



Website
www.himacs.com



Play Store
Google



App Store
Apple



HI-MACS®

Free your Creativity 2nd Edition



www.himacs.com

HI-MACS®

Free your Creativity
2nd Edition



Acrylic Solid Surface



LG Hausys HQ (Seoul, Korea)
E-mail : surfaceinfo@lghausys.com

LG Hausys America, Inc. (Atlanta)
LG Hausys Europe GmbH (Frankfurt)
LG Hausys China Trading Co., Ltd. (Shanghai)
LG Hausys Russia, LLC (Moscow)
LG Hausys India, Ltd. (New Delhi)
LG Hausys Middle East Office (Dubai)
LG Hausys Turkey Office (Istanbul)
LG Hausys Indonesia Office (Jakarta)
LG Hausys Vietnam Office (Hochiminh)
LG Hausys Japan Office (Tokyo)

The information contained in this document is intended to be for information only and can be amended at any time without prior notification.
© LG Hausys All rights reserved.

Free Your Creativity 2nd Edition - HI-MACS® General Catalogue
Date of Issue : July 2018
Publisher : LG Hausys Surface Material Division
General Planning : Professional - Swan Seungwon JUNG 
Supporting : Chaeun SONG

LG Hausys



03	Introduction HI-MACS®	
06	2018/19 Design Trend	
14	New Product	
18	New Color Proposal	
24	HI-MACS® Product	
31	HI-MACS® Project Gallery	
	Facades and Wall Cladding	32-37
	Public Buildings and Offices	38-43
	Hospitality and Gastronomy	44-47
	Shops and Exhibitions	48-49
	Healthcare	50-51
	Living Spaces	52-53
	Kitchen	54-55
	Bath	56-57
	Furniture Design	58-59
	Outdoor	60-61
	Education	62
	Marine Industry	63
	Airport	64-65
	Best of the Last Decade	66-67
68	Colors	
70	Specification	
71	Fabrication & Installation	
72	Customer Service Network	
74	Technical Report & Certificate	



Image: © Petr Krejci

What is HI-MACS®?

An outstanding material.

HI-MACS® is a delicate composition of acrylic, minerals and natural pigments that combine to create a smooth, non porous, thermoformable and visually seamless surface.

The material meets the highest standards for quality in all aspects: material performance, fabrication, functionality and hygiene. Thanks to these qualities and the outstanding flexibility in fabrication and design, HI-MACS® offers countless advantages over conventional materials.

And an ongoing inspiration.

We have gathered a number of projects here, all of which are capable of inspiring and creating a desire to tread new paths.



enLIGHTen - Design by Studio Thier&vanDaalen - Transitions II - Milan Design Week
Material: HI-MACS®, S028 Alpine White, S022 Black, W002 Cloud
HI-MACS® Supplier: Baars & Bloemhoff

Outstanding features abound. A compelling material.

Although HI-MACS® is almost as robust as stone, it can be worked in the same way as wood. It lends itself to the creation of an endless variety of multi-dimensional forms and much, much more.

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. HI-MACS® Ultra-Thermoforming formula allows the material to be

better shaped; the minimal radius of 18 mm (previously 50 mm) opens a wholly new design dimension.

Seamless perfection



HI-MACS® allows for visually seamless manipulation. Smooth integration enables large areas without visible joints or edges as well as flush mounting of sinks or bowls. Not only do objects made from this solid surface material appear to be works of art cast from a single mould, the material's seamless manipulation and non porous nature create surfaces which are extremely

hygienic, easy-to-clean and thus ideally suited for use in hospitals and laboratories. The seamless finish also allows for repair and replacement without a visible trace should any part of HI-MACS® installation be damaged at any time.

Dramatic translucency



Certain colors and thicknesses of HI-MACS® exhibit a special translucency when exposed to light. Various textures and patterns can be built into the material to intensify the HI-MACS® translucency effect. Depending on the light source, pattern and design, spectacular cut-out effects can add visual interest and create a

completely new sense of space. The translucent properties of this solid surface material make it the perfect choice for lamps and illuminated furnishings.

Unlimited color spectrum



Along with choice of material, color selection is a crucial factor when it comes to high-quality design. Elegant White, warm Toffee Brown, bold Orange, mystical Cima, trans-lucent pastels or fine shimmer textures. HI-MACS® offers a virtually limitless range of colors in many shades.

More are being added every year, no matter what color you choose, HI-MACS® remains 100% homogeneous.

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. It lends itself to the creation of an endless variety of multi-dimensional forms and much, much more.

No wonder most people working with the material have a background in woodworking and appreciate HI-MACS® as a natural partner for innovative ideas.

PROVOKE

In a "post-truth" society, where emotions and appeals to personal convictions have greater influence on public opinion than objective facts, emotion-based images are becoming more important than rational concepts. However, there is also an overabundance of incendiary and "noisy" information inundating media outlets, due to people's predilection for excessively emotional stances that reject deep contemplation.

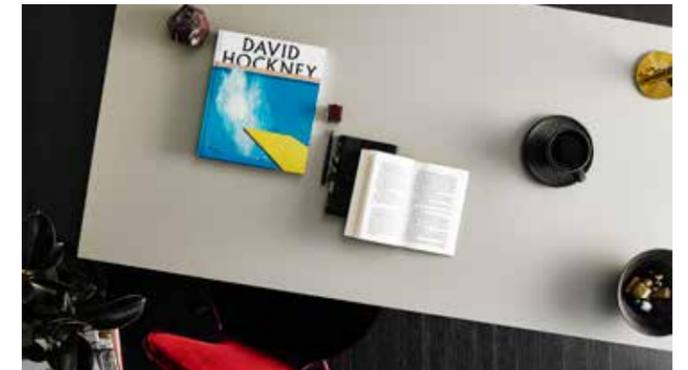
Today's new generation of activists, which emerged amid the growing demand for change in an illogical social atmosphere, actively defend their beliefs and values based on a firm foundation of digital unity and enlightened intellect and forge "wise" coalitions that span different regions and generations based on the common values of compassion for others and respect for culture.

The 2018/19 LG Hausys seminar focused on an independent lifestyle that encourages people to think critically and act rationally in order to bring about positive change in an era of chaos. And explore the effects that their values (dreams, love, compassion, solidarity, etc.) have on space and design.



Theme A
Drama

Last season's jungle mood, which featured densely packed trees and exotic plants, has now been transformed into a lively garden filled with beautiful flowers and insects.



Theme B
Liber

The concept of silence is also connected to the minimal and quiet Eastern psyche, as can be seen in the emergence of Oriental style.



Theme C
Ally

Today, the ability to find and harmonize points of intersection among diverse local cultures is becoming a skill of growing importance.

Drama



Last season's jungle mood, which featured densely packed trees and exotic plants, has now been transformed into a lively garden filled with beautiful flowers and insects.

Terrazzo, which was popular in the 1990s, has recently become trendy once again. With a colorful pattern that looks like it was created with cut-out pieces of construction paper, terrazzo looks less classical than marble while also having a dynamic and fun mood. A table set with beautiful, fragrant flowers. The sight of these real-life metaphors for the apex of life seems to magically brighten anyone's mood.

Color

The basic colors of this theme are combinations of natural pastels and wood colors that give off a cozy vintage mood, with the key colors being a toned-down blossom pink, blue-green, and deep green that resembles a farm pasture. Diverse combinations of toned-down pastels are laced with sage green and pink. The use of orange and yellow tones as the highlights of this 1950s-inspired color palette conveys a warm, positive mood.

Pattern

The countryside house-type atmosphere is maximized using patterns taken directly from nature. This theme focuses mainly on romantic motifs such as flowers, butterflies, and honeybees, rough yet natural designs found in raw stones, and patterns devoid of all things artificial (e.g. woodgrain) to emphasize their natural materiality. Details that give off analog sentiments, including repetitive geometric motifs, tassels, and fringe, are predominant here.

Material

Cherry-colored wood, which radiates an especially deep and glossy color due to the lacquer, has become popular once again. Soft silk and velvet that shines with a subtle glow that varies depending on the viewing angle are used here to emphasize femininity. While marble continues to be popular, terrazzo has emerged as a major player due to the energetic image created by its colorful chips.

Liber



Color

Powdery blue creates an intellectual and calm foundational mood, while spicy coral and toned-down red, which give off a distinct Eastern mood, are used together with a natural wood-like tone as the central color palette of this theme. The use of gray as the base color and white that looks as if it has been stained creates a minimalist atmosphere, while the classic copper hue adds depth to this theme.

Pattern

The predominant "pattern" here consists of minimal, sleek lines that emphasize an aesthetic of restraint. Geometric and structured motifs based on thin lines combined with flowing curves that emphasize natural beauty serve to add sensibility to an otherwise simple space.

Material

This theme focuses on soft and cozy-looking textures that offer a sense of comfort. The "natural look" of organic materials, such as leather and wood, intermingled with highly cushioned materials adds a dignified air to the space while also effectively representing the concept of silence. In addition, metals and ceramic materials serve to accentuate the modern image.

The concept of silence is also connected to the minimal and quiet Eastern psyche, as can be seen in the emergence of Oriental style. In an era of extreme noise, the immense ripple effect brought about by the freedom of speech has led modern people to seek out their "right to quiet." The emergence of the silent reading trend has created the need for private spaces where people can separate themselves from others. As reading is an act of quiet contemplation, designs that embody comfort and privacy to complement and support this act have recently been attracting greater attention.



Color

The overarching color palette of this theme consists of lively and energetic colors taken from nature: terracotta brown, coral, earth brown, yellow reminiscent of the African sun, and blue inspired by the Mediterranean. These colors, which are full of positive energy, represent local culture and can be expanded to create an infinite range of colors by combining them freely with colors that are prominent in other cultures.

Pattern

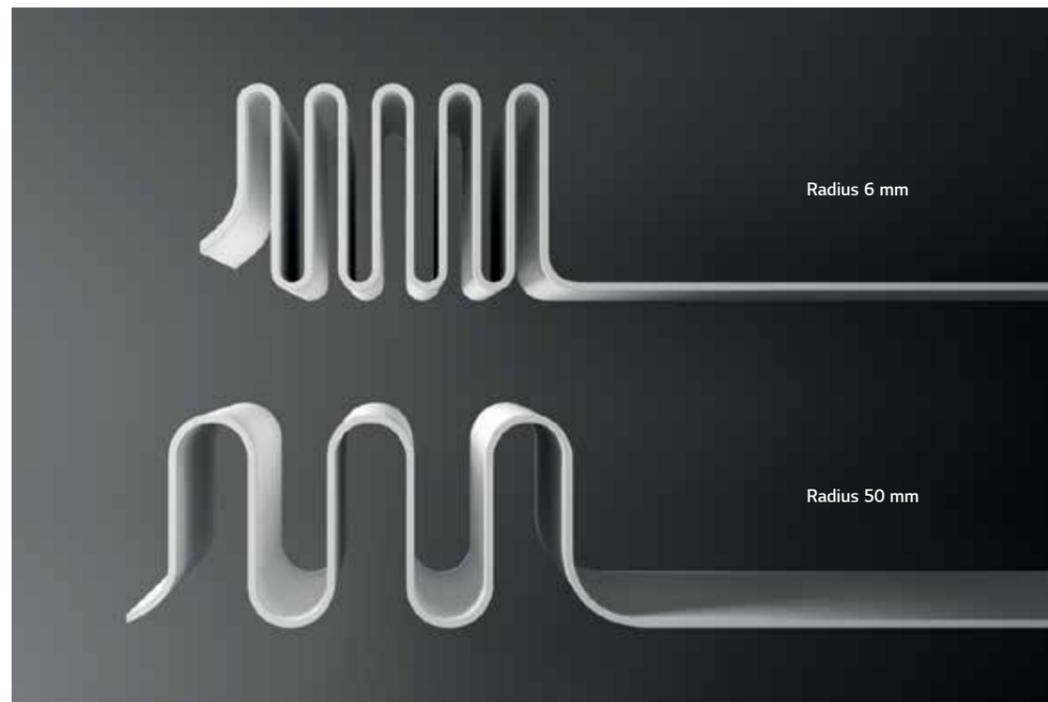
Handicrafts with geometric patterns similar to those of tribal cultures and diverse designs inspired by woven cloth and knots possess a "realistic" texture that has a consoling effect on their owners. Aquatic patterns based on ocean waves and belted designs inspired by foreign travels are also major elements of this theme.

Material

Traditional rattan and cane (which come from tree trunks) and rustic wood with a rough texture are the key materials of this theme. Items that involve the use of clay (terracotta and ceramics) and materials such as glass or resin that mirror the translucence of water are currently gaining attention. Potted cacti, which have been popular interior decoration items for the past several years, and plants such as dried flowers and branches are used to accentuate the moods.

