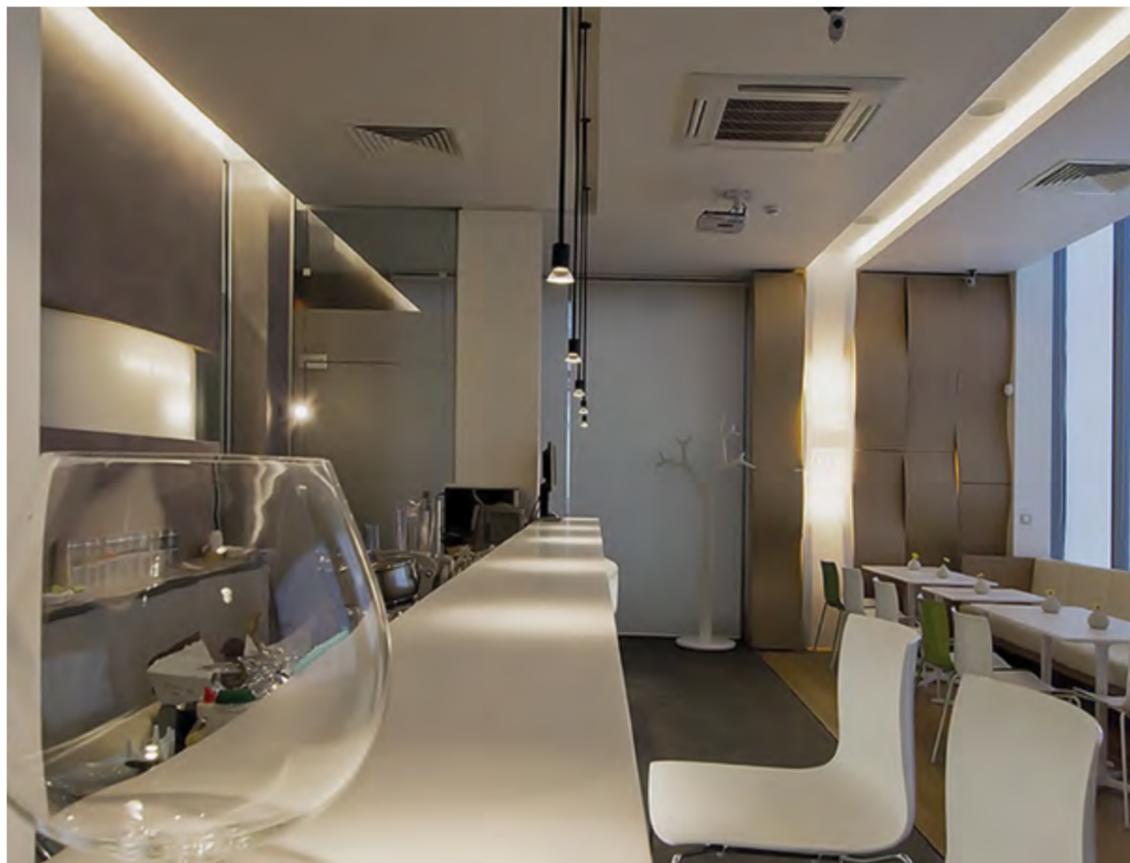




## Liv Hospital

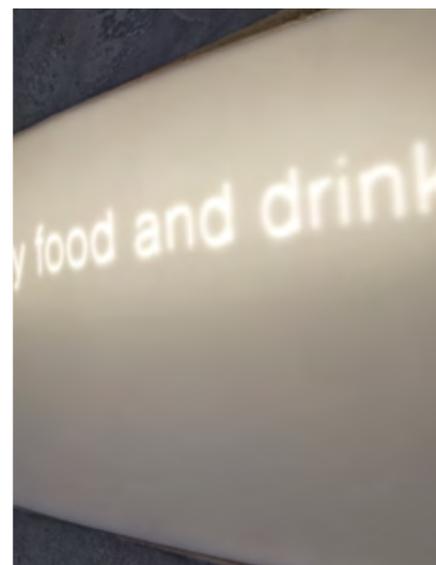
Design : Zoom Mimarlık  
 Location : Istanbul, Turkey  
 Fabricator : Gulsan Mobilya  
 Material : HI-MACS®, Babylon Beige S102\*, Crystal Beige G101, Ruby S304





