GEOCELL® FOAM GLASS GRAVEL

HIGH PERFORMANCE IN EVERY ASPECT

LABC registered foam glass gravel available throughout the UK!

THE ECOLOGICAL ALTERNATIVE FOR ALL FOUNDATIONS
# GEOCELL® FOAM GLASS GRAVEL

## INDEX

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>What is GEOCELL?</td>
<td>3</td>
</tr>
<tr>
<td>Advantages of GEOCELL</td>
<td>4</td>
</tr>
<tr>
<td>Technical Data Sheet</td>
<td>5</td>
</tr>
<tr>
<td>Applications - Building Insulation</td>
<td>6</td>
</tr>
<tr>
<td>Applications - Landscaping</td>
<td>7</td>
</tr>
<tr>
<td>Construction Details - Conventional vs GEOCELL</td>
<td>8</td>
</tr>
<tr>
<td>Foundation Details</td>
<td>9</td>
</tr>
<tr>
<td>Cost Comparison - Conventional Construction</td>
<td>10</td>
</tr>
<tr>
<td>Cost Comparison - Ecological Alternative</td>
<td>11</td>
</tr>
<tr>
<td>Design Data - Uses and Design Values</td>
<td>12</td>
</tr>
<tr>
<td>Design Data - Design Thickness and U Values</td>
<td>13</td>
</tr>
<tr>
<td>Glasscrete with GEOCELL Sub-Base</td>
<td>14</td>
</tr>
<tr>
<td>Project References</td>
<td>15</td>
</tr>
<tr>
<td>Installation Details</td>
<td>16</td>
</tr>
<tr>
<td>Compaction Details</td>
<td>17</td>
</tr>
<tr>
<td>Delivery Options</td>
<td>18</td>
</tr>
<tr>
<td>Riba Product Selector and NBS Plus</td>
<td>19</td>
</tr>
</tbody>
</table>

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THE ECOLOGICAL ALTERNATIVE FOR ALL FOUNDATIONS
Manufactured from 100% recycled WASTE GLASS

LABC registered foam glass gravel available throughout the UK!

Ecofriendly insulation for floor construction and foundations.
Independently approved thermal and load bearing properties.
Cost saving compared to conventional floor construction.
Manufactured from 100% recycled waste glass.
Low embodied carbon - Sustainable - Lightweight - Easy to handle.
Reduced construction time and costs.
GEOCELL® FOAM GLASS GRAVEL

ADVANTAGES OF GEOCELL

**INSULATING**
GEOCELL foam glass gravel consists of millions of closed cells, the air locked inside these cells are responsible for GEOCELL’s outstanding insulating properties - 0.080 W/mK.

**ANTI-CAPILLARY**
With its closed cell structure, GEOCELL forms a capillary break keeping moisture away from the building fabric resulting in no mould growth and structural damage.

**FREEZE-THAW RESISTANT**
GEOCELL does not react to the freeze-thaw cycle and thus effectively protects against the impact of frost. No additional frost protection is required.

**DRAINAGE**
With GEOCELL, rain water is immediately drained away from the building whilst offering the additional advantage of insulating the outside of existing walls.

**LIGHTWEIGHT**
With a dry bulk density of approx 150kg/m³, GEOCELL is extremely lightweight making installation quick and easy.

**LOAD-BEARING**
Due to its glass cell structure, GEOCELL provides excellent compressive strength - 275 KN/m² (27.5 tonne/m²) at compaction factor 1.3 : 1.

SAVING WITH GEOCELL
- Less excavation.
- All-in-one foundation in a single step.
- Compensating and adaptable, no cutting required.
- Easy insulation of pipes.
- Considerable saving in terms of construction time due to fast installation.