Today, the ability to find and harmonize points of intersection among diverse local cultures is becoming a skill of growing importance. This is a space inspired by the colors of the desert. Colors that bring to mind earth, faded sand, and dry branches reveal an unexpected beauty through the use of elegant materials. Here, a mood that emphasizes the feel of raw materials (which are themselves designs) creates an exotic image. Reflecting the increased demand for a variety of textures, woven and macrame handicrafts are used as the main items.

Ultra-Thermoforming HI-MACS®



Innovation I: A new and unique incarnation of HI-MACS® enables amazing thermoforming qualities.

HI-MACS® Ultra-Thermoforming is a new HI-MACS® formula - available in Alpine White, 12 mm thick sheets - which transforms three-dimensional designs, by allowing radii of just 18 mm. This, compared to the usual curvature of 50 mm, means far more precise designs can be achieved. The sheets are available in 760 x 3680 mm sizes.

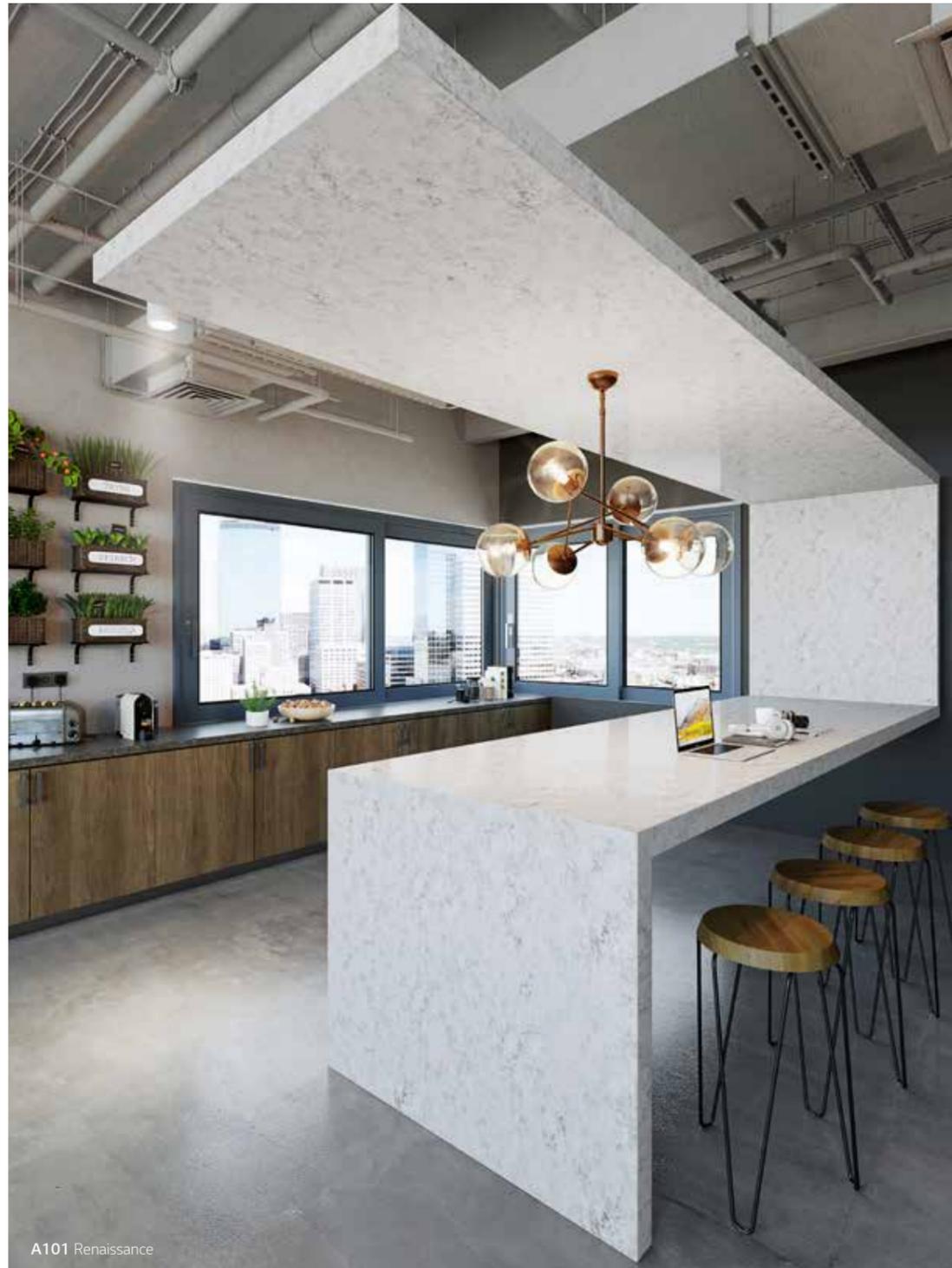
Innovation II: The new, high-performance adhesive is more viscous and bonds better, with enhanced UV qualities.

LG Hausys have also enhanced their adhesive, which now comes with better adhesive qualities, has a higher viscosity to eliminated dripping, and also has a better UV resistance.



ARTE

The natural marble such as Carrara and Calacatta are already too famous in the world, and it is widely used for both of residential and commercial spaces. New HI-MACS® product line-up [Arte]'s soft tone-on-tone feeling expresses the luxurious aspect like natural marble. Random vein pattern gives natural feeling even when it is jointed each other.



A101 Renaissance



A102 Baroque



A102 Baroque



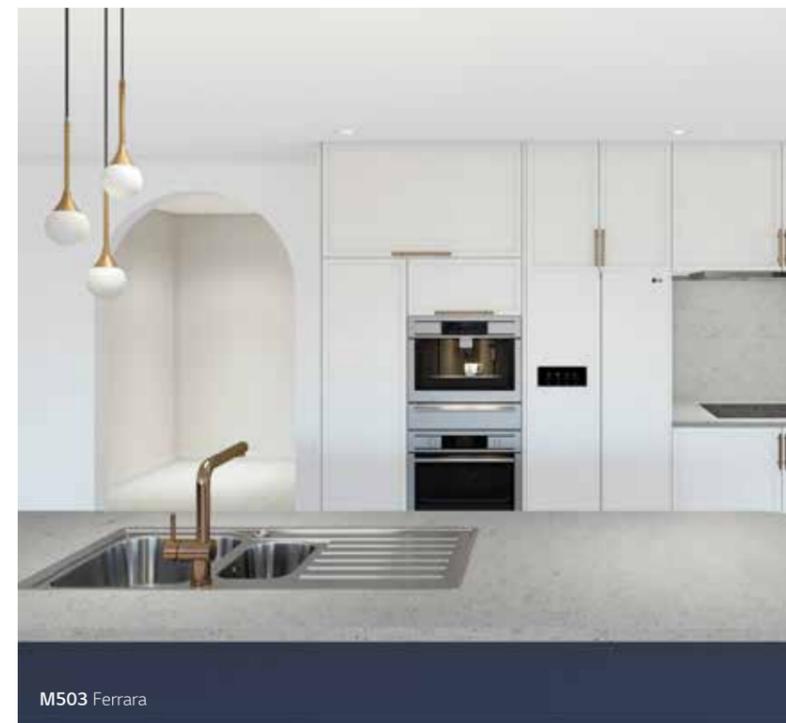
Joint Part

A101 Renaissance

MARMO

It is Marmo's new product line. It was inspired by Italy's nature, and mixed and matched the tone-on-tone neutral colors and the rough texture of the basic natural materials just right.

As the soft-tone base and vein patterns of all three new colors are not heterogeneous and gently merge into each other, they are harmonized, and upgrades the overall atmosphere of the space luxuriously.



VOLCANICS REAL

The new Volcanics Real realizes a natural and high-class design by means of the solid depth of natural stones and plenty of clear particles.
The delicately mixed neutral color is in natural harmony with the modern space.

It adds a stately and resonant presence to the space, and as it is filled with the energy of nature, it is a dynamic and creative product.



VS11 White Calizo



VS12 Light Calizo



VS13 Gray Calizo



VS11 White Calizo



VS12 Light Calizo



VS13 Gray Calizo

CONCRETE Collection

The 'New Concrete Collection,' newly introduced by HI-MACS®, is an interior marble that delicately realized the rough texture of the unprocessed concrete.

The New HI-MACS® Concrete Collection originated from the desire to break away from the existing stereotype, and return to the plain basics. The minimal monotone color of the Concrete Collection is a challenge to modern splendor, and means a return to the industrial age like the unpainted white canvas.



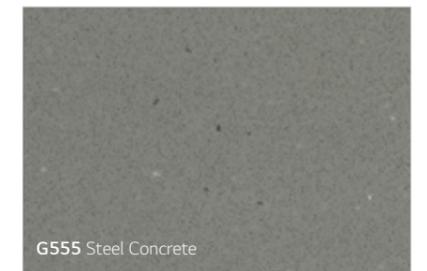
G554 Urban Concrete



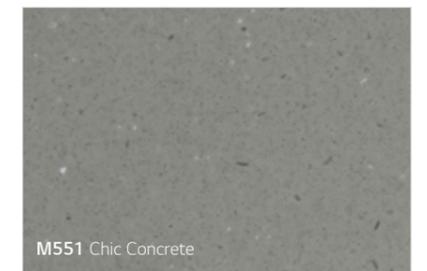
M551 Chic Concrete



G554 Urban Concrete



G555 Steel Concrete



M551 Chic Concrete



G555 Steel Concrete



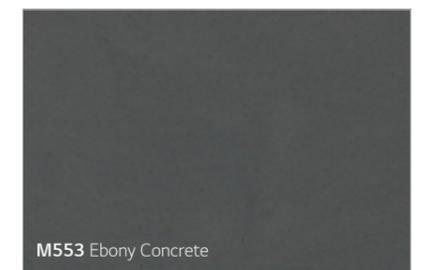
M552 Shadow Concrete



M552 Shadow Concrete



M553 Ebony Concrete



M553 Ebony Concrete

MARMO

Color & Patterns

You will be captivated by sophisticated texture, reminiscent of marble. The feel of natural stone with deep and soft waves makes the Marmo collection the perfect choice for creating space.



ASTER(Galaxy)

Color & Patterns

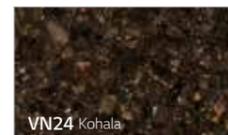
With transparent grains and mother of pearl shimmer, as if from another world. The high transparent chips provide a richness with its unique chips. The transparent chips with a dazzle of pearls provide a mystic elegant atmosphere. Dramatic effect derives from what is probable, and not from what is possible." – Aristotle - When combined with precisely positioned light sources, the translucent pastel shades become transformed into dramatic design highlights.



VOLCANICS

Color & Patterns

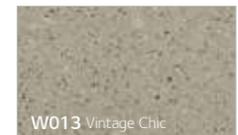
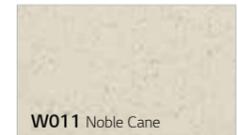
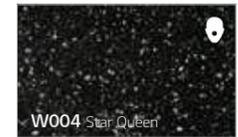
Full of depth and mysticism, akin to a precious natural stone but all of the advantages of "Acrylic Solid Surface". The enhanced natural look comes from unique translucent and tricolor chips which enable you to enjoy the beauty of natural stone, without having to sacrifice the ease of maintenance and fabrication you have enjoyed with HI-MACS®



LUCIA

Color & Patterns

Introducing the first Marcel Wanders' range of surface materials designed for HI-MACS® and produced by LG Hausys. A combination of mineral elements give definition to three poetic characters: meet the 'Star Queen', the 'Ice Queen' and the 'Shadow Queen'. Full of personality, these surface solutions evolve from a set of powerful.



