

# EUVAL TERRAZZO:

A NEW TREND FOR THE ARCHITECTURE  
OF THE FUTURE



**EUVAL**<sup>®</sup>  
BWS  
BETONWERKSTEIN



We create  
successful solutions  
for a future oriented  
design experience.

# EUVAL TERRAZZO

## A NEW TREND FOR THE ARCHITECTURE OF THE FUTURE

**EUVAL terrazzo is a modern and environmentally friendly product, produced using marble chips and white cement without any chemical substances.**

EUVAL terrazzo is the optimal solution for the realization of stairs, floors and facades in schools, airports, railway stations, shopping centres, hospitals but also for multi-family houses, museums and hotels.

The versatility of the material provides multiple solutions to create your ideal project. With a wide range of colours and the possibility of designing any individual colour, EUVAL terrazzo combines perfectly with a variety of materials such as wood, glass and metal. Bring emphasis to your projects! EUVAL terrazzo is always the right decision to create spaces full of character!

### EUVAL stands for:

#### **Quality**

EUVAL terrazzo is produced using high technology and with the knowledge of traditional craftsmanship using first-quality raw materials.

#### **Choice**

the wide choice available between different colour combinations, sizes, thicknesses and finishes, allows you to design a one-of-a-kind project.

#### **Power**

high technical performances such as abrasion and flexion make EUVAL terrazzo a durable material.

#### **Safety**

EUVAL terrazzo is non-flammable and complies with class A1fl. In case of fire, no harmful substances are released.

#### **Ecology**

EUVAL terrazzo is an environmentally friendly material produced only with natural raw materials without using any chemical substances.

#### **Ease of use**

the properties of the material allow easy installation and care over the years.

#### **Certified quality**

EUVAL terrazzo is an Italian product manufactured and certified according to EN 13748-1 and DIN V 18500.

#### **Customer care**

we pay special attention to customer service, with reliable and fast deliveries.

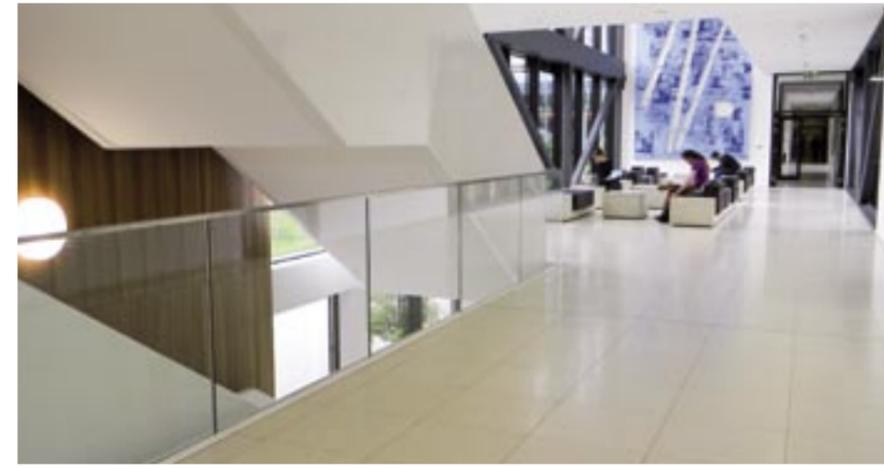
#### **Design expertise**

by working closely with architects and designers, we develop new innovative colours to stay up to date with the latest trends.

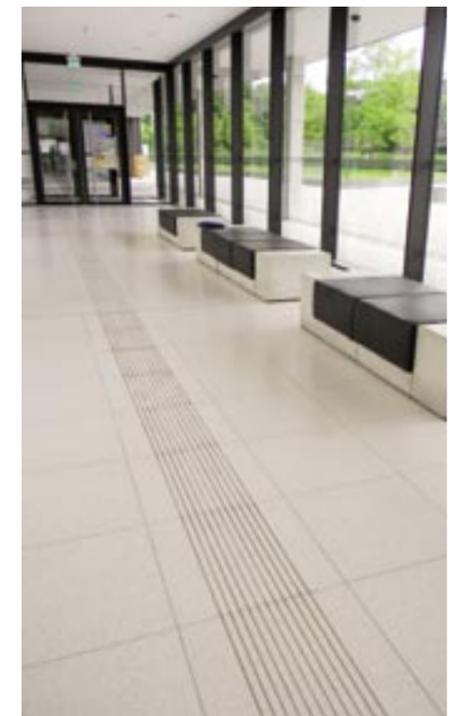
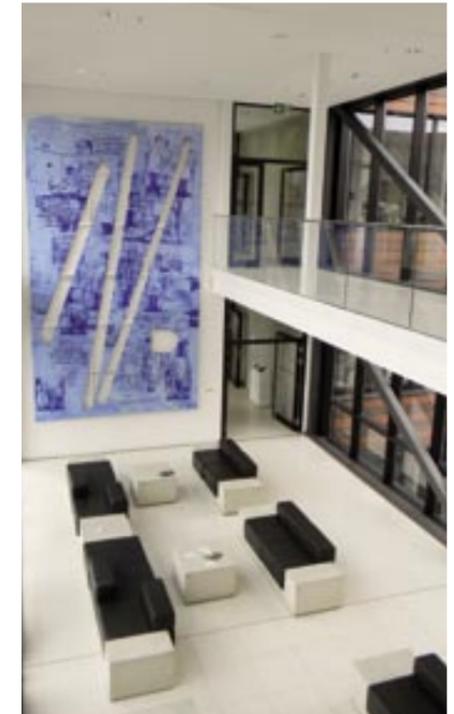
# Biomedical Center LMU Planegg

Designed with EUVAL® 93.00 Bono

The Biomedical Center of LMU is one of the largest research institutions to be built in Germany in recent years. This modern building was realized with an innovative architecture, and combines the use of wide windows with light coloured terrazzo floors and stairs, to offer a modern and communicative working place. The indoor areas develop on a surface of 3000 m<sup>2</sup> and have been covered using EUVAL terrazzo 93.00 Bono with size 57,2x57,2x2cm.



