### **GEOMATERIALS**

expanded glass

# MORE REASON TO FEEL WELL.

LIGHT INSULATION AND LEVELING LOOSE OR BOUND.





Made from waste glass and 100% mineral.

EASY. WARM. STABLE.

GEOMATERIALS expanded glass are light spheres that are used wherever cold, moisture and noise need to be banished. This is a building material that is light as a feather, resistant to moisture, dimensionally stable and resistant to aging. It is also ideal for a loose or bound thermal insulation fill.

As a light insulation and leveling compound, this building material meets the highest quality requirements and can be used in a wide variety of applications whether it is beam ceilings, cavities and gaps or floors.

GEOMATERIALS expanded glass is THE environmentally friendly and mineral alternative to conventional cement-bound EPS fill under the screed.

### A MULTITALENT WITH MANY ADVANTAGES

#### ÿ High thermal insulation

Air is a very good insulator. The numerous closed cavities therefore result in good thermal insulation even when bound in small structural thicknesses. ÿ Easy to process

Simply pour and distribute. No compression required.

ÿ Resilient and dimensionally stable

No shrinkage, no swelling, no long-term settlements, dimensionally stable up to 750 °C. ÿ Lightweight and pressure resistant

Due to its cell geometry, it is very pressure-resistant and light as a feather. ÿ

Sound absorbing

Ideal as leveling fill in the false ceiling. Increases the acoustic effectiveness of building materials.

ÿ Moisture resistant Dries out again easily and does not provide mold with a breeding ground.

ÿ Resistant to bacteria, frost, aging, rotting, moisture, acid, insects and rodents. ÿ Health friendly

Since it is made from waste glass, it is non-toxic, fibre-free, solvent-free, odorless, anti-allergenic and radiologically harmless. ÿ Incombustible class A1 and it does not develop any harmful gases in a fire.

ÿ Quickly accessible ÿ

Sustainable No consumption of raw materials as it is made from recycled material

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#### This is how GEOMATERIALS expanded glass is made.

### WASTE GLASS AS A RAW MATERIAL





The raw material for GEOMATERIALS expanded glass is waste glass. This valuable secondary raw material is recycled via collection systems.

GEOMATERIALS expanded glass is made from selected glass fractions that are not used in the production of bottles and glasses.

GEOMATERIALS expanded glass thus closes a gap in the recycling cycle and protects natural resources.

#### THE PRODUCTION: First,

recycled glass is finely ground, mixed and shaped. The so-called green grain is then sintered and foamed (expanded) in the rotary kiln. This process produces light, round grains with a closed fine pore structure. After cooling, the cream-white granules are divided into individual grain fractions by sieving.

#### GEOMATERIALS



SCOPE OF APPLICATION NEW CONSTRUCTION/REFURBISHMENT

A HIGH-QUALITY PRODUCT MADE FROM WASTE GLASS

### Lose insulation fill

#### with **GEOMATERIALS expanded glass** with/without screed







Leveling fill between

upholstery wood



As a loose fill between beam ceilings and in cavities, GEOMATERIALS expanded glass fills every gap. Easy and uncomplicated to process, it insulates perfectly and also creates a pleasant, pollutant-free room climate. In new builds and renovations, GEOMATERIALS expanded glass makes it easy to cover pipelines and cable ducts and insulates noise. In the refurbishment of listed buildings, it scores with vertical interior insulation.

Facing formwork can be filled behind without any problems, as the small balls fill every cavity. In new buildings, it is used as a thermal separation between floor panels and false ceilings.

**ADVANTAGES** 

### ÿ Light: GEOMATERIALS expanded glass

is as light as a feather and thus saves on the dimensioning of the substructure

ÿ Resilient and permanently stable: **GEOMATERIALS** expanded glass stays in shape - no adjustments!