# Mettasense Yoga Center

**Mettasense Yoga Center**  
 Interior Design : Fimera Design, Bulgaria  
 Location : Sofia, Bulgaria  
 Fabricator : Kohana, Bulgaria  
 Photo : Nora Angelova  
 Material : HI-MACS®, Opal S302



**Mettasense Yoga Center**  
 Interior Design : Fimera Design, Bulgaria  
 Location : Sofia, Bulgaria  
 Fabricator : Kohana, Bulgaria  
 Photo : Nora Angelova  
 Material : HI-MACS®, Opal S302



## Cardio Centrum Dusseldorf

Location : Dusseldorf, Germany

Design : bürger albrecht partner (bap), Wuppertal

Fabrication : Tischlerei Woodstar, Odenthal

Photo credit : bap / Wolf Birke, Wuppertal

Material : HI-MACS®, Alpine White S028





#### Imaderm Institute

Location : Geneva, Switzerland

Design : Patrice Reynaud Architectes

Fabrication : RS Agencement Steiner SA, kläusler acrylstein ag

Material : HI-MACS®, Arctic White S006, Satin White S001,  
Almond S002, Babylon Beige S102\*, Cream S009,  
Grey S005, Toffee Brown S104\*

\*colours not available in Australia

Photo credit© : Blaise Lambert

## Imaderm Institute

The aesthetic medical centre Imaderm, which opened its doors in 2011 in the heart of Geneva – in Switzerland - is a unique wellness area with a warm and welcoming atmosphere designed to ensure a cosy and elegant ambiance for its exclusive customers. All its areas use the Solid Surface HAIC-SM® in different natural, warm and neutral colours.