**EUVAL**<sup>®</sup>  
BETONWERKSTEIN



# ZPF Reichenau

Designed with EUVAL® 81.20 Weigrey

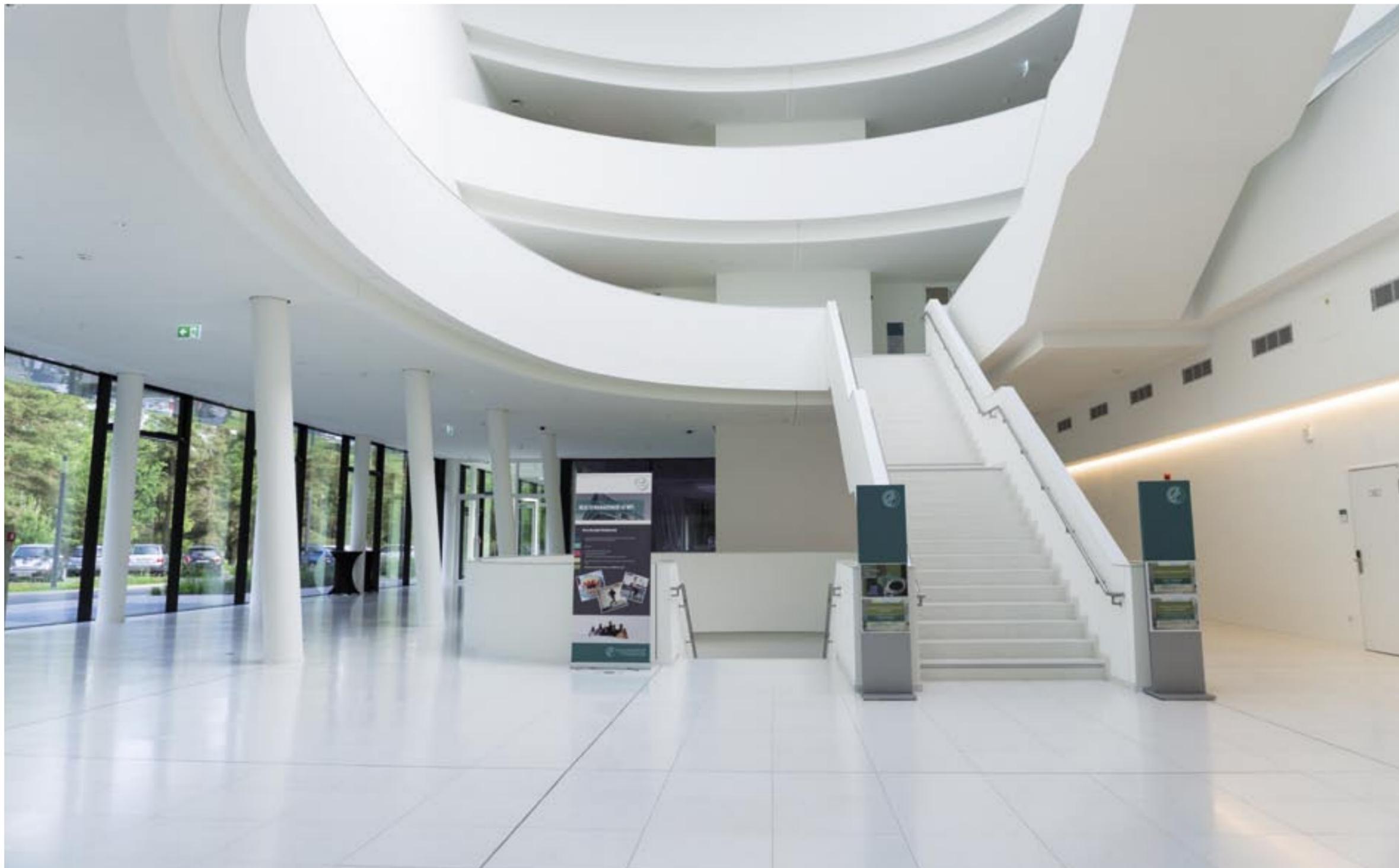
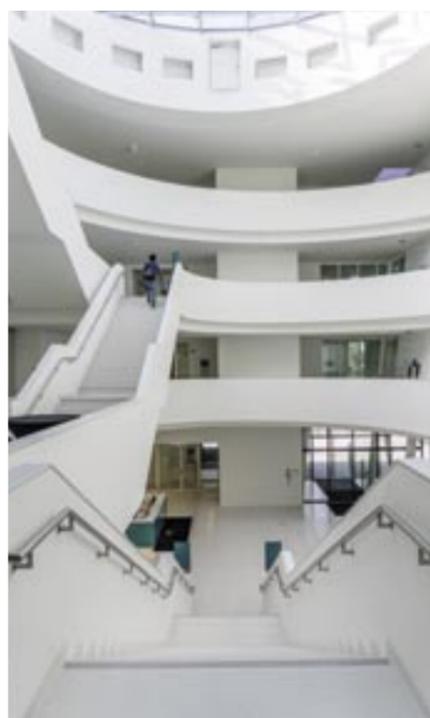
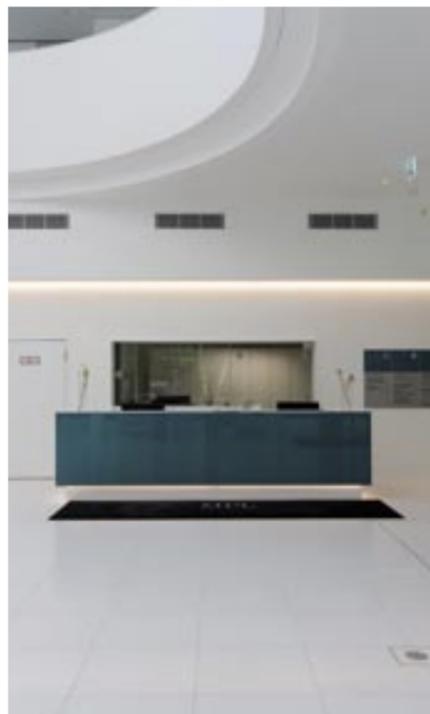
The main areas of the hospital ZPF in Reichenau - Germany was realized with EUVAL terrazzo 81.20 Weigrey. The neutral tones of the floors blends perfectly with the light colours of wood windows frames and furniture. For this project the architect has paid particular attention to create an area, that guarantee accessibility for the visually impaired, using the EUVAL tactile paths system.