GRANITE

Color & Patterns

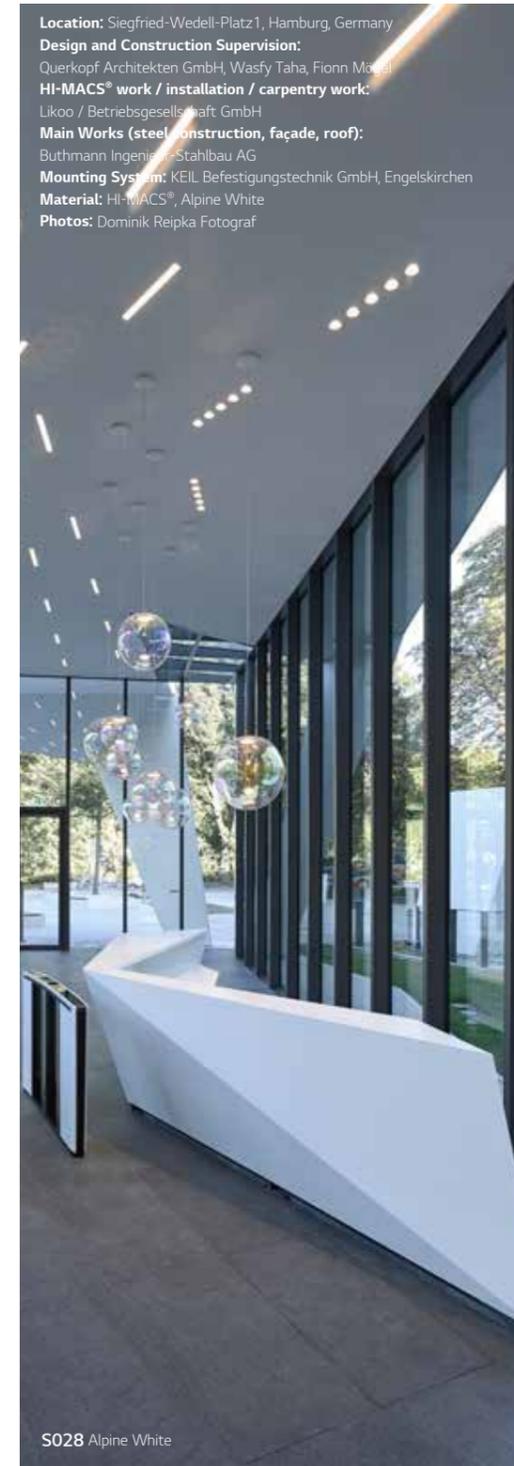
Granite comes from the Latin granum, a grain, in reference to the coarse-grained structure of such a holocrystalline rock. A huge selection of textures and colors. Natural, elegant and perfect to combine.



SOLID

Color & Patterns

Basic-solid colors create a snug atmosphere for life & work. The nature to bring great complications to simplicity is what brings life back to the quintessence. The space for your dream such as art gallery. From elegant to extravagant, classic to ultra-contemporary-this is a limitless collection.



Location: Siegfried-Wedell-Platz 1, Hamburg, Germany
Design and Construction Supervision: Querkopf Architekten GmbH, Wasfy Taha, Fionn Mckel
HI-MACS® work / installation / carpentry work: Likoo / Betriebsgesellschaft GmbH
Main Works (steel construction, façade, roof): Buthmann Ingenieurbüro-Stahlbau AG
Mounting System: KEIL Befestigungstechnik GmbH, Engelskirchen
Material: HI-MACS®, Alpine White
Photos: Dominik Reipka Fotograf

S001 Satin White, S212 Light Green, S026 Banana, S116 Festival Pink



Developer: Jens Burmeister & FH Potsdam
Designer: Raphael Singer, Jim M. Görtz, Jens Burmeister
Manufacturer: BAS Burmeister Audio Systeme
Fabricator: Adolf Kuhlmann GmbH & Co.KG Einrichtungswerkstätten
Photos: Martin Eckert - Application Engineer BAS

Design: Pedini, Italy, pedini.it
Fabricator: EG Arredi srl, Italy, fgarrediti.it
Material: HI-MACS®, Babylon Beige



LUCENT

Color & Patterns

"Dramatic effect derives from what is probable, and not from what is possible."

- Aristotle -

When combined with precisely positioned light sources, the translucent pastel shades become transformed into dramatic design highlights.



- S302 Opal
- S303 Sapphire
- S304 Ruby
- S305 Emerald

Project Gallery

- Facades and Wall Cladding
- Public Buildings and Offices
- Hospitality and Gastronomy
- Shops and Exhibitions
- Healthcare
- Living Spaces
- Kitchen
- Bath
- Furniture Design
- Outdoor
- Education
- Marine Industry
- Airport
- Best of the Last Decade



Project management: International Hospitality Projects (IHP)
Section managers: Architecture - Helena Moritz, Engineering - Juan Mazón, Interior design and equipment - Paolo Mauri **Builder:** Sacyr **Material:** HI-MACS® Alpine White S02B HI-MACS® distributor in Spain: Gabarro Hermanos **Photo credits:** ©Jesus Granada



Facades and Wall Cladding

"Dramatic effect derives from what is probable, and not from what is possible." – Aristotle -

When combined with precisely positioned light sources, the translucent pastel shades become transformed into dramatic design highlights.

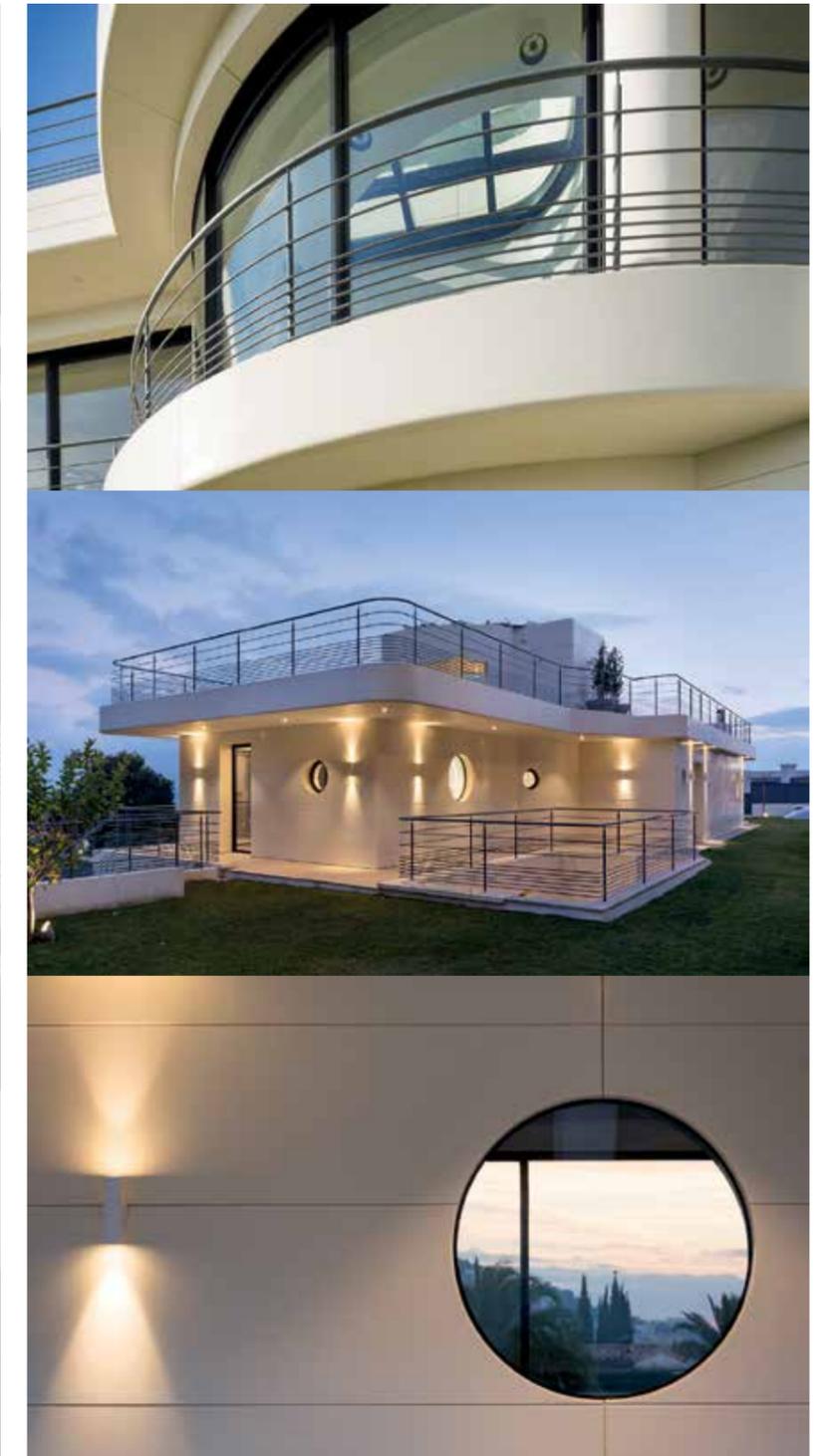
Location: Cannes, France
Design: Pierre Guidoni, Jean Rogliano
Fabrication: Menuiserie Bareau, France
HI-MACS® Supplier: Mobistrat, France
Material: HI-MACS®, Cream
Photo Credits: Mathieu Ducros



Our HI-MACS® material dominates inside as well as out. The outstanding thermoforming qualities which are vital to architects and designers work inside, while the resistance to wind, weather, UV radiation make HI-MACS® the perfect outdoor material.

Formed by a sea breeze

This ultra-modern villa on the French Riviera conjures images of a super yacht: With its striking railing, different-sized portholes made of HI-MACS® and especially the sinuous wind- and weather-resistant facade made of the same high-tech material, this impressive building perfectly reflects its maritime location above Cannes





At first glance, the silhouette of this house appears to be simple. However it posed a challenge to architects and finishers: the interlocking cubes, some with seamless surfaces, some with distinctive dividing lines, are all made of HI-MACS®.

Sokcho House in White
Location: Inheung-ri, Toseong-myeon, Goseong-gun, Gangwon-do, South Korea
Design: Woo-jin, LIM AEV Architectures, aev-architectures.com
Material: HI-MACS®, Arctic White

The house that plays with light

HI-MACS® has a sensuous way of dealing with light: When used as a facade the material provides great aesthetic properties. The light is absorbed or reflected, depending upon the intensity and angle of incidence, and gives the Sokcho Housing in Arctic White a mystical feel.



High-tech, preservation and consistent fashion

A HI-MACS® façade for Bershka, on the historic shopping street of Meir, in Antwerp.

The architects of Boud Rombouts and the façade specialists from Apers & Partners chose HI-MACS® solid surface material. The non-porous, homogeneous surface is high quality and smooth, but at the same time robust, weather-resistant, impact-resistant and easy to clean. Even graffiti can be removed without leaving a trace! The HI-MACS® sheets are also lightweight, strong and fixed invisibly.



Architect/Designer: Boud Rombouts
 Architektenatelier - Bureau Bouwtechniek
Manufacturer: Apers & Partners bvba
Façade Specialist: Apers & Partners bvba
HI-MACS® Color: S109 Steel Gray and S28 Alpine White
HI-MACS® Supplier: Engels Design & Decoration
Photograph: Pascal Deruyck Completion: April 2015



A sculpture-like flying roof and an extraordinary entrance in HI-MACS® for Hanse Merkur

The architects from Querkopf-Architekten decided to devise the entrance as a sculpture, architecturally merging the "past" and the "present" into the "future". This is not only

reflected in the futuristic design but also in the chosen material: the New Generation HI-MACS® solid surface material.

Location: Siegfried-Wedell-Platz1, Hamburg, Germany

Design and Construction Supervision: Querkopf Architekten GmbH, Wasfy Taha, Fionn Mögel