ÿMoisture resistant: made of 100%

MATERIALS Almost no expanded glass water and dries up quickly

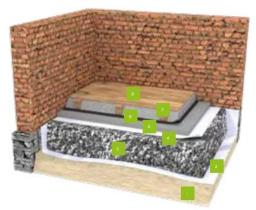
ÿNon-combustible Class A1

GEO

#### Floor construction with screed



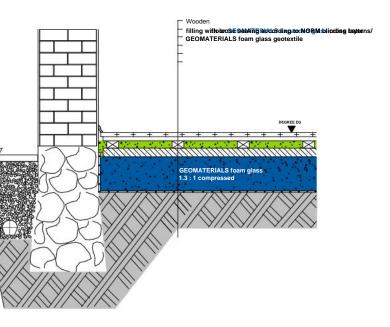
#### Floor construction without screed



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### **GEOMATERIALS**

expanded glass





Top covering (carpet, parquet, ...) laid dry screed elements Impact sound insulation **board GEOMATERIALS** loose expanded glass, trickle protection if necessary (foil, glass fleece, etc.) Wooden

ceiling suspension

Subgrade/old stock . Geotextile as required 2

#### **GEOMATERIALS** foam glass PE film blinding layer\* /GEOMATERIALS

expanded glass sealing according to DIN/ÖNORM\* upholstery wood possibly backfilling **GEOMATERIALS** expanded glass floor

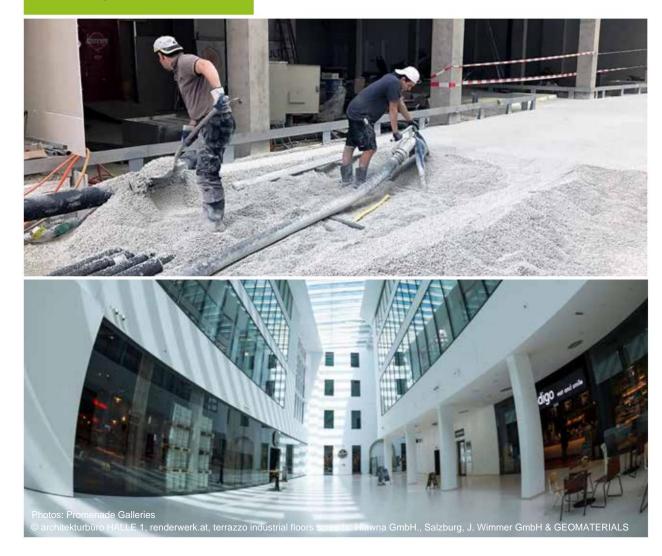
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SCOPE OF APPLICATION NEW CONSTRUCTION/REFURBISHMENT

Bonded leveling fill A HIGH-QUALITY PRODUCT MADE FROM WASTE GLASS

#### with GEOMATERIALS expanded glass



The bound **GEOMATERIALS** expanded glass fill can be used wherever a light and thermally insulating floor leveling is required. The mineral-bound, pressure-resistant fill is used to level floors as leveling fill over cables and pipelines. The healthy living material guarantees first-class insulation with maximum fire safety and fast construction progress. Due to the low moisture content, it can be walked on after just one day without any problems.

Static considerations play an important role when using **GEOMATERIALS expanded glass** for balconies and terraces. Balconies and roof terraces can only be loaded to a limited extent. Since GEOMATERIALS expanded glass is a significantly lighter material than other drainage materials - such as gravel fill - weight can be significantly reduced when insulating roof structures.



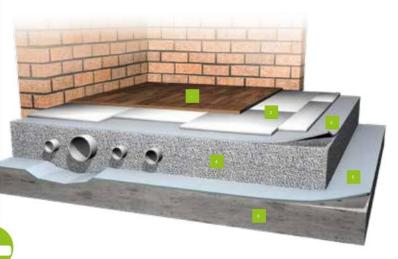
Reinforced concrete formwork cording to static specific

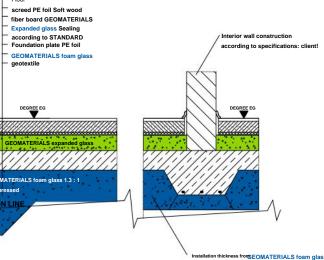
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### **GEOMATERIALS**

