

**Thermal Insulation** 

**Cellular Glass** 

## Company



#### **GLAPOR Werk Mitterteich GmbH**



- D-95666 Mitterteich
  - Production Plant
    - Cellular Glass Boards
    - Cellular Glass Gravel
  - Manufacturing
  - R&D
  - Engineering



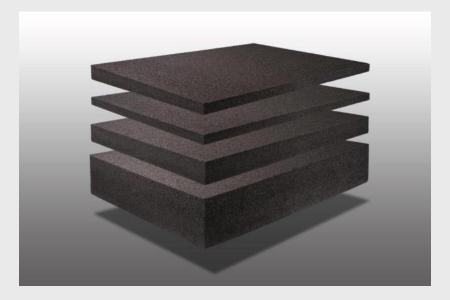




## **GLAssPORes - Products**



#### Cellular Glass - Boards



Cellular Glass - Gravel





### **Arguments for Cellular Glass**









## Cellular Glass - Production





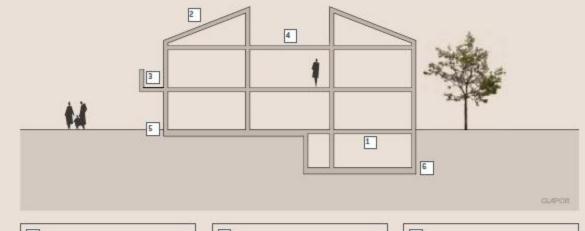


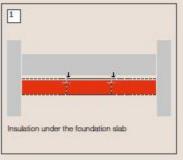


## Cellular Glass in Residential Buildings

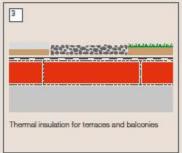


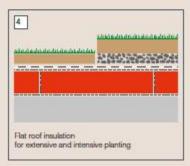


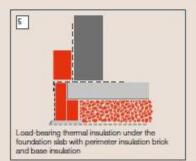


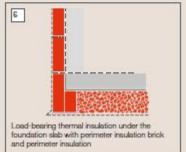










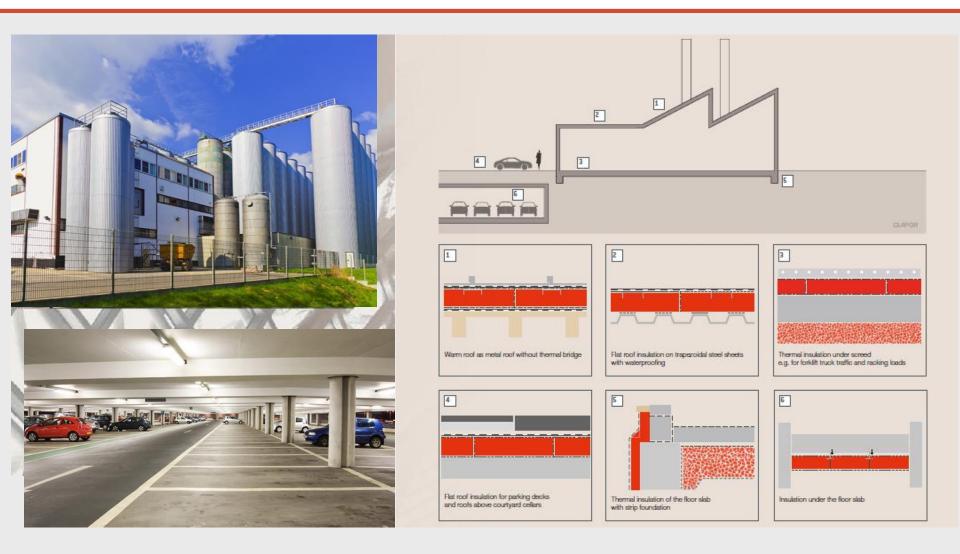






