



**INSULATING WITH FOAM GLASS**





# GLAPOR – BUILDING SOLUTIONS IN CELLULAR GLASS

**GLAPOR offers everything from a single source.** Our Foam glass boards and foam glass gravel are manufactured using our in-house production facilities – We are currently the only company in the world that manufactures both boards and gravel products.

As a medium-sized business we guarantee the highest quality of our products and are able to offer a personal service. We focus not only on system and product solutions but are also committed to further development of new products and applications.

We build trust through reliability, honesty and competence.

With the combination of the GLAPOR perimeter insulation brick and GLAPOR foam glass gravel, GLAPOR has developed a unique ecological and economic load bearing insulation system for use beneath a conventional concrete foundation slab.

Since 2007 our team of specialists have been producing, testing and developing foam glass products made of 100 % recycled glass. Our production facilities enable us to constantly optimize our products and, subsequently, to quickly adapt them to special requirements.

## **Insulation with foam glass**

**01 – in housing construction**

**02 – in industrial buildings**

**03 – in non-residential construction**

**04 – in redevelopment and renovation**

**05 – in special construction projects**





# GLAPOR – WE BRING YOU FOAM GLASS!

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GLAPOR foam glass products are vapour-tight, lightweight insulation materials for the construction industry made of 100 % recycled glass. By combining the physical properties of glass with the insulating properties of a closed cell structure, GLAPOR foam glass provides high compressive strength, is lightweight, fire resistant and resistant to rodents. The permanent, continuous production process guarantees consistent high quality.

## **Foam glass boards**

GLAPOR is an insulation material suitable for a wide range of applications. Projects have included football pitches, airports, public meeting places and biogas plants in addition to technical installations for noise insulation and fire protection – the application areas range from the foundation slab to the roof of your building.

## **Foam glass gravel**

GLAPOR gravel provides load-bearing thermal insulation for under foundation and floor slabs. Its closed cell non capillary active properties provide insulation, hardcore and the moisture capillary break. Applications also include architectural landscaping, refurbishment of floors within listed buildings and as a lightweight fill.

## **Perimeter insulation brick**

GLAPOR offers a premium solution for the construction of a load-bearing insulating slab foundation consisting of a combination of GLAPORs perimeter insulation brick and foam glass gravel.