THE ECOLOGICAL ALTERNATIVE FOR ALL FOUNDATIONS
**TECHNICAL DATA**

### APPROVALS

| Building Material Approval | DiBt Z-23.34-1579 |

### THERMAL CONDUCTIVITY

- Thermal Conductivity (dry) \( \lambda_{\text{dry}} \) \(<0.08\ [W/mK] \)
- Thermal Conductivity (Design Value) \( \lambda_{\text{d}} \) \(0.11\ [W/mK] \)

### LOAD CAPACITY

- Design value of compressive strength \( \sigma_{\text{cal}} \) \(275\ [kN/m^2] \)
- Compressive strength \( \sigma_{\text{ctl}} \) \(\geq 570\ [kN/m^2] \)

### GENERAL DATA

- Delivery: bulk or BigBags
- Density (dry bulk) \( \approx 150\ [kg/m^3] \)
- Granular size \( K \) approx. 10-60 [mm]
- Internal water absorption \( w_i \) \(0.00\ [\text{Vol%}] \)
- Friction angle \( \Phi \) \(45-48^\circ\)
- Coherence (design value) \( C \) \(0\ [kN/m^2] \)
- Apparent cohesion (design value) \( C_{a} \) \(0\ [kN/m^2] \)
- Design value for shear stress \( \Phi \) \(35^\circ\)
- Water permeability \( K_i \) \(-4.4 \times 10^{-2}\ [m/s] \)
- Condensation: prevents condensation in the building component
- Freeze-thaw: frost resistant
- Diffusion properties: diffusible
- Gassing with heat: no gas emission, odor free
- Capillarity: anti-capillarity against rising water
- Fire resistance: incombustible class A1
- Resistance to environmental influences: anti-aging, rodent- and rot-resistant
- Material radiation: no radiation or odors
- Alkali resistance: long-term stability, no damage to concrete

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(1) according to the General Technical Approval: testing of the thermal conductivity according to DIN EN 10667 and DIN EN 12939
(2) allowables stress in compliance with global safety factors for verification according to DIN 1054/1055
(3) as specified by the General Technical Approval: Uniaxial compression test test according to DIN EN 826 (1996-05)
(4) Taking into account the weight proportion of adsorbed water on the grain surface
(5) free and bound water at the particle surface
(6) factory data
(7) horizontal forces introduced into the insulating material may not exceed 20% of the design value of normal stress.
(8) According to the guidelines of the General Technical Approval Z - 23.34 – 1579 std. 26/02/09 the manufacturer of GEOCELL is requested to measure freeze-thaw fluctuating (DIN 52 104-1) on a regular basis.
(9) capillary property of the material is obtained even after compression due to existing voids

**Note:** For processing GEOCELL cellular glass gravel please refer to our guideline 01/2010, May 2010.
The benefit of a GEOCELL® insulation under the floor slab is a structure without thermal bridges. Since it is an exterior insulation, heat cannot dissipate. Thus, there is no water condensation and as a consequence, no mould formation appears.

**Advantages**

- Suitable for THERMAL INSULATION under the foundation slab of single/multi family houses, production halls, schools, swimming pools and ice rinks, etc.
- HIGHER COMPRESSIVE STRENGTH than other competing materials. Simpler and more cost-effective installation technology
- Single steps such as grading excavation, gravel installation and laying insulation boards can be eliminated.
- NO FROST BARRIER REQUIRED

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**Building Insulation Below Floor Slab**

**Building Insulation Existing Floor Renovation**

The selection of appropriate insulation material is especially crucial in old buildings. GEOCELL® combines drainage layer and insulation in a single product, thus reducing building height. Moreover, GEOCELL® is diffusible, an important property for an insulating material when humidity is an issue.

