European Radon Solutions Database

Prepared by

: ERRICCA 2 *European Radon Research and Industry Collaboration Concerted Action*

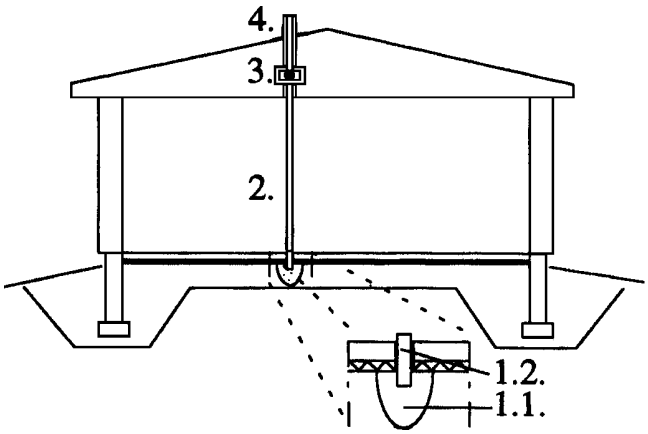
European Commission Contract N°: FIRI-CT-2001-20142

Existing Buildings

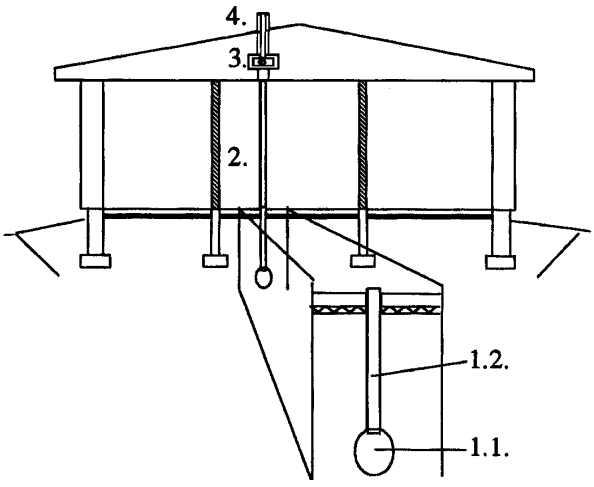
Sheet N°

Type	**Sub-slab suction**
Country	**Finland**

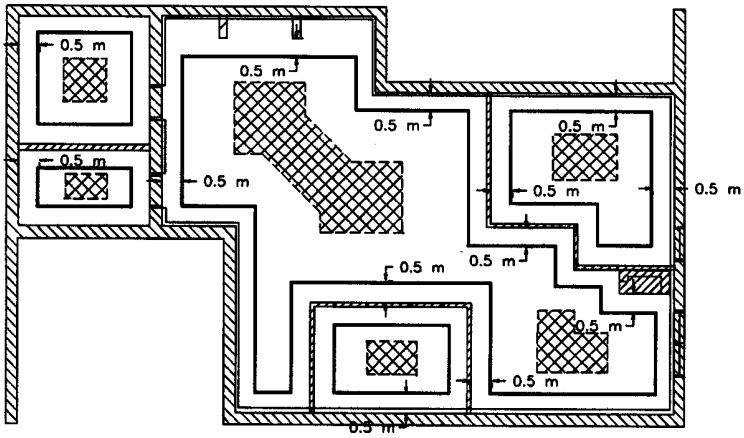
Illustration



Sub-slab suction with a normal suction pit



Sub-slab suction with a deep suction pit



Recommended location of potential suction pits

Drilled holes in slab

Chiseling of the hole

When to use the system

Slab-on-ground and cellar houses

Specification This is a basic guidance including:

- **basic background data**
- **important things to be explored before remediation**
- **design basis for location and and number of suction pits**
- **design of outlet piping**
- **guidance for qualified suction pit workmanship**
- **thermal insulation to outlet piping**
- **air flow dimensioning, max 02-0.5 m^3/h per slab m^2**

Further information

Indoor radon mitigation in low-rise residential buildings - sub-slab-suction. Guidance published by Ministry of Environment, Environment Guide No 4 1996

Date Prepared **:** **7.11.2003 Hannu Arvela, STUK Finland**