

RokCell



FEM analysis

Freq. min (Hz): 4.000123 Freq. max (Hz): 4364.134 Nb Freq.: 200

Edge BC: Bonded No elastic model!

Leaks (%): 4.3 Leak width (mm): 0.5 Actual radius (mm): 22.5

Elt order: 12

Compute

Use your existing setup and characterize !

Inputs

Impedance tube measured data obtained with :

- the three microphone technique
- the four microphone technique
- the two-load method.

To be used ideally with **TubeCell** acquisition software.

MATELYS also provides **turnkey equipments** and **customised setups** : porosity, resistivity, elastic modulus ...

Introduce accurate inputs in your design process !

FEM, CAA, SEA, Ray-tracing tools...

Key features

- analytical inversion
- check for **parameter consistency**
- **air flow resistivity estimation** from acoustical measurements
- **FEM** module to estimate **bonding** or **leakages** effects

Dedicated export to

- **AlphaCell**
- **Actran** (FFT product)

Outputs for porous materials

- JCA / JCAL parameters

Outputs for screens and perforated plates

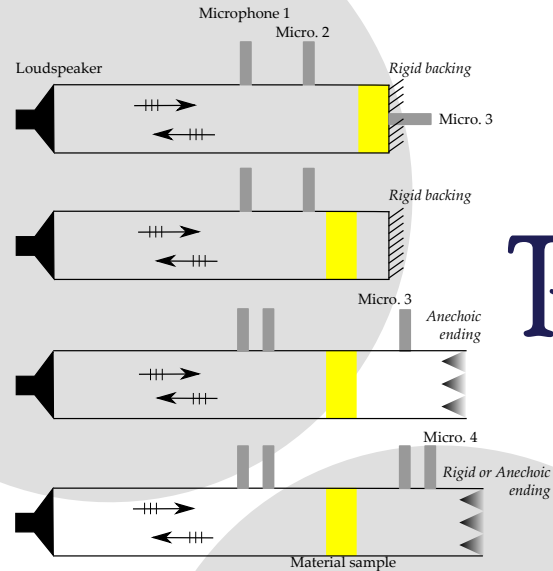
- resistivity, opening rate, JCA equivalent parameters

Output for liners

- parameters for **Özyörük** time-domain impedance model

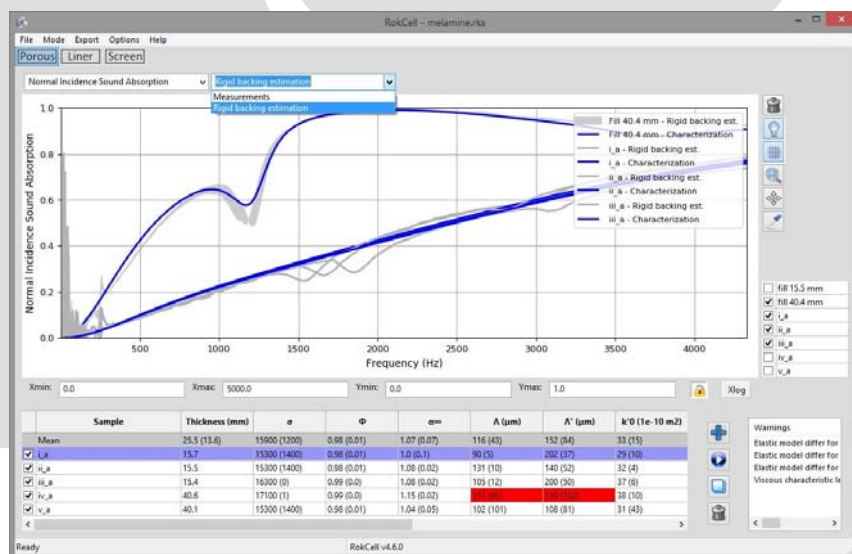
RokCell runs under

MS-Windows, Linux, Unix, Mac



TubeCell

AlphaCell



RokCell is a software product designed and developed by MATELYS-Research Lab

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