expanded glass





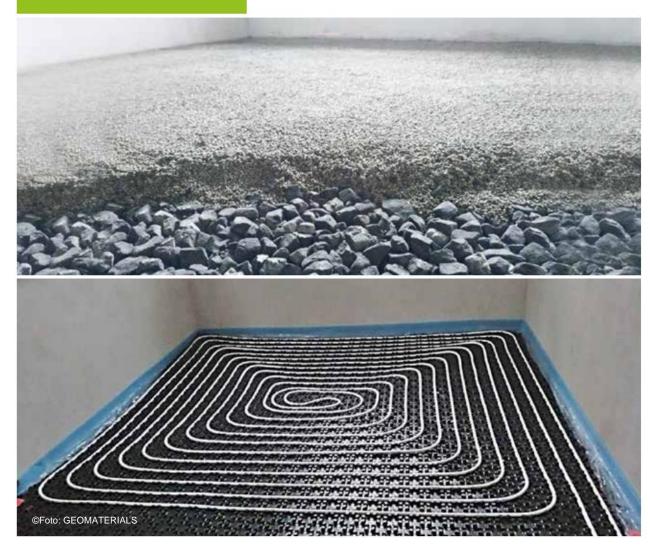
according to design



SCOPE OF APPLICATION REFURBISHMENT

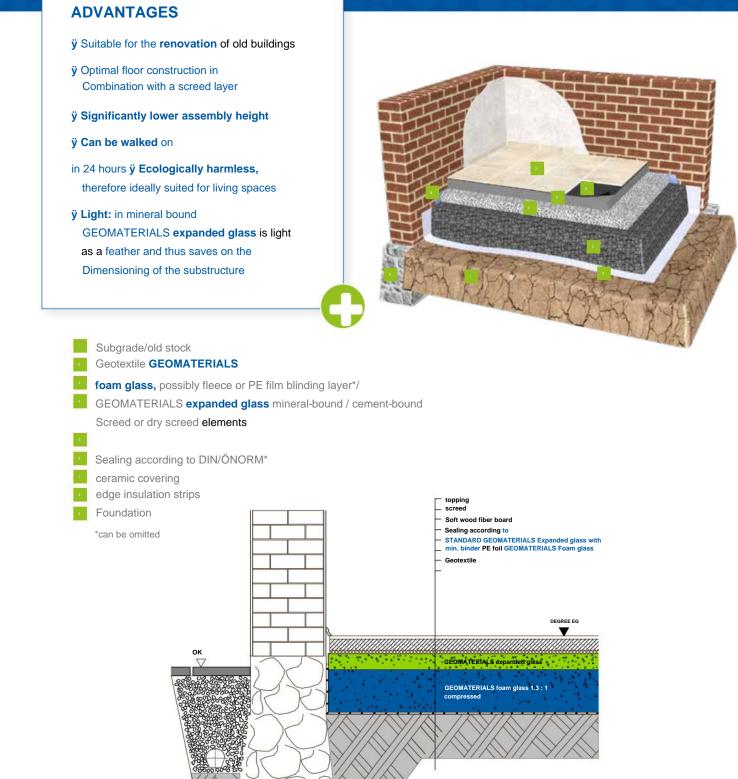
Floor renovation

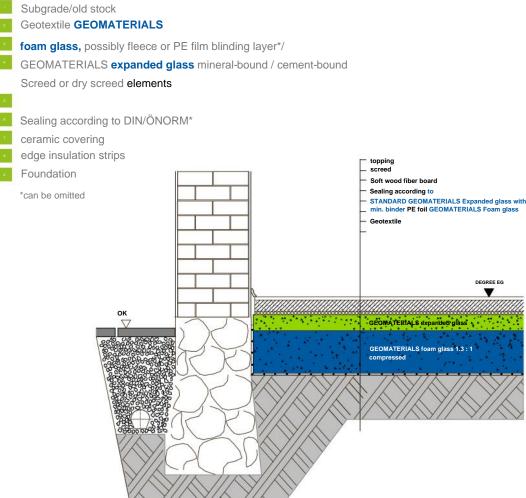
Combination of GEOMATERIALS foam glass & **GEOMATERIALS** expanded glass



The bound GEOMATERIALS expanded glass fill can be used wherever a light and thermally insulating floor leveling is required. The mineral-bound, pressure-resistant fill is used to level floors and as leveling fill over cables and pipelines. The healthy living material guarantees first-class insulation with maximum fire safety and fast construction progress. Due to the low moisture content, it can be walked on after just one day without any problems.

In combination with GEOMATERIALS foam glass, which is used for rough levelling, this is a simple, dry, moistureresistant and non-flammable solution for rebuilding floors.