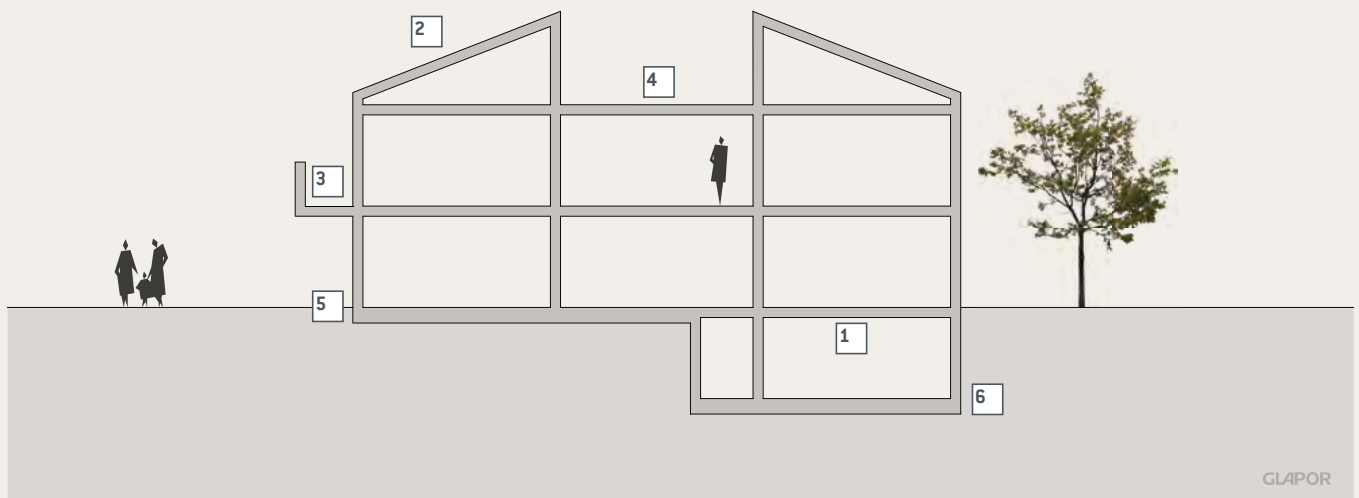


# 01

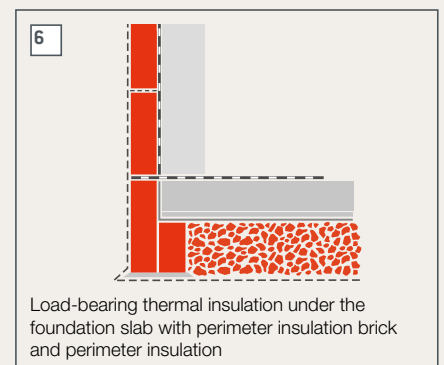
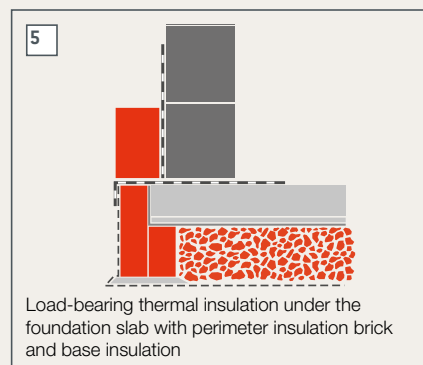
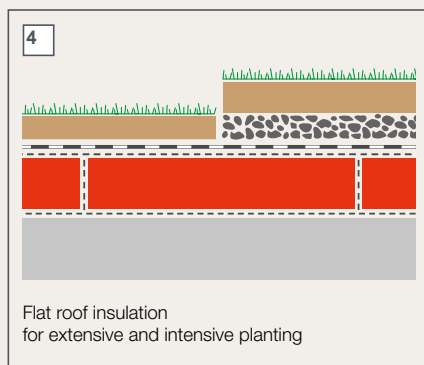
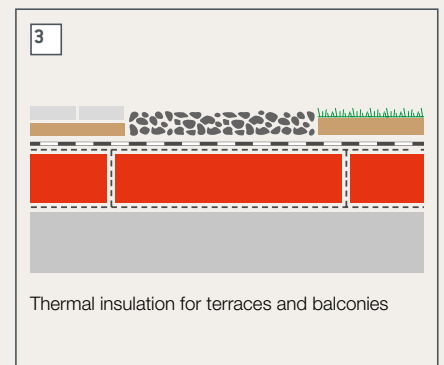
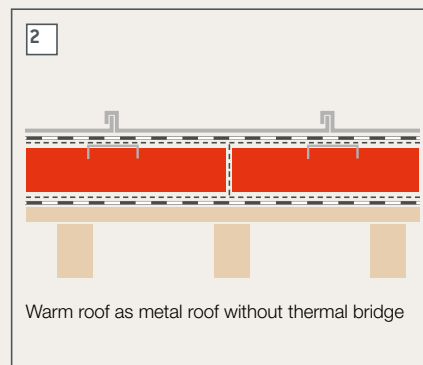
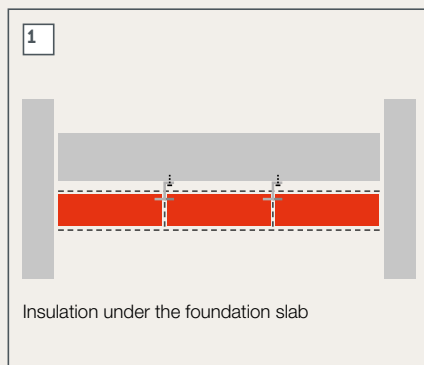
## INSULATING WITH FOAM GLASS FOR DOMESTIC CONSTRUCTION



- 1 Insulation under the foundation slab
- 2 Warm roof as metal roof without thermal bridge
- 3 Thermal insulation for terraces and balconies
- 4 Flat roof insulation for extensive and intensive planting
- 5 Load-bearing thermal insulation under the foundation slab with perimeter insulation brick and base insulation
- 6 Load-bearing thermal insulation under the foundation slab with perimeter insulation brick and perimeter insulation



