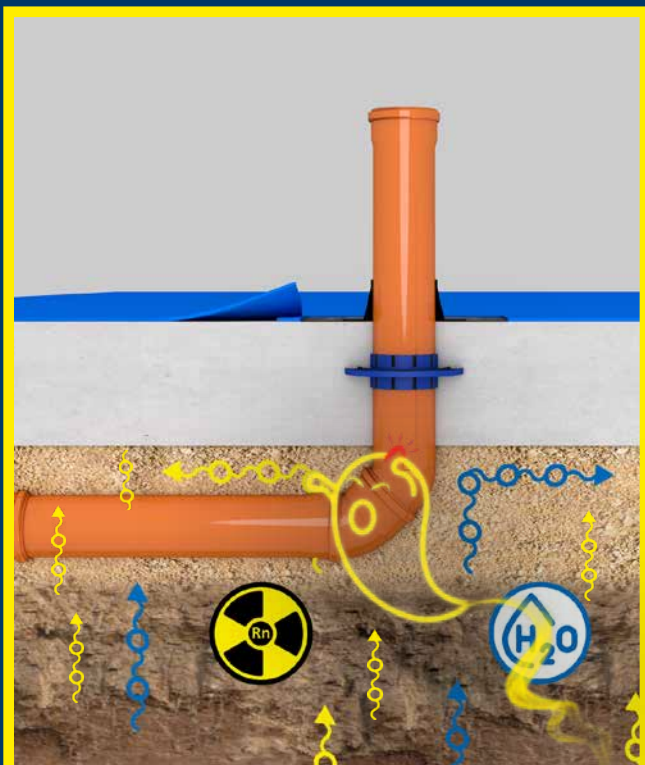


Always. Reliable. Tight.

hauff
technik



Bring the
Spectre
to an End!

THE MOST IMPORTANT INFORMATION AT A GLANCE!

RELIABLE PROTECTION AGAINST RADON GAS

Bring the spectre to an end!

UNPREDICTABLE GHOST RONNIE RADON



RONNIE RADON INTRODUCES HIMSELF

- Born: Discovered in 1900, I have been around since the beginning of time
- Profession: Radioactive noble gas
- Family: Uranium and Radium
- Habitat: Resident in the soil in different concentrations, depending on the region
- Properties: colourless, odourless, tasteless
- A pin hole gives me enough space to sneak into your house with 900.000 of my siblings to wreak havoc
- My strength: useful for pain therapy
- My weakness: I can cause lung cancer

KEY FACTS ABOUT RADON

THIS ORDINANCE AIMS TO PROTECT THE PEOPLE AND THE ENVIRONMENT AGAINST DAMAGE DUE TO IONISING RADIATION (RADIATION PROTECTION ORDINANCE STSV)

Art. 155

Radon Reference Value

For the average annual radon concentration in rooms, in which people regularly spend many hours per day, a radon reference value of 300 Bq/m³ applies.

Reference values:

in workplaces: 300 Bq/m³

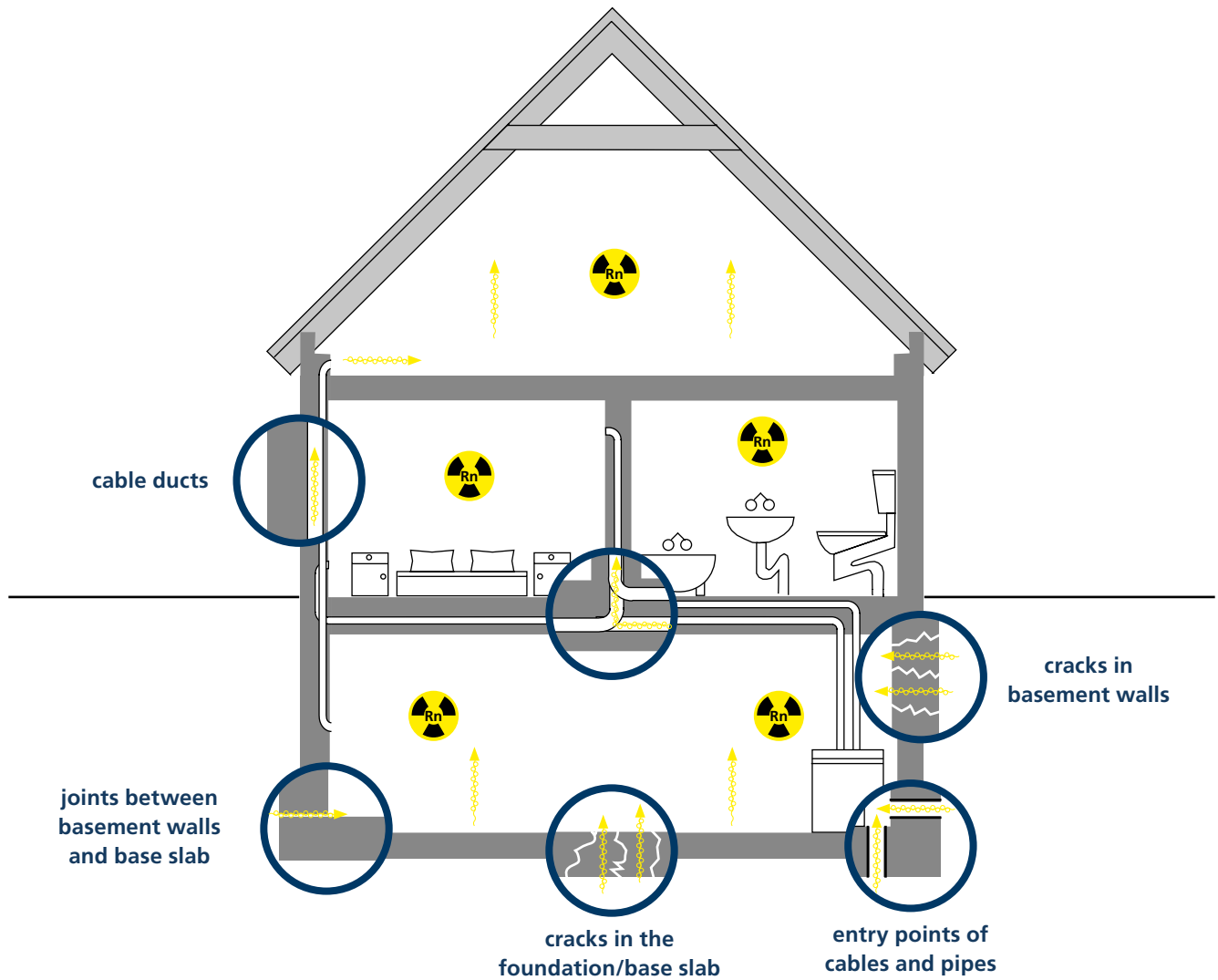
indoors: 300 Bq/m³

The radon reference value is equivalent to the radon gas concentration, which if exceeded, requires measures as per Article 166 to be undertaken.

To prevent the ingress of Radon into the building, the building shell which is in contact with the soil shall be watertight. This requires a continuous base plate and that the walls in contact with the soil are made of concrete with exposure class XC2.

Moreover, gas-tight service penetrations for electricity, water, waste water etc. are extremely important.

Reasons for radon inside buildings
ENTRY PATHS FOR RADON



THE THREE MOST COMMON DEFECTS

1. LEAKS IN BASEMENT SLABS AND WALLS

- Unprofessionally laid underground entry points of cables and pipes
- Cracks due to subsidence and building displacements

2. SEPARATING COMPONENTS BETWEEN THE FLOORS

- Doors to basement stairs
- Cracks and joints
- Unprofessionally laid entry points of cables and pipes

3. NO RADON BARRIER OR WATERPROOFING MEMBRANE

- Between blinding layer and base slab
- Between base slab and floor construction

Source:

Bundesamt für Gesundheit BAG (2018): faktor Architektur Technik Energie, Radon Praxis-Handbuch Bau. Auflage 1, Zürich.

Keep in mind!

SAFETY RISK RECTANGULAR RECESSES



- not watertight
- not radon-tight

- no safe connection for vapour barrier foil

Easy to use!