#### **GEOMATERIALS**



SCOPE OF APPLICATION REFURBISHMENT

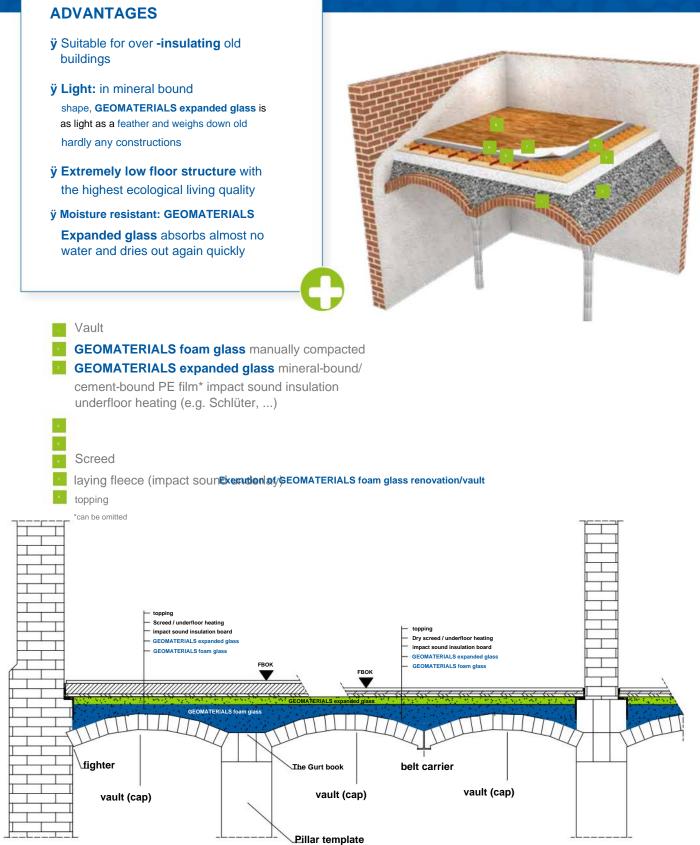
## vault insulation

with **GEOMATERIALS** expanded glass and/or foam glass



#### Lightweight and moisture resistant: **GEOMATERIALS expanded glass** relieves old vaults

Low weight load and a slim floor structure are the main features when over-insulating old vaults. Bringing in as little additional moisture as possible is also desirable. GEOMATERIALS expanded glass is extremely light and enables dry and quick processing. In combination with a finished system for underfloor heating, GEOMATERIALS expanded glass enables an extremely low floor structure with the highest ecological living quality.



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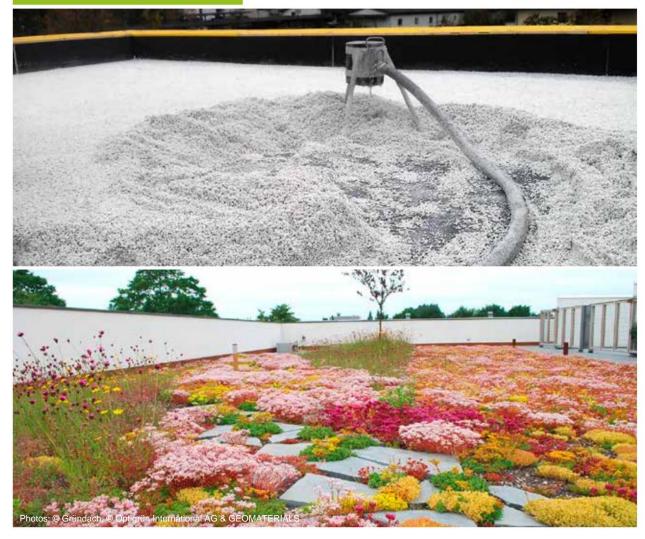
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#### **GEOMATERIALS**

SCOPE OF APPLICATION NEW CONSTRUCTION & RENOVATION

## gradient insulation

#### with **GEOMATERIALS** expanded glass





Unproblematic integration of roof penetrations

Lying under the seal, GEO MATERIALS expanded glass takes on two functions at the same time. As a light, non-combustible insulating fill, the material helps to improve the heat transfer value and relieves the ceiling construction. in the

GEOMATERIALS expanded glass forms the correct gradient without cutting to size.

