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Radon Assessment in rooms constructed with Phosphogypsum-based fired bricks

We present Radon measurement results in a room that was constructed using fired bricks made partly with phosphogypsum. Radon concentration values are monitored and reported for two different seasons and at different stages of the room construction, i.e., bare walls and finished walls. The results are compared to a reference room that was built next to the pilot room with the same physical characteristics but with standard bricks. The measurements were made at the same time and under the same conditions. The study is focused on the radioactivity assessment in the construction material and the health risk due to using phosphogypsum-based fired bricks in construction. The results are very promising. The new bricks meet all physical and mechanical requirements for this type of material. All radon concentration values are below the strictest standards, i.e., les than 200 Bq/m3.

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