**Advantages**

- LIGHT-WEIGHT GEOCELL® is a fraction of the weight of gravel. This makes it easy to transport and work with
- STRONG excellent compressive strength
- WATERPROOF thanks to the closed cell structure, GEOCELL® is completely unaffected by water
- ENVIRONMENTALLY GREEN GEOCELL® is made from waste glass and can be reused or recycled at any time

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**LANDSCAPING**  **LIGHT WEIGHT MATERIAL FOR GREEN ROOFS**

GEOCELL® is easy to handle and can be driven over and walked on during construction. It is resistant to rotting, maintains its form and thanks to its high insulating properties, prevents frost damage. Ideal for landscaping and gardens. With a density of less than 150 kg/m³ and a 45 degree repose angle, GEOCELL® can be used effectively on roof construction - from flat roofs to underground parking garages and tunnels.

- **LIGHT WEIGHT MATERIAL:** saves structural design
- **NON COMBUSTIBLE:** Classified as an A1 building material
- **MOULDABLE:** a 45 degrees repose angle allows creative roof design
- **INSULATES AND DRAINS:** prevents frost damage

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**LANDSCAPING**  **LOAD-BEARING CONSTRUCTION**

GEOCELL® not only reduces the applied load, but is also load bearing. Pavement for paths and roads can be laid directly in a leveling layer on the compacted GEOCELL. Even blacktopping directly on GEOCELL® is possible. Due to the lightness of the material, there are hardly any restrictions for the creative landscape architect.

- **LIGHT-WEIGHT** GEOCELL® is a fraction of the weight of gravel. This makes it easy to transport and work with
- **STRONG** excellent compressive strength
- **NON COMBUSTIBLE:** Classified as an A1 building material

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**THE ECOLOGICAL ALTERNATIVE FOR ALL FOUNDATIONS**
### Domestic Building - Ground Floor Construction

#### Conventional Construction (Typical Details)

- **A**
  - 1:3 Cement : Sand Screed
  - 100mm EPS Insulation
  - 100mm Concrete
  - Sand Blinding - Min 50mm
  - Compacted Hardcore/Well Graded Subbase (Type 1)

- **B**
  - 1:3 Cement : Sand Screed
  - 100mm EPS Insulation
  - Precast Beam and Block Floor
  - Ventilated Underfloor Void - Min 150mm

### The Ecological Alternative Incorporating GEOCELL

#### Ground Floor - New Build
(Or renovation if DPC or Radon barrier is required)

1. Cement/Sand or Lime/Sand Screed
2. Compacted GEOCELL Foam Glass
3. Subsoil
4. Geotextile
5. DPM or Radon

#### Ground Floor - Renovation
(Breathable GlassCrete system)

1. 1:3 or 1:2 Lime : Sand Screed
2. Compacted GEOCELL Foam Glass
3. Subsoil
4. Geotextile

### Insulated Foundation Detail

#### (Domestic)

1. Subsoil
2. Geotextile
3. GEOCELL Reinforced
4. Concrete Strip Footing
5. Thermalite Block
6. Brickwork
7. Cavity Insulation
8. DPM / DPC
9. Screed
10. Approved Formation

#### (Commercial)

- Floor Finishes
- EPS Insulation
- DPC
- Masonry
- Gravel / Paving

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**THE ECOLOGICAL ALTERNATIVE FOR ALL FOUNDATIONS**
Foundation system using GEOCELL recycled foam glass gravel to form a load bearing, thermally insulated foundation. This simple solution offers substantial advantages including high insulation values and fast construction times which are cost saving, as well as being sustainable.

With GEOCELL’s excellent thermal performance passive house standards are achieved without the need for additional insulation products.
DOMESTIC BUILDING - GROUND FLOOR CONSTRUCTION

Conventional Construction (Typical Detail)

<table>
<thead>
<tr>
<th>Material/Component</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 : 3 CEMENT : SAND SCREED</td>
<td>VAPOUR BARRIER</td>
</tr>
<tr>
<td>100mm EPS INSULATION</td>
<td></td>
</tr>
<tr>
<td>100mm CONCRETE</td>
<td>DPM</td>
</tr>
<tr>
<td>SAND BLINDING - Min 50mm</td>
<td></td>
</tr>
<tr>
<td>COMPACTED HARDCORE/WELL GRADED SUBBASE (TYPE 1)</td>
<td></td>
</tr>
</tbody>
</table>

COMPARISON BASED ON 50m²
SUPPLY AND INSTALLATION OF GROUND FLOORING
CONVENTIONAL CONSTRUCTION
(Based on prices July 2017)

Supply and install compacted well graded granular sub-base as Type 1 - 150mm thick.