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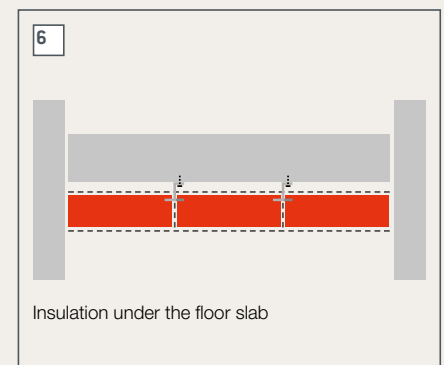
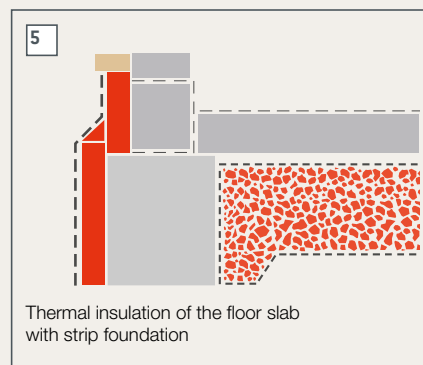
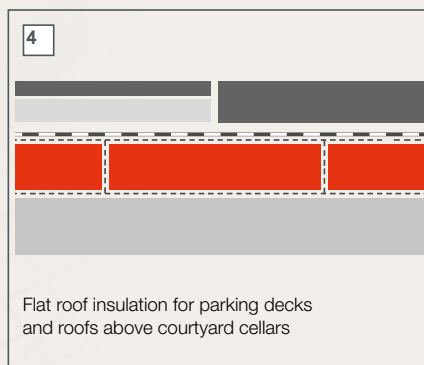
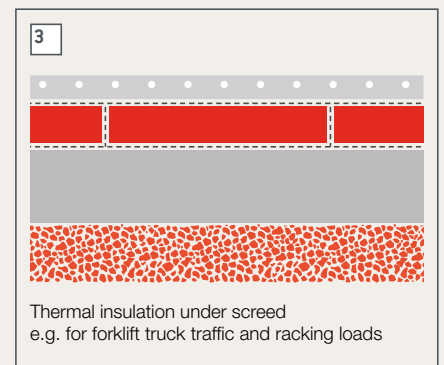
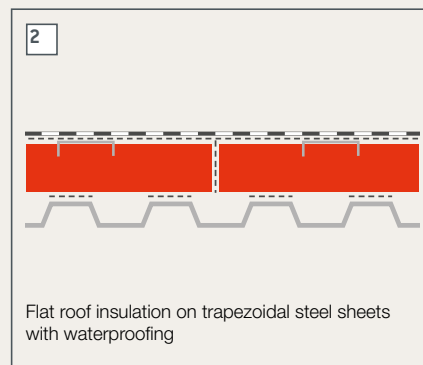
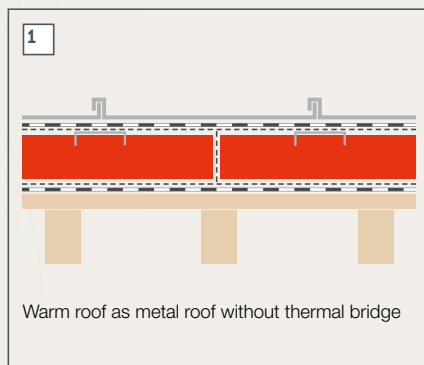
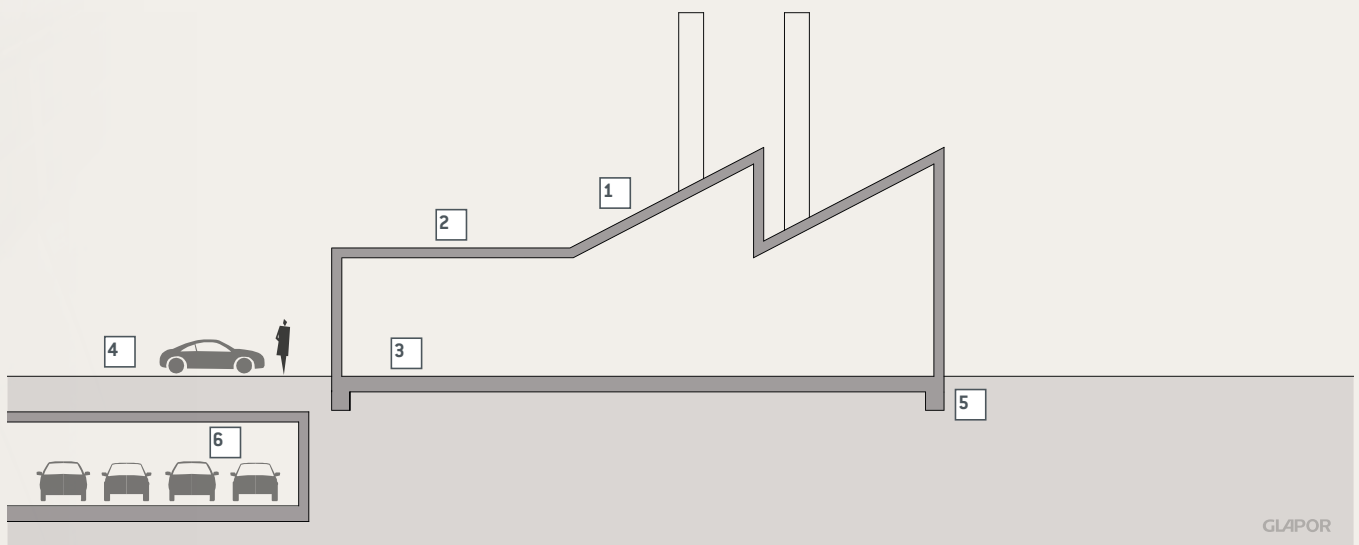
# 02

## INSULATING WITH FOAM GLASS FOR INDUSTRIAL CONSTRUCTION





- 1 Warm roof as metal roof without thermal bridge
- 2 Flat roof insulation on trapezoidal steel sheets with waterproofing
- 3 Thermal insulation under screed  
e.g. for forklift truck traffic and racking loads
- 4 Flat roof insulation for parking decks and roofs above courtyard cellars
- 5 Thermal insulation of the floor slab with strip foundation
- 6 Insulation under the floor slab