# Max Planck Institute Erlangen

Designed with EUVAL® 81.10 Weibla

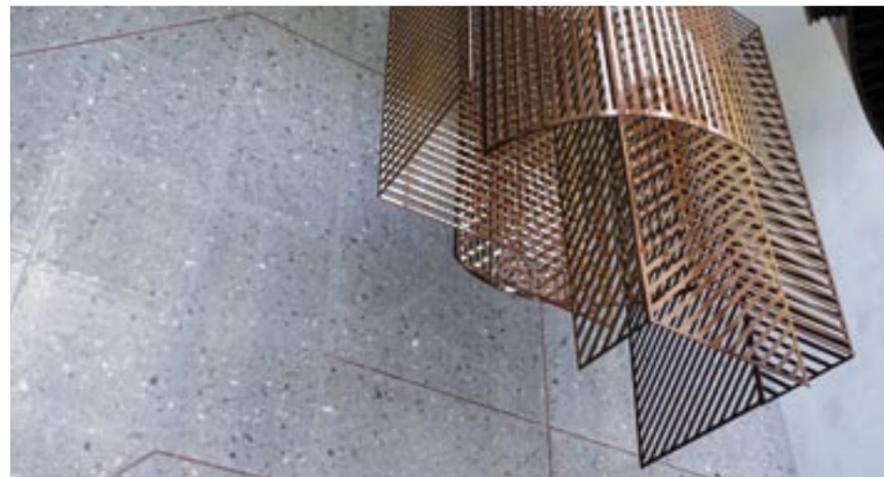
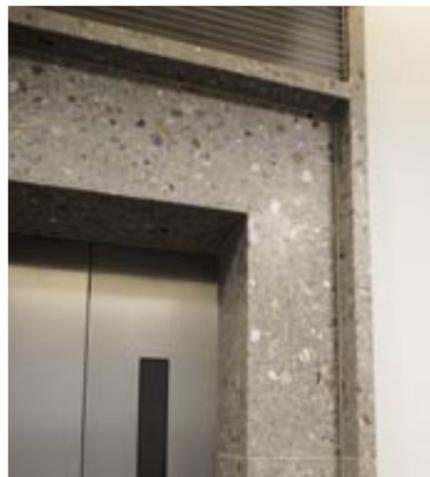
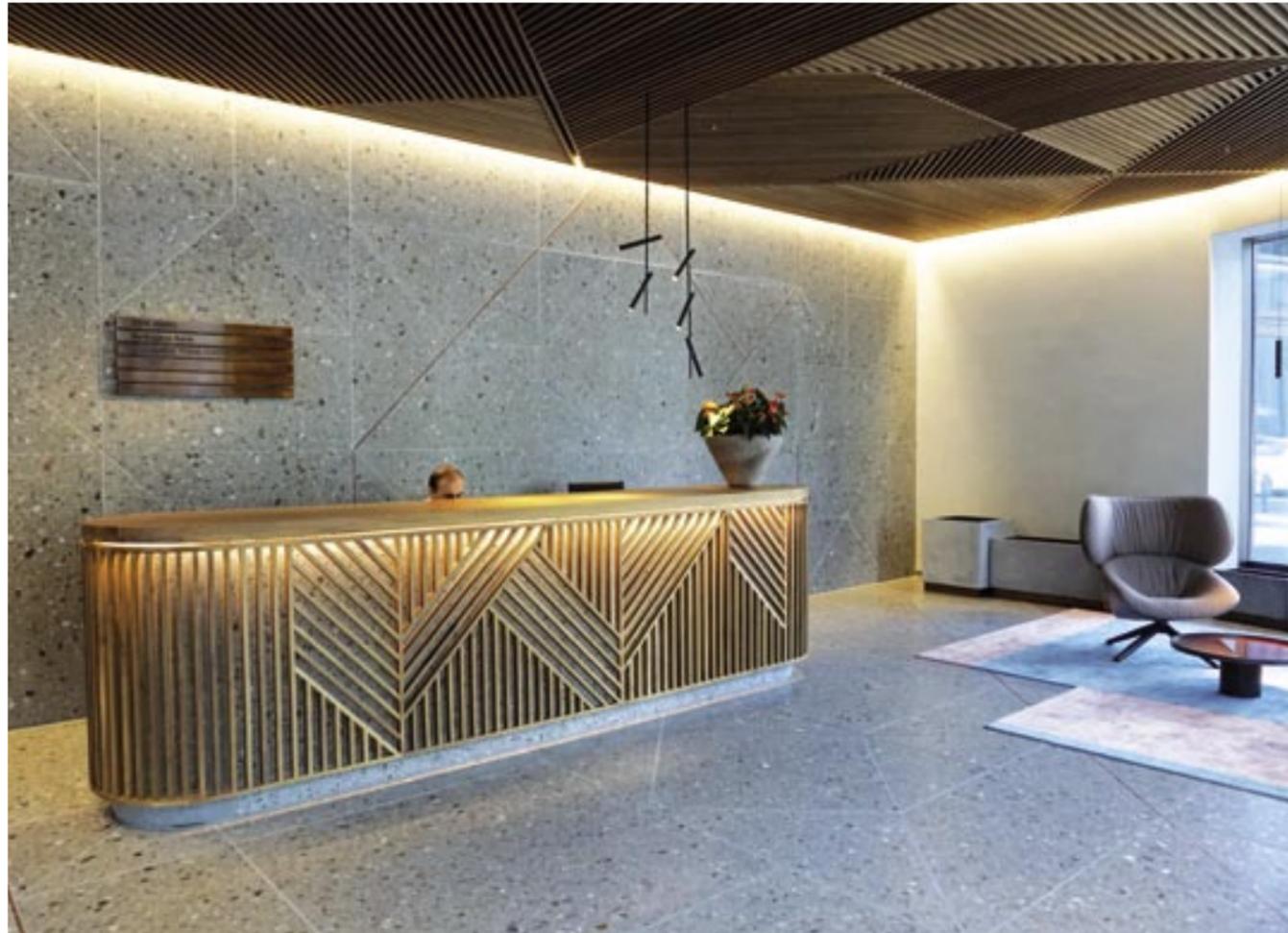
The Max Planck Institute in Erlangen represents an innovative modern building with an avant-garde design. The Institute for the Science of Light was designed with a total white look following a concept of neutral and elegant image. The entrance is characterised by a wide open space dominated by the main stair. The architect played with straight and circular lines, that lead your eyes up till the roof windows, that illuminates the atrium. The project covers an area of 1500 m².



# Marienforum Frankfurt

Designed with EUVAL® SM130

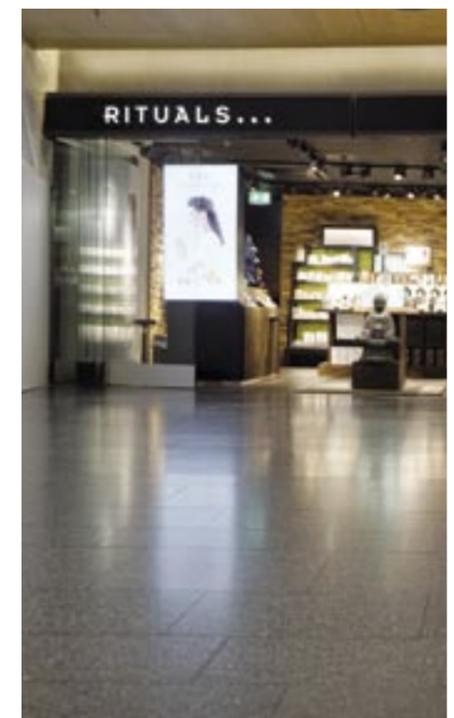
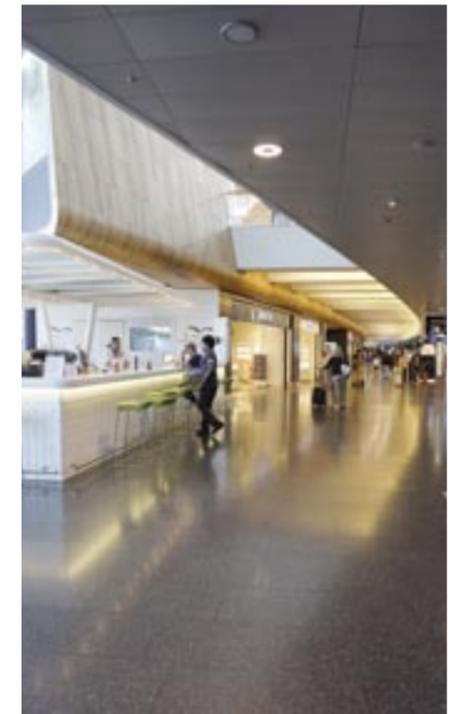
Situated in the heart of the business district of Frankfurt am Main, the Marienforum offices present spaces with a strong personality and character. To cover walls and floors of the main areas was selected EUVAL terrazzo SM130 in a richness of geometrical size variety with some inserts of red marble that deliver an outstanding visual impact. The modern furnitures and the use of wood contributes to achieve an elegant and contemporary décor. The rooms are characterised by the realization of lift door casings in terrazzo that reflect the importance of this architectural project.



