



Co-operation offer



Institute Of Building Materials And Structures
Faculty Of Civil Engineering
Cracow University of Technology

Technology offer

Building and Architectural Acoustics Laboratory (BAAL) Building and Structure Physics Division L17

Building and Architectural Acoustics Laboratory (BAAL) is a part of Building Physics Lab. Our mission is to help architects and structural designers make their buildings acoustically better. We also help building material manufacturers to develop or improve acoustical performance in their products. We offer consulting services in the field of acoustics from the design phase until final building or product testing.

Research:

- Speech intelligibility in rooms
- Relations between sound insulation and thermal properties of materials
- Sound focussing in rooms - prediction and measurements methods

Consulting:

- acoustical design of buildings
- product development (sound absorption and sound insulation)
- simulations of noise emission in building interiors
- room acoustical simulations
- BREEAM / LEED certification in acoustics

On-Site measurements:

- Airborne sound insulation (PN EN ISO 140-4 & PN EN ISO 16283-1)
- Facade sound insulation (PN EN ISO 140-5 & prEN ISO 16283-3)
- Impact sound insulation (PN EN ISO 140-7 & prEN ISO 16283-2)
- Noise level
- Reverberation time (PN EN ISO 3382-1 & 3382-2)
- Speech Transmission Index STI (Speech Intelligibility PN EN ISO 3382-3 & PN EN 60268-16)

Laboratory measurements:

- Sound absorption of materials (incl. small scale samples - Impedance Tube)
- Sound insulation of materials and composite panels (incl. small scale samples - Impedance Tube)
- Sound absorption of materials for scale model tests
- Scale model testing for architectural acoustics (concert halls, theatres, auditoriums, etc)

Contact details:

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Scientist + Entrepreneur = Success

If you are planning to develop your company on the basis of the latest scientific findings and you would like to collaborate with experienced scientific experts check the offer of Cracow University of Technology for the industry www.s2b.transfer.edu.pl.

Our online database includes:

- technology offers, patents and industrial designs
- listing of University commercial services including laboratory expertise and research
- database of experts with experience in the implementation of services for the industry

As an internal unit of Cracow University of Technology, our team of consultants is specialized in the commercialization processes. On the other hand long term active cooperation with entrepreneurs allows us to identify precisely industry needs and expectations. Experiences gained through the last two decades on the edge of industry and science collaboration, let TTC formulate optimal models of commercialization and suitable methods of development projects support.



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