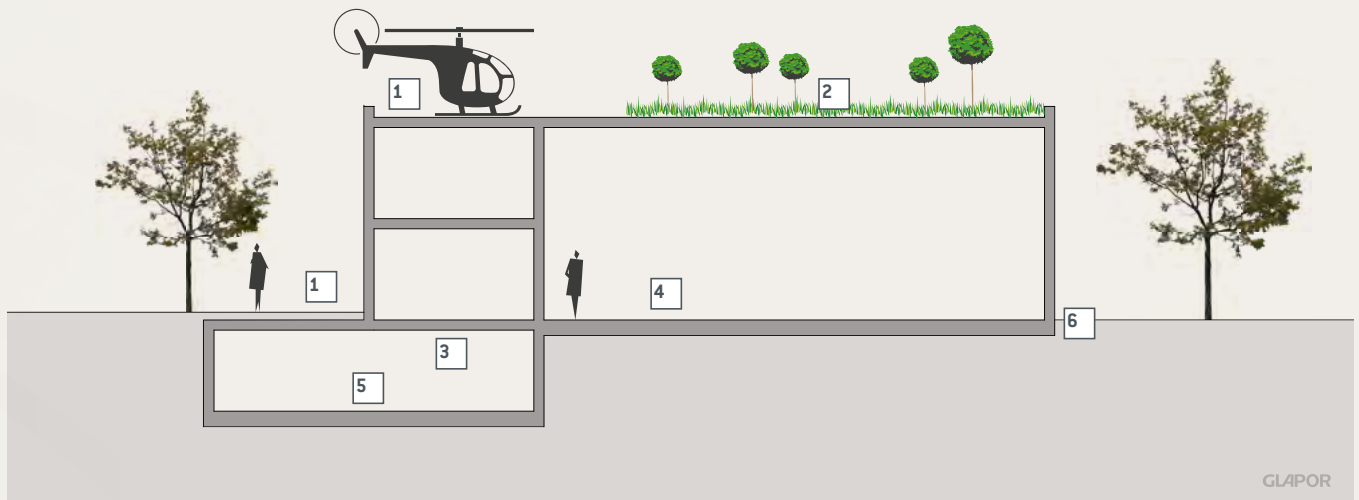
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## INSULATING WITH FOAM GLASS IN NON-RESIDENTIAL CONSTRUCTIONS

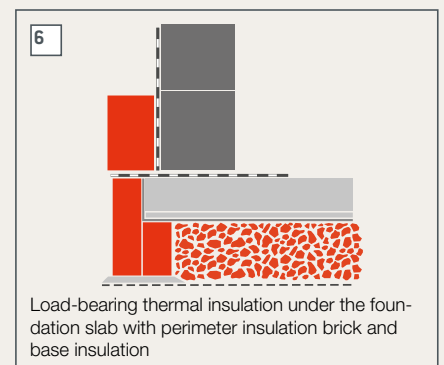
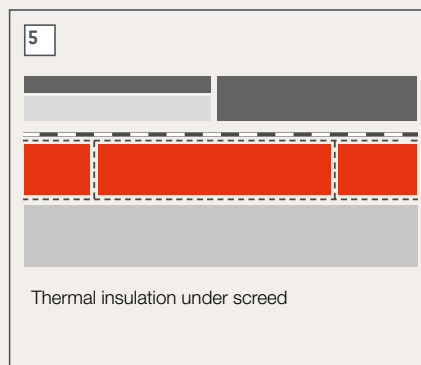
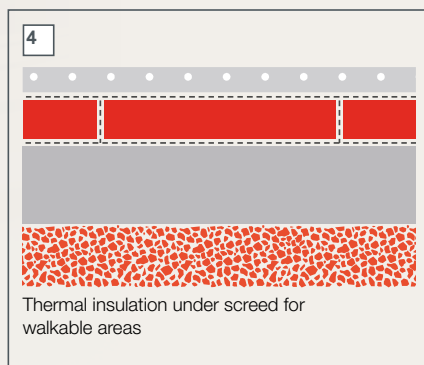
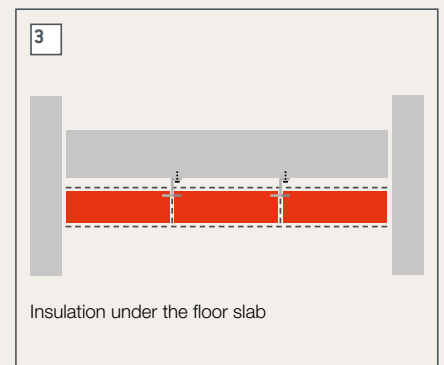
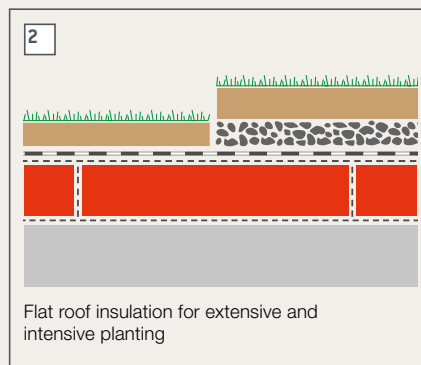
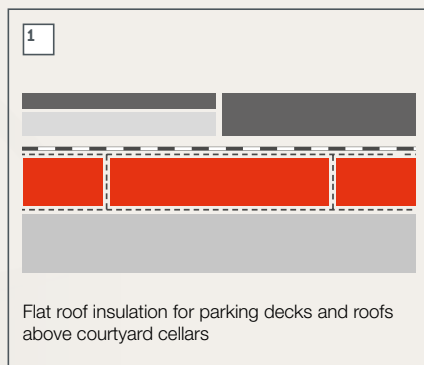




