

HI-MACS® helps to gain sustainable building credits



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Green building products are becoming increasingly important throughout the world. As a result there is a growing demand for sustainable products from architects, specifiers and builders. The sustainability sector is developing dramatically in the building industry, and legal requirements for eco-friendly materials are becoming stricter and more complex. There are also a number of certification systems operating in the world.

To help architects, planners and construction firms to access clear information about HI-MACS® product compliance and how it can contribute to such credits, LG Hausys has released several **HI-MACS® Product Verification** documents, which provide an evaluation according to the leading building certification systems: **BREEAM, LEED** and **DGBN**. HI-MACS® can help professionals to obtain credits for Green Building Certification projects.

BREEAM (Building Research Establishment Environmental Assessment Method)

BREEAM is the world's leading sustainability assessment method for master-planning projects, infrastructure and buildings. It recognises and reflects the value in higher performing assets across the built environment lifecycle, from new construction, to in-use and refurbishment.

HI-MACS® can contribute to BREEAM International New Construction 2016 certification, as the entire product complies with Hea 02 Indoor air quality. Furthermore, HI-MACS® achieved RSCS summary score level in Mat 03, responsible sourcing of construction products for the entire product: RSCS level 1.

Leadership in Energy and Environmental Design (LEED)

Is a standard voluntary system to certify high performance of buildings, from the US Green Building Council (USGBC). LEED certifies buildings using a credit system. The use of

HI-MACS® contributes toward satisfying EQ Credit for Low-Emitting Materials with the category Indoor Environmental Quality (EQ).

HI-MACS® can contribute to:

- MR BPDO - Environmental Product Declaration - Option 1: Environmental Product Declaration.
- MR BPDO - Sourcing of Raw Materials - Option 1: Raw Material Source and Extraction Reporting
- MR BPDO - Material Ingredients - Option 2: Material Ingredient Optimization
- MR BPDO - Material Ingredients - Option 3: Supply Chain Optimization
- EQ Credit: Low-Emitting Materials

DGNB

The DGNB system, founded by the "German Sustainable Building Council", evaluates buildings holistically on the basis of individual criteria within the categories Ecological Quality, Economic Quality, Sociocultural and Functional Quality, Technical Quality, Process Quality and Location Quality. Different profiles allow the certification of new buildings and existing buildings, as well as of quarters in Germany and Internationally. Buildings can achieve a certification in Bronze, Silver, Gold and Platinum.

HI-MACS® has an Environmental Product Declaration (EPD), which can be used to calculate the building life cycle assessment (ENV1.1/2.1). Furthermore, HI-MACS® has achieved Quality Level 4 of 4 in DGNB 2018 criteria for local environmental impact for the entire product.

For more detailed information and to obtain the Product Verification for your project, please contact your local HI-MACS® representative.

HI-MACS®. Because Quality Wins.

HI-MACS® by LG Hausys

www.himacs.eu

HI-MACS® is a solid surface material that can be moulded into any shape. It is widely used for architectural and interior applications, such as sculptural and high performance wall-cladding or kitchen, bathroom and furniture surfaces, in commercial, residential and public space projects. It is composed of minerals, acrylic and natural pigments that come together to provide a smooth, non-porous and visually seamless surface which meets the highest standards for quality, aesthetics, fabrication, functionality and hygiene – offering manifold advantages over conventional materials.

HI-MACS® provides limitless possibilities for surfacing solutions and inspires creative minds from all over the world. **Zaha Hadid, Jean Nouvel, Rafael Moneo, Karim Rashid, Marcel Wanders** and **David Chipperfield**, among others, have completed fabulous projects using HI-MACS®.

At the forefront of innovation as always, LG Hausys recently introduced two new products. First **HI-MACS Structura®**, a 3D textured panel material that takes solid surface opportunities to a new level. And also **HI-MACS® Ultra-Thermoforming**, an innovative formula that pushes the boundaries of solid surface shaping to a whole new level, with 30% more thermoplastic capabilities - the biggest innovation for the Solid Surface history since its inception in 1967.

LG Hausys' HI-MACS® uses a simple heating process to give three-dimensional thermoplastic forming capabilities, allows visually seamless designs, offers a virtually limitless range of colours and – for some shades - exhibits a special translucency when exposed to light. Although HI-MACS® is almost as robust as stone, it can be worked in a similar way as wood: it can be sawn, routed, drilled or sanded.

HI-MACS® is manufactured using a new generation technology, the **thermal cure**. The temperature reached during the manufacturing process sets HI-MACS® apart from other solid surfaces and creates a denser, even more homogeneous, sturdy, durable surface – with a better resistance and superior thermoforming performance.

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 colour. Furthermore, HI-MACS® has obtained the French **QB certification** and **CSTB ATec “Avis Technique”** for facade applications.

HI-MACS® offers a 15-year warranty for products fabricated by a Quality Club Member.



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Let's connect!



* **HI-MACS®** is designed and produced by **LG HAUSYS**, a world leader in the technology sector belonging to LG Group, and distributed by **LG HAUSYS EUROPE** based in Frankfurt (Germany).

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