Noise Control

# NOISE CONTROL APPLICATIONS

**ALPHA** ACOUSTIKI

In TUNE with YOUR needs

## INDUSTRIAL SOUND INSULATION

Engineer team of ALPHA ACOUSTIKI Ltd. with experience in the field since 1978 can deal with any noise and vibration control problem coming from industrial installations.

The following presentation of typical industrial installation noise control applications demonstrates our variety of solutions and gives one an idea of dealing with noise generated by various sources.

Beware though, EVERY CASE IS DIFFERENT. Each noise source problem requires a special holistic approach to be resolved.

Besides our main goal of reaching optimal noise reduction, our acoustic treatment solutions take into account inspection and maintenance requirements of mechanical equipement, as well.

Here are some typical application examples of our noise insulation installations.

Sound proofing of a fuel oil filling machine

Sound insulation of power generators located in Nigeria

Noise metal Barrier in a natural gas installation

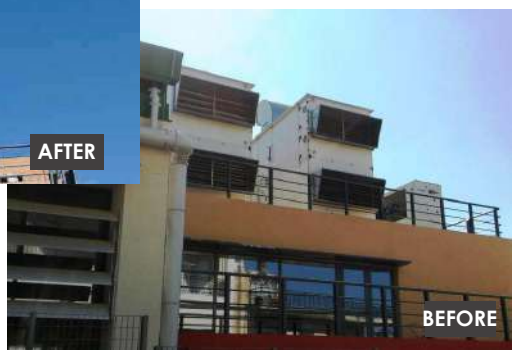
- ACOUSTIC STUDIES FOR NOISE CONTROL
- ACOUSTIC SIMULATIONS OF NOISE PROPAGATION
- ON SITE INSPECTIONS DURING NOISE CONTROL INSTALLATIONS BY ACOUSTIC ENGINEERS - CONSULTANTS
- SOUND MEASUREMENTS BEFORE AND AFTER ACOUSTIC TREATMENT

Sound proofing of a big printing unit

Noise insulation of heat pumps installation

Noise metal barrier for air conditioning chillers

Sound proofing of air conditioning chillers in a large data center




Sound barriers for air handling units (AHU)

Sound proofing of air conditioning chillers
located on a roof in
Environmental Ministry of Greece

Sound insulation treatment of a natural gas station

Soundproof enclosure of a noisy machinery

Soundproofing of the air conditioning chillers in an urban Hospital in Athens

Industry centrifugal fan noise insulation

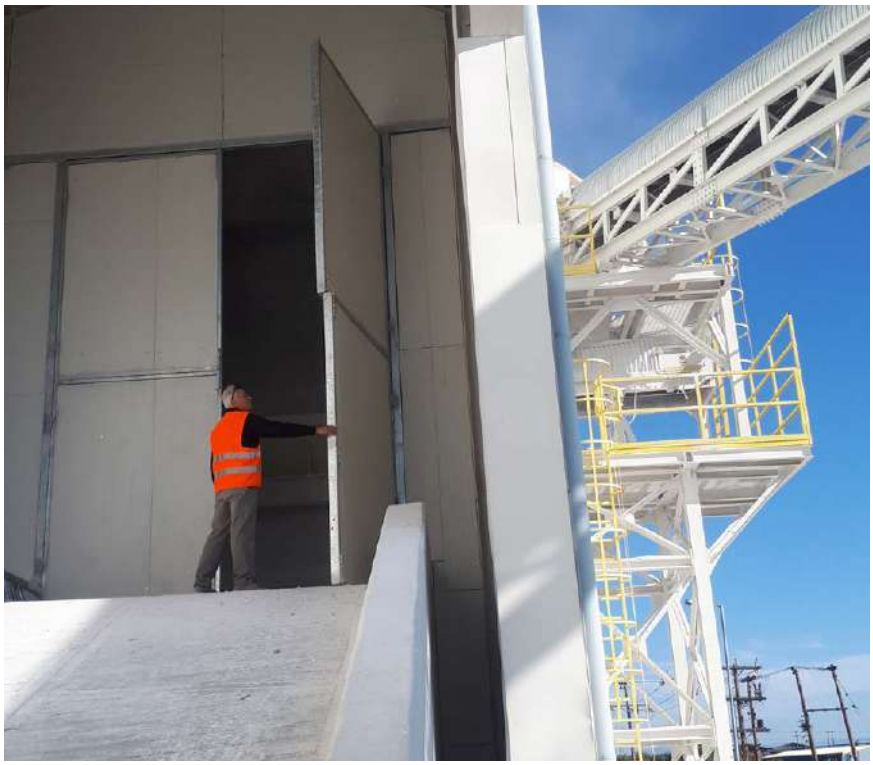
Acoustic enclosures of aliminium ovens

Soundproof enclosure of
a steel plate machine

Soundproof industrial sliding door

Noise insulation of an industrial vacuum pump

Noise canopy of a portable diesel pump



Soundproof industrial multi-leaf door for mineral processing facilities

Sound control of a cooling complex in a food industry

Soundproofing enclosure of a hotel congeneration unit

Transparent sound insulated enclosure of a cardboard box folding machine

Metal Noise Barrier installation at Goulandris Museum in Athens

Roof noise barrier for
electromechanical installations

Soundproofing treatment in a rafinery plant

The key element for all theese sound proofing designs is ALPHAfon MB - SOUNDPROOFING/ABSORBING metal barrier. Its core design is consisted of a high density mineral wool material, with an internal cover of perforated and pre-painted metal sheet. Its an industrial product with an airbone sound insulation index $R_w$ = 35 dB (ISO 140.3 & ISO 717.1) and sound absorption coefficient $a_w$=1 (ISO 11654).
Reaction to Fire Class: A2, s1,d0 (BS EN 13501)

For more information, please visit: alphacoustic.com

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**ALPHA ACOUSTIKI S.A., located in Athens, is one of the leading firms in acoustics, noise and vibration control in Greece. Our acoustic engineering consultants have been resolving many complex noise control problems since 1978.**

**We also carry out advanced acoustic studies, that include architectural acoustics (prediction-simulation-auralization), but also prediction of noise propagation in open space (highway, railway, airports and industrial plant noises).**

**Our main sound proofing products:**

- **ALPHAfon-MB: Metal Noise Barriers**
- **ALPHAfon-AD: Acoustic Doors**
- **ALPHAfon-TB: Transparent Noise Barriers**
- **ALPHAfon-IC: Sound Insulation Covers**
- **ALPHAfon-AL: Acoustic Louvers**
- **ALPHAfon-SA: Sound Attenuators**

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Design and Production according to Quality Management System ISO 9001.2008 & Environmental Management System ISO 14001.2004