



**NATIONAL INSTITUTE FOR NBC PROTECTION**  
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**CALIBRATION LABORATORY no. KL 2265**  
**Certified Czech Accreditation Institute according**  
**ČSN EN ISO/IEC 17025:2018**

### CALIBRATION REPORT no. 6531

Client	IGU Institut für angewandte Isotopen-, Gas- und Umweltuntersuchungen Wörthseestrasse 34 a 82237 Wörthsee tel: 08143 8583 mobile: 0172 823 79 72 e-mail: sav.igu@t-online.de
Client's representative person	Dr. J. Salvamoser
Calibrated device	EQF 3200, Production Number: EQF2-00271
Date of device receiving	17.3.2021
Date of the calibration	19.3. - 10.4.2021
Location of calibration	Calibration laboratory - radon chamber
Personnel	M.ENG. J.Vošahlík
Standard device	Equipment for radon concentration calibration 19182
Methodology specification	AMS-R ( measurement of Radon Concentration ) AMS-E ( measurement of EER )

**DECLARATION:**

The result of calibration apply to the device of these calibrated device only.

The report shall not be reproduced except in full, without the written permission of the laboratory.

Calibration report is not valid without stamp and signature.

Calibration report was issued after accreditation of laboratory by Czech Institute for accreditation – reg. no. KL 2265.

Calibration report is closed by the signature of the head of laboratory.

Ref. No.: SÚJCHBO/863/J-4.5.3/21/Voš	Issue No.: 1 – Client	Page: 1
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Client (device owner)	IGU, Wörthseestr. 34 a, Wörthsee
Device	EQF 32000
Device producer	SARAD GmbH, Dresden
Device S/N	EQF2-00271
Device function	The EQF 3200 is equipped with instrument grade semiconductor radiation detectors, both in the radon measurement chamber and the sampling head for the decay products. This allows a perfect separation of the different decay products of radon, using alpha spectroscopy.

**Results:**

**1) Measurement of EER**

Level	Client's results [Bq.m <sup>-3</sup> ]	Calibration lab's results [Bq.m <sup>-3</sup> ]
1	2735	2090 ± 190
2	3414	2640 ± 210

Ratio of result (related to Calibration laboratory) is:

1,31 (for level 1),

1,29 (for level 2).

**2) Measurement of Radon Concentration**

Level	Client's results [Bq.m <sup>-3</sup> ]	Calibration lab's results [Bq.m <sup>-3</sup> ]
1	11353	10050 ± 520
2	1263	1158 ± 62
3	379	356 ± 25

Ratio of result (related to Calibration laboratory) is:

1,13 (for level 1),

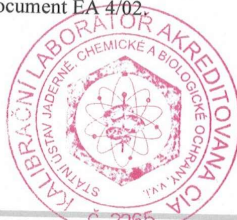
1,09 (for level 2),

1,06 (for level 3).

**Remarks:**

Calibration laboratory is traceable to BfS Berlin, Germany.

Uncertainty of Calibration laboratory was estimated using document SMS-N-R-T and using coefficient k=2 (for Gaussian distribution it corresponds 95 per cent probability covering). Standard uncertainty was estimated in accordance with document EA 4/02.



**M.ENG. Josef Vošahlík**  
Head of Calibration laboratory no. KL 2265

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