Penetrations such as processes can be integrated to save time.

The environmentally friendly, heavy-duty leveling compound does not burn, is moisture-resistant and stays in shape.

#### **ADVANTAGES**

#### ÿ Incombustible class A1

ÿ Time-saving: GEOMATERIALS expanded glass is drawn off at a gradient. No cutting, optimal integration of penetrations and drains

#### ÿ Light: GEOMATERIALS expanded glass is

- as light as a feather , even in a mineral-bound form
- ÿ Resilient and permanently stable: GEOMATERIALS expanded glass stays in shape - no adjustments!
- ÿ Moisture-resistant: produced from 100% waste glass, **GEOMATERIALS** Expanded glass absorbs almost no water and dries out again quickly





Special information for flat roofs After

#### **GEOMATERIALS**

expanded glass



curing, the surface must be protected against precipitation with a sealing layer in hot bitumen, or with a sealing layer (flamed) or with a plastic sheet (glued on).

When temporarily covering with a covering film or tarpaulin, make sure that the material can air out sufficiently to prevent condensation from entering.



SCOPE OF APPLICATION REFURBISHMENT

## thermal sanitation of The balcony

A HIGH-QUALITY PRODUCT MADE FROM WASTE GLASS

#### with GEOMATERIALS expanded glass







Optimal integration of processes and Pipe penetrations without cutting

The bound GEOMATERIALS expanded glass filling is easy to process and can be pulled off on a slope.

Integrating pipe penetrations, drains and recesses is easy. Extremely time-saving compared to cutting and laying insulation panels.

#### The eco-friendly, heavy-duty GEO

MATERIALS Expanded glass insulation fill does not burn, is moisture resistant and dries out quickly. It can already after a short time with the other Layer build-up to be continued.

**ADVANTAGES** 

#### ÿ Rapid processing: distinct

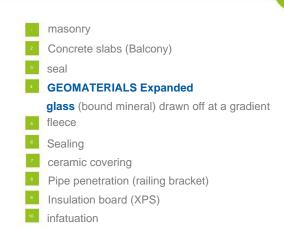
Time savings compared to cutting and laying insulation boards

#### ÿ Incombustible class A1: all raw materials are

of mineral origin, no toxic gases or smoke development in building fires

#### ÿ Pulling off at an incline

- ÿ Easy to walk on
- **ÿ Moisture-resistant:** produced from 100% waste glass, GEOMATERIALS Expanded glass absorbs almost no water and dries out again quickly
- ÿ Resilient and permanently stable: GEOMATERIALS expanded glass stays
- in shape no adjustments!





#### **GEOMATERIALS**





SCOPE OF APPLICATION REFURBISHMENT

A HIGH-QUALITY PRODUCT MADE FROM WASTE GLASS

subsequent Core insulation

from double-leaf masonry with **GEOMATERIALS** expanded glass

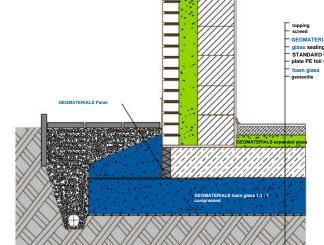


A double-leaf masonry usually consists of a non-load-bearing front wall shell, which serves as weather protection and for facade design, and a load-bearing back wall shell, which serves as load transfer and heat storage. Core insulation is the full insulation between the two masonry walls, i.e. the entire cavity between the two walls is filled with GEOMATERIALS expanded glass . Despite a comparatively thick wall cross-section, this uninsulated construction ensures uncomfortable surface temperatures on the inside of the wall.

In the base area in particular, the use of moisture-resistant, non-settlement insulating materials is essential. Many existing properties can be significantly renovated in terms of energy with relatively little effort by blowing in **GEOMATERIALS** expanded glass .

