



# 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

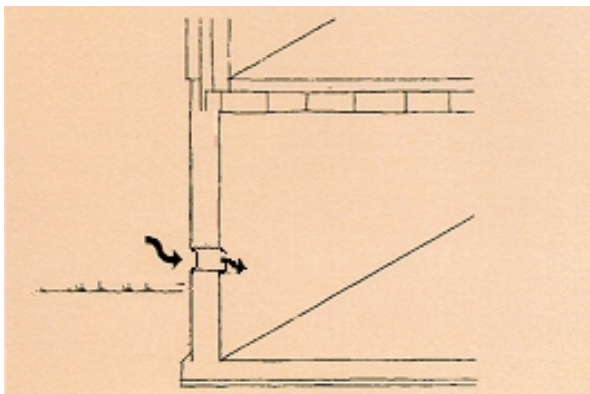
### Case Study

Sheet N°

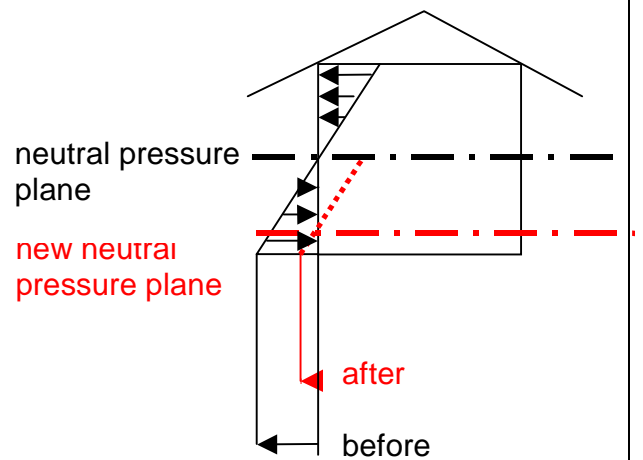
**Type** Reduction of the depression.

**Country** Switzerland

### Illustration



Depressurising the bottom of the building through convection



## Description

Every building has a pressure difference from top to bottom. The pressure difference has various causes. Reduce as much as possible this underpressure

## Selection

Premises in the basement.

## Pre-installation Diagnosis

Measure the radon concentration with a continuous monitor. Open a window slightly 2 days and compare the radon concentration before, during and after the test  
It is better to effectuate this simulation in the cold period.

## Radon reduction achieved

Radon reduction from 850 Bq/m<sup>3</sup> down to 200 Bq/m<sup>3</sup>

## Problems

Noise and dust: use a device with a-sound insulation to reduce the outside noise and an air filter.

## System enhancements

Window or wall ventilators for installation in living rooms, bedrooms and work areas

## 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)

or direct from  
Swiss Federal Office of Public Health  
Division of Radiation protection  
Radon Technical and Information Centre  
Roserens Georges-André  
CH-3003 BERN  
E-Mail: [georges.roserens@bag.admin.ch](mailto:georges.roserens@bag.admin.ch)  
FAX: ++41 (0)31 322 83 83

Date Prepared : July 2003