## Cellular Glass in Industrial Buildings





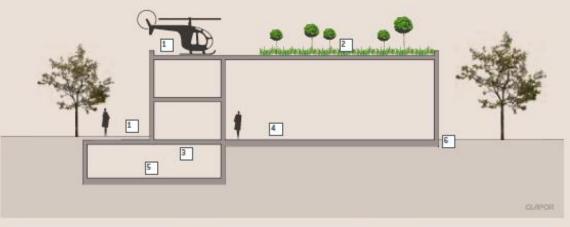


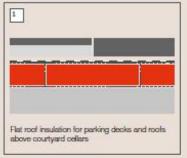


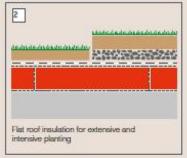
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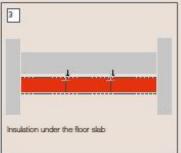


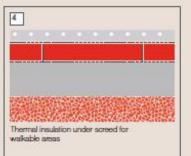




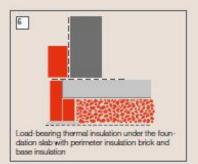














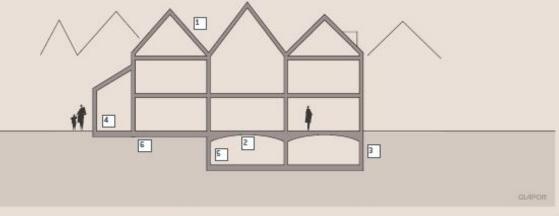


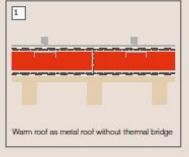
# Cellular Glass in Redevelopment & Renovation

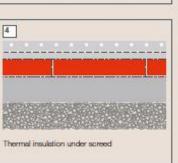


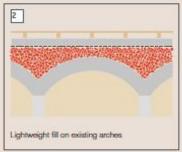


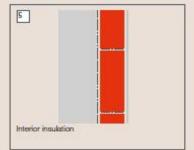


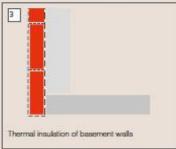


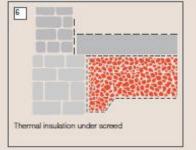










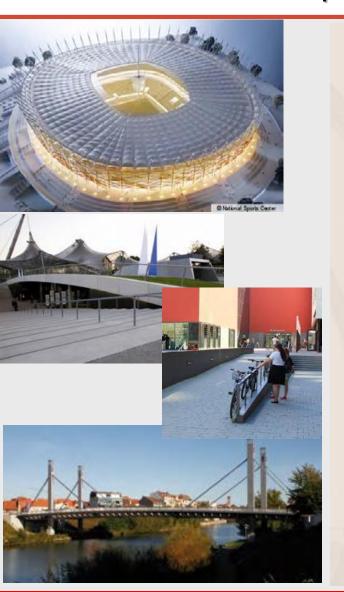




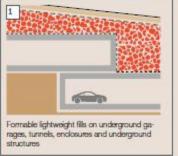


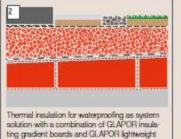
# Cellular Glass in Special Constructions

