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DOYMA GmbH & Co  
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## Certificate

### *Determination of the Radon Diffusion Coefficient*

The radon diffusion coefficient D of the sealing system "Curaflex® Quick In A40" as supplied by the client

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has been experimentally determined by IAF-Radioökologie GmbH using a double chamber system. The results are provided in the following table.

Description of variables	Measured values
Diffusion coefficient D	$1.06 \cdot 10^{-10} \text{ m}^2/\text{s}$
Diffusion length $L_D$	7.10 mm
Material thickness d	40 mm
Area of the material F	314 cm <sup>2</sup>
Test parameter $R = d/L_D$	5.63
Result	<b>R &gt; 3, i.e., radon tight</b>

The result "radon tight" also applies to the sealing systems Curaflex® A40, Curaflex® C40 und Curaflex® Quick In C40.

A sealing system is rated "radon tight" if its thickness exceeds the radon diffusion length of the material at least by a factor 3. Otherwise the sealing system is rated "not radon tight". A "radon tight" sealing system is defined by a material which, when covering a radon-exhaling surface, reduces the exhalation rate by at least 95% compared to the bare surface.

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