



# European Radon Solutions Database

Prepared by  
: ERRICCA 2 *European Radon Research and Industry Collaboration Concerted Action*  
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## Existing Buildings

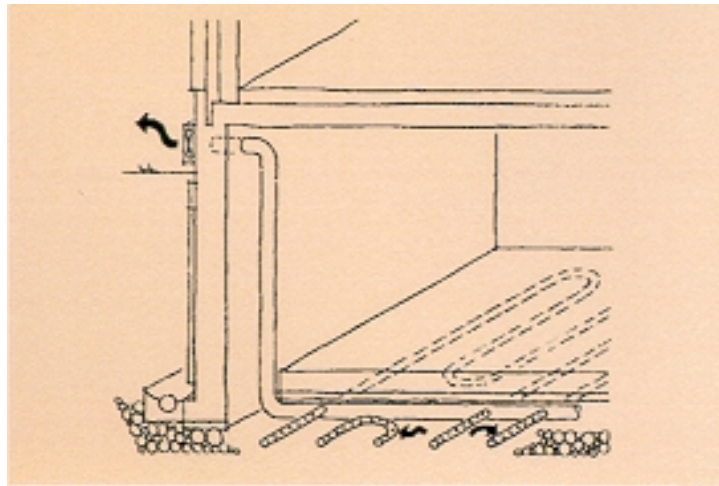
### Case Study

Sheet N°

**Type** Extraction of soil air

**Country** Switzerland

### Illustration



## Description

The soil air is extracted through perforated drainage pipes. The pipes are laid in coarse gravel at a distance of about 1.5 m apart and have a diameter of about 10 cm. If the exhaust vent is placed high enough above the roof, a fan may not be necessary. Otherwise, the exhaust vent should be sheltered (snow, rain) and be at least 2 metres away from windows and doors.

## Selection

This system is ideal for house restoring.

## Pre-installation Diagnosis

High radon concentration and where restoration of the property a restoring is envisaged.

## Radon reduction achieved

Radon reduction from 1600 Bq/m<sup>3</sup> down to 100 Bq/m<sup>3</sup>

## Problems

If you have to deal with ~~a~~ rock, it is necessary to lay a flexible drain. |  
The exhaust vent should be sheltered (snow, rain) and be at least 2 metres away from windows and doors.

## System enhancements

Additional measure: A gastight foil at least 0.5 mm thick may be laid over ? beneath the pipes.

## Further Information

More information about this system in the "Swiss Radon Guide" could be bought or downloaded from our website [WWW.CH-RADON.CH](http://WWW.CH-RADON.CH)  
[www.bag.admin.ch/strahlen/ionisant/radon/pdf/d/Radonhandbuch-en.pdf](http://www.bag.admin.ch/strahlen/ionisant/radon/pdf/d/Radonhandbuch-en.pdf)

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Radon Technical and Information Centre  
Roserens Gorges-André  
CH-3003 BERN  
E-mail: [georges.roserens@bag.admin.ch](mailto:georges.roserens@bag.admin.ch)  
FAX: ++41 (0)31 322 83 83

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