# International Airport Zurich

Designed with EUVAL® GG340

The International Airport of Zurich is constantly subjected to high foot traffic. To cover this wide area of 20.000 m<sup>2</sup>, EUVAL team developed a successful solution that meets all the requirements of the project. Our experience and knowledge of raw materials has allowed us to create the bespoke terrazzo EUVAL GG340, a valuable product with high technical performances and high abrasion resistance. The architect developed the floor surface with 3 bespoke sizes: 86x40x3cm - 86x49x3cm - 86x57x3cm.



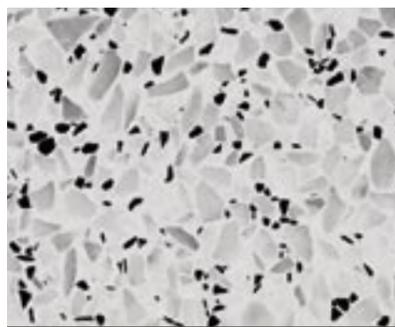
# STANDARD COLLECTION



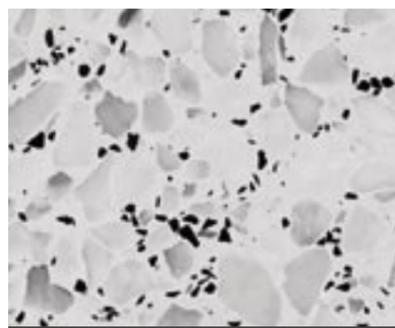
92.50 CARBI



91.50 KENNHA



92.40 ESCO®



91.60 KAFUC



93.00 BONO



90.31 BOT 15



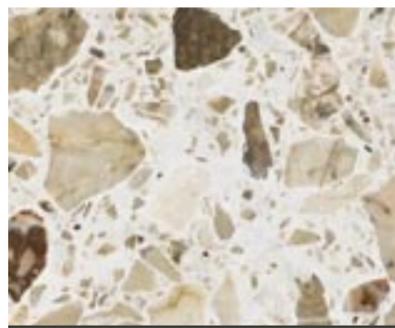
90.32 BOT 25



92.60 PALMA



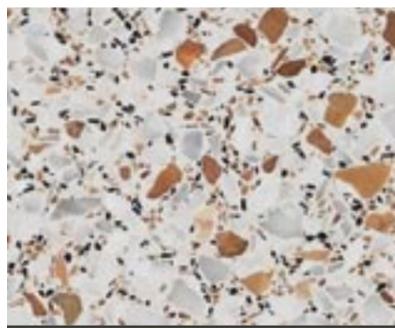
90.21 BA 15



90.22 BA 25



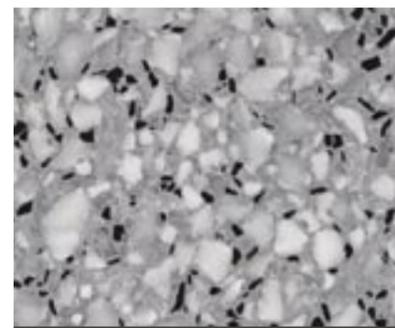
91.40 SIBLE



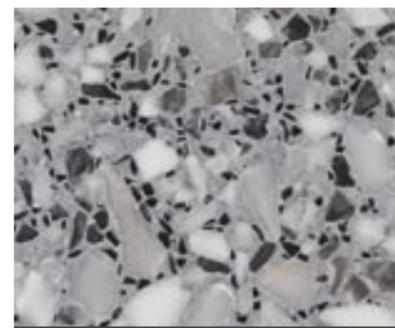
93.50 BRAGHI



93.40 ETNA



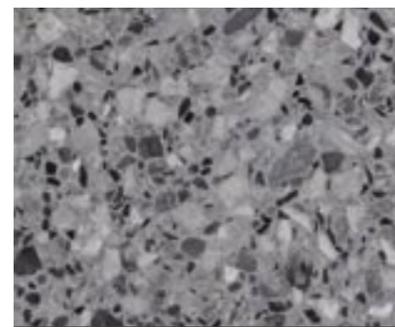
93.70 PIRA®



92.30 CARGREY®



92.70 GRALO



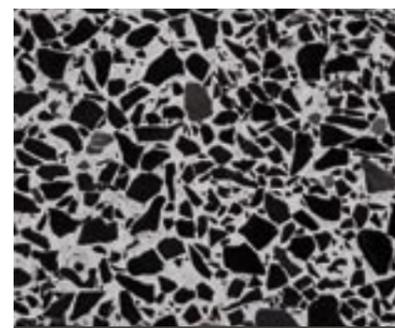
92.80 GREBI



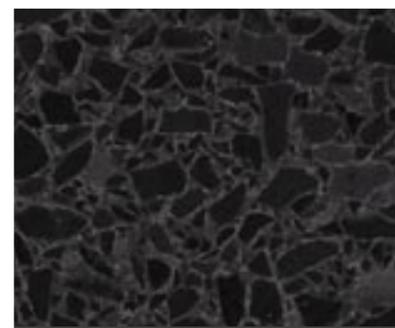
92.90 LEGREY



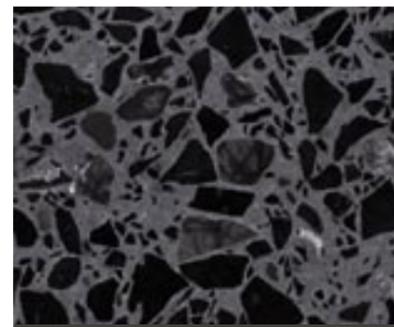
93.10 VIOLEG



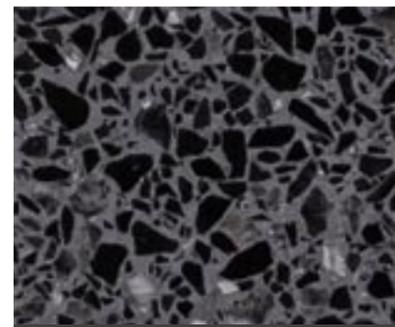
99.70 BLAMAR



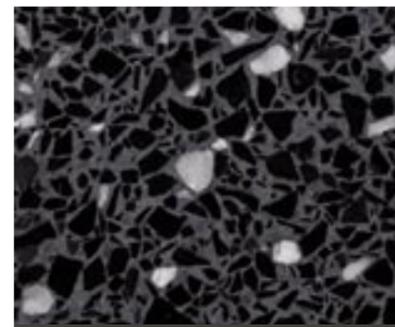
94.20 BLACKAN



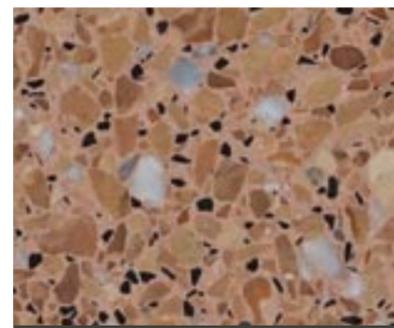
99.50 BILAK



99.60 BLAWHI



99.80 NEKAN



92.10 RONUV

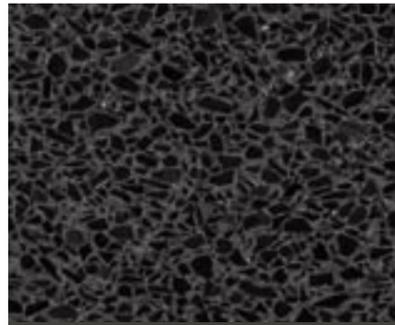


94.32 VERDALP 25

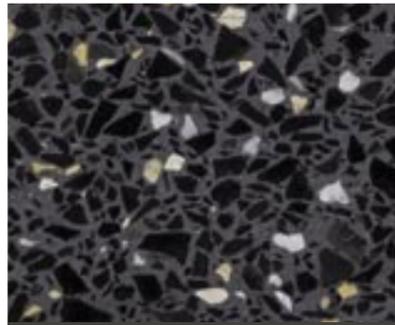


92.02 GV 25

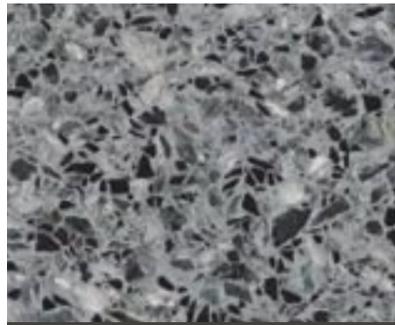
# ABRASION COLLECTION



80.10 NEBAS



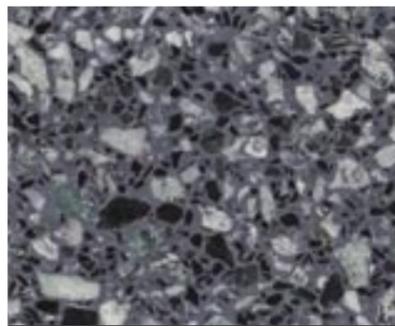
80.30 NEMOR



