



ISOLERGRUND® FOUNDATION SYSTEM WITH A 20 YEAR PERFORMANCE GUARANTEE



ISOLERGRUND® BUILDING FOUNDATION SYSTEM

PRE-FABRICATED, PRE-INSULATING, PROTECTIVE!

- ✓ Type Approved in Sweden to fulfil all European regulatory requirements, fully backed by a KIWA Quality Audited system.
- ✓ Provides complete protection against mould, radon gas, micro-organisms and other ground contaminants.
- ✓ Assembled and commissioned by Isolergrund authorised, trained and certified engineers ONLY.
- ✓ 20 Years, 'no quibble', structural and environmental performance guarantee to provide complete peace of mind.
- ✓ Designed, developed and manufactured in Sweden (UK manufacturing partners currently sought).
- ✓ 10 Years history of system application with a 100% success record.

 **ISOLERGRUND®**
CERTIFIED BUILDING FOUNDATION



Isolergrund offers many advantages which promote building sales

The property buyer receives a 20 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 is integrated into the side wall of the system for this purpose.



Fresh and healthy living environment

Properties built on a 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 temperature and wind fluctuations outdoors. 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 sealed and negatively pressurised enclosure, proven by test in each case.



Flood protection

Flood protection is Intrinsic to the design of the Isolergrund system. The 600mm clear void height, underfloor seal 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 Type Approved for both traditional and modular built properties



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), type-approved by KIWA, and meets all functional requirements according to national building control standards.



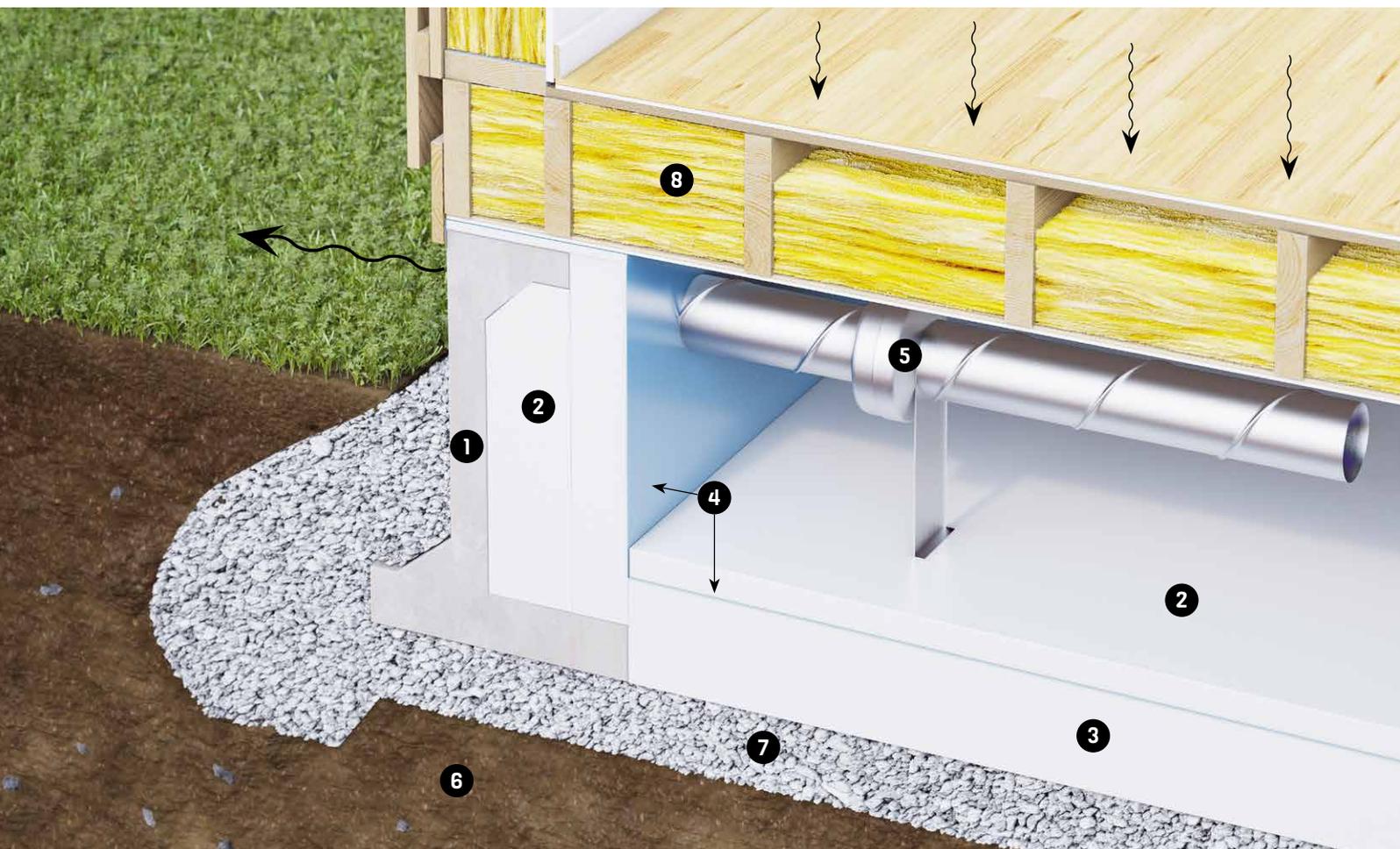
Isolergrund is type approved and permits self-certification and air tightness testing. A comprehensive Documentation Pack is provided for building handover.



Isolergrund is type-approved as a complete stand-alone foundation system in which every detail and element is included as a 'building kit'

Isolergrund is an insulated and documented concrete foundation system that has the advantage of offering key environmental benefits and full access under the building. The construction design is based on specialist aggregate knowledge and years of research and development with such partners as RISE (Swedish Technical Research Institute).

Isolergrund is type-approved and certified by internationally recognised certifying body, KIWA, which means that tested components and assembly methods should not deviate from written guidelines. It also means that each and every building foundation is tested and that Isolergrund is continuously controlled by an independent third party.



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 insulation material**



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