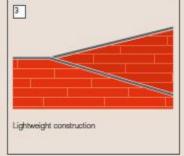










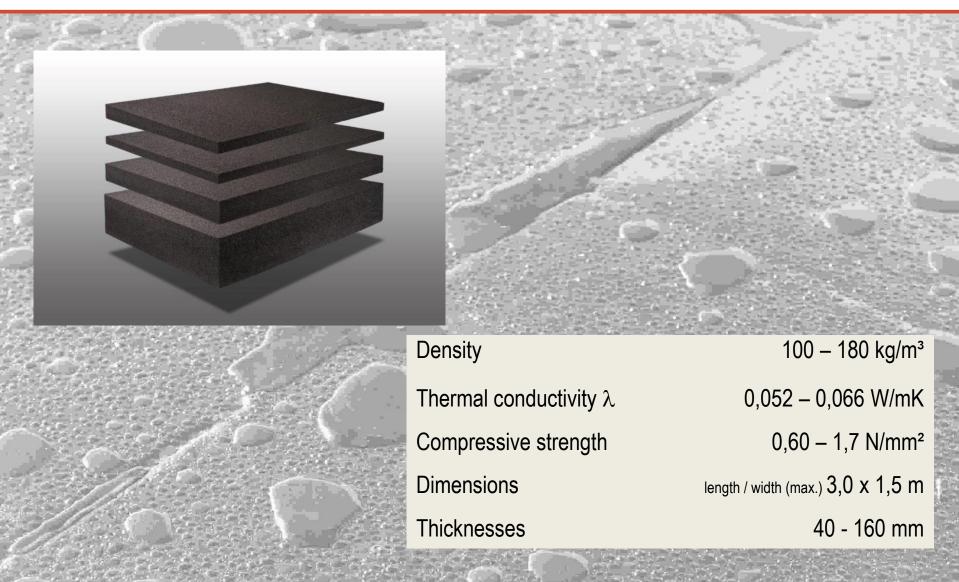






### Cellular Glass Boards









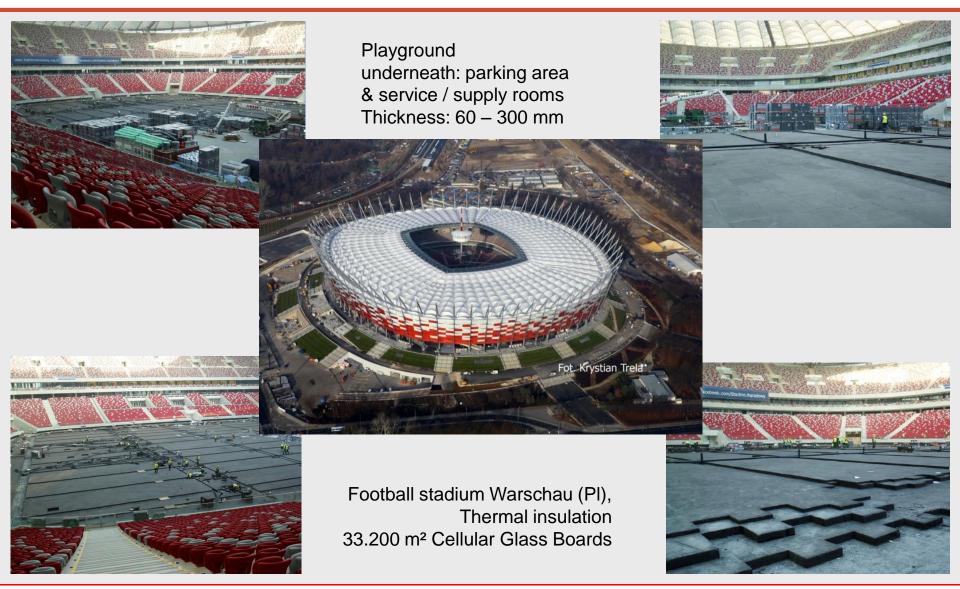




















Airport main entrance; underneath the railway station

Airport Berlin BBI (DE) Inclined thermal roof insulation, thickness 100 – 650mm 4.500m<sup>2</sup> Cellular Glass Boards