#### Imaderm Institute

Location : Geneva, Switzerland

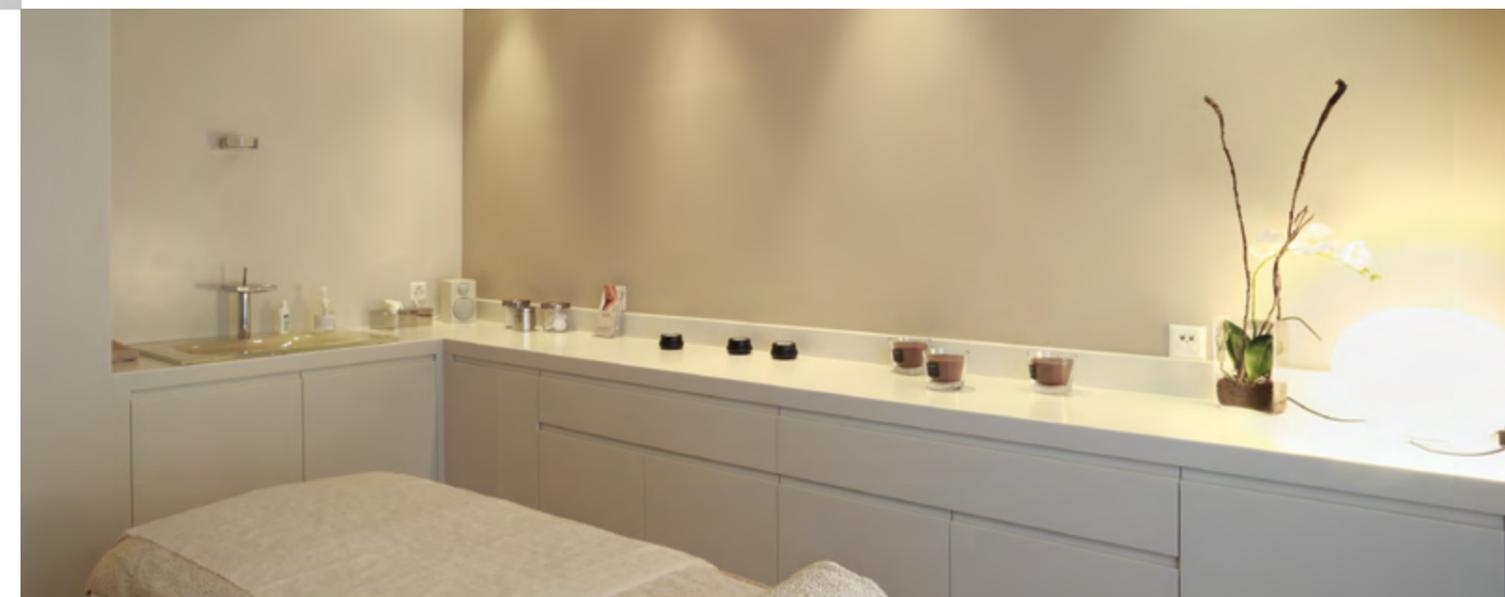
Design : Patrice Reynaud Architectes

Fabrication : RS Agencement Steiner SA, kläusler acrylstein ag

Material : HI-MACS®, Arctic White S006, Satin White S001,  
Almond S002, Babylon Beige S102\*, Cream S009,  
Grey S005, Toffee Brown S104\*

\*colours not available in Australia

Photo credit© : Blaise Lambert





## Samitivej Hospital

Location : Sukhumvit,Thailand  
 Designer : Rafa Interior  
 Materials : HI-MACS®, Perna White P001, Grey S005

## Niño Jesús Hospital

Easy-care and optimistic.

The requirements governing the use of materials in the hospital sector are challenging and extensive. The architecture should have an even more positive and optimistic appearance than usual if children are to be treated in the hospital. Bright and cheerful motifs can be directly printed on the HI-MACS® surface for a great visual effect!



Location : Maktub Centre, Madrid, Spain  
 Designer : Elisa Valero, Spain, elisavalero.com  
 Fabrication : Muebles Maderama, Spain, maderama.net  
 Materials : HI-MACS®, Alpine White S028



# Healthcare Advantages

HI-MACS® features a seamless application which can be useful for facilities such hospitals. This ensures easy maintenance and resistance to dust and dirt. HI-MACS® is non-porous, enabling hygiene to be maintained in environments where bacteria is present. Furthermore, the general selection of white colours adds to the sense of sterility in healthcare facilities.



**Cardio Centrum Dusseldorf**  
 Location : Dusseldorf, Germany  
 Design : bürger albrecht partner (bap), Wuppertal  
 Fabrication : Tischlerei Woodstar, Odenthal  
 Photo credit : bap / Wolf Birke, Wuppertal  
 Material : HI-MACS®, Alpine White S028

## Outstanding features abound. A compelling material.



### Seamless Perfection

HI-MACS® allows for visually seamless fabrication. Smooth integration enables areas without visible joints or edges as well as the flush mounting of bowls. This results in extremely hygienic, easy to clean installations, ideally suited for use in hospitals and laboratories.



### Huge Colour Spectrum

Colour selection is a crucial factor when it comes to high quality- design. HI-MACS® offers an enormous range of colours. No matter what colour you choose, HI-MACS® remains 100% homogenous.



### Three-Dimensional Design

HI-MACS® boasts a simple heating process and three dimensional thermoforming capabilities. This enables greater forming flexibility compared with other conventional materials so that spectacular ideas can quickly take on a concrete shape. The new HI-MACS® Ultra Thermoforming formula allows the material to be better shaped; the minimal internal radius of as low as 6mm opens a whole design dimension.



### Dramatic Translucency

Certain colours and thicknesses of HI-MACS® exhibit a subtle translucency when exposed to light. The translucent properties of HI-MACS® make it the perfect choice for lamps and illuminated furnishings.