Supply and install sand blinding - 50mm thick.

Supply and install 1200 gauge dpm.

Supply and install oversite concrete, grade GEN 1 or ST2, consistency class S2 - 100mm thick.

Supply and install EPS/PUR insulation Lambda 0.023 W/mK - 100mm thick.

Supply and install vapour barrier.

Supply and install premixed 1 : 4 cement sand screed with micro fibre reinforcement 65mm thick

TOTAL MATERIALS = £2549.00 + VAT

Anticipated time for undertaking works - 4 days
Based on 2 men, 4 days

TOTAL LABOUR = £1600.00 + VAT

MATERIALS AND LABOUR TOTAL = £4149.00 + VAT

FIGURES ARE FOR COMPARISON ONLY - CONTRACTOR COSTS MAY DIFFER

THE ECOLOGICAL ALTERNATIVE FOR ALL FOUNDATIONS
DOMESTIC BUILDING - GROUND FLOOR CONSTRUCTION
The Ecological Alternative Incorporating GEOCELL

COMPARISON BASED ON 50m²
SUPPLY AND INSTALLATION OF GROUND FLOORING
ECOLOGICAL ALTERNATIVE WITH GEOCELL FOAM GLASS GRAVEL
(Based on prices July 2017)

Supply and install GEOCELL foam glass gravel including compaction, Lambda 0.08 W/mK - 350mm thick.

Supply and install geotextile membrane below and over GEOCELL.

Supply and install 1200 gauge dpm.

Supply and install premixed 1:4 cement sand screed with micro fibre reinforcement 65mm thick.

TOTAL MATERIALS = £2566.00 + VAT

Anticipated time for undertaking works - 2 days
Based on 2 men, 2 days

TOTAL LABOUR = £800.00 + VAT

MATERIALS AND LABOUR TOTAL = £3366.00 + VAT

FIGURES ARE FOR COMPARISON ONLY - CONTRACTOR COSTS MAY DIFFER

THE ECOLOGICAL ALTERNATIVE FOR ALL FOUNDATIONS
GEOCELL® FOAM GLASS GRAVEL

DESIGN DATA

GEOCELL is an aerated foam glass gravel manufactured from 100% recycled waste glass.

GEOCELL is light weight material having a loose bulk density of approx 150kg/m³.

Uses of GEOCELL include:

• Load bearing thermal insulation beneath floor slabs providing a complete replacement for conventional hardcore, blinding, oversite concrete and expanded polystyrene construction or precast beam and block and polystyrene insulation flooring.

• Load bearing thermal insulation beneath foundations.

• Light weight fill for landscaping including french drains.

GEOCELL is chemically inert and complies with requirements for environmental compatibility.

GEOCELL does not present any hazard to the health and safety of persons involved with its installation or use.

GEOCELL offers: frost resistantance, prevents condensation in the building component, self-draining, diffusible, no gas emission and odor free, anti-capillary against rising water, incombustible class A1, anti-aging, rodent, bacteria, and rot resistantance, long-term stability, no damage to concrete.

Design characteristics of GEOCELL:

Nominal value for compressive strength
fc.nom

Nominal value for compressive stress
fcd. = fc.mom/YM . a

570 kPa

>570 (kN/m²)

275 kPa

275 (kN/m²)

For full details see GEOCELL Technical Data Sheet

THE ECOLOGICAL ALTERNATIVE FOR ALL FOUNDATIONS
**DESIGN DATA**

Design thickness of GEOCELL:

- Minimum compacted thickness of GEOCELL 10/30 is 100mm.
- Minimum compacted thickness of GEOCELL 10/60 is 150mm.
- Maximum compacted single layer thickness 300mm.
- For design thickness greater than 300mm, placing and compaction is to be undertaken in two or three layers.
- Maximum compacted thickness beneath floor slabs and foundations is 900mm.
- Compaction ratio i.e. loose material to compacted state is 1.3 : 1.