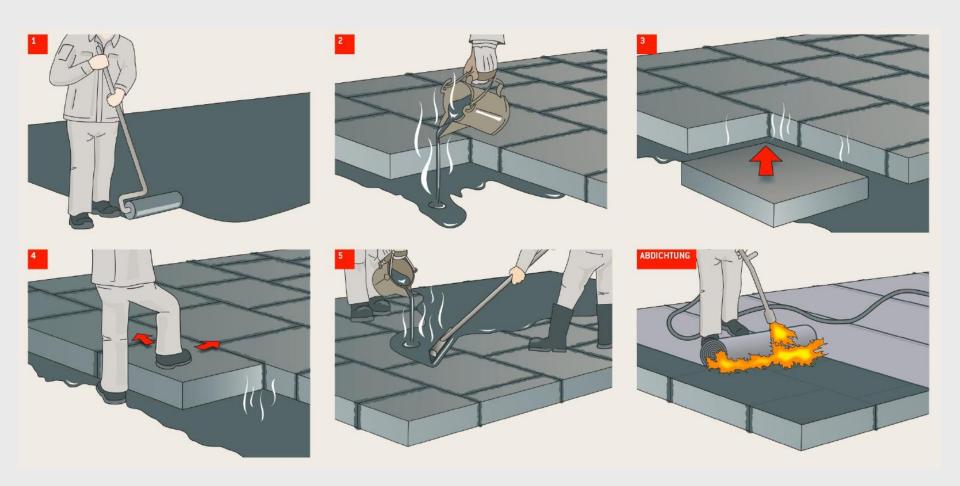






## Cellular Glass Boards - Construction









## Cellular Glass Boards - Construction



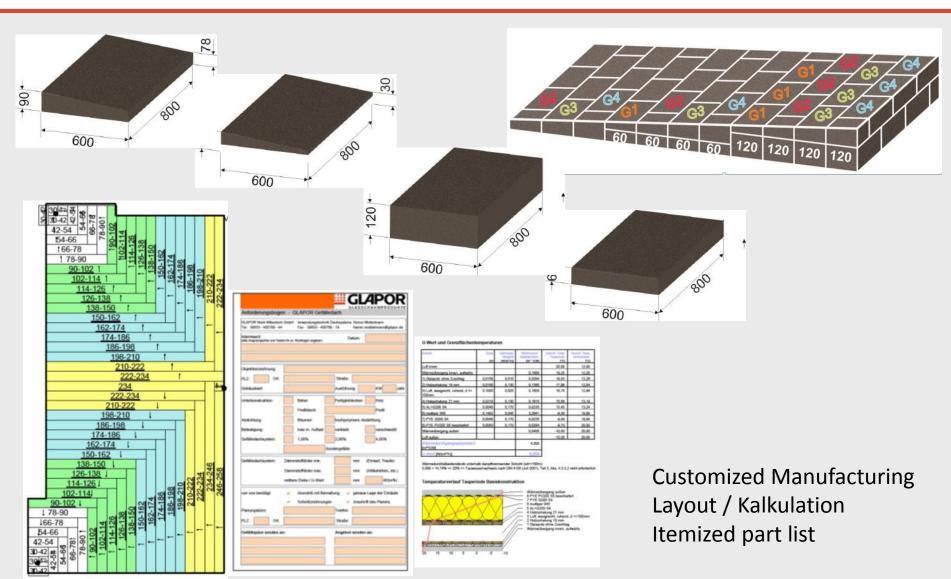






#### Cellular Glass Boards – Inclined flat roof



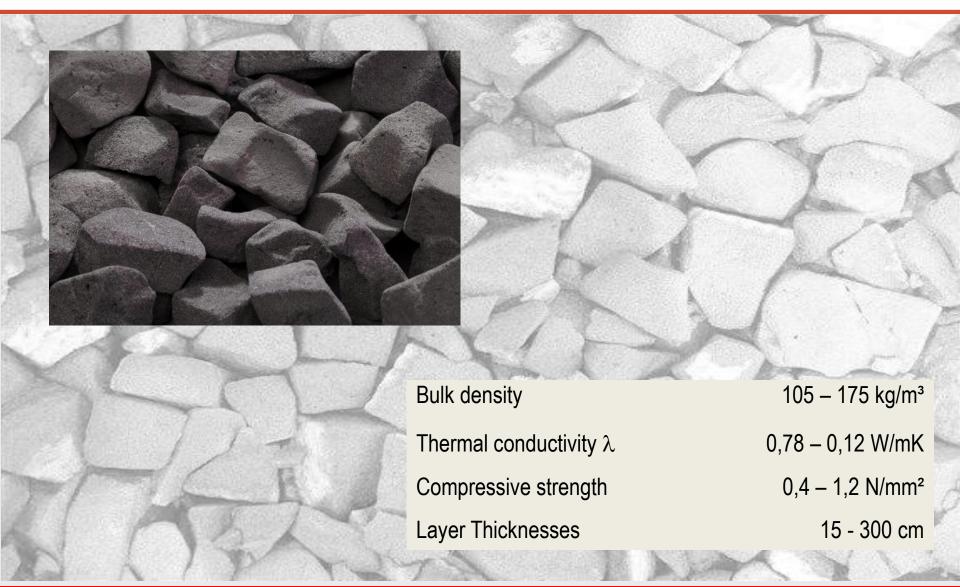






### Cellular Glass Gravel



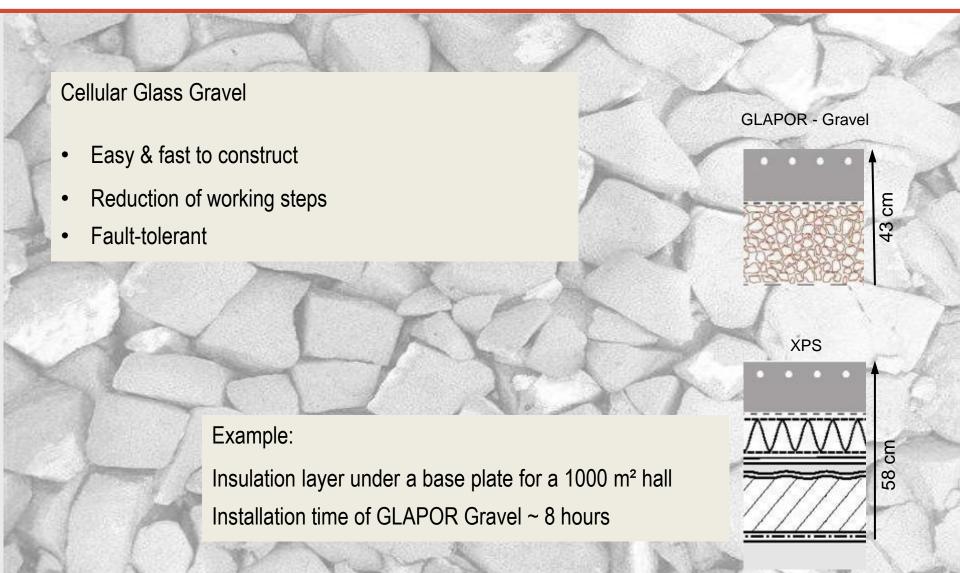






#### Cellular Glass Gravel

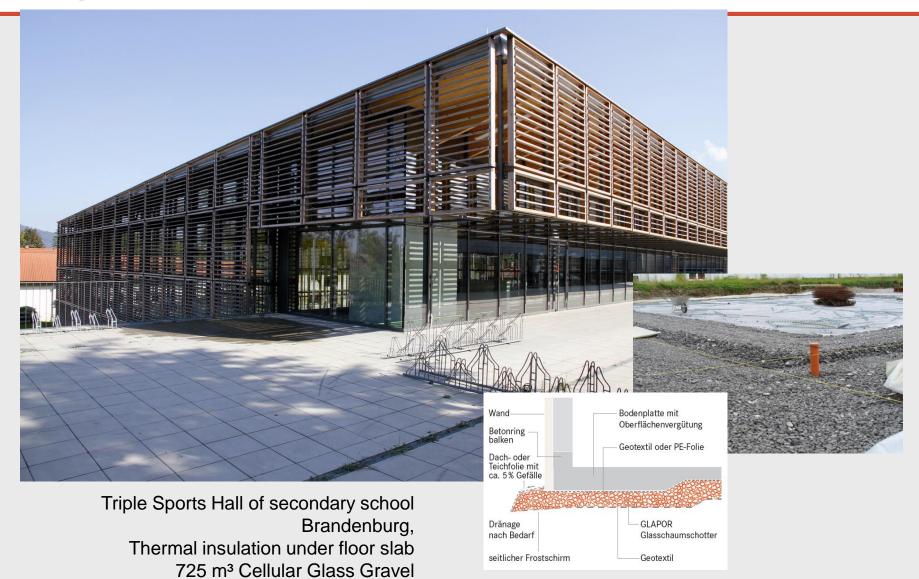




















Castle Friedrichsburg, Thermal insulation last ceiling 175 m³ Cellular Glass Gravel











Small Olympia Hall in Munich, Lightweight infill 800 m³ Cellular Glass Gravel