### Simple Processing

Although HI-MACS® is almost as robust as stone, it can be worked in the same way as wood. Using conventional carpenters' tools, this solid surface material can be sawn, routed or drilled. Thanks to the new Thermalcure-technology, the surface of HI-MACS® performs better than the standard in Solid Surface. You save precious time because it is easier to work with.

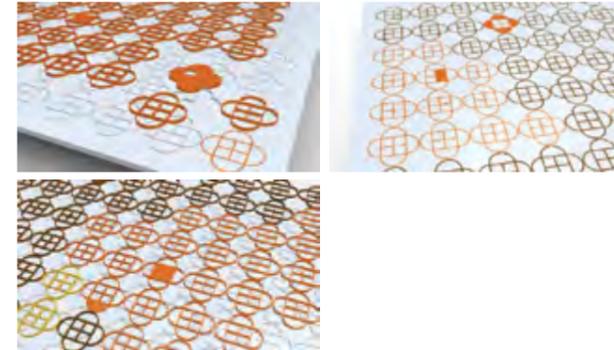
# Fabrication

HI-MACS® is composed of superior raw materials and is manufactured using state of the art processes. Its material quality is evident from manufacturing through to fabrication and installation.



## Design Process

CAM process to CNC operation for 3D,2D MDF mould production with design materials (ex. Surface file)



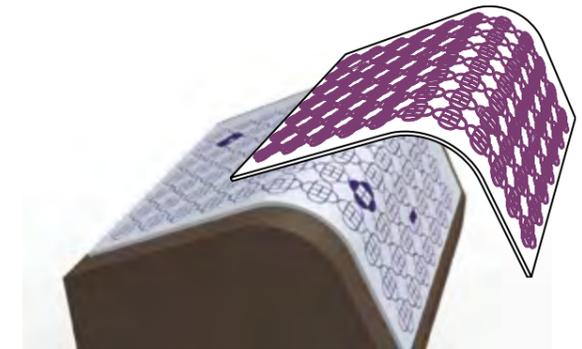
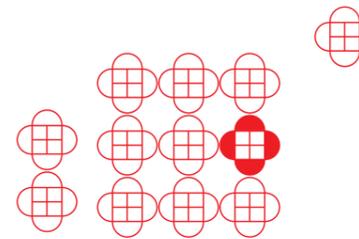
## Mould Making

3-AXIS CNC, 5-AXIS CNC



## Pattern

3-AXIS CNC  
Pattern expressed with inatglio and embossed carving.



## MOULD



## HEATING

Heating Machine



## VACUUM PRESS

Thermoform vacuum machine with silicon

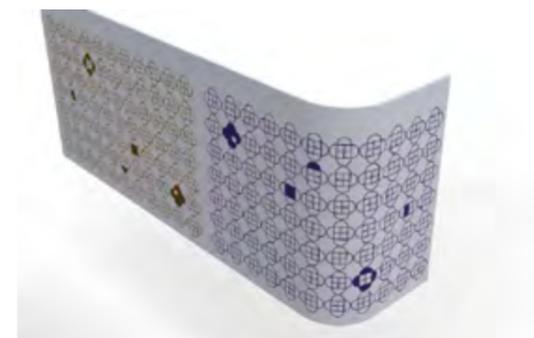


## CNC

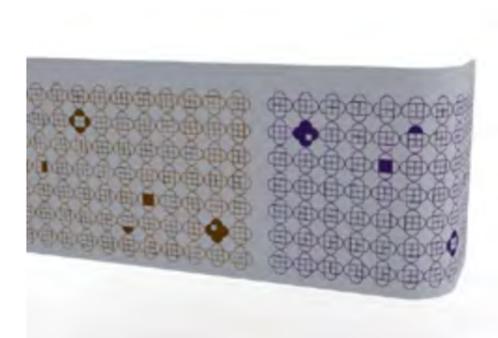


## Installation and Construction

### ADHESION SANDING



### INSTALLATION CONSTRUCTION



# Technical Reports & Certifications

Numerous internationally recognised certificates have been awarded to HI-MACS® that attest to its product quality with respect to ecological commitment, hygiene and fire resistance. It is also the first Solid Surface in the market to receive the official European Technical Approval (ETA) for the colour Alpine White S028.