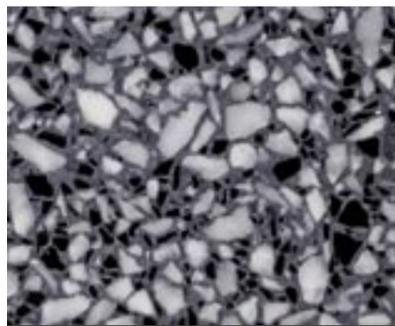
80.50 ALWER



80.20 CARAN

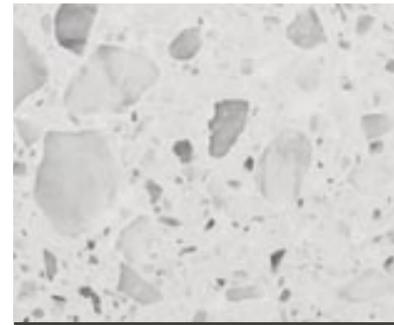


80.40 DAVER

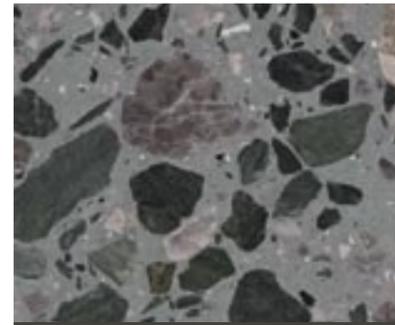


80.60 GRIBAS

# MATHERIA COLLECTION



82.10 SIVAK



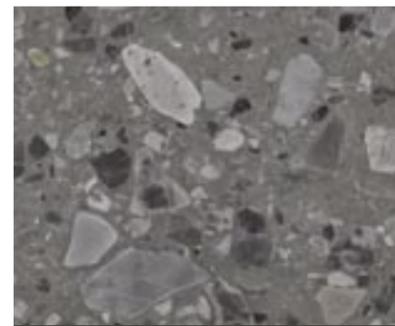
82.30 MEDAS



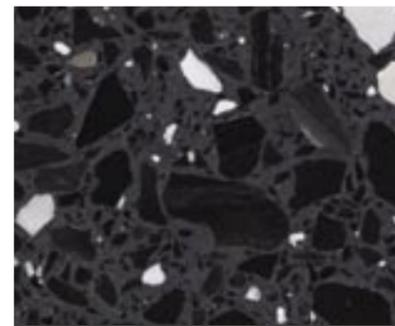
82.50 ARGOR



82.20 NAZAN

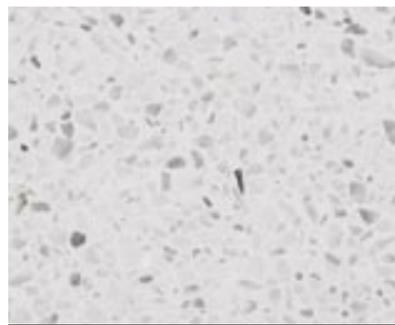


82.40 KODRA

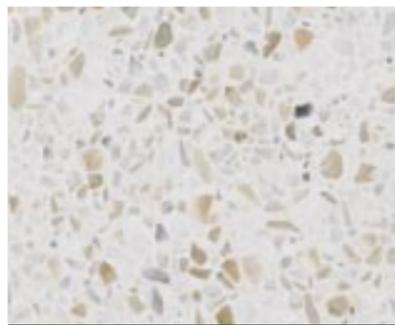


82.60 MAVEL

# ESSENTIAL COLLECTION



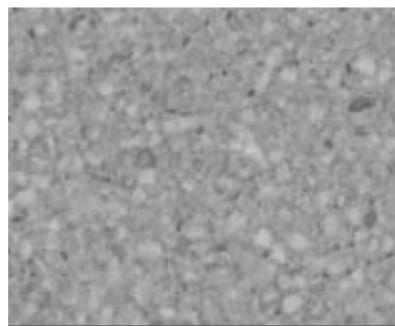
81.10 WEIBLA



81.30 SCHIBAS



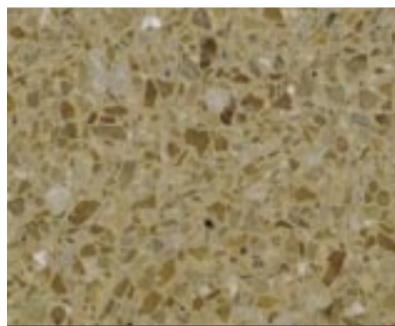
81.50 BOSKA



81.20 WEIGREY



81.40 SANEC



81.60 KAYAN

# EUVAL TERRAZZO WHAT MAKES THE DIFFERENCE!



Explore the design of the future!  
Make your ideas become reality  
and make your projects special!  
With EUVAL almost  
everything is possible!

The world of design is always reinventing itself under the influence of new trends and ideas. That's why EUVAL is expanding its vision into new futuristic directions to open new perspectives.

ColourLab gives the designer unlimited possibilities to find new materials through new colour combinations. The keyword is experimentation: find the best combinations of background and stone chips! Choose the mix that suits your needs! Set new accents on your material to achieve perfection! Design unique projects never realized before.

# TRADITION LEADS TO INNOVATION

Research and development  
are the engine to create  
a unique product that meets  
all the highest expectations!

Experience, improvement, evolution... for over 40 years, the EUVAL team has dedicated itself to offering a high quality product through traditional knowledge and the development of new, high-performance technologies.