Example: Enclosure Example: Underground garage Example: Heat reservoir / Drinking water reservoir

Example: Soil / greenery

- Separation layer
- = GLAPOR foam glass gravel
- Waterproofing
- Concrete roof / wall













Drivable surface

Mechanically stable base course

GLAPOR foam glass gravel - wedge shaped - length according to requirement

Geotextile / geogrid

Foundation, e.g. pile foundations

Bridge called "Löwenbrücke" in Bamberg, Bridge counter bearing, to avoid compression setting 1000 m³ Cellular Glass Gravel

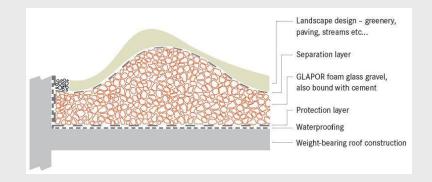








Tivoli Hotel und Congress Center, Surface design on parking roof with walkways and greens 1400 m³ Cellular Glass Gravel













Swarowski Kistallwelten, Landscaping 1.100m³ Cellular Glass Gravel





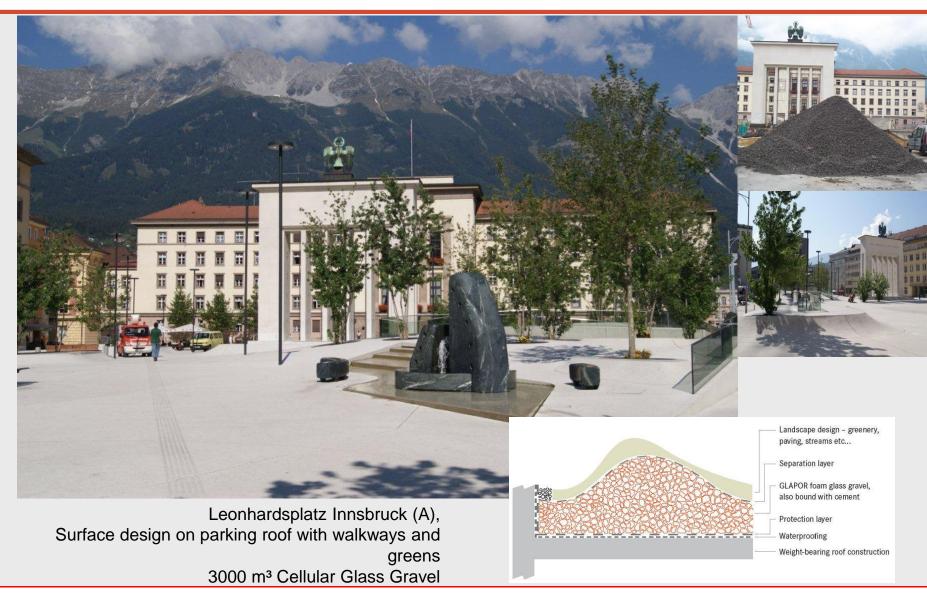
Landscape design – greenery, paving, streams etc... Separation layer

GLAPOR foam glass gravel, also bound with cement Protection layer

Weight-bearing roof construction

Waterproofing









# Cellular Glass Gravel - Delivery









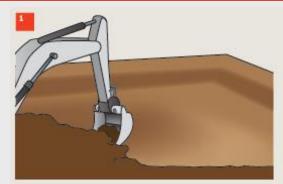






#### Cellular Glass Gravel - Construction





#### Excavation

The load bearing (compacted) ground should be slightly raised in the middle.



