

RADON GAS TESTING

CONTINENTAL ENVIRONMENTAL SERVICES LTD

INTRODUCTION TO RADON & THORON

Occupational exposure in the work place

Continental Environmental Services, undertakes RADON and THORON GAS compliance testing, advising clients if there is a risk within their place of work that has not previously been assessed.

A key example is the use of Granit, where Granit is the primary source and emitter of RADON and THORON gas. Granite has been

used within foundations of buildings for many years, highways and industrial buildings to build secure

foundations. Importation of Granit, also includes the naturally occurring sources of RADON and THORON gas emissions, these gases are not thought to be checked in modern building or in areas that are outside the known areas where RADON AND THORON GASES are naturally found, as defined by the National Radon map. The presence of RADON and THORON can easily be found in areas that are considered to be RADON and THORON free. These gases can be trapped within basement areas, or in areas where ventilation is poor. Survey Safe™ (CES), can

detect and quantify this risk using our latest hardware and software to capture these gases. Survey Safe™ (CES) has invested significantly in hardware and software to provide a reliable service.

The change in Regulations and Work Place Exposure have meant more companies are having to

ANALYTICAL SERVICES AND QUANTIFICATION TO ISO STANDARDS

commission compliance testing to determine the presence of Radon and or Thoron GAS

concentrations. Detection and quantification within a timely manner will assist the duty holder or responsible person in any re-design or planning permission activities to evaluate the risk of RADON AND THORON GAS. Both gases, Radon and THORON can be tested in soils and in open water, it is not just confined to basements and confined rooms, or ducts. There is no need to apply, or request a license from the HSE for RADON or Thoron Gas testing.

SERVICES PROVIDED

Occupational Health and Safety in the work place:

- Detection of risk
- Quantification of works place exposure
- Investigations related to RADON GAD seepage into buildings
- Advice on managing the risk of RADON GAS

CHANGE IN LEGISLATION IN 2018

Occupational exposure ratings have changed, regulations concerning Radon gas have been tightened in 2018. The changes include annual monitoring of 'proven sites', in order to safely determine an accurate level of exposure.

Tests previously undertaken by absorption cards, take 3 months to complete and verify if any RADON gas is present or not. This has now changed with the introduction of the RAD 7, electronic analysis.

The time delay was always a concern with absorption cards, but also the subjective assessment as to their colour change in establishing the safe threshold below 400Bq m⁻³ and comparison to the historical charts.

This threshold of 400Bq m⁻³ has now been reduced to an average of 300Bq m⁻³ over a period of a year, and can now be quantified using our hardware to collect and analysis samples within a 24hour period, as

opposed to months to know if there is a risk or not.

Our testing is impartial using the RAD 7 and software for reporting the results, as the hardware used to collect the sample is calibrated and serviced to provide reliable and consistent test results. We do not rely on human interpretation of colour change or extrapolation of pre-existing tables to evaluate quantification. Our reporting is factual.

More information can be gained from our website – www.survey-safe.co.uk



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