

Question 8

Q: Can Femtet analyze phenomena related to sound reflection, absorption or damping, or transmission?

A: Yes, Femtet can do it.

Applying an imaginary part to sound speed can express sound absorption or damping.

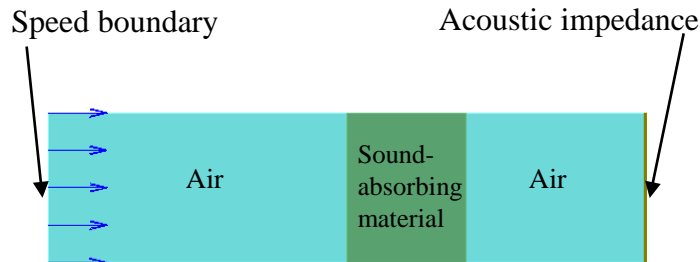
Please refer to the next page.

Additional Information

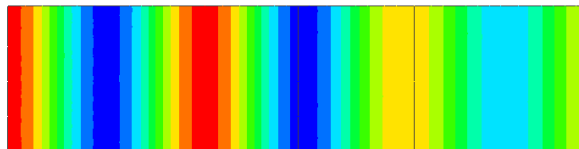
Applying an imaginary part to sound speed can represent sound absorption or damping.

In the diagram on the right, a sound-absorbing material is placed between air domains. The contour of sound pressure illustrates how the sound waves attenuate through the sound-absorbing material and the sound waves transmit partially.

The contour of the sound pressure level illustrates how the sound pressure level is not constant on the left side of the sound-absorbing material. This indicates the presence of reflection waves.



Contour of Sound Pressure [Pa]



Contour of Sound Pressure Level [dB]