EUVAL terrazzo is manufactured exclusively by EurAgglo srl in Lugo di Grezzana (VR) - Italy, under the outstanding quality control of our specialized team, and offers the advantages of fast delivery time, flexibility and competitive pricing.

The use of high technology plants and the first quality raw materials combined with the traditional craftsmanship, allow us to offer a high quality, durable and long lasting material.

## Customer Service:

Because we take care of you!

EUVAL terrazzo is always committed to ensuring customer satisfaction. For projects both large and small, we offer an efficient service with competitive prices. Our aim is to continuously inspire our customers to find the best solution for their project.

EUVAL provides answers for a multitude of different architectural and aesthetic requirements thanks to the careful attention we pay to new trends and evolutions in architecture.

In recent years, we have increased collaborations with architects and designers to find new solutions. Together, we have designed successful and stylish interiors, that meet the highest expectations of users.



# ARCHITECTURAL SOLUTIONS

**EUVAL**<sup>®</sup>  
BETONWERKSTEIN

Discover how to use EUVAL solutions to personalize ambitious and characterful projects.

With a capacity of production of more than 100 m<sup>3</sup> of blocks per day, EUVAL produces terrazzo with an high technology plant of latest generation, where white cement and marble chips in different sizes are dosed, mixed and transformed through a vibro-compaction system, into large, rough blocks that measure 305x125x85cm and 305x140x85cm. After 28 days the blocks reach the required seasoning time resulting in a durable and long lasting material that can be cut into slabs, tiles, skirtings and cut to size. One of the main benefits of block production is the guarantee of colour uniformity even on large surfaces.

**Size:**  
305x125cm - 305x140cm

**Thicknesses:**  
from 2cm till 6cm

**Finishes:**  
Honed R9 - Brushed R9 - Polished  
Honed R10 - Sandblasted R11

**Size:**  
50x30cm - 60x30cm - 60x40cm  
30x30cm - 40x40cm - 60x60cm  
50x50cm - 80x80cm - 90x90cm  
100x100cm - 120x120cm

**Thicknesses:**  
from 2cm till 4cm

**Size:**  
50x7cm

**Thicknesses:**  
1cm

## SLABS

The latest technologies allow the production of slabs in large sizes that meet all the requirements of each project. Slabs in the dimensions of 305x125cm or 305x140cm are cut with blade gangsaws to the required thickness, and are available in various surface finishes.

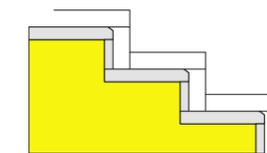
## FLOOR TILES

EUVAL terrazzo offers maximum flexibility in the choice of sizes, thickness and surface finish. The different installation possibilities expands architectural perspectives and allows the possibility of playing with geometric shapes.

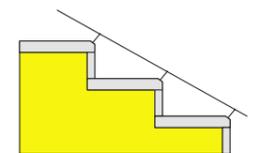
The outstanding technical properties such as abrasion resistance, colour uniformity and ease of maintenance, confirm EUVAL terrazzo as an optimal material for large commercial and high foot traffic areas.

## SKIRTING AND STAIRS SKIRTING

EUVAL terrazzo skirtings, stairs skirtings and stairs stringers can be created in different sizes and widths. These are made with same material as tiles and stairs, guaranteeing homogeneity of colour on all surfaces, adding value to your project.



Stairs skirting



Skirting boards

# STAIRS AND CUT TO SIZE

Stairs play a vital role in the architectural construction of your project.

Cover staircases with style and character: EUVAL offers a wide range of customization possibilities. Choose between various types of steps to create stairs with a strong aesthetic effect that become a focal point in any space.

Every single step is carefully produced with precision by our expertise team. Using innovative systems and the latest technology, we can manufacture stairs with a cutting list, a template or with a .dwg or .dxf file.

## Size:

From your measurement  
From template  
From .dwg or .dxf file

## Thicknesses:

from 2cm till 6cm  
2+2, 2+3, 3+3,  
3+4, 4+4cm



Tread with riser retracted



Tread lying as pre-glued step



Riser in front of tread



Tread with riser on bevel retracted



Stair with V beveling



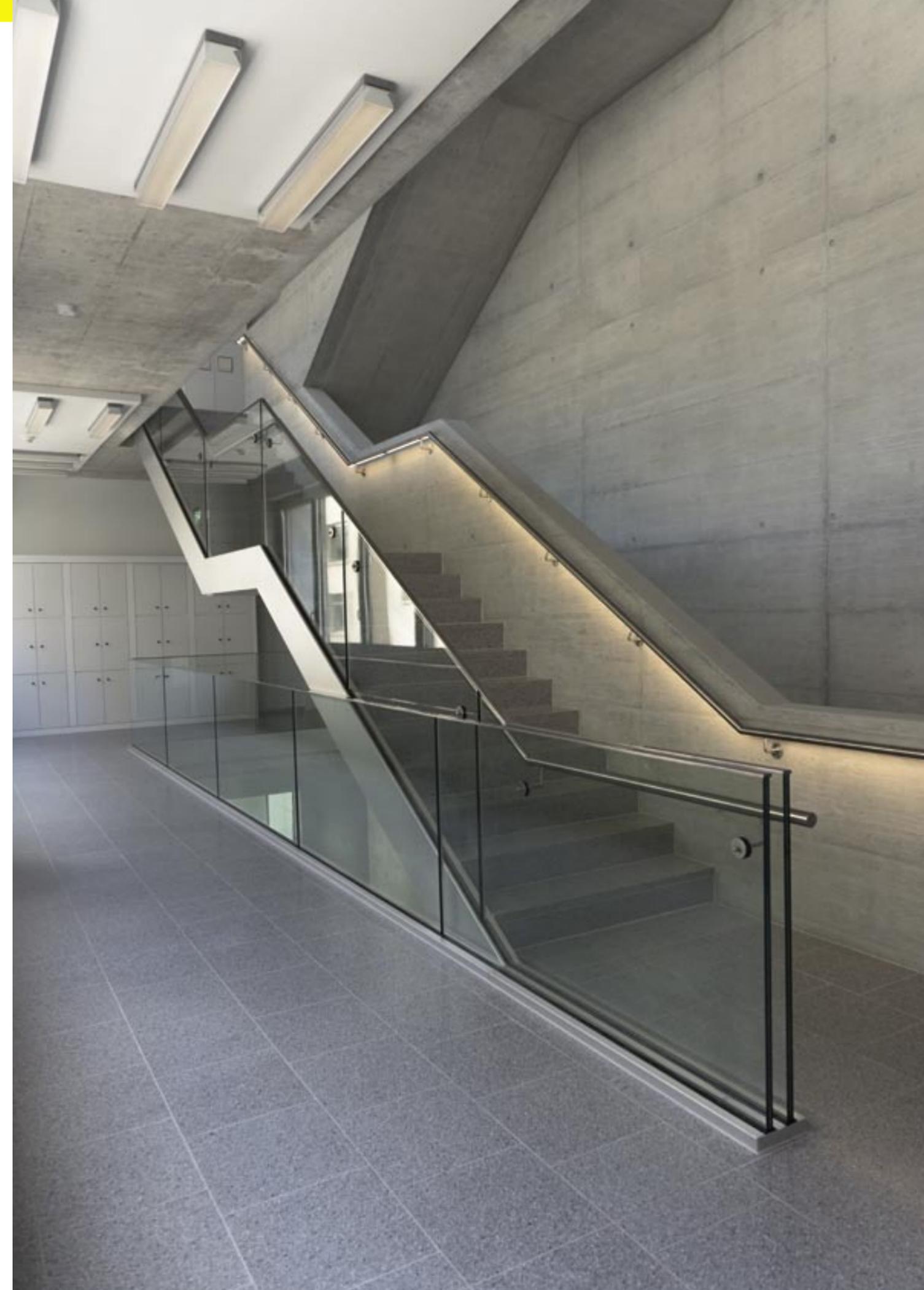
Tread with riser with rough kerf

## Joints:

In accordance to DIN 18333  
Between treads and risers  
the width of joints should be 2mm.