STEP SAFE AND RADON-THIGHT



+ simple on-site installation without rectangular recesses

+ non-trip installation according to DGUV 38 §12a thanks to step safe insert

+ gastight and watertight connection to the base slab thanks to the integrated 3-ribbed seal

Keep in mind!

LACK OF PROFESSIONAL SEALING



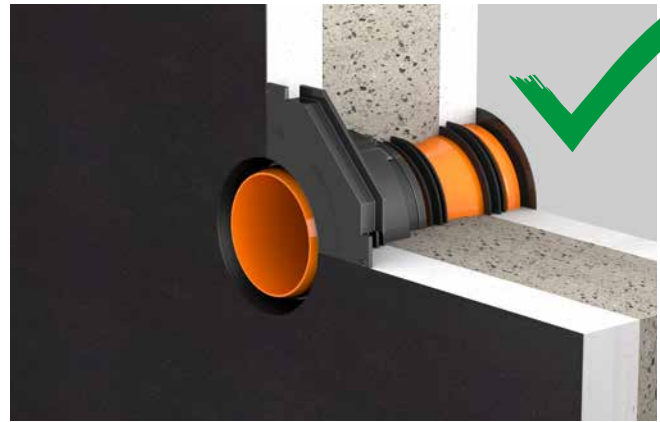
not watertight

no connection to area sealing (PMBC)

not radon-tight

Quick seal!

SECURE BONDING WITH THE PMBC COATING



+ roughened surface for optimal bonding with the PMBC coating

+ guaranteed gas-tightness and watertightness of the wall through attachment to the PMBC coating

Keep in mind!

LACK OF PROFESSIONAL SEALING



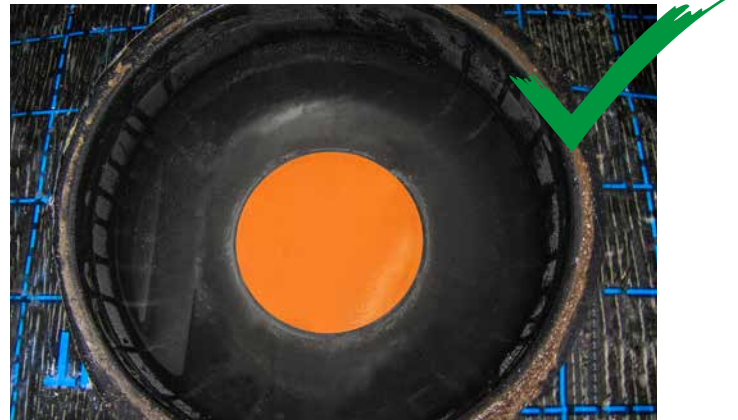
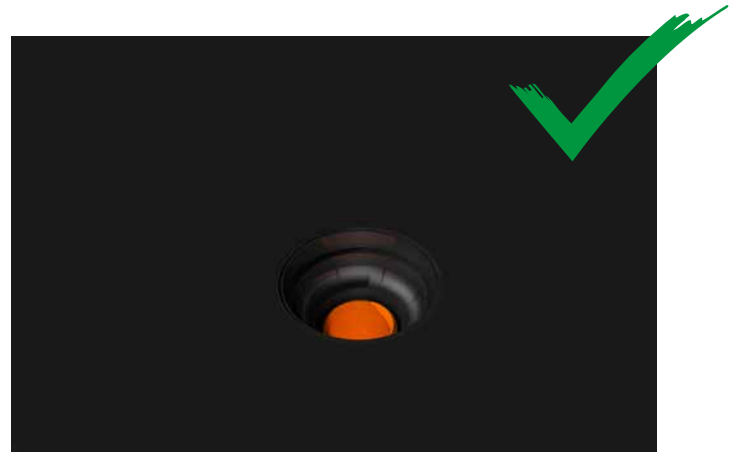
not watertight

not radon-tight

no safe connection for vapour barrier foil

Quick seal!

