ALPHA ACOUSTIKI

ACOUSTICS – NOISE & VIBRATION CONTROL

COMPANY PROFILE
PAST

ALPHA ACOUSTIKI Ltd, located in Athens, Greece, is one of the leading firms in Architectural Acoustics, Noise & Vibration consultancy. Founded by Theodor Argoudelis, the company was involved in several acoustic studies, including architectural acoustics and prediction of noise propagation in open space (highway, railway, airports and industrial plant noise).

PRESENT

Today, ALPHA ACOUSTIKI is utilising the most advanced equipment combined with its staff experience since 1980 in the field to carry out a vast range of acoustic studies. Such applications have been carried out in HVAC applications, concert halls, theatres, cinemas, multiple purpose halls, industrial plants, commercial building, places of worship, recording studios etc.

FUTURE

Our engineering team includes a team of highly skilled engineers, with many years of experience in acoustics design and troubleshooting difficult noise control problems. We provide acoustical consulting services to architects, engineers, factory managers, public sector administrators and building owners.
Our approach is to face every project as unique, examining all aspects and technical facts utilizing our experience and technical background. Our consultancy team combines scientific knowledge based on academic and practical skills. We review architectural plans, conduct site evaluations and use sophisticated predictive modeling software to deliver the desired acoustical results and the most appropriate, cost-effective acoustical solutions. As acoustical consultants we diagnose potential acoustical design problems and solve them before they are built into structures. However, if a facility is already built, we can also consult on acoustic modifications to achieve the desired results.
Our team includes acoustic consultants, acoustic engineers, noise and vibration consultants, aiming at providing a full range of competencies tuned to your specific needs. Our highly specialized acoustic consultants with more than 40 years of experience in the field can deal with any noise and vibration control problem.

THEODORE ARGOUDELIS
General Manager
Mechanical Engineer, B. Eng
University di Bologna
Acoustic Consultant with over 40 years experience

ANTONIOS ARGOUDELIS
Industrial Engineer B. Eng
M.Sc. in Environmental and architectural acoustics, London, UK
M.Sc. in Project Management, Sydney, Australia

NIKOLAOS ARGOUDELIS
Mechanical Engineer C. Eng
M.Sc. Sound and Vibration Studies (I.S.V.R.), Southampton, UK
Project Designer
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VLASSI ELENI  
Architectural Engineer,  
National Technical University of Athens,  
Acoustic Consultant

IOANNIS MICHALAROS  
BA Mathematics,  
UW Seattle,  
Acoustic Consultant

EVI SPYROU  
Civil Engineer,  
National Technical University of Athens,  
Acoustic Consultant
Acoustic Measurements
Noise Control Studies
Vibration Control
Acoustic Studies
R & D Activities
Acoustic Measurements

ACOUSTIC PROJECT FIELDS

ACOUSTICS – NOISE & VIBRATION CONTROL
Acoustic Studies

Our consultants specialize in the design, modeling and engineering of interior room acoustics. Our acoustic team analyzes architectural plans and engineering calculations, to predict acoustic performance and to propose the necessary interventions for optimal design of architectural acoustics.

We design architectural acoustic solutions for all kinds of facilities where enhanced aural clarity, quality and speech intelligibility are critical.
Auditoriums - Theaters

Ancient Theatre of Epidaurus, Greece

Auditorium, Eurobank Nea Ionia Complex, Greece
Great Scene, Dramski Theatre, Skopje

RAY TRACING

RaSTI
Offices-Conference rooms

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PALAZZO Project, Nairobi, Kenya

Filoxenia Conference Center, Cyprus
Multi-Purpose Buildings

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RAY TRACING

RaSTI

Seeroo Fi Al Ardh Carousel, Qatar
Noise Control Studies

Alpha Acoustiki offers a complete range of noise control and vibration isolation services in a wide range of applications which include among others:

- Industrial Noise
- Heating, Ventilation, Air Conditioning
- Environmental Noise
- Noise at Work – Occupational Noise
- Building Sound Insulation
Noise Control Consultancy for MEP

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Za'abeel Palace, Dubai
Grass House Restaurant, Greece
Sarit Centre Expansion, Nairobi, Kenya
Pharmaceutical-research-sports centre, Attika, Greece

Sarit Centre Expansion, Nairobi, Kenya
Za'abeel Palace, Dubai
Grass House Restaurant, Greece
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Noise Control Consultancy for MEP

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Outdoor Noise propagation prediction