HI-MACS® work / installation / carpentry work: Likoo / Betriebsgesellschaft GmbH

Main Works (steel construction, façade, roof): Buthmann Ingenieur-Stahlbau AG

Mounting System: KEIL Befestigungstechnik GmbH, Engelskirchen

Material: HI-MACS®-FR, Alpine White

Photos: Dominik Reipka Fotograf

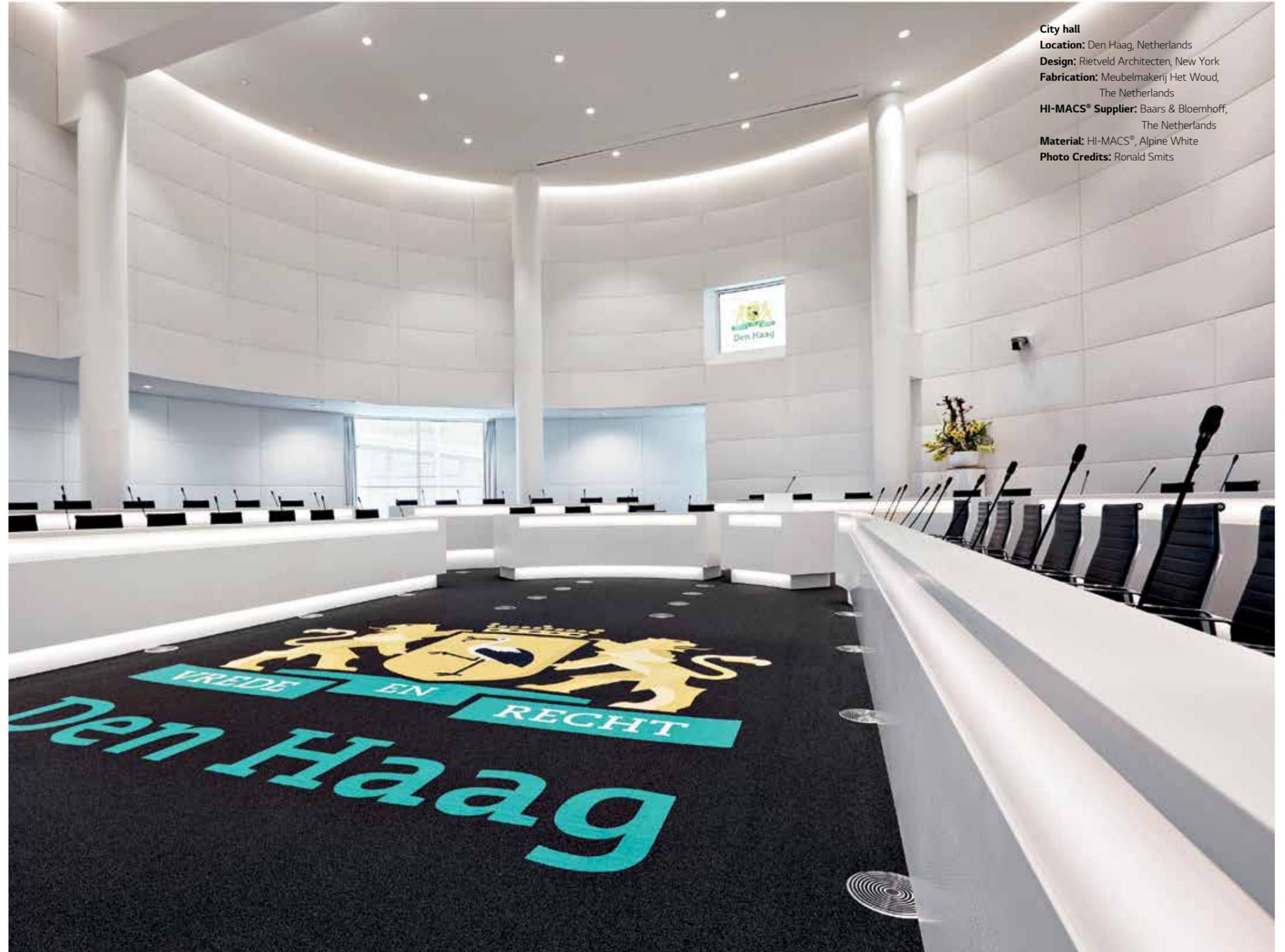
Drawings: Querkopf Architekten GmbH More information and images available at:

Public Buildings and Offices

The requirements for public spaces are very demanding. It's therefore good to know that HI-MACS® regularly undergoes all of the relevant product tests and holds all the required certificates to prove its superior quality.

Play with light and lightness

The extra-long benches in the seating area of the Great Hall of The Hague in the Netherlands are luminous and floating, which makes the area bright and light. When architecture has such a bold requirement it needs the perfect material partner – HI-MACS®.



City hall
Location: Den Haag, Netherlands
Design: Rietveld Architecten, New York
Fabrication: Meubelmakerij Het Woud, The Netherlands
HI-MACS® Supplier: Baars & Bloemhoff, The Netherlands
Material: HI-MACS®, Alpine White
Photo Credits: Ronald Smits

Popping the cork

Champagne is more of a lifestyle than a drink. This combination of quirkiness and elegance, of uniqueness and extravagance is beautifully displayed in the tasting rooms at Nicolas Feuillatte. The curving, back-lit bars with their milled, subtle patterns provide the perfect tasting backdrop.



Showroom Nicolas Feuillatte
Location: Chouilly, France
Design: SAT Manager, France
Fabrication: JP Martin Menuiserie, Agnesina
Distribution: ASKA Interior, France
Material: HI-MACS®, Alpine White
Photo Credits: Olivier Cez



Generous geometry made of HI-MACS® and wood

HI-MACS® makes it possible to build large surfaces in one piece. Even the connection with the beautiful wood is almost seamless here: Design and carpentry at the highest level.

Plantronics

Location: Hoofddorp, The Netherlands

Design: Plantronics

Fabrication: van't Wout Interieurbouw, The Netherlands, wout.nl

HI-MACS® Supplier: Baars & Bloemhoff, The Netherlands

Material: HI-MACS®, Alpine White

Photo Credits: Willem Defijn



Elegant climb to the next dimension

A staircase allows people to climb from one level to the next. Here it is a work of art because the entire piece, made of one material in one color, provides continuous radii and harmonious dimensions, melting into a curved unity. Thermoformed HI-MACS® elements, beautifully assembled, turn the staircase into a near-seamless, one of a kind, piece of art.



Stairs

Design: Ingenieurbüro Pradel GbR, Germany

Fabrication: Nautilus Treppen GmbH & Co. KG, Germany, nautilus-treppen.de

HI-MACS® Supplier: Klöpfer Surfaces, Germany

Material: HI-MACS®, Diamond White

Hospitality and Gastronomy

HI-MACS® creates visual, statement features in the trendiest of bars, the most upmarket of restaurants and the most happening clubs. Especially for internationally operating hospitality chains it is good to know that LG Hausys offers a global after sales service with their network-partners.



Tauro
Location: Den Haag, The Netherlands
Designer: Same-D, The Netherlands, same-d.nl
Fabrication: van't Wout Interieurbouw, The Netherlands, wout.nl
HI-MACS® Supplier: Baars & Bloemhoff, The Netherlands
Material: HI-MACS®, Dark Night
Photo Credits: Willem Defijn

A black cube called "Tauro"

"Tauro," the bull: strong, black, imposing. The great bar at this inner-city cafe radiates strength and confidence. The large inlay with the brand logo reinforces the impression of power.

Optimistic zig-zag

Anyone who enters this bar cannot fail to feel the positive, happy vibes: made of HI-MACS® in emerald and banana tones, this impressive bar is the center of attention in an otherwise restrained, discreet environment. The bright yellow surface of the bar is also made of HI-MACS®: the perfect material for easy cleaning.



Rev Vegan Restaurant
Location: Manchester, United Kingdom
Designer: Acme Refrigeration, United Kingdom
Fabrication: Retail Outlet Design, United Kingdom
HI-MACS® Supplier: James Latham, United Kingdom
Material: HI-MACS®, Emerald, Banana
Photo Credits: Acme



An abundance of white for the perfect presentation

If you want to sell something delicious, you need to make sure that the surroundings help to whet the appetite. The generous, seamless surfaces in pure white create the perfect background for the hand-made pralines from Leek. When combined with the black and white photographs and the herringbone parquet flooring in cherry wood, it almost feels like a museum.



Patisserie Leek
Location: Beverwijk, The Netherlands
Design: Bert Beijersbergen, The Netherlands, beijersbergenbv.com
Fabrication: Bone Solid, The Netherlands, bonesolid.nl
HI-MACS® supplier: Baars & Bloemhoff, The Netherlands
Material: HI-MACS®, Alpine White
Photo Credits: Ronald Smits

Shops and Exhibitions

It is an accepted fact in retail, that no compromises can be made in terms of quality. And HI-MACS® does just what the high-tech brand LG promises. With its limitless possibilities, the material meets the demanding requirements to perfection.



Salon Vanitas Espai

Beautiful, this elegant beauty salon in Barcelona. In a beauty salon, the décor is particularly important as is the impression it gives. Here Salon Vanitas has used a fluid composition of high-quality materials such as dark wood, fine tiles and bright white HI-MACS®.

Location: Barcelona, Spain
Design: Cm2 Disseny, Spain, cm2disseny.com
Fabrication: Ideas & Ambientes, Spain, ideasyambientes.com
HI-MACS® Supplier: Gabarró Hermanos, Spain
Material: HI-MACS®, Alpine White
Photo Credits: Felipe Mena

The furniture speaks for itself

Oval presentation islands made of HI-MACS®, custom-produced for each display, the tops and doors on this elegant furniture are all made of HI-MACS®. Even with high traffic, the elements are robust and easy to care for. Moreover, it creates a professional, museum-like atmosphere, and therefore a perfect stage for exhibitors.

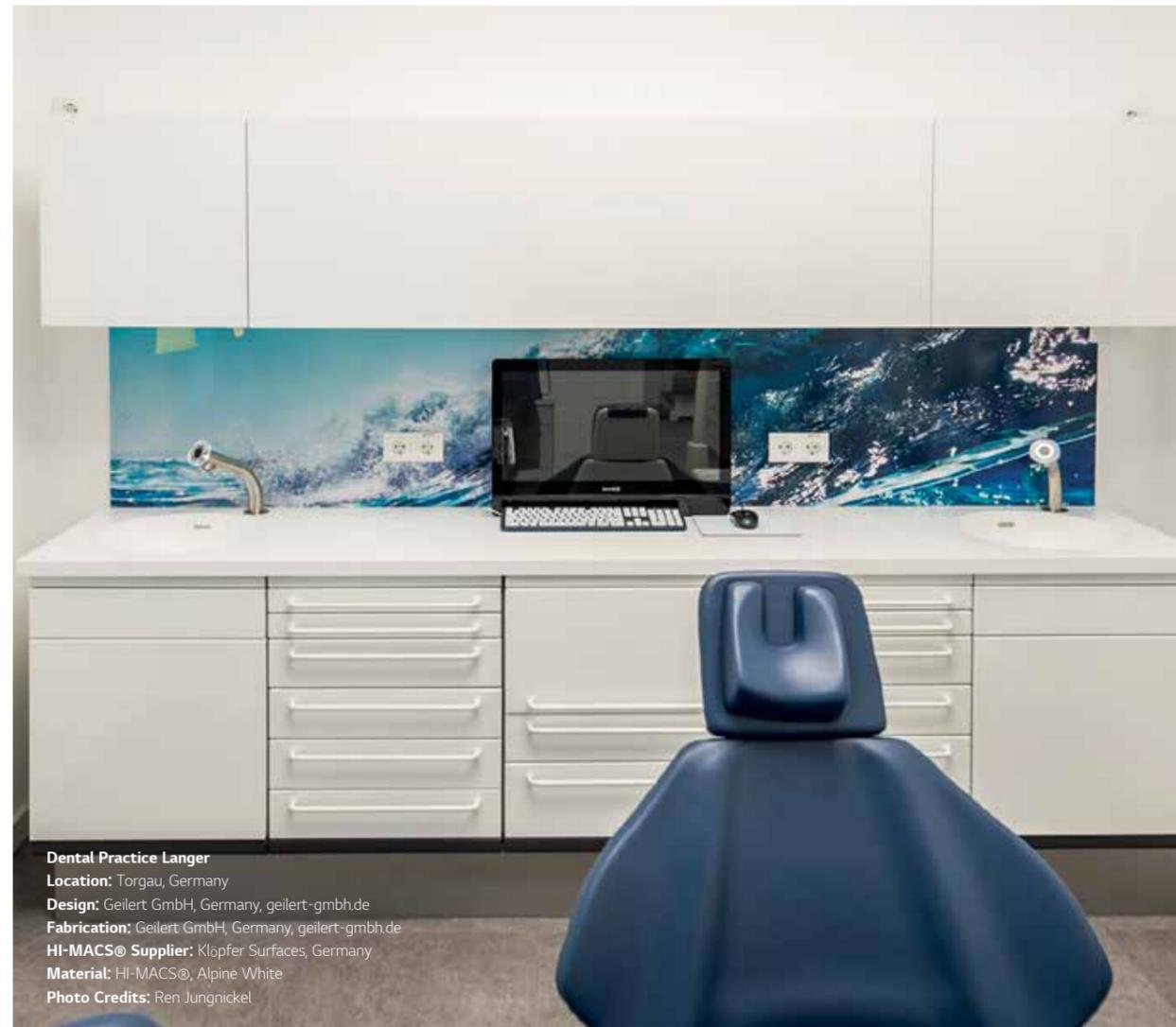


**Sparkasse Pforzheim Calw –
 Service area for precious metals and
 foreign currencies**

Location: Pforzheim, Germany
Design: Die Werft Raißle & Sieber PartG mbB Ausstellungsgestaltung
 Innenarchitektur, Germany, diewerft.com
Fabrication: Friedrich Hanselmann GmbH & Co. KG/
 Hasenkopf Holz und Kunststoff GmbH & Co. KG, Germany
Material: HI-MACS®, Arctic White
Photo Credits: ©Sparkasse Pforzheim Calw /
 Die Werft Raißle & Sieber PartG mbB

Healthcare

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



Dental Practice Langer
Location: Torgau, Germany
Design: Geilert GmbH, Germany, geilert-gmbh.de
Fabrication: Geilert GmbH, Germany, geilert-gmbh.de
HI-MACS® Supplier: Klopfer Surfaces, Germany
Material: HI-MACS®, Alpine White
Photo Credits: Ren Jungnickel