SECURE BONDING WITH THE VAPOUR BARRIER FOIL

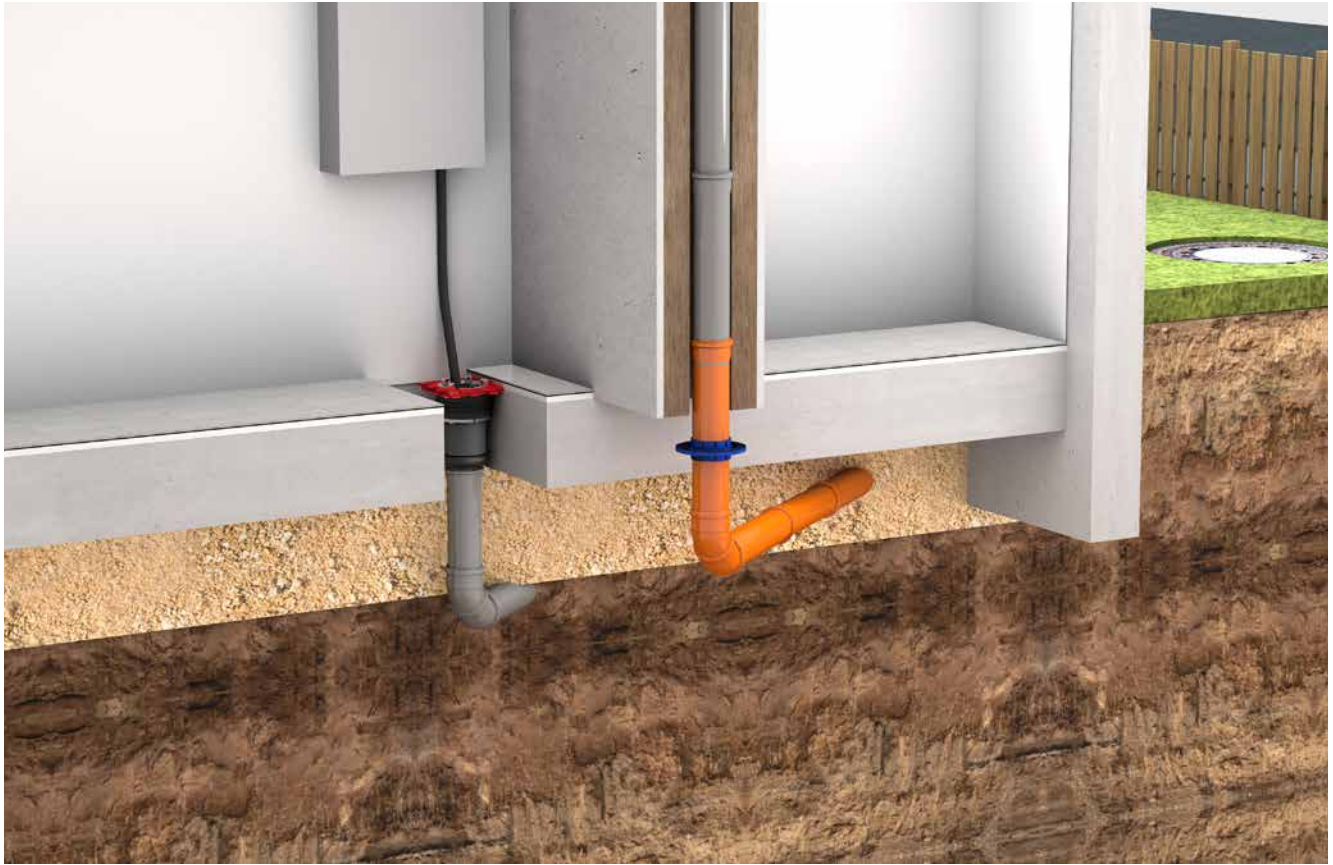


+ adhesive ribbon for simple integration of vapour barrier foil

+ guaranteed gas-tightness and watertightness of the wall through attachment to the vapour barrier seal

This is how it's done!

BASE SLAB SECURE RADON-TIGHT



+ tested watertightness

+ tested radon tightness

This is how it's done!

BASE SLAB SECURE RADON-TIGHT

HSI150 KCH



KG-FIX



HRD



This is how it's done!

BASEMENT SECURE RADON-TIGHT



+ tested watertightness

+ tested radon tightness

This is how it's done!

BASEMENT SECURE RADON-TIGHT

BUILDING ENTRY HSI90 KCH K55 WITH PRESSRING AS SET



KG-FIX



HSD





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