**U - Values achieved using GEOCELL in situ:**
(Example based on design area of 50m² with 25m exposed perimeter and clay subsoil)

<table>
<thead>
<tr>
<th>U - Values (W/m²K)</th>
<th>Loose thickness (mm)</th>
<th>Compacted thickness (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.36</td>
<td>130</td>
<td>100</td>
</tr>
<tr>
<td>0.29</td>
<td>195</td>
<td>150</td>
</tr>
<tr>
<td>0.24</td>
<td>260</td>
<td>200</td>
</tr>
<tr>
<td>0.21</td>
<td>325</td>
<td>250</td>
</tr>
<tr>
<td>0.19</td>
<td>390</td>
<td>300</td>
</tr>
<tr>
<td>0.14</td>
<td>585</td>
<td>450</td>
</tr>
<tr>
<td>0.09</td>
<td>975</td>
<td>750</td>
</tr>
</tbody>
</table>

**U - Values of GEOCELL as stand alone material:**

<table>
<thead>
<tr>
<th>U - Values (W/m²K)</th>
<th>Loose thickness (mm)</th>
<th>Compacted thickness (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.80</td>
<td>130</td>
<td>100</td>
</tr>
<tr>
<td>0.53</td>
<td>195</td>
<td>150</td>
</tr>
<tr>
<td>0.40</td>
<td>260</td>
<td>200</td>
</tr>
<tr>
<td>0.32</td>
<td>325</td>
<td>250</td>
</tr>
<tr>
<td>0.27</td>
<td>390</td>
<td>300</td>
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<tr>
<td>0.18</td>
<td>585</td>
<td>450</td>
</tr>
<tr>
<td>0.11</td>
<td>975</td>
<td>750</td>
</tr>
</tbody>
</table>
IT'S THAT SIMPLE
GEOCELL® INSTALLATION STEP BY STEP

Preliminary note: The use of GEOCELL® in the capillary fringe of groundwater or water source areas, is not recommended. Install drainage system/capillary moisture barrier if required.

A HIGH QUALITY RECYCLING GLASS PRODUCT

GLASSCRETE - BREATHABLE FLOOR SYSTEM

GROUND FLOOR - RENOVATION
Breathable GlassCrete system - LABC Registered

1:3 or 1:2 Lime - Sand Screed
Geotextile
Compacted GEOCELL Foam Glass
Subsoil

30mm cork board perimeter insulation

Mike Wye
lime screed
Clip rails for heating pipes (if required, not supplied by Mike Wye)
Geogrid (if installing under floor heating)
Geotextile membrane
GEOCELL foam glass
10/30 - min 80mm
10/60 - min 150mm
Geotextile membrane
Subsoil

Typical build up from top:
Flagstone/floor finish
Lime Screed
E’Grid 2020 Geogrid (if fixing UFH pipes)
Geotextile membrane
Geocell Foam Glass Aggregate (compacted)
Geotextile membrane

Moisture vapour

MIKE WYE - GLASSCRETE INSULATED FLOOR

THE ECOLOGICAL ALTERNATIVE FOR ALL FOUNDATIONS
Basement insulation, under slab as well as backfill, rooftop insulation and road construction: GEOCELL is an all-rounder with many benefits, cutting construction time and costs.