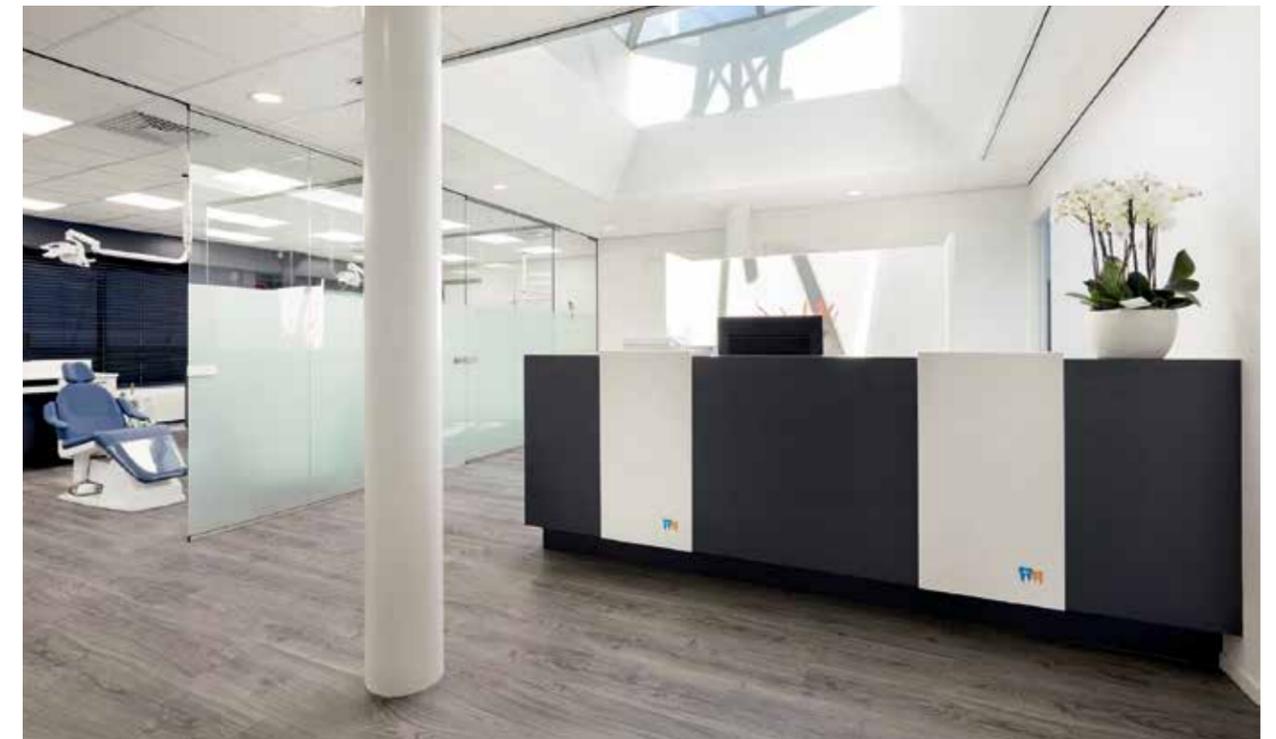
Perfect hygiene is clear to see

This dental practice uses HI-MACS® on all horizontal surfaces; in some cases, the horizontal and vertical surfaces are joined with a small curved radius that is easy to clean. The lower cabinets have been taken over from previous use and the round bowls are perfectly integrated into the surface. They are flush-mounted, which provides a highly-functional, unobtrusive working environment that easily meets all hygiene standards.



Seamless throughout

The treatment stations in this modern practice are flush and seamlessly joined throughout; in addition to the sinks and wall coverings, even the electrical outlets are integrated flush into the HI-MACS® work surfaces.



Ortho Assumburg
Location: Heemskerk, The Netherlands
Design: Been Design, The Netherlands
Fabrication: Bone Solid, The Netherlands, bonesolid.nl
HI-MACS® Supplier: Baars & Bloemhoff, The Netherlands
Material: HI-MACS®, Alpine White
Photo Credits: Ronald Smits

Living Spaces

Any materials used within your home should be selected with utmost care as you will be using them for many years.



Cocoon Living
Location: Amsterdam, The Netherlands
Design: Sander van Eyck – Cocoon Living, The Netherlands, cocoon-living.nl
HI-MACS® Fabrication: Vincent Vd Burg Meubelmakerij, The Netherlands
HI-MACS® Supplier: Baars & Bloemhoff, The Netherlands
Material: HI-MACS®, Alpine White
Photo credits: Pam Kat Photography

Seamlessly blending traditional and modern

It's hard to believe that the rooms you see here are located in an old, abandoned building in Amsterdam. Modern architecture was used in the renovation; the narrow basic structure of the rooms was countered by radiant white and clever, room-saving details to create a light and spacious feel. The wash-basins, for example, are a marvel of space-saving techniques: the wash-basins, sinks and furniture doors are all made of HI-MACS®.



Kitchen

The ingredients, as well as the material on which they are prepared, have a key role to play in creating a thoroughly high-quality meal. HI-MACS® is a non-porous, dirt-repellent and hygienic surface, and combined with its Thermalcure-technology, results in the best surface-quality for working with food and everyday household chemicals.

Residence C
Location: Koekelare, Belgium
Design: Projectvijf, Belgium
Fabrication: Waeles NV, Belgium, waeles.be
HI-MACS® Distribution: Engels Design & Decoration, Belgium
Material: HI-MACS®, Alpine White
Photo credits: © Fotografie Valerie Clarysse – 2017



The almost invisible huge island

The expansive white work surface with the flush, integrated, double sink provides generous space in this kitchen whether cooking or entertaining. The modern island even has a light and airy breakfast bar at one end. The trick is to use the 12 mm "thin" version of the worktop, which seems to almost float on top of the units.



Pedini, a designer kitchen manufacturer, created Artika completely from HI-MACS®

For any kitchen designer working with curved surfaces, the best solution is to use mineral materials. Artika is a range from Pedini, an Italian manufacturer, which showcases doors with no handles and fully integrated sinks and hobs on the flat surfaces. This simple, chic look, shown here in Babylon Beige benefits from the material properties of HI-MACS®.



Bath

Thanks to its waterproof surface and the extensive range of high-quality washbasins, HI-MACS® is becoming increasingly popular in the bathroom. The warm, pleasing feel of the material, coupled with its ease of care means HI-MACS is simply perfect.



Simple. Perfect.

The essence of the 'Not Only White' products. The simplicity of this wash stand is stunning. But it has everything you need: a large, stable, easy-to-clean sink, which is mounted on the oak panel in such a way as to appear to be almost floating.

Not Only White
Design: Not Only White, The Netherlands.
notonlywhite.com,
Material: HI-MACS®, Alpine White

The refined nature lies in the detail

This double sink unit draws its charm from an optical illusion: the table has two different levels and sink depths, giving it an almost sculptural quality. HI-MACS® is perfect for designs like this, as it can be precisely machined thanks to its Thermal-Cure technology.



Level
Location: The Netherlands
Design: Binnenvorm, The Netherlands,
binnenvorm.nl
Fabrication: Baths by Clay, The Netherlands,
bathsbyclay.com
HI-MACS® Supplier: Baars & Bloemhoff,
The Netherlands
Material: HI-MACS®, Satin White



The home of a legend

Richard Rogers is one of the greatest architects of our time. The house that Richard + Su Rogers designed for his parents in 1968 was recently restored by Gumuchdjian Architects, who selected HI-MACS® to create two entirely new en-suite shower rooms. The entire wetroom and floor is a seamless white cube, with a full-width skylight overhead creating a joyful day lit space.

22 Parkside (Richard Rogers' House)
Location: Wimbledon, London, United Kingdom
Restoration Design: Gumuchdjian Architects, London, United Kingdom, gumuchdjian.com
Fabrication: Solidity, United Kingdom, solidity.co.uk
Material: HI-MACS®, Alpine White
Photo credits: Petr Krejčí



Furniture Design

Whether it is used for hexagonal tables with internal lighting, honeycomb-shaped shelving, engraved counters or thermoformed seating, HI-MACS® provides limitless design options and maximum material quality.

A winner from the start.

The "Trace" side table from the Swiss brand Strasserthun won the prestigious German Design Award. The unique table legs are made of HI-MACS Structura®: the table and the patterning on the HI-MACS® Structura® surface were designed at Kepenek GmbH.



Trace
Location: Strasserthun, Thun, Switzerland
Design: Mia Kepenek and Team, kepenek.ch, Switzerland
Fabrication: Strasser AG Thun, Switzerland
 strasserthun.ch – Georg Ackermann GmbH,
 Germany, ackermannmbh.de
HI-MACS® supplier: Klöpfer Surfaces, Germany
Material: HI-MACS®, Alpine White

Sensual material mix

"Transitions III" is the name that the textile designer, Mae Engelgeer gave to her sensuously shaped object collection with some striking elements made of HI-MACS®. Flowing materials, arresting graphics, inspired by the designs of the Memphis period as well as delicate pastel shades define the collection, which blurs the boundaries between art and everyday objects. We find HI-MACS® fits perfectly in this context.

Transitions III
Location: Dutch Design Week, The Netherlands
Design: Mae Engelgeer, The Netherlands
Fabrication: Houtwerk BV, The Netherlands, houtwerk.nl
HI-MACS® supplier: Baars & Bloemhoff, The Netherlands
Material: HI-MACS®, Star Queen, Mars, Ruby, Cream
Photo credits: Floor Knaapen



Back to Basics

This kitchen innovation by Swedish designer Erik Bele Höglund is a white workstation with different sized divots. In addition there is a black tool that looks like a primeval stone, the sharp edge of which can be used as a knife and the rounded end as a pestle. Both elements in this unusual duo are made from HI-MACS®.



Primitive Kitchen Tool
Design: Erik Bele Höglund, Sweden
HI-MACS® Supplier: LG Collection, Sweden
Material: HI-MACS®, Alpine White, Dark Night
Photo credits: Erik Bele



Cathedral-like retreat

Cathedral-like retreat Fixed office spaces are becoming less and less popular, but open office spaces for flexible working require furniture which reflects and aids these new working practices. The Santini Quiet Point from Amos Design offers quiet and comfort. The white base made of HI-MACS® forms the seating surface, which is warm and comfortable.

SANTINI – Quiet Point
Location: Salone del Mobile 2017, Milan, Italy
Design: Vladimír Ambroz for A.M.O.S. Design, Czech Republic
Fabrication: A.M.O.S. Design, Czech Republic
Material: HI-MACS®, Alpine White

Outdoor

Materials used outside are exposed to the weather all year round. This means exposure to sun and rain, snow and ice, lots of moisture and different temperatures as well as strong UV rays. HI-MACS® has passed all the required tests in a selection of colors, and has proved that outstanding quality can master the toughest outside conditions.



For people with vision: HI-MACS® outdoors

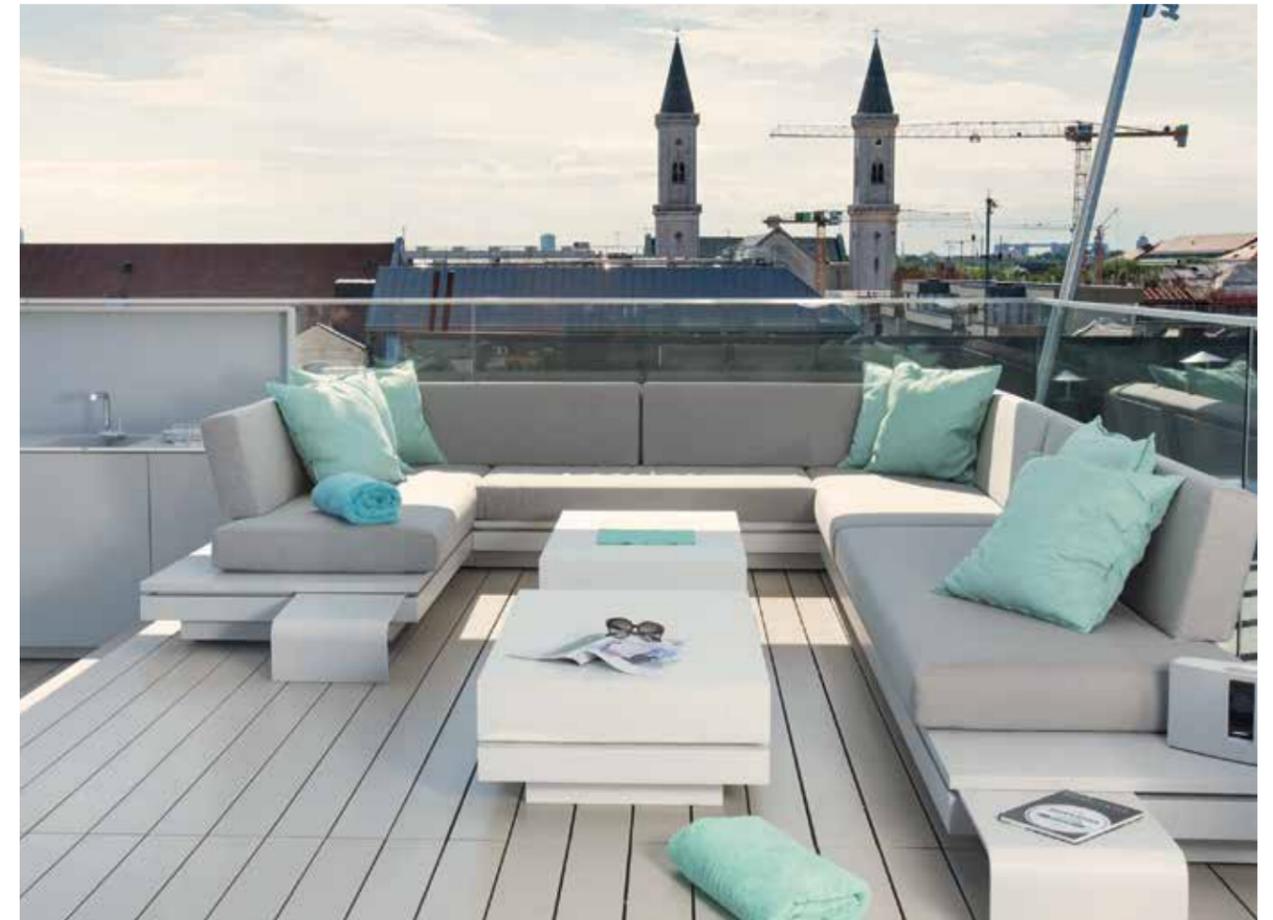
The white floor panels as well as all benches, sofas and tables on the generous terrace are made of HI-MACS®. The high-quality design in this villa also extends outdoors, where HI-MACS® offers an elegant, weather-proof look.