#### Geotextile

Lay geotextile as separator, overlapping 10 cm. In the edge area allow enough overlap so that the fill can be covered afterwards.



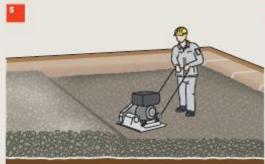
#### Depositing

The loose foam glass gravel is deposited of directly in the construction site. A crane is necessary when using a textile chute or for delivery of big bags.

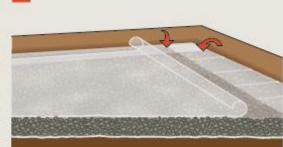




Distribution - GLAPOR foam glass gravel is deposited from the back to the front by means of an excavator shovel or manually in order not to affect the already made ballast bed.



Compaction - The compaction of the GLAPOR gravel layer is executed by a light plate vibrator recommended by Glapor\* with a factor of 1,3:1.



Separation layer and formwork - The geotextile laid in the earth area is to be folded over the finished fill. Then the separation layer for the floor slab can be installed properly.





## Cellular Glass Gravel - Construction











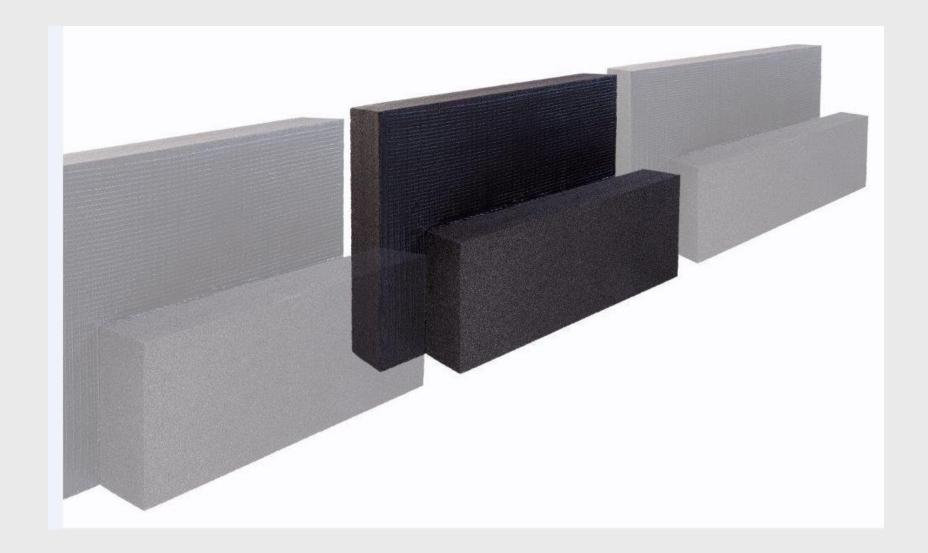






# "RDS" the perfect insulation solution







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# WE INSULATE THE FOUNDATION **FOR YOUR FUTURE!**





#### THE PERFECT INSULATION SOLUTION

The first step for your warm and dry home!

Long Lasting

- Weatherproof, resistant to rodents and insects

**Permanent Insulation** 

- Protects against water (rain) and cold

**Purely Mineral** 

- 100 % recycled waste glass, high compressive strength

Labour and Time Saving - Simple, fast, clean, no formwork required

Construction





## RDS – construction area























#### Certificates