- 1 Flat roof insulation for parking decks and roofs above courtyard cellars
- 2 Flat roof insulation for extensive and intensive planting
- 3 Insulation under the floor slab
- 4 Thermal insulation under screed for walkable areas
- 5 Thermal insulation under screed
- 6 Load-bearing thermal insulation under the foundation slab with perimeter insulation brick and base insulation

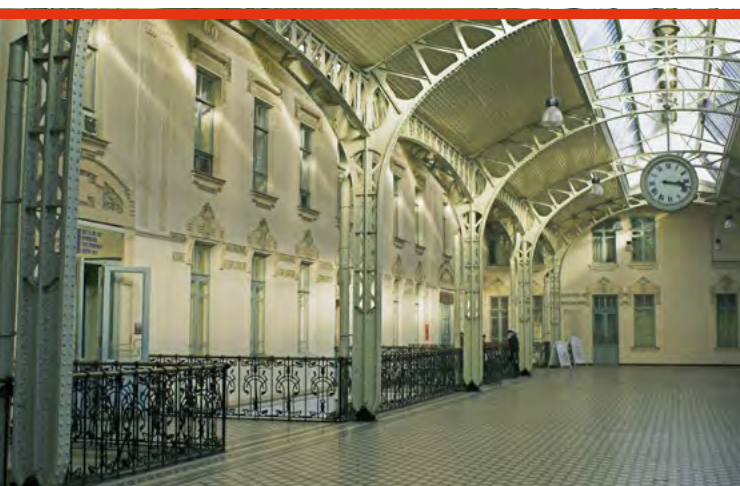


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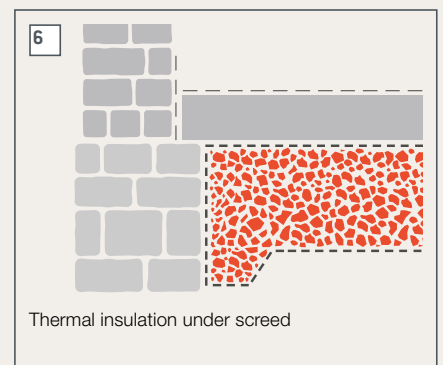
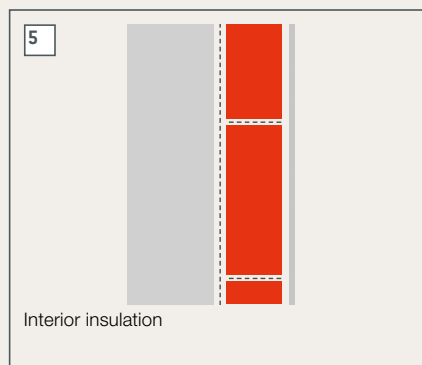