## Laying advise:

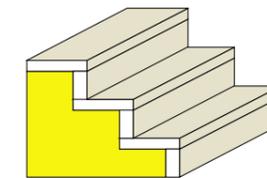
In accordance to DIN 18333 - paragraph 3.2.2  
Lay steps without tension into only 2 mortar strips with a width < 15cm.  
Warning: for steps with a length >110cm, the mortar strips must be placed more inside (at approx. 1/6 of the total length).



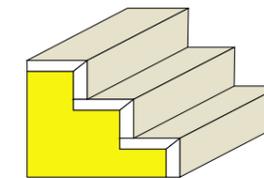
## PRE-GLUED STEPS

A clever alternative for easy installation to save time and money!

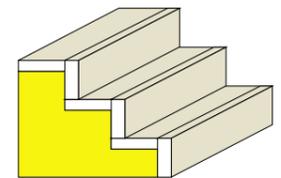
Easy, faster installation, customizable profiles... these are some of the benefits of pre-glued steps. Our constant desire to search for improvement and to make installation easier, has driven us to develop these innovative systems. Tread and riser are glued together with high precision by our qualified staff. 7 different profile systems make this a product that can be personalised to suit the project.



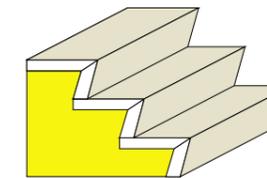
Type A



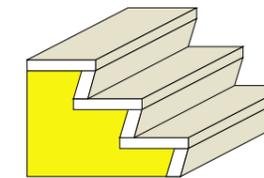
Type B



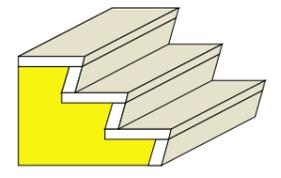
Type C



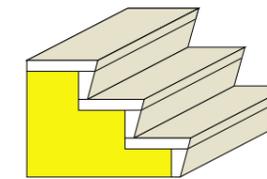
Type D



Type E



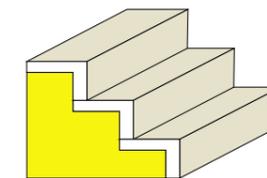
Type F



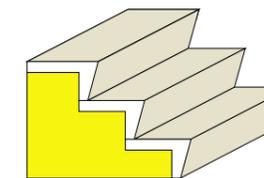
Type G

## MONOLITH STEPS

Monolith steps are an alternative to pre-glued steps. The step is realized in a unique L-shaped piece through a sophisticated cutting process.



Type M100



Type M200

# ANTI SLIP SYSTEMS

Customizing the stairs with anti slip systems for a better user's experience!

When planning public buildings, it is important to pay close attention to the safety of users. EUVAL terrazzo offers a wide range of solutions that not only contribute to the increased anti-slip properties of the material, but can also provide optical contrast where required. All of our anti-slip systems are available in various designs, e.g. continuous, with 1 stop or with 2 stops.



Anti-slip gum in PVC



Sandblasted strip



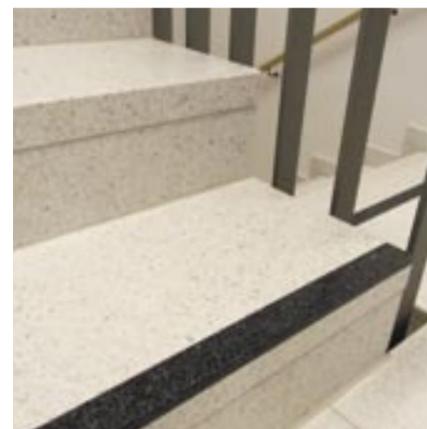
Stainless steel blade



Carborundum strip



Non slip groove



Contrast strip

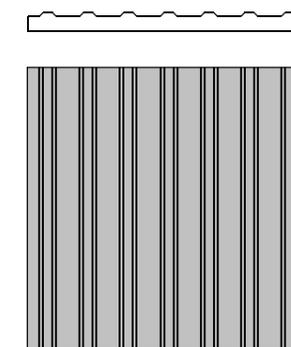
# TACTILE PATHS

Real solutions that exceed limitations and achieve every goal.

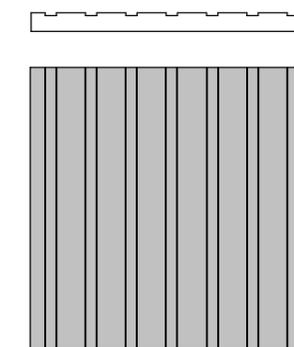
EUVAL has developed a simple flooring system that offers elements in relief that guarantee accessibility, more independence and safety for the visually impaired. Moreover, tactile paths of a different colour from the surrounding flooring can be applied to create contrast as additional element of communication for the visually impaired.

## GO Straight direction indicator

The GO system is composed of tiles with grooves that run in a straight line parallel to the direction in which the user is walking. The trapezoidal shape has been studied to be more recognizable.



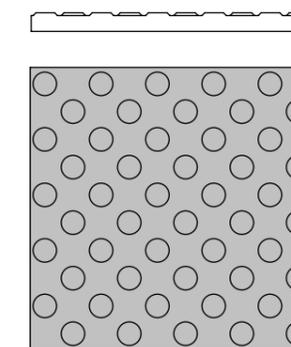
GO1



GO2

## STOP Danger indicator

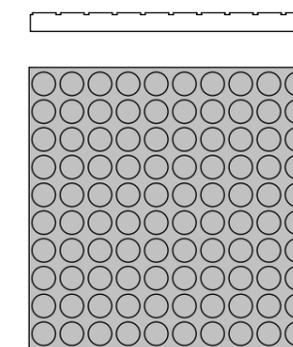
This system is composed of tiles with a diagonal network of spherical caps that can be sensed underfoot so as to make walking on them for any length of time, uncomfortable.



STOP

## CROSS Change of route indicator

The CROSS system is composed of tiles with a close-knit network of spherical caps applied perpendicularly to the direction the user is walking in. They are positioned near the points where a route changes, in order to indicate to the user that attention needs to be paid to the variation.



CROSS

# CONTRAST STRIP

A visual contrast to increase safety to your stairs.

By marking the front edge with a contrast strip, staircases can also be accessed barrier-free for visually impaired users. This strip forms a visual contrast and is a signal of attention.