Penthouse Terrace
Location: Freudenstadt, Germany
Design: Karl Dreer GmbH, Germany, dreer-gmbh.de
Fabrication: Karl Dreer GmbH, Germany, dreer-gmbh.de
HI-MACS® Supplier: Klöpfer Surfaces, Germany
Material: HI-MACS®, Alpine White
Photo credits: Andreas Metz

Live, cook and enjoy the outdoors

This airy, outdoor deck is made completely of HI-MACS®; the flooring, cooking area, sofa benches, tables and small furnishings all benefit from the weatherresistant properties of HI-MACS®. The robust, easy-care ensemble looks stunning and radiates a seaside holiday atmosphere.



Townhouse Terrace
Location: Munich, Germany
Design: Karl Dreer GmbH, Germany, dreer-gmbh.de
Fabrication: Karl Dreer GmbH, Germany, dreer-gmbh.de
HI-MACS® Supplier: Klöpfer Surfaces, Germany
Material: HI-MACS®, Ice Queen, Babylon Beige, Gray
Photo credits: Melanie Gotschke

Education

When it comes to educational buildings, they are primarily used by young people. HI-MACS® extreme toughness and ease of maintenance are thus the prerequisites to withstand everyday life in nursery schools, schools, universities and other institutions.



Location: Berlin, Germany
Design: Atelier Brückner, Germany, atelier-brueckner.com
Fabrication: Bone Solid commissioned by Bruns BV, The Netherlands
HI-MACS® supplier: Baars & Bloemhoff, The Netherlands
Material: HI-MACS®, Alpine White, Deep Indigo
Photo credits: Erlebnis Europa

Erlebnis Europa

If you go to the "Erlebnis Europa" exhibition, you will come across HI-MACS®. The permanent exhibition "Erlebnis Europa" [Experience Europe] in the European House in Berlin challenges and promotes interaction with the visitor: digital information tables sit at the heart of this installation. All surfaces are easy-care, robust and made of HI-MACS®.



Marine Industry

A new composition of HI-MACS® from the high-tech laboratories of LG has been developed for use in shipbuilding: HI-MACS® FR, with standout properties of fire-resistance and fire-retardance.



At home on the high seas

HI-MACS® brings class and spaciousness to the bathroom design of the ship's cabins on the MS Amadea. The choice of a material makes a very clear statement about how one views quality.

MS Amadea
Location: Hamburg, Germany
Design: Phoenix Reisen GmbH, Germany, phoenixreisen.com
Fabrication: 2 Pier GmbH - Holztec Innenausbau GmbH, Germany, 2pier.de - tb-berndt.de
HI-MACS® supplier: Klöpfer Surfaces, Germany
Material: HI-MACS®, Alpine White, Arctic Granite
Photo credits: Sebastian Scheuerecker

Airport

Desks, counters and shelving at airports are exposed to extremely heavy and constant use, being touched by travellers and staff alike. It is especially here that the perfect finish of HI-MACS® comes into its own – even easier to clean and more robust, thanks to its innovative Thermalcure-technology.



International Airport of Naples – Capodichino
Location: Naples, Italy
Designer: Antonio De Martino – Gnosis Architettura, Italy, gnosis.it
Fabrication: Ares srl, Italy, aresarredamenti.it – Legno Cad srl, Italy legnocad.com
HI-MACS® Supplier: Luigi Strumolo Spa, Italy, strumolo.com
Material: HI-MACS®, Alpine White
Photo credits: Photographed by Roberto Mango – Special Thanks to Ge.S.A.C. SpA for the images

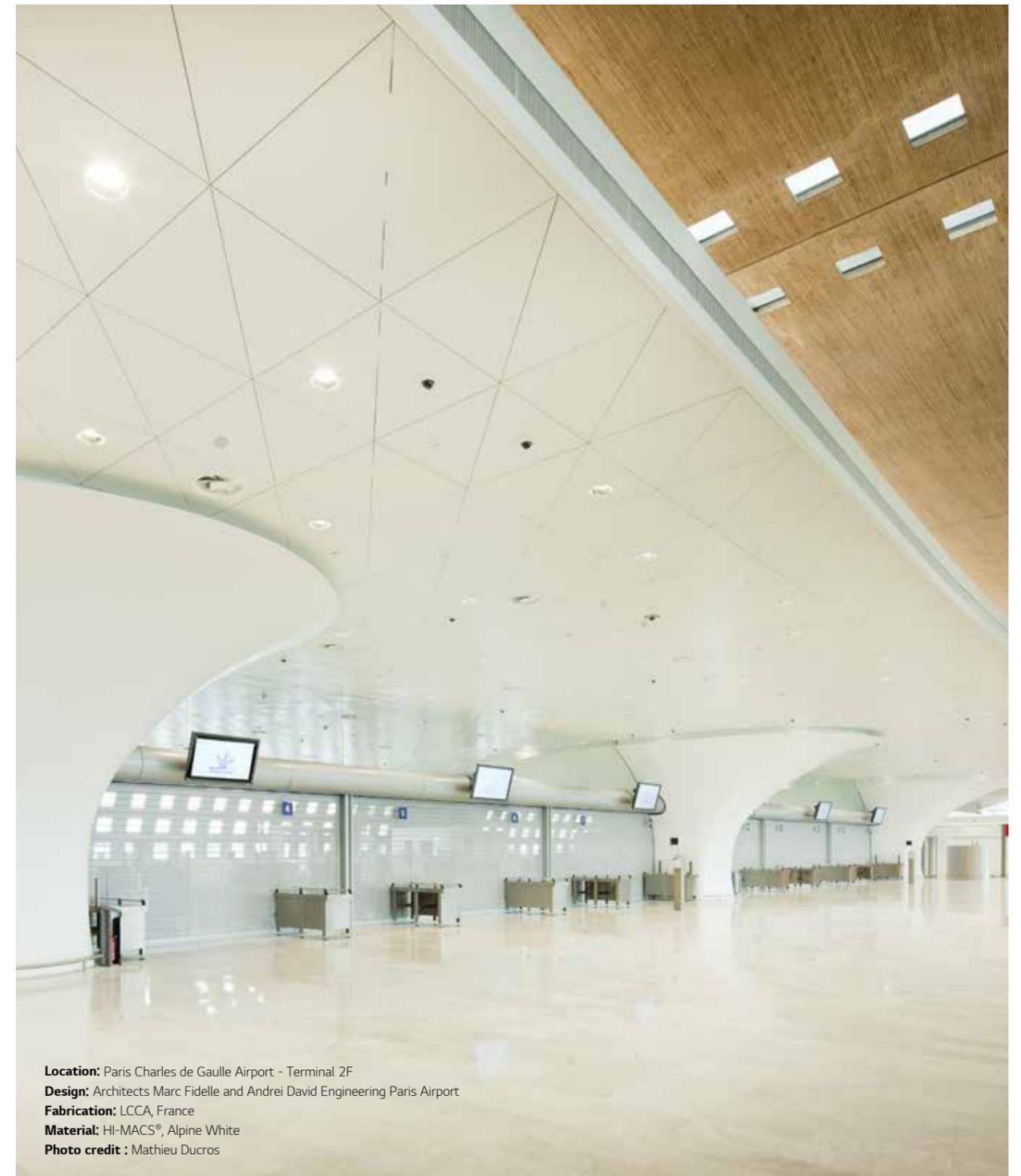
Naples Airport embraces HI-MACS®

The bars in all departure halls and the check-in desks are all framed with large radii: robust, easy-care and with a high-quality look. This includes the benches where passengers can while away the time in comfort.



Column Cladding at Paris Charles de Gaulle Airport

The perfect start to a holiday
Thousands of passengers, an infinite volume of baggage, comprehensive regulations and safety standards that have to be complied with, these extreme circumstances can often occur at airports which demand the ultimate from its interior architecture. HI-MACS® has proven itself over and over again in recent years to be an extremely durable and superior quality material that withstands both: the ongoing stress test of a vibrant airport and the requirements of the users. In addition, its versatility and superior appearance are the best prerequisites for successfully coping with whatever occurs day to day in the airport.



Location: Paris Charles de Gaulle Airport - Terminal 2F
Design: Architects Marc Fidelle and Andrei David Engineering Paris Airport
Fabrication: LCCA, France
Material: HI-MACS®, Alpine White
Photo credit : Mathieu Ducros

Best of the Last Decade

In recent years HI-MACS® has been specified more and more by architects and designers – only the best quality can convince demanding clientele like these. Thanks to their ability and talent and to the superior quality of material and fabrication some masterpieces have been achieved with HI-MACS®. Although not recent, they still inspire users and owners. A selection can be found here.



Baroque forms to honour a baroque musician
This building to honour the great musician Georg Friedrich Händel transitions from an understated exhibition and reception area to an opulent Baroque hall. HI-MACS® links and enables both: the ornamental splendour as well as the subtle play of lights.

Händel House
Location: Halle, Germany
Design: Gerhards & Glücker, Germany, gerhardsgluecker.com
Fabrication: Möbel Damm, moebel-damm.de
Material: HI-MACS®, Arctic White

19 well-known architects and designers designed this hotel – naturally using HI-MACS®
The result of their work is simply breathtaking, with every room being a veritable stand-alone masterpiece. HI-MACS® was with them every step of the way – inspiring the designers to create their most daring designs.



Hotel Puerta America
Location: Madrid, Spain
Design: from left to right: Christian Liaigre, France – Ron Arad, UK – Zaha Hadid Architects, UK – christian-liaigre.fr, ronrad.co.uk, zaha-hadid.com
Material: HI-MACS®, Alpine White, Black, Fiery Red



Water and HI-MACS® do mix
This indoor swimming pool in a Parisian school was designed mainly with HI-MACS®: parts of the exterior walls, the geometrical relief on the interior walls, the non-slip floor in the shower area and many individual items of furniture were all created in HI-MACS® Arctic White. Its perfect hygiene and ultra-flexible form are important properties of the material, which also gives the space a unique atmosphere.

Atlas Swimming Pool
Location: Paris, France
Design: Yoonseux Architectes, France, yoonseux.com
Fabrication: ASKA Interior, France, aska-interior.com
Material: HI-MACS® Arctic White

HI-MACS® helps create a personal vision
The Raiffeisen Bank in Zurich displays the portraits of former prominent residents that stand out thanks to the intricate cutting of triangles of different sizes and the spartan overall interior architectural design.



Raiffeisen Bank Zürich
Location: Zürich, Switzerland
Design: NAU Architecture, Switzerland, Drexler Guinand Jauslin Architekten, Switzerland, nau.coop, dj.ch
Fabrication: Wallcovering patterns design: ROK, Rippmann Oesterle Knauss, Switzerland, rok-office.com – Wallcovering and joinery: Glaeser Baden, Switzerland, glaeser.ch
Material: HI-MACS®, Alpine White



Handbags and gladrags
The central and pivotal element in this showroom is a circular filigree skeleton made of HI-MACS® that showcases the fashionable accessories.