Shaping the future.  
In harmony with the environment.

- **Composition:** Aluminium trihydroxide, the main component of HI-MACS®, is a bi-product of aluminium production.
- **Manufacturing:** The production of this material is marked by an excellent energy balance. In addition, HI-MACS®Cheongju (Korea) and Atlanta (USA) meet all environmental standards.
- **Processing:** The material allows for virtually waste-free processing.
- **Commitment:** LG Hausys conducts and publishes regular environmental audits along with energy consumption analyses. Thanks to the use of nonpollution fuels, greenhouse gas emissions have been cut by 15,000 tons per year since 2008.

# Numerous internationally recognised certificates.



## Technical Report

1. Test Report
  - 1\_1) Test Report\_HI-MACS(Solid)
  - 1\_2) Test Report\_HI-MACS(Granite)
  - 1\_3) Test Report\_HI-MACS(Volcanics)
  - 1\_4) Test Report\_HI-MACS(Volcanics Natural)
  - 1\_5) Test Report\_HI-MACS(Galaxy\_Aster)
  - 1\_6) Test Report\_HI-MACS(Marmo)
2. Stain Resistance Test\_by QAI
3. Chemical Resistance Test
  - 4\_1) Chemical Resistance Test.I\_HI-MACS(G34)\_by KTR
  - 4\_2) Chemical Resistance Test.I\_HI-MACS(G47)\_by KTR
  - 4\_3) Chemical Resistance Test.I\_HI-MACS(S104)\_by KTR
  - 4\_4) Chemical Resistance Test.I\_HI-MACS(VB21)\_by KTR

## Fire Resisting Test

1. Fire Resisting Test\_Building Material\_Class B1
  - 1\_1) Fire Resisting Test\_Building Material\_Class B1(HI-MACS 9mm)
  - 1\_2) Fire Resisting Test\_Building Material\_Class B1(HI-MACS 12mm)
2. Fire Resisting Test\_M1
3. Fire Resisting Test\_by warrington fire
4. Fire Resisting Test\_Marine Equipment Directive\_MED B
5. Fire Resisting Test\_Marine Equipment Directive\_MED D

## ISO/OHSAS

1. ISO\_LG Hausys, Ltd.\_SE\_9001
2. ISO\_LG Hausys, Ltd.\_SE\_14001
3. OHSAS\_LG Hausys, Ltd.\_SE\_1800

## Environmental Certification

1. HB\_Certificate
  - 1\_1) HB\_Certificate of Environmental Building Material \_by KACA
  - 1\_2) HB\_Certificate of Environmental Building Material\_Test RepoCrAt\_by KA
2. GreenGuard\_Certificate\_Gold Standard
  - 2\_1) GreenGuard\_Certificate\_Gold Standard\_HI-MACS
  - 2\_2) GreenGuard\_Certificate\_Gold Standard\_HI-MACS\_Volcanics
  - 2\_3) GreenGuard\_Certificate\_Gold Standard\_HI-MACS\_Eden Plus
  - 2\_4) GreenGuard\_Certificate\_Gold Standard\_HI-MACS\_Adhesive
3. SCS\_Certificate (LEED)
  - 3\_1) SCS Certificate\_Recycled Content(35%)
  - 3\_2) SCS Certificate\_Recycled Content(10%)
  - 3\_3) SCS Certificate\_Recycled Content(6%)
4. NSF Standards
  - 4\_1) NSF International
  - 4\_2) NSF\_Official Listings as of Oct. 26, 2015
5. HPD (Health Product Declaration)
  - 5\_1) LG Hausys\_HI-MACS\_HPDP
  - 5\_2) LG Hausys\_HI-MACS\_Volcanics\_HPDP
  - 5\_3) LG Hausys\_HI-MACS\_Eden Plus\_HPDP