



European Radon Solutions Database

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

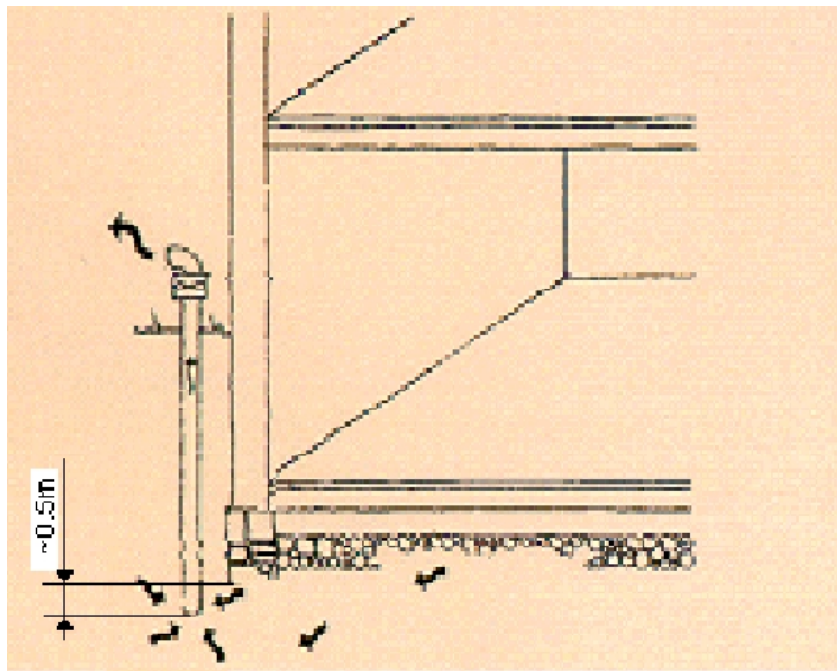
Case Study

Sheet N°

Type External radon sump

Country Switzerland

Illustration



Description

The soil air is extracted using a fan. The exhaust vent should be sheltered (snow, rain) and be at least 2 metres away from windows and doors, so that the severely contaminated air does not reinfiltrate the interior. Care should be taken that the air is not blown directly onto a terrace, play area or other much-used place. The pipe must be deeper than the footing.

Selection

High permeability from the soil is necessary.

Pre-installation Diagnosis.

A soil analysis could be more expensive than the radon sump itself.

Radon reduction achieved

Radon reduction from 1700 Bq/m³ down to 100 Bq/m³

Problems

The exhaust vent should be at least 2 metres away from windows and doors, so that the severely contaminated air does not reinfiltrate the interior.

System enhancements

Additional measures: Depending on the properties of the soil and the size of the building, one suction point may be enough, or several may have to be installed. If it's possible carry out the exhaust on the roof of the building

Further Information

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

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