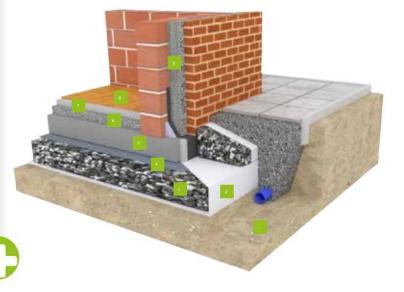
ÿ Ease of processing:GEOMATERIALS Expanded glass is blown loose ÿ Moisture-resistant and open to diffusion, produced from 100% waste glass, GEOMATERIALS expanded glass absorbs almost no water and dries out again quickly ÿ Environmentally friendly and energy efficient ÿ Dimensionally stable: No long-term settlement ÿ Incombustible class A1 ÿ Resistant to aging, rot and rodents Erdplanum/Altbestand Geotextile as required GEOMATERIALS foam glass Fleece or PE film Base plate, sealing according to DIN/ÖNORM \* Leveling fill with GEOMATERIALS expanded glass (bound), PE film Screed or dry screed elements flooring **GEOMATERIALS expanded glass** (loose) \*can be omitted

**ADVANTAGES** 



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#### **GEOMATERIALS**



- GEOMATERIALS expanded glass granulate with a grain size of 2-4 mm is recommended for the base area .
- **GEOMATERIALS expanded glass** protects against water accumulation in the air layer in the base area.
- GEOMATERIALS expanded glass is moisture-resistant and capillary-breaking and thus protects against rising damp. The upper insulation remains dry, moisture damage cannot occur.



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SCOPE OF APPLICATION

## Thermofuss -**Brick** backfill



The granules are filled into the cavities of the brick!



Completely filled hollow brick

Filling is effortless using a granulate slide that is pushed over the bricks.



The ceiling mortar can be applied as usual after the bricks have been swept clear.

Filling consumption for one row of bricks			
Ederplan XP 50 TRIONIC	that. 52.50 l/lm	Height 20cm	
Ederplan XP 50 plusr	that. 62.50 l/lm	Height 25cm	
Ederplan XP 38 System 20	that. 37.50 l/lm	Height 20cm	
Ederplan XP 38	that. 45.00 l/lm	Height 25cm	
Poroplan 38 VZ	that. 50.00 l/lm	Height 25cm	
Sylsiquiau2025	that. 22.40 l/lm	Height 20cm	
HLZ-Plan 25/38 VZ	that. 27.60 l/lm	Height 25cm	

Filling of hollow brick with

**GEOMATERIALS** expanded glass

Thermal separation between floor slab/intermediate ceiling and outer wall: In energy-efficient buildings, the base detail (first row of bricks on the floor slab or basement ceiling) has become increasingly important, along with other connection details. A simple and effective method for thermal separation between the floor slab and the outer wall, as well as between the false ceiling and the outer wall, is to fill and insulate the first row of bricks with GEOMATERIALS expanded glass (2-4 mm). This "thermo foot" solution significantly reduces the vertical thermal conductivity of the vertically perforated brick.

Processing: To avoid thermal bridges, depending on the situation and general conditions, individual rows of bricks can be filled with GEOMATERIALS expanded glass . It reduces the heat flow in all directions and thus helps in the construction of connections free of thermal bridges.

Different grits



**GEOMATERIALS** expanded glass 2-4 mm

Packed in sacks or big bags Preferred area of application: loose fill, bound leveling fill, filling up cavities and bricks

#### GEOMATERIALS Mineral binder Binding

agent for expanded glass granules 14.5 kg sack 1 pallet = 78 sacks = 1,131 kg (dimensions: 1.20 x 0.80 x 1.60 m)

### right binding



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### **GEOMATERIALS** expanded glass



#### **GEOMATERIALS Expanded** Glass 4-8mm 3-8mm

Packed in sacks or big bags Preferred area of application: bound leveling fill

on request

This is what GEOMATERIALS bound expanded glass should look like. ÿ Cement -bound ÿ Resin -bound or ÿ Mineral-bound



## highly stressful leveling fill

#### with GEOMATERIALS expanded glass





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Photo: Testbase - OFFICE AND LABORATORY CLUSTER OF THE CITY OF VIENNA © KUBa Karl und Bremhorst Architekten ZT GmbH / Granit Bau / GEOMATERIALS



Photo: PHI - Philips Haus, Vienna



Photo: Scholjegerdes Hof, 26160 Bad Zwischenahn | Germany © Doyen-Waldecker, Verein für Heimatpflege & GEOMATERIALS



GmbH & GEOMATERIALS



### The right mix: GEOMATERIALS expanded glass

The specified mixture is suitable for the screed substructure. If an even higher compressive strength or a better grain bond is desired, the proportion of binder and water should be increased. In any case, a test field is required and an on-site suitability test is to be carried out.

