



ISOLERGRUND® FOUNDATION SYSTEM WITH A 30 YEAR PERFORMANCE GUARANTEE



ISOLERGRUND® BUILDING FOUNDATION SYSTEM

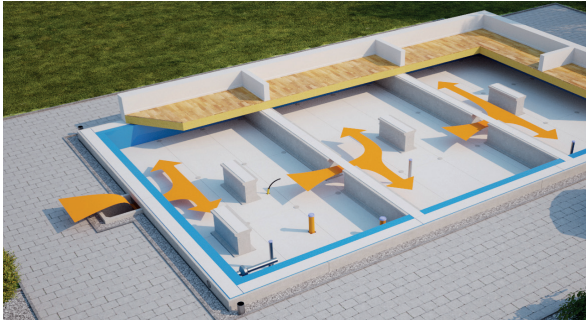
PRE-FABRICATED, PRE-INSULATING, PROTECTIVE!

- ✓ LABC / LABSS Certified UK Building Regulations Compliant for England, Wales & Scotland.
- ✓ Tested by the Swedish Research Institute and Eurofins Certified to fulfil all European regulatory requirements.
- ✓ KIWA Quality Audited production system and 3rd party structural design endorsement by leading global consultancy.
- ✓ Provides complete protection against mould, radon gas, micro-organisms and other ground contaminants.
- ✓ Assembled and commissioned by Isolergrund authorised, trained and certified engineers only.
- ✓ 30 Years, 'no quibble', structural and environmental performance guarantee to provide complete peace of mind.
- ✓ Designed and developed in Sweden with over 5000 systems sold in Northern Europe since its introduction in 2005.



Isolergrund offers many advantages which promote building sales

The property buyer receives a 30 Year Isolergrund performance warranty with individually certified documentation demonstrating that the structure and ground floor enclosure fulfils all relevant building control requirements. Furthermore, the customer can be assured that they will benefit from a healthier internal environment.



Access under the building

Ready access under the building for new building services installations and their maintenance. A purpose made, lockable inspection hatch can be integrated into the side wall of the system for this purpose.



Fresh and healthy living environment

Properties built on an Isolergrund foundation provide a fresh living environment. Isolergrund is the building's protection against the ground contaminants, preventing spores, bacteria and gases that can cause asthma, allergy and fatigue.



Comfortable floor temperatures

Comfortable floor temperatures year-round regardless of outdoor temperature and wind fluctuations. Isolergrund keeps the climate underneath the building at a constant, warm and dry level.



Total protection against mould and radon gas

Total protection against mould, radon gas, odour and microorganisms present in the soil, Isolergrund provides a test proven, sealed enclosure.



Flood protection

Flood protection is intrinsic to the design of the Isolergrund system. An accessible, sealed underfloor void and free-draining base offer the building protection against damage during flooding.



Improves a building's energy performance

Isolergrund improves a building's energy performance by reducing heat losses to the ground. It incorporates ground insulation and protection against inward air movement which together act as an additional protective barrier.

Isolergrund foundation system is UK Building Regulations Compliant : LABC/LABSS Certificate EWS1230 (2020)



Isolergrund is installed using dry, pre-fabricated elements for rapid, all-season assembly allowing programmes to be met irrespective of inclement weather.



Isolergrund is installed by a nationwide network of Isolergrund authorised, trained and certified engineers.



1

Calculation included

We dimension the foundation and create customised assembly drawings for each and every building project. Annual independent auditing by Chartered Engineers ensures that the highest standards are maintained.



2

Authorised installers

The Isolergrund foundation system is supplied, installed and commissioned as one single, all-encompassing contract, by expert, authorised personnel only. This includes all associated earthworks and local drainage.



3

Quick construction

Foundation assembly is far quicker than with traditional methods and is unaffected by inclement weather. Testing is completed and certified once the building is constructed.

Isolergrund foundation system documentation for building compliance

Isolergrund has been tested by the Swedish Research Institute (RISE) with KIWA Certified production control and meets all functional requirements of the England & Wales and Scotland Building Regulations.