Marwa Towers, Doha, Qatar

Hotel & Complex of Al Najadah Souq
Industrial – Fans Noise Control

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Industrial – Noise Prediction
Environmental Measurement at Public Power Corporation's factory, Chios Island, Greece
Vibration Control

Our engineers conduct vibration measurement and assessment studies and use those findings to recommend vibration isolation solutions to control and mitigate vibration generated by mechanical systems.
Vibration Control Consultancy for MEP

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Marmara Hospital, Turkey

Evangelismos Public Hospital, Athens, Greece

Public Hospital, Athens, Greece
Alpha Acoustiki uses advanced measurement instruments in order to provide a wide range of noise-vibration and room acoustics measurements which include among others:

- Industrial noise
- Environmental noise / Noise mapping
- Occupational noise & vibration measurements and dosimetry
- Mechanical systems noise
- Vibration Measurements (in building and HVAC)
- Room acoustics parameters estimation
Acoustic Measurements
Measuring equipment

Alpha Acoustiki is equipped with a complete series of Sound Level Meters and equipment for on site measurements including:

• Sound Level Meter BEDROCK SM90
• Sound level meter Bruel & Kjaer 2250
• Calibrator Brüel & Kjær, Type 4230
• Sound Level Meter NTi XL2
• Tapping machine for impact sound measurements
• Omnidirectional dodecahedron Sound Source
• Sound & Vibration Analyser SVAN 958
Acoustic Software

ALPHA ACOUSTIKI offers a range of special Acoustic simulation software for monitoring and process of the results of the acoustic measurements for a more accurate prediction including:

- Environmental noise / Noise mapping
- Occupational noise & vibration measurements and dosimetry
- Mechanical systems noise
- Vibration Measurements (in building and HVAC)
- Room acoustics parameters estimation
Acoustic Software

ALPHA ACOUSTIKI offers a range of special Acoustic simulation software including:

- **CadnaA**
  The environmental acoustics software CadnaA (Computer Aided Noise Abatement) is the software for calculation, presentation and assessment of environmental noise prediction.

- **PTR2**
  Program for predicting the noise transmission inside air ducts. It can also calculate the regenerated noise and the noise reduction of silencers.

- **EASE**
  The Simulation Software EASE allows modelling of interior rooms and open-air spaces in 3D-representation as well as assigning acoustic properties to the wall and ceiling materials used.

- **RAP-ONE**
  Program for the calculation of Room Acoustics Prediction and Internal Room Noise Exposure from company SoftdB Canada. It is an innovative easy-to-use designed for use by acoustics consultants, engineers, and industrial hygienists to analyze and manage sound in an industrial setting.
Turn-key Solutions
At ALPHA ACOUSTIKI, we believe in complete customization and flexibility in order to meet each client’s technical and budgetary requirements. For that reason we separate acoustic consultancy from product supply.

In projects that a secure and qualified acoustic result is intended, clients rely on our expertise and they award us with complete project execution. In these cases we can construct complete turn-key projects like music studios, auditoriums, home cinemas or mechanical applications like noise barriers, noise enclosures, installation of acoustic doors and overall complete acoustic project contracting.
R&D Activities

Our acoustic engineering team continuously carries out applied academic research on acoustics, noise and vibration control, working closely with specialized research Institutes and Acoustic Laboratories. This contributes in designing innovative, advanced and effective acoustic, noise and vibration control solutions.

Additionally, we carry out acoustic measurements of noise insulation (Rw), sound absorption index (as) and structural borne noise Insulation (Lnw) in Acoustic laboratory, in order to determine the characteristics of new, eco-friendly acoustic materials. In order to constantly guarantee high quality, we offer solutions that are tested and certified by independent acoustic laboratories.
Australian Pavilion in Dubai Expo 2020 – 2019
Riyadh Metro Project, Saudi Arabia – 2019
Chennai Metro Rail Project, India – 2019
14 Greek Regional Airports, Fraport - 2017
Alexandros Hotel / Mavili beach – 2018
RECENT PROJECTS
RECENT PROJECTS

Antenna Group studios– 2019
The Orbit, Urban Office Campus – 2019
Amada Colossos Resort Rhodes – 2020
Nestle factory occupational noise measurement – 2015
Club Med Panorama Restaurant Gregolimano– 2017
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RECENT PROJECTS

Galatsi Olympic Hall, Acun Medya Studios, Greece – 2018
Scorpios Bar Restaurant, Mykonos – 2020
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In TUNE with YOUR needs