Recipe example for high thermal insulation with GEOMATERIALS binder (mineral)			
mix volume	1 m <sup>3</sup>		
GEOMATERIALS expanded glass	that. 1000 l		
GEOMATERIALS Mineral binder	approx. 5 bags of 14.5 kg		





Water as needed (may vary depending on mixer performance vary)

GEOMATERIALS expanded glass



NOTE: The be observed!

Prepare the subsurface and installation area. Clean and pre-treat the subsurface (possibly primer improver for flat roofs), if necessary attach edge insulation strips.

### **GEOMATERIALS** expanded glass



**GEOMATERIALS** mineral Binder

mixing time of at least 2 minutes for an optimal mixing result must



to watch video



**GEOMATERIALS** expanded glass

2nd step

Installation step by step

### It couldn't be easier



Completed installation work before thermal insulation



level down to the intended level



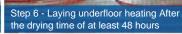


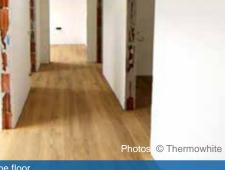
Precise insertion saves time and money

nstalled at the desired level according to the plan



nstallation lines are seamlessly encased and thus isolated



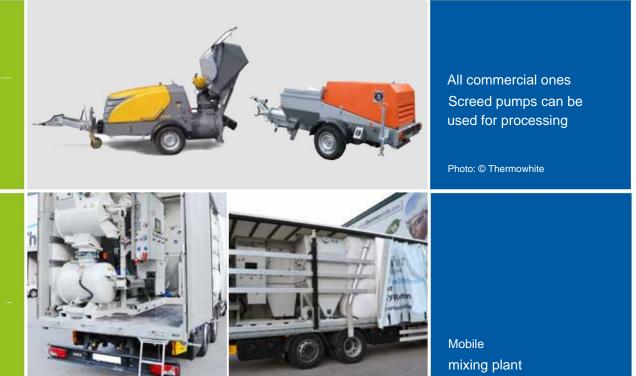


Step 8 - Laying the floor Finally, the desired floor is laid

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### Recommended equipment for installing GEOMATERIALS expanded glass

The devices suggested below are just a selection of many working devices. A hand mixer and a mixing tub are ideal for very small areas.





Application using a screed pump The finished mixture is pumped into the building with a delivery hose. The maximum distance to the installation site depends on the performance of the pump. When mixed in, GEOMATERIALS expanded glass can be carefully processed for up to 30 minutes. Then smooth the surface with a clean slat applying light pressure and remove. When applying several layers, always work "fresh on fresh".



Promote and contribute with the pump pump

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Peel off evenly



## **Technical** Data

Screeds mixed with water require drying times of up to 8 weeks, depending on the humidity in the air or the heat from the heating. Before the screed can be covered with a floor covering, the residual moisture - the so-called readiness for covering must be checked. This is done using the CM measurement (calcium carbide method). The values are determined with a calcium carbide measuring device (CM).

CM measurement to determine the moisture content of screeds





Photos: Promenade Galleries © architekturbüro HALLE 1, renderwerk.at, terrazzo industrial floors screeds: Hlawna GmbH., Salzburg, J. Wimmer GmbH & GEOMATERIALS