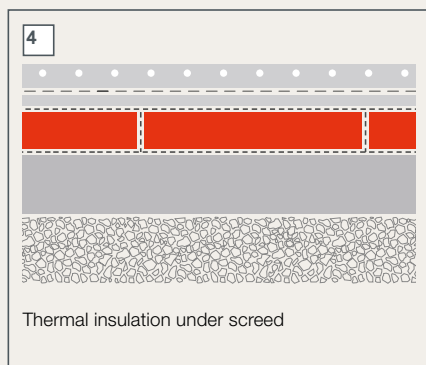
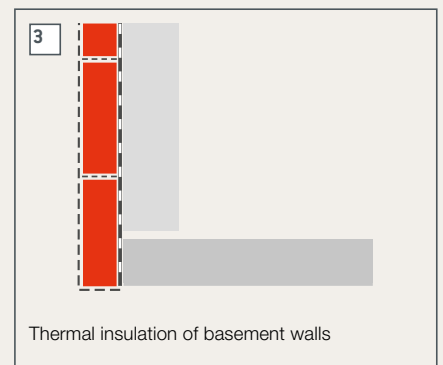
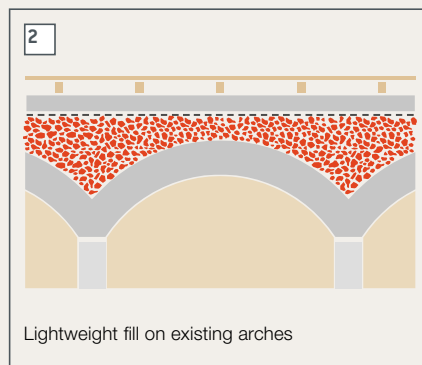
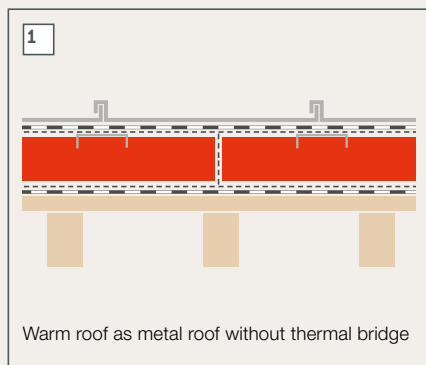
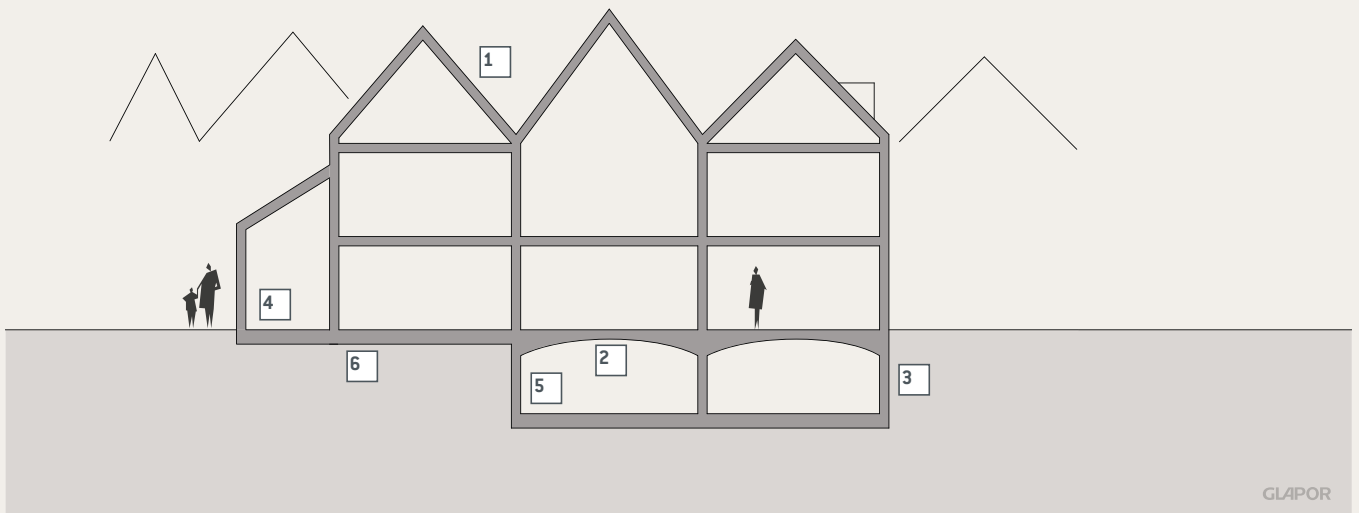
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## INSULATING WITH FOAM GLASS IN REDEVELOPMENT AND RENOVATION



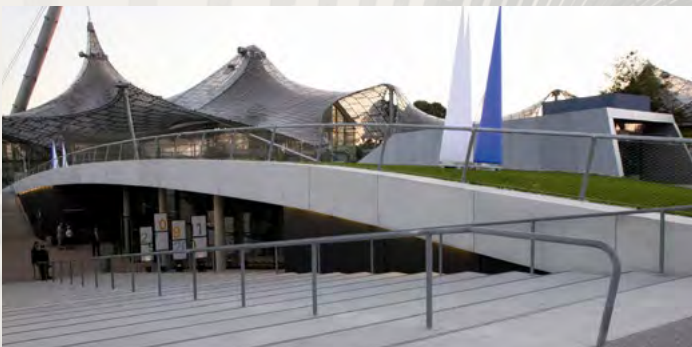


- 1 Warm roof as metal roof without thermal bridge
- 2 Lightweight fill on existing arches
- 3 Thermal insulation of basement walls
- 4 Thermal insulation under screed
- 5 Interior insulation
- 6 Thermal insulation under screed