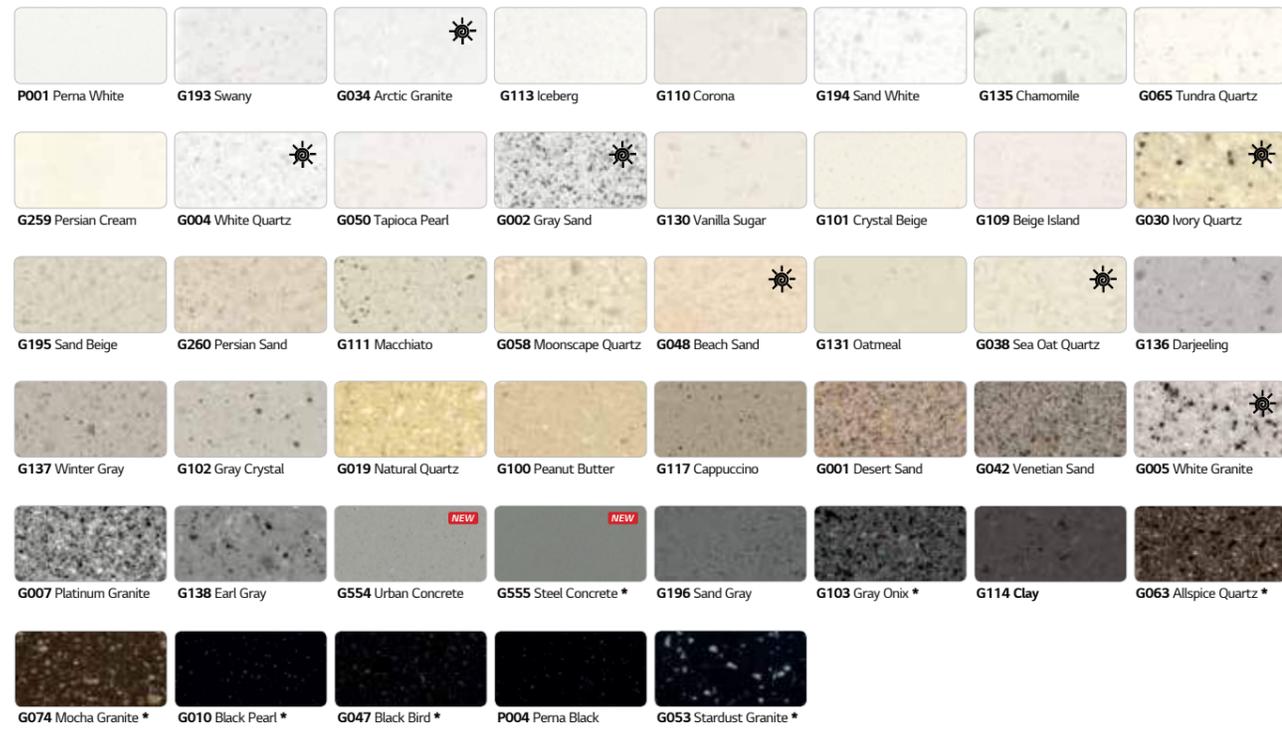
Showroom ALV
Location: Milan, Italy
Fabrication: Flusso, Facchinetti Group
Material: HI-MACS®, Ivory White

Colors

Colors are key in design. Elegant white, warm Toffee Brown or mystical Cima. We have whatever color you want - it's your choice.

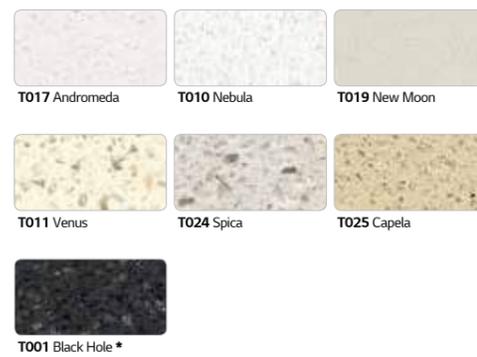
Granite

A huge selection of textures and colors. Natural, elegant and perfect to combine.



Aster(Galaxy)

With transparent grains and mother of pearl shimmer, as if from another world.



Volcanics

Full of depth and mysticism, akin to a precious natural stone but with all of the advantages of "Natural Acrylic Stone"



Volcanics Real

Depth of the natural stone and the rich clear particles embodied weakness having real stone chip

Marmo

You will be captivated by its sophisticated texture, reminiscent of marble.



Solid

From effortless to extravagant, classic to ultra-contemporary - this is a timeless collection.



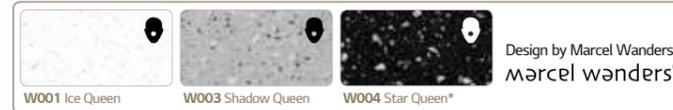
Lucent

When combined with precisely positioned light sources, the translucent pastel shades become transformed into dramatic design "highlights".



Lucia

Introducing the first Marcel Wanders' range of surface materials designed for HI-MACS® and produced by LG Hausys. A combination of mineral elements give definition to three poetic characters: meet the 'Star Queen', the 'Ice Queen' and the 'Shadow Queen'.



HI-MACS® Ultra – Thermoforming

The new HI-MACS® Ultra- Thermoforming formula in the iconic Alpine White color is offered in 12 mm panel thickness, in 760 x 3680 mm size.

HI-MACS® FR – Minimal flammability

The individual material FR quality resulted in fire protection classification "B-s1-d0" according to EN 13501 (Single Burning Item test (SBI test))*.

Concrete Collection

The product line embodies the rough texture of raw concrete with the smooth finish of HI-MACS®. Available in five shades of concrete inspired from modern industrial architecture, they can be used in any applications, such as wall covering, kitchens and bathrooms, adding a special ambience to the space.



- * Disclaimer colors are less suitable for surfaces which are subject to high traffic, due to their deep color saturation, marks may be seen more easily.
- ☀ Suitable for exterior use. Please check conditions about level of suitability and warranty per color.
- 💡 Lucent colors have a higher level of translucency, more evident when combined with light sources.
- 👤 Design by Dutch Designer Marcel Wanders
- ⚙ As Marmo is a randomly veined product, specific fabrication guidelines need to be followed. Ask your sales partner for more information.

Specification

SHEET SPECIFICATION

Sheet thickness in mm	Sheet width in mm	Sheet length in mm
6	760	2,490
12	760	3,680

*Special customized order to be prediscussed

Weight/ft ²	Thickness	Solids result	Unit	Granite result	Unit
HI-MACS®	6mm	1.14	1bs	1.08	1bs
	12mm	4.55	1bs	4.32	1bs
	6mm	0.52	kg	0.49	kg
	12mm	2.07	kg	1.96	kg

Weight Sheets	Thickness	Width/Length	m ² Sheet	kg/Sheet
HI-MACS®	6mm	760/2,490	1.9	20-21
	12mm	760/3,680	2.8	57-61

CHEMICAL RESISTANCE

according to DIN 68861 & KIN 68930 Tab. 1

Test material	Assessment	Assessment
G25 defects	S06 defects	
Acetic acid (vinegar)	no effect	no effect
Citric acid (lemon)	no effect	no effect
Sodium carbonate	no effect	no effect
Ammoniac water	no effect	no effect
Ethyl alcohol	no effect	no effect
White/Red/South wine	no effect	no effect
Beer	no effect	no effect
Cola-drinks	no effect	no effect
Instant coffee	no effect	no effect
Black tea	no effect	no effect
Blackcurrant juice	no effect	no effect
Cream	no effect	no effect
Water	no effect	no effect
Benzine	no effect	no effect
Acetone	3	3
Ethyl-butyl acetate	3	3
Butter	no effect	no effect
Olive oil	no effect	no effect
Mustard	no effect	no effect
Salt	no effect	no effect
Onion	no effect	no effect
Lipstick	no effect	no effect
Disinfectant	no effect	no effect
Black ballpoint	2	2-3
Stamping ink	1	1
Household cleaner	no effect	no effect
Cleaning agent	no effect	no effect
Use group according to DIN 68861	1B	1B

Assessment according to DIN 68930 Tab.1

Other work top spaces: use group : 1C

Fulfill of requirements+

FEATURES

- Wide range of color and pattern choices
- Non-porous structure
- Stain and chemical resistance
- Effortless fabrication and seamless installation

APPLICATIONS

- Kitchen tops
- Vanity tops
- Wall decorations
- Laboratory tables
- Working tables
- Office desks
- Commercial interiors

SPECIFICATION DATA SHEET

Specification	Unit	Result		Test method	
		Solid	Granite		
Density	lbs / in	0.063	0.06	ASTM D 792	
Specific gravity	-	1.75	1.75	ASTM D 792	
Thermal expansion	m / m / °C	35.0X10 ⁻⁶	33.0X10 ⁻⁶	ASTM D 696	
	X10 ⁻⁶ in / in / F	1.20	1.10	ASTM D 696	
Expansion	mm	<0.05	<0.05	DIN 318	
Tensile strength	kg / cm	390	390	ASTM D 638	
Flexural strength	kg / cm	790	790	ASTM D 790	
Hardness rockwell	-	90	88	ASTM D 785	
Barcol	-	63	61	ASTM D 785	
Pencil	H	5	5	KSD 6711	
Izod impact notched strength (ball drop)	kgXcm / cm	1.50	1.50	ASTM D 256	
	6mm	% 23°C	0.05	0.05	ASTM D 570
	12mm	in / 1lbs	47.20	43.30	NEMA-LDI-2.15
	12mm	mm	<1,400	<1,400	DIN EN 438, part 2, pt.12, '92
(with impact test apparatus)	12mm	N	25	25	DIN EN 438, part 2, pt.11, '92
Water absorption	6mm	% 23°C	0.05	0.05	ASTM D 570
	12mm	24hrs	0.04	0.05	ASTM D 570
Slippery resistance	-	>0.32-0.9	>0.32-0.9	GMG 100(replaces R9)	
Climate change resistance	°C	positive	positive	AMK	
Heat distortion temperature	°F	203-221	203-221	ASTM D 648	
-	°C	95-105	95-105	-	
Dry heat (pan bottom)	°C	≤100	≤100	DIN 68 861, part 7, 04-'85	
Wet heat (pan bottom)	°C	7A	7A	DIN 68 861, part 8, 04-'85	
Cigarette burn resistance	-	6C	6B	DIN 68 861, part 6, 04-'85	
Chemical impact	-	1B	1B	DIN 68 861, part 1, 12-'81	
Scratch resistance	-	4D	4B	DIN 68 861, part 4, 11-'81	
Stain recovery	%	98	98	KS F 4810-1986	
Electrostatic	>1X10 ¹² Ω	insulating	insulating	DIN IEC 1340-4-1, 04-'92	
Weather resistance	ΔE (1,000hrs)	no change	no change	ASTM D 1499	
Xenon (light resistance)	-	better than 6	better than 6	DIN 53 387, 04-'89	
Hygienic	-	suitable	suitable	DIN 53 387, 04-'89	
Food contact	-	suitable for all colors	available in 2003	LMBG §31 Food contact safety	
Fire resistance	-	B1	B1	BAM-certificate DIN 4102-1	

WARRANTY & SERVICES

All HI-MACS® products are carefully manufactured to ISO 9001 quality standards and backed by a full technical service support team. A limited 10 year installed warranty applies to all HI-MACS® structures provided they have been fabricated and installed by an authorized fabricator and correctly maintained according to recommended guidelines

Fabrication & Installation

HANDLING

HI-MACS® weight differs based upon thickness and length. In a single sheet, HI-MACS® should be carried vertically to prevent from breaking or bending. Multiple sheets should be supported by a pallet.

SAFETY GUIDE

When working with HI-MACS®, one needs to observe common safety procedures and practices.

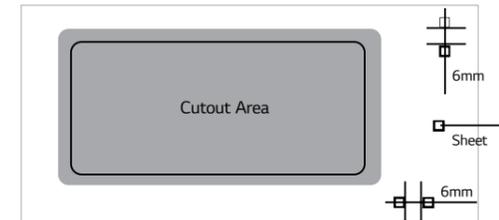
- Check all electrical tools prior to use
- Always wear safety goggles
- Wear gloves, shoes, and dust filtering masks
- Only use sharp cutters
- Work in a light, well-ventilated area

DUST

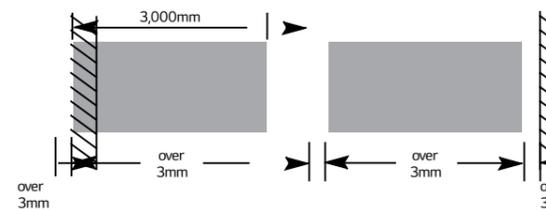
Proper breathing filters and ventilation are necessary when working with HI-MACS®, as breathing dust can be harmful.