NOTES



Declared thermal conductivity ÿ (loose packing)     0,065 [W/m.K]       Declared thermal conductivity ÿ (bound)     0.070 - 0.09 [W/mK] depending on the mixture       PROCESSING / PRESSURE RESISTANCE     mixing time       mixing time     at least 2 minutes (according to DIN/ÖNORM)       Processing time     approx. 30 minutes / 60 min.       Processing temperature min./max.     +5°/+35°C
CE certificate     IN 13055-1       THERMAL CONDUCTIVITY       Declared thermal conductivity ÿ (loose packing)     0,065 [W/m.K]       Declared thermal conductivity ÿ (bound)     0.070 - 0.09 [W/mK] depending on the mixture       PROCESSING / PRESSURE RESISTANCE       mixing time     at least 2 minutes (according to DIN/ÖNORM)       Processing time     approx. 30 minutes / 60 min.       Processing temperature min./max.     +5°/+35°C
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Processing temperature min./max. +5°/+35°C
r roccong temperature minoritax.
Walkable from approx. 24 h (depending on temperature and humidity)
Ready for covering with an installation thickness of up to 200 mm     CM 12% (approx. 4-5 Tage).       Normative requirements for the residual moisture for the function of the residual moisture for the residual moisture for the function of the residual moisture for the function of the residual moisture for the residual
Compressive strength after 24 hours 0,7 N/mm <sup>2</sup>
traffic load 700 kN/m <sup>2</sup>
GENERAL DATA
forms of delivery Sacks in various sizes, big bags, loose 2/4 mm, other grain
grain size sizes on request approx. 170 - 190 kg/m <sup>3</sup> 290 kg/m <sup>3</sup>
bulk density loose
Bound fresh mortar bulk density
Minimum installation thickness > 30 mm
Moisture content of expanded glass on delivery ÿ 0,5 M%
Water absorption for short-term immersion < 2 kg/m <sup>3</sup>
building material class A1 according to DIN 4102, since it is purely mineral
diffusion properties permeable
Fire resistance and gassing when hot non-combustible class A1, absolutely free of gassing,
material radiation no radiation or odors, long-term stability, no damage
alkali resistance to concrete counts as unpolluted excavation, eluate
alkali resistanceto concrete counts as unpolluted excavation, eluateenvironmental sustainabilitytest meets resistance to ageing, rodents, bacteria and rot

The technical guidelines for the use and installation of GEOMATERIALS foam glass and expanded glass are based on previous experience and the current state of the art. They are not individual.

We therefore assume no liability for the completeness and suitability for a specific project. Otherwise, our liability and responsibility are based exclusively on our general terms and conditions and are not extended by the statements in this folder or by the advice of our technical field service.

#### Housing subsidies according to the Upper Austrian Energy

Saving Association. Housing subsidies support the use of ecological and non-mineral oil-based insulating materials in new construction and renovation! More information at: www.energiesparverband.at

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### GEOMATERIALS



## outstanding **Characteristics**

GEOMATERIALS expanded glass is a high-quality product made from waste glass and is 100% mineral. With its many positive properties, it meets the highest quality standards that no other product has in this variety.

GEOMATERIALS expanded glass - always in top form. Whether loose or bound - GEOMATERIALS expanded glass remains dimensionally stable and guarantees the best insulation performance with simultaneous fire and moisture resistance.





ÿ Air is a very good insulator. GEOMATERIALS expanded glass has numerous closed cavities and therefore very good thermal insulation properties.

ÿ GEOMATERIALS Expanded glass absorbs sound and increases the acoustic effectiveness of building materials.

#### HEALTH FRIENDLY

- ÿ GEOMATERIALS expanded glass is pure glass and therefore non-toxic, fibre-free, solvent-free, odorless, anti-allergenic and radiologically harmless.
- ÿ GEOMATERIALS expanded glass can be recycled just like glass.
- ÿ GEOMATERIALS expanded glass does not provide a breeding ground for rodents, insects and mold.

#### HIGH RESISTANCE

ÿ GEOMATERIALS expanded glass is resistant to frost, heat, rot, aging, bacteria, moisture, acids and organic solvents.

ÿ GEOMATERIALS expanded glass is non-flammable and does not develop any harmful gases in a fire.

Perhaps you are also interested in our other **GEOMATERIALS** products: Also online at:

www.geomaterials.eu

HIGH-QUALITY PRODUCTS MADE FR	OM WASTE G
ÿ Highly thermally insulating ÿ	ÿ Pe
Load- bearing ÿ Time / cost-	Cap
saving	Env



## GEOMATERIALS

expanded glass

#### LASS.

- ermanently stable ÿ
- pillary breaking ÿ
- vironmentally friendly and sustainable

GEOMATERIALS foam glass - The optimal loadbearing insulation under the floor slab.

ÿ Highly thermally insulating and ecological

**GEOMATERIALS expanded glass** - The mineral alternative to conventional EPS fill under the screed!

ÿ Environmentally friendly and non-settlement

**GEOMATERIALS Panel** - The foam glass panel that is used wherever cold and moisture need to be banished.

#### ÿ Ecological and waterproof

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