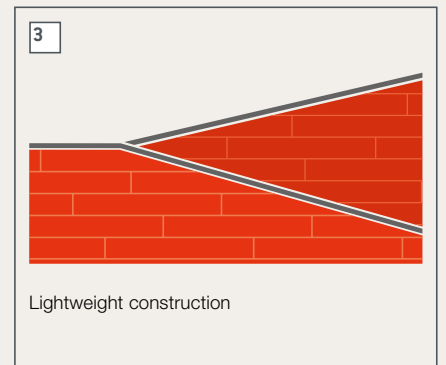
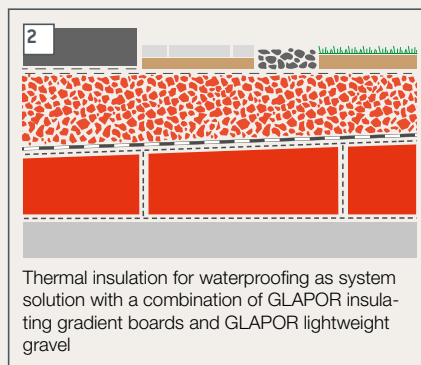
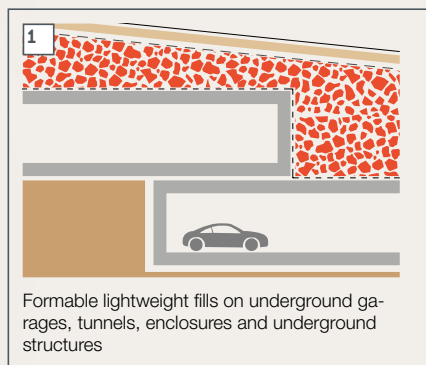
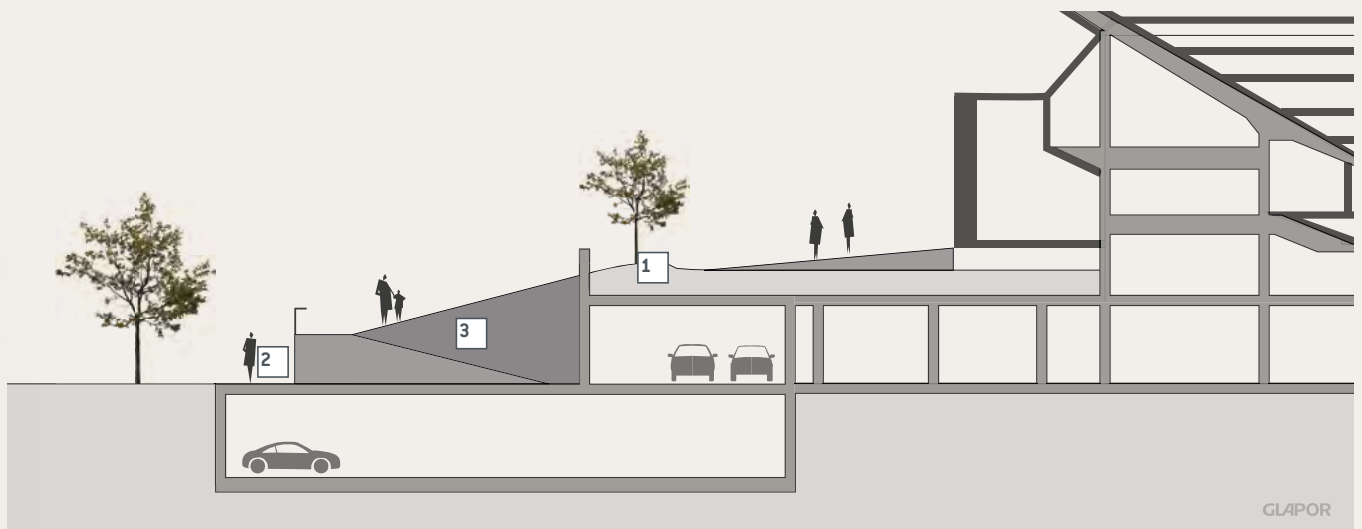
# 05

## INSULATING WITH FOAM GLASS IN SPECIAL CONSTRUCTIONS





- 1 Formable lightweight fills on underground garages, tunnels, enclosures and underground structures
- 2 Thermal insulation for waterproofing as system solution with a combination of GLAPOR insulating gradient boards and GLAPOR lightweight gravel
- 3 Lightweight construction

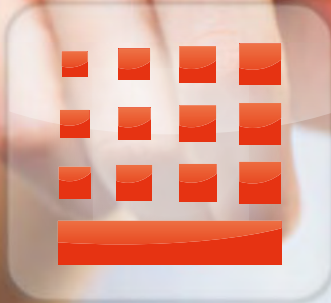


#### **GLAPOR foam glass boards**

- Non-compressible
- Vapour-proof
- Available in different board sizes

#### **Why to choose GLAPOR foam glass products**

- High compressive strength
- Lightweight
- Fire resistant
- Frost resistant
- Resistant to fungi and mould
- Resistant to rodents
- Saves natural resources
- 100 % recycled glass



#### **GLAPOR foam glass gravel**

- Zero-capillary action
- Simplifies the floor construction
- Flexible in regards to installation heights



# GLAPOR IS BLACK

Glass stands for purity, durability and sustainability.