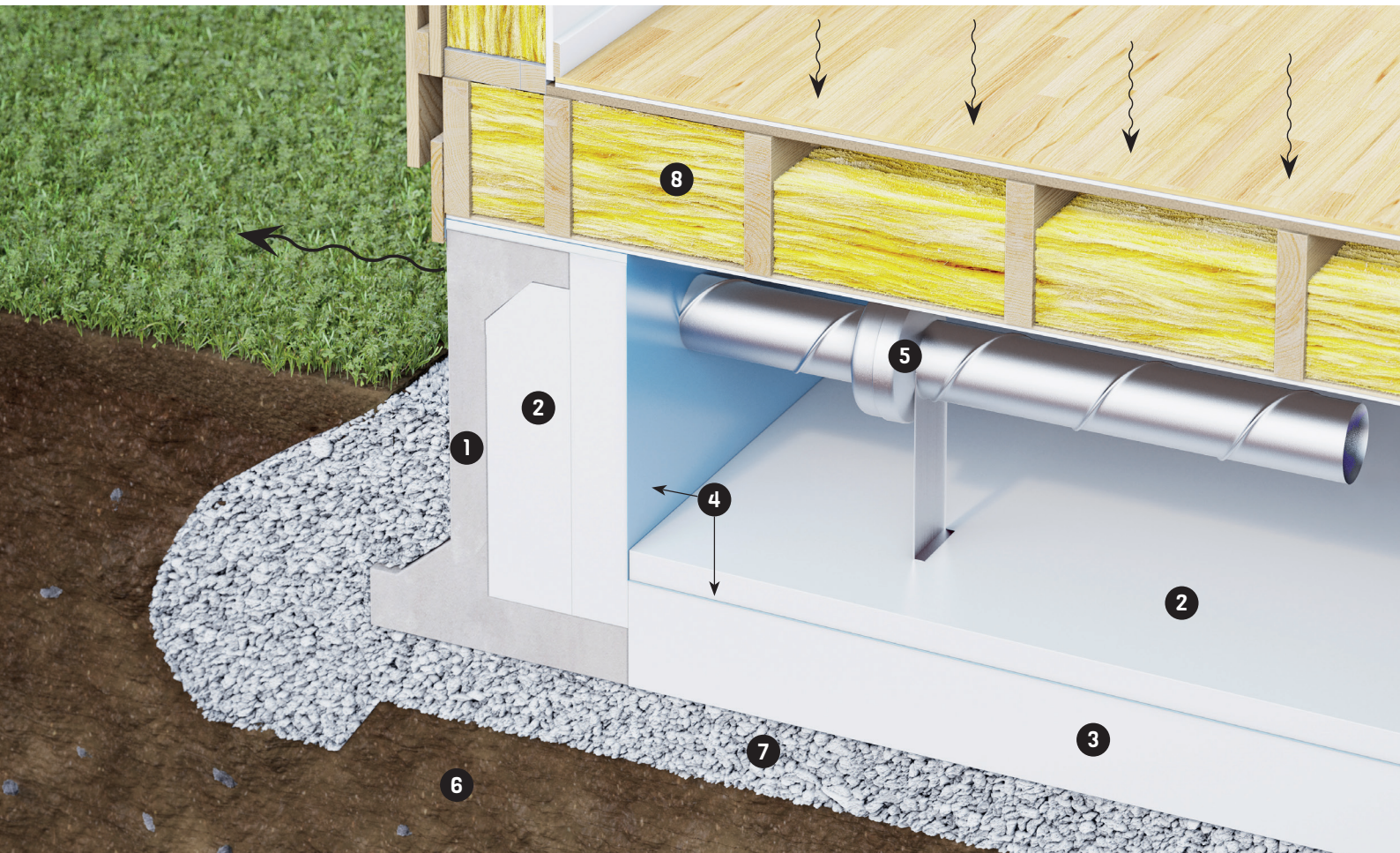


Isolergrund is air tested and warranty certified on completion and a documentation pack is provided for building handover.



Isolergrund is a complete building foundation system in which every detail and element is included as an 'assembly kit'

Isolergrund's production is certified by internationally recognised certifying body KIWA which means that tested components and assembly methods should not deviate from written guidelines. Each and every building foundation is tested and Isolergrund warranty certified with structural integrity controlled by independent expert review.



Isolergrund protects building occupants and their indoor environment from moisture that produces mould and contaminated air with radon gas, microorganisms and mould spores that are naturally present in the soil. The image shows how the ground is both sealed and insulated. The system creates a very slight under-pressure in the foundation which prevents contaminants rising to the occupied space.

- 1. Concrete element** – Pre-cast and avoiding wet trades on site.
- 2. Cellular insulation lining** - Provides a dry and warm climate under the building and eliminates cold bridging
- 3. Ground insulation layer** - Insulates and removes cold bridging and radiation from the ground
- 4. Polyethylene damp proof membrane** - Provides a moisture seal
- 5. Duct mounted fan** – Low watt, sealed-for-life fan directs the airflow downward and prevents polluted air rising.
- 6. Earth** - Contains moisture, radon gas, mould spores, micro-organisms
- 7. Draining material** – Loose fill
- 8. The building's floor structure/insulation material**



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