1. Passive house, Bruck/Waasen, Austria
2. Renovation of a historic basement and arch, Stadtkeller Pregarten, Austria
3. Passive house, Auleiten, Austria
4. Kindergarten (Passive house standard), Siloah, Hannover, Germany
5. Low-energy supermarket Vienna, Austria
6. Glachau Castle Renovation, Germany
7. AFG Fußball-Arena, St.Gallen, Switzerland
8. Passive house kindergarten, Robert Koch Strasse, Wels, Austria
9. Highschool, Lappersdorf, Germany
Excavation
Excavate immediately prior to the introduction of GEOCELL® to meet flatness and compressive strength in accordance with the object-related requirements. Excavate to formation level and trim/remove any loose material to provide a uniform flat surface. Lay sewage pipes in pipe trenches and fill with sand on subgrade level.

Lay Geotextil
Install auxiliary formwork for GEOCELL® and install non-woven geotextile 150g/m² separation membrane which is to be wrapped up the edges of the completed GEOCELL® installation and overlapped with the surface geotextile. Position splice bars marking the compacted (final) height of GEOCELL®, at regular intervals.

Install GEOCELL®
Filling in the work area can be done by dumper or by wheel barrow to simply, easily and quickly spread GEOCELL® to the required loose thickness by hand using rakes.

Level GEOCELL®
For smaller sites, level GEOCELL® uniformly to the marked height using an excavator shovel and rakes. For larger construction sites a mechanical distribution is carried out before the head by a charger or a shovel. Driving over the uncompacted material should be avoided, as pre-compaction increases material consumption.

Compaction of GEOCELL®
For small sites, compacting shall be performed by a lightweight vibrating shovel compactor (< 100 kg, frequency ~100Hz). Excessive compaction leads to increasing material consumption, but does not have a negative impact on the technical specifications. For design thickness greater than 300mm, placing and compaction is to be undertaken in two or three separate layers.

Polyethylene Separation Layer
Wrap-up the edges of the geotextile to cover the GEOCELL® layer. Protect GEOCELL with overlapping PE-foil.

Install Formwork for Slab
Install formwork for the foundations slab directly on the finished GEOCELL surface and pour slab to meet static requirements.
Compaction Factor 1.3:1
Light vibration plate with strong drive
Running weight < 100 kg
Frequency > 85 Hz, centrifugal force < 18 kN

Compaction Factor 1.3:1
Medium-weight, non-propelled and self-propelled rollers
Running weight < 7.5t, static line loads ~ 20 kg / cm
Frequency > 65 Hz

Compaction Factor 1.6:1
Medium vibration disk with strong propulsion
Running weight < 500 kg
Frequency > 65 Hz, centrifugal force 18 kN < 60 kN

Compaction Factor 1.6:1
Vibrating roller with 2500 kg operating weight

Compaction Factor 1.6:1
Stamping device with adjustable force input
GEOCELL® FOAM GLASS GRAVEL

DELIVERY OPTIONS

FORMS OF DELIVERY FOR GEOCELL FOAM GLASS GRAVEL

BULK LOOSE MATERIAL - Max 90m³
Walking floor truck - 18m x 2.5m x 4m

Pre-packed Bigbags - Max 66m³
Walking floor truck - 18m x 2.5m x 4m

Pre-packed Bigbags - 16m³ per load
Crane off load - Local delivery only

Pre-packed Bigbags - Qty as required
Pallet distribution network

Bigbags Sizes
BigBag 1 m³ ~ 150 kg
BigBag 2 m³ ~ 300 kg
BigBag 3 m³ ~ 450 kg

THE ECOLOGICAL ALTERNATIVE FOR ALL FOUNDATIONS
GEODELL meets RIBA Product Selector & NBS Plus

It’s now even easier to specify GEODELL Foam Glass Aggregate by searching for applications and specifications on RIBA Product Selector and the National Building Specification (NBS Plus).

The sustainable choice of aggregate is increasingly being used in the UK for renovations, construction, landscaping and civil engineering applications due to its load-bearing, lightweight and insulating properties.

THE ECOLOGICAL ALTERNATIVE FOR ALL FOUNDATIONS