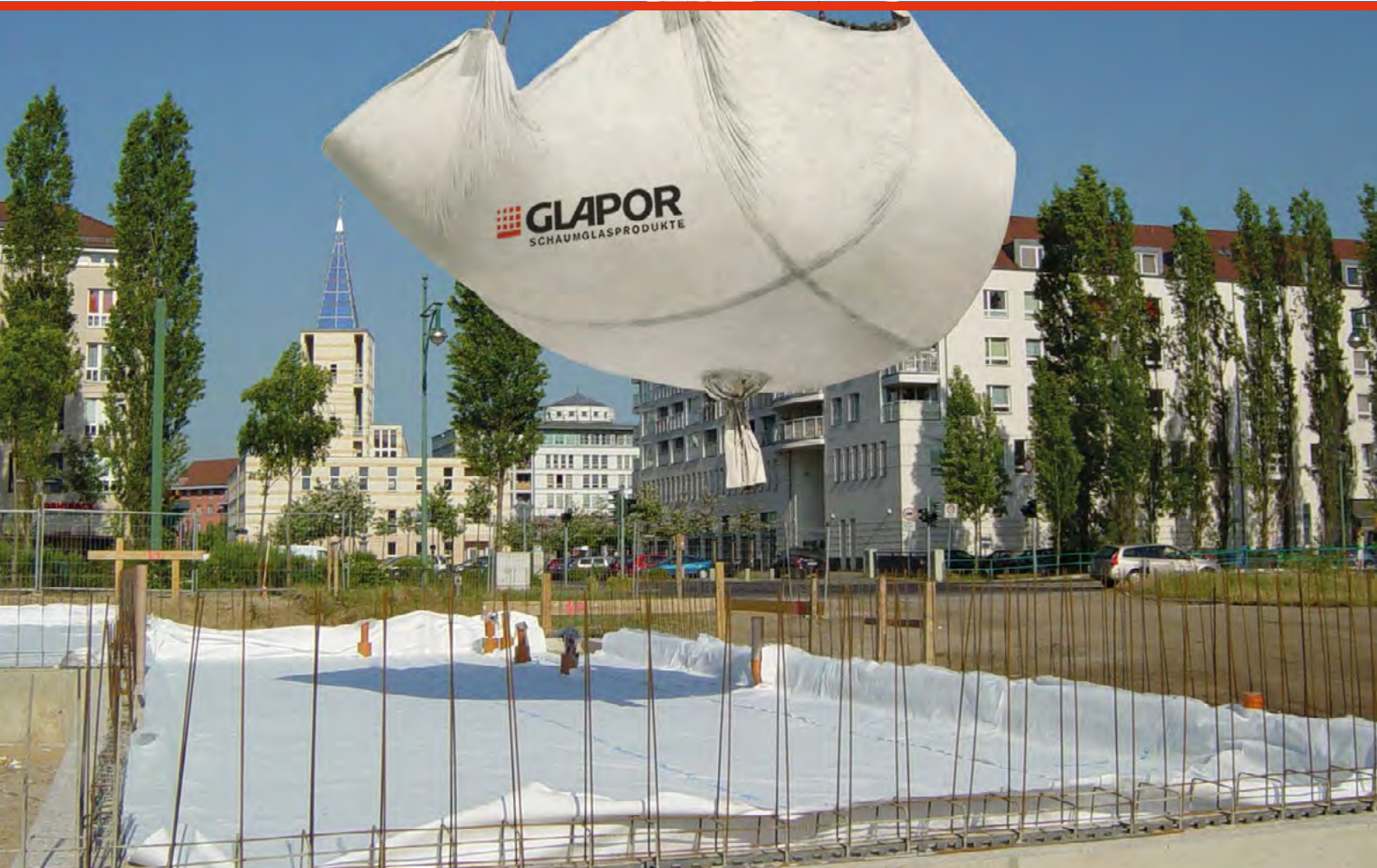
## **Saving natural resources – preserving values**

The objectives of the “Deutschen Gesellschaft für nachhaltiges Bauen (DGNB)” [German Sustainable Building Council] are supported by us as an active member. Sustainability is an essential part of today’s construction practice and is a core part of our corporate philosophy. In order to increase awareness and acceptance of its technical capabilities, GLAPOR has become a founder member of the “Schaumglasschotterverband e.V.” [Foam glass gravel association, registered association].

GLAPOR foam glass products are manufactured from ground glass cullet combined with natural propellants using energy efficient production methods.

## **As hard as glass and stable**

Using a modern production process a fragile raw material develops into a highly pressure-resistant, vapour-proof and fire resistant insulation material.





## GLAPOR DELIVERS

### **Delivery**

The **GLAPOR LORRY** is always on the road for you.  
Delivery can be made at customer's request.  
Foam glass boards on Euro pallets,  
foam glass gravel loose  
or in Big Bags (1.5 m<sup>3</sup> / 3.0 m<sup>3</sup>).

### **Distribution**

GLAPOR foam glass products are  
available worldwide.

### **Technical advisory service**

Our qualified GLAPOR sales engineers will be  
pleased to offer you our consulting services.

### **Application technology**

Specific inquiries will be handled in agreement  
with the GLAPOR application engineers.



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