CUTTING

HI-MACS® expands and contracts according to temperature and humidity. Installers should keep this in mind when measuring. When marking cutouts, leave approximately 1/4 inch of space.



When installing at the wall side or joining between sheets, leave approximately 1/4 inch of space.



BREAKAGE

Cracks can occur due to the following reasons :

- The support for HI-MACS® is not level
- The joint is not finished smoothly
- Adhesive is not applied evenly
- Proper length or spacing is not left during fabrication

STORAGE

Store HI-MACS® indoors in an area with proper ventilation. HI-MACS® should not be placed directly on the floor. Avoid high temperatures or high humidity.

LINE CUTTING

Table Saw is required for precision and large quantity cutting of HI-MACS®. Carbide or diamond blades are recommended for best performance. Cutting speed can differ, but 2-3M/min is recommended. Table Saw with rollers is commended for precise long cuts.

OTHER POWER SAWS

Smaller hand-held saws may also be used with HI-MACS®. Circular saw for short straight cuts. Jig saws for small curved cuts. Care and experience is required for making cuts with hand-held saws.

RADIUS CUTTING

Precise and smooth radius cutting of HI-MACS® is possible with the use of a router and a template. This is best for routing for sink installation. A minimum of 1/2 inch of space should be allowed when making sink cut outs with a router.

FINISH CUTTING

With the proper bits, numerous decorative or smooth edges may be achieved with the use of a router. For more complicated finishes, a template is recommended.

DRILLING AND PROGRAMMABLE TABLE ROUTERS

HI-MACS® may be used on Programmable Table Routers for custom, large quantity and precision processing. HI-MACS® is suitable for use with any hole making device. 1/8 of an inch of space should be allowed when working with this type of equipment.

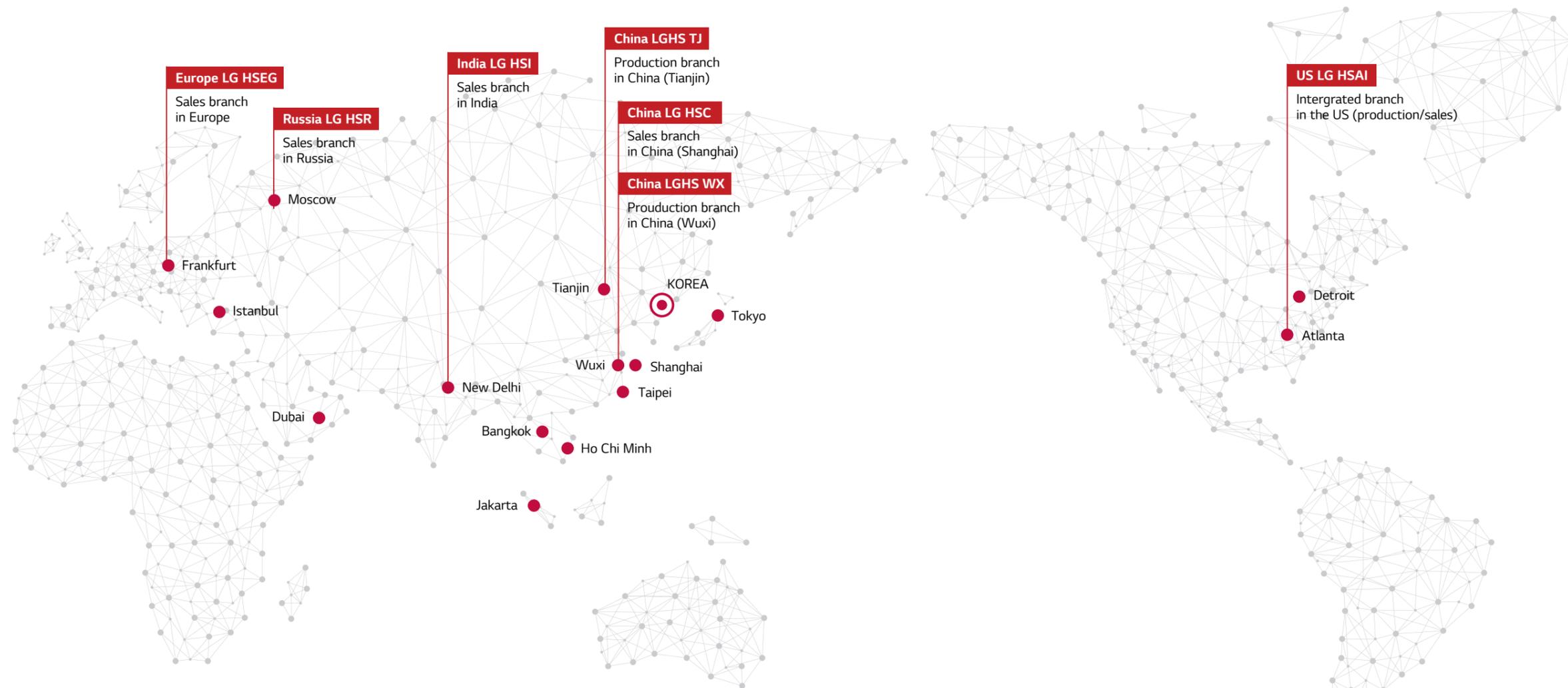
HI-MACS ADHESIVE

Warning : Adhesive are flammable. Proper safety precautions should be taken to avoid firing.

SELECTION OF ADHESIVE ACCORDING TO PRODUCT TYPE

Product	Adhesive	Characteristics
HI-MACS®	Designated adhesive for HI-MACS®	Start the finish process after 2-3 hours for hardening
HI-MACS® + Wooden Plate Veneer	Neoprene rubber type	Press at semi dry condition after applying on both side. Suitable for the back-reinforcing veneer.
	Silicone caulking type	Effective in the installation for counter top. Easy process, high impact resistance and elasticity.
	Cyanoacrylate type	Effective at the adhesion of small products.
HI-MACS® + Metal	Epoxy type (2Component mixed type)	More than 24hour hardening on pressing after applying the complete mixture of the main component and hardner.
	Acryl type (2Component mixed type)	Press down the facing area after applying the main component and hardner separately. Easy processing and short adhesion time.

Customer Service Network



LG Hausys HQ(Seoul, Korea)

One IFC 10 Gookjegeumyoong-Ro,
Yeouido-Dong, Yeongdeungpo-Gu, Seoul, 07326, Korea
Mail: surfaceinfo@lghausys.com

GLOBAL NETWORK

LG Hausys America, Inc. (Atlanta)

LG Hausys America, Inc. 900 Circle 75 Parkway, Suite1500, Atlanta, GA 30339 TEL : 1-678-486-8244

LG Hausys Europe GmbH (Frankfurt)

LG Hausys Europe GMBH Lyoner str 15, Atricom C8, D-60528 Frankfurt/m, Germany TEL : 49-69-583029-0

LG Hausys China Trading Co., Ltd. (Shanghai)

LG Hausys Trading Co., Ltd. 19F Magnolia Plaza No.777
Hongqiao Road, Xuhui District, Shanghai, China 200030
TEL : 86-21-5241-6600

LG Hausys Russia, LLC (Moscow)

LG Hausys Rus, LLC.
Lesnaya Plaza 8th floor, 4, 4th Lesnoy pereulok, Moscow, 125047, Russia
TEL : 7-495-663-39-58

LG Hausys India, Ltd. (New Delhi)

LG Hausys India Pvt. Ltd.
Delta Tower, 6th Floor, Plot No. 54, Sector 44 Gurgaon – 122001,
Haryana, India TEL : 91-124-4212590

LG Hausys Middle East Office (Dubai)

LG Hausys, Ltd. Dubai Office Dubai Internet City Building @3, Dubai,
United Arab Emirates TEL : 971-4-553-1452

LG Hausys Turkey Office (Istanbul)

Kempinski Residences Astoria B yü kdere Cad. No:127 A Kule Kat: 7 P.K.
34394 Esentepe Sis li / ISTANBUL, Turkey TEL : 90-212-285-1101

LG Hausys Indonesia Office (Jakarta)

LG Hausys, Ltd. Jakarta Office Tower One at The City Center (TCC)
Batavia18th Floor, Unit 2B KH. Mas. Mansyur Kav. 126 Kel. Karet Tengsin,
Kec. Tanah Abang Jakarta Pusat-10220 TEL : 62-21-2967-5043

LG Hausys Japan Office (Tokyo)

LG Hausys, Ltd. Tokyo Office Kyobashi Trust-Tower 14F, 2-1-3
Kyobashi, Chuo-ku, Tokyo, 104-0031, Japan TEL : 81-3-5299-4533

LG Hausys Vietnam Office (Hochiminh)

LG Hausys, Ltd.
L9-04,9 Flr, Vincom Center Dong Khoi, 72 Le Thanh Ton Str, Ben Nghe Wrd,
Dist 1, HCMC TEL : 84-28-3915-8909/10

Technical Report & Certificate

Numerous certificates award HI-MACS® top marks

As regards hygiene, HI-MACS® does not absorb humidity, is highly resistant to stains, and is easy to clean, maintain and repair. Countless internationally recognized certificates attest to the quality of HI-MACS® in terms of ecological commitment, hygiene and fire resistance – being the first Solid Surface in the market to receive the official European Technical Approval (ETA) for façades – for Alpine White S728 color



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® plants in Cheongju (Korea) and Atlanta (USA) meet all environmental standards.
- **Transport:** The material is transported from the USA to Europe exclusively by ship. Within Europe, HI-MACS® observes the Euro-5 standards for reduced particulate emissions. The partner-network of LG Hausys Europe is selected thoroughly: the transport partner for Europe guarantees recycling of waste water, uses solar energy in the warehouse and trucks that run on gas. Therefore the LG Hausys-partner was awarded with the Green Truck Award 2013.
- **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 non polluting fuels, greenhouse gas emissions have been cut by 15,000 tons per year since 2008.

Numerous certificates award HI-MACS® top marks



Technical Report

1. Test Report

- 1_1) Test Report_HI-MACS(Soild)
- 1_2) Test Report_HI-MACS(Granite)
- 1_3) Test Report_HI-MACS(Lucia)
- 1_4) Test Report_HI-MACS(Volcanics)
- 1_5) Test Report_HI-MACS(Volcanics Natural)
- 1_6) Test Report_HI-MACS(Aster_Galaxy)
- 1_7) Test Report_HI-MACS(Marmo)
- 1_8) Test Report_Ultra Thermoforming HI-MACS

2. Stain Resistance Test_by QAI

3. Chemical Resistance Test

- 3_1) Chemical Resistance Test_HI-MACS(G34)_by KTR
- 3_2) Chemical Resistance Test_HI-MACS(G347)_by KTR
- 3_3) Chemical Resistance Test_HI-MACS(S104)_by KTR
- 3_4) Chemical Resistance Test_HI-MACS(VB21)_by KTR

Environment Certification

1. HB Certificate

- 1_1) HB Certificate of Environmental Building Material_by KACA
- 1_2) HB Certificate of Environmental Building Material_Test Report_by KACA

2. GreenGuard_Certificate

- 2_1) GreenGuard_Certificate_HI-MACS
- 2_2) GreenGuard_Certificate_HI-MACS_Adhesive
- 2_3) GreenGuard_Certificate_HI-MACS_Eden Plus
- 2_4) GreenGuard_Certificate_HI-MACS_Volcanics
- 2_5) GreenGuard_Certificate_Gold Standard_HI-MACS
- 2_6) GreenGuard_Certificate_Gold Standard_HI-MACS_Adhesive
- 2_7) GreenGuard_Certificate_Gold Standard_HI-MACS_Eden Plus
- 2_8) GreenGuard_Certificate_Gold Standard_HI-MACS_Volcanics

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_LG Hausys(Cheong-Ju)
- 4_2) NSF International_LG Hausys America
- 4_3) NSF International_LG Hausys(Korea)
- 4_4) NSF International_LG Hausys America(GA)
- 4_5) NSF_Official Listings as of May. 09, 2018

5. HPD

- 5_1) LG Hausys_HI-MACS_HPDP
- 5_2) LG Hausys_HI-MACS_Volcanics_HPDP
- 5_3) LG Hausys HI-MACS Eden Plus_HPDP

Fire Resisting Test

- 1.Fire Resisting Test_Building Material_Class B1(HI-MACS 12mm)
- 2.Fire Resisting Test_M1
- 3.Fire Resisting Test_IMO
- 4.Fire Resisting Test_MED

- 4_1) Fire Resisting Test_Marine Equipment Directive_MED Module B
- 4_2) Fire Resisting Test_Marine Equipment Directive_MED Module D

5.Fire Resisting Test_by Warringtonfire

ISO/OHSAS

- 1.ISO_LG Hausys, Ltd._SE_9001
- 2.ISO_LG Hausys, Ltd._SE_14001
- 3.OHSAS_LG Hausys, Ltd._SE_18001