According to DIN 18040-1 Chap. 4.3.6.4 the contrast strip should:

- be continuous
- start directly on the edge of tread and should be 4-5cm wide
- start directly on the edge of riser and should be 1-2cm wide
- be visually contrasting
- be integrated into the step area at the same level

# CERTIFICATES AND TESTS

The certainty of a valuable product, constantly tested and certified by different accredited certification bodies.

## DIN V 18500 and DIN EN 13748-1 certifications

EUVAL terrazzo complies with the high quality requirements of DIN V 18500 and DIN EN 13748-1 standards, which are constantly checked by our staff and by the German Institute Güteschutz Hessenbeton e. V. in Wiesbaden. Every EUVAL terrazzo material has technical data sheets available.

## LEED certification

LEED certification system (Leadership in Energy and Environmental Design) is an international certification program that promotes and increases the high performances of sustainable buildings. The aims of the LEED standard is the promotion of awareness of builders and architects to build environmental sustainable constructions by assigning points to the constructed buildings.

Architects, engineers, designers, builders, interior designers and civil service use LEED system to promote the good practices of a sustainable design, to bring not only a positive impact on human health and on the planet, but also to reduce the passive costs.

## CE marking

The CE marking declares that the product meets the security directives required by the European Union, which aims to preserve human health and safety in the buildings constructions. For all EUVAL terrazzo materials are available the declarations of performance CE (DoP) and CE marking sheets, in accordance to Annex ZA of the standard EN 13748-1.

# THINK GREEN!



EUVAL terrazzo is committed to developing a product for modern architecture with a focus on environmental protection. The use of natural raw materials, without any chemical substances, allows us to provide an environmentally friendly product for improving the quality of life for future generations.

# LAYING INSTRUCTIONS

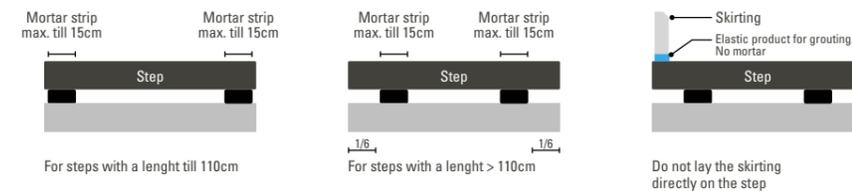
The following instructions should be considered as a general guidelines for laying terrazzo, and are not binding. EUVAL nevertheless advise you to follow the local laws and regulation for terrazzo installation of the country where the material will be installed.

## Verification of materials and foundation

Upon receipt of materials and before the installation, the pieces must be carefully checked for the verification of colours, sizes, or some defects. Claims on laid materials for defects visible before installation, can't be accepted. Before laying, we advise to proceed with an indoor acclimatization of the materials, unpacking and let them dry on a wall with an all-round ventilation storage. The materials should be installed dry and without humidity. The foundation must be clean, dry, free from humidity and oil and shouldn't be frozen and without cracks.

## Laying stairs in EUVAL terrazzo

Steps should be laid without tension into mortar strips with a width <15cm (in accordance to DIN 18333 paragraph 3.2.2). Full surface laying or mortar strips >16cm can cause cracks, especially in case of fine grits materials. For steps longer than 110cm, the mortar strips must be placed more inside (at approx. 1/6 of the total length).



### Laying systems:

Tiles with a size:  
 ≤ 50x75cm lay on full surface  
 > 50x75cm lay on mortar strips

### Joints:

In accordance to DIN 18333:  
 - Tiles with length ≤ 60cm, joints should be 3mm width.  
 - Tiles with length > 60cm, joints should be 5mm width.

By wide areas, it's recommended to plan expansion joints at regular distances.

## Laying tiles in EUVAL terrazzo

Before laying, the backside of the tiles should be cleaned. In order to achieve better adhesion between tiles and mortar bed, the material can be treated with a special bonding emulsion. The mortar should be "plastic" and not too dry, so as to be able to level the tiles flush. The mortar/adhesive should be applied professionally without gaps between tiles and foundation.

In accordance to DIN 18333 tiles must be laid in stack pattern or in 3/4 brick pattern. 1/2 brick pattern is to avoid. Big size tiles must be laid only in stack pattern.

## Joints

By steps is important to ensure possibility of expansion, joints with walls must not be mortared. Between treads and risers, the width of joints should be 2mm. So is ensured the mobility of the stairs. Before grouting, the joints should remain open for at least a week. Once this period has passed, they should be filled with jointing mortar (ready mix jointing mortar or a mix of quartz, sand and cement).

## After laying

Once the material has been laid, we recommend to cover the surfaces with a polyethylene sheet, to prevent not uniform drying, tension and cracks. The material shouldn't be subjected to air currents. After installation the surfaces must be kept clean and free from materials that can damage the surfaces during the realisation of other operation by painters, electricians or other workers.

# CARE AND MAINTAINANCE

For the cleaning, protection and care we advise to use products with a neutral pH (7 to 10), because terrazzo is an acid sensitive product.

## First cleaning

Post-laying cleaning is very important to secure a lasting beauty and to maintain the high value of the material over many years. After the installation, we advise as soon as possible to remove cement rest and dirty, an inadequate or late first cleaning can alter the surface appearance.

After the completely dry of the mortar, it is recommended to clean the surfaces with a specific stone care product. Before proceeding to use stone care products, always follow the manufacturer's instructions.

## Protection's treatment

After the first cleaning it is recommended to give a protective treatment with an impregnator sealer, to increase the stain resistance and to make the cleaning easy.

Before grouting and to give the impregnator sealer, the surfaces and mortar glue must be completely dry.

We advise a waiting time for the completely dry of ca. 4 till 6 weeks. These waiting times are approximatively, and may vary depending on weathering and circumstances of project.

Before to seal the surfaces, it is recommended another cleaning with a dry time of ca. 24 hours, to remove all dirt residue.

We advise to install only not treated material. The laying of pre-sealed material can give some problems, consequence of a not uniform drying of moisture. The result can be difference of colour on surfaces and deformation with cracking.

With a pre-sealed material, the joints remain untreated, and it is therefore necessary a further treatment.

## Regular cleaning

For a regular cleaning we advise to use only hot water with a neutral pH detergent, without additives. Avoid acid and alkaline detergents.

## What you need to know

Avoid contact with products such as vinegar, wine, lemon juice or sanitary cleaners (pH < 7). There are acid and can damage the surfaces. Also highly alkaline (pH > 10) and solvents or abrasive can damage the surfaces.

## Cleaning products

For the cleaning, protection and maintenance of EUVAL terrazzo, we advise the products of Möller Chemie, Lithofin and Fila.

Ask directly to your local retailer, for specifically terrazzo's cleaning, protection and care products.



The results are tailored products to deliver project excellence.

**EUVAL**<sup>®</sup>  
BWS  
**BETONWERKSTEIN**



**EURAGGLO**<sup>SRL</sup>  
EUVAL<sup>®</sup> BetonWerkStein

Via Domenico da Lugo 12  
37023 Lugo di Grezzana, Verona, Italy  
Tel. +39 045 880 1950  
Fax +39 045 881 9490  
info@euval.com

[www.euval.com](http://www.euval.com)