

Noise control technology

INERCO



Acústica

www.inercoacustica.com

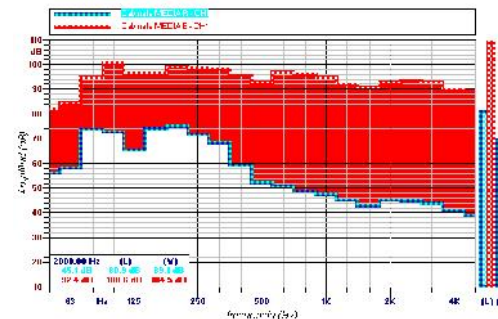
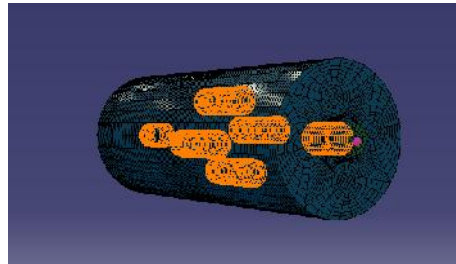
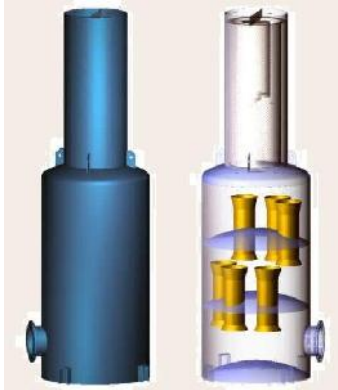


INERCO Acústica is the **INERCO GROUP** company specialized in **engineering, developing technology, manufacturing and implementation** of solutions for **noise and vibration control**.

INERCO Acústica has a team of professionals with about 25 years of experience.

Acoustical solutions

- Engineering and design
- Technology
- Manufacturing
- Acoustic Laboratory



Profound knowledge of the industrial reality



INERCO Acústica has extensive experience and wide technical capabilities in the measurement and control of noise from industrial sources.

Profound knowledge of the industrial reality

Hydrocarbons



Chemical and Petrochemical



Profound knowledge of the industrial reality

Electricity and Gas



Concrete, Iron and Steel



Profound knowledge of the industrial reality

Mining



GLENCORE



BOLIDEN



Agri-food



Azucarera Ebro



Profound knowledge of the industrial reality

Aerospace, Automotive, Others



Conocimiento profundo de la realidad industrial

Engineering - Infrastructures



Integral management of Industrial noise

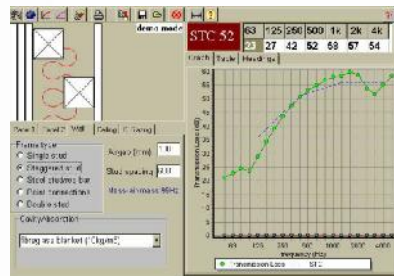
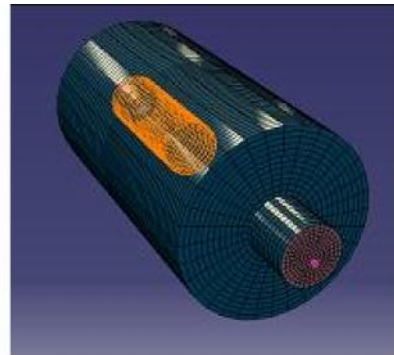
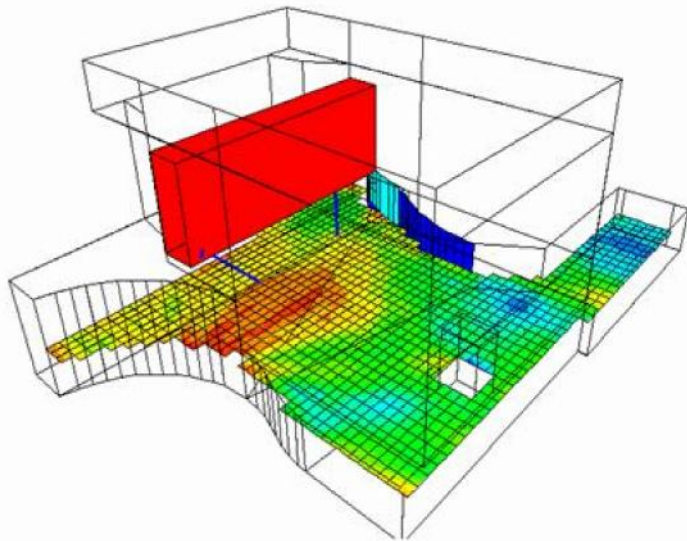
- **DIAGNOSE**: the situation
- **ADVISE**: in solving vibration and acoustic problems
- **DESIGN**: solutions
- **EXECUTE**: projects
- **CERTIFY**: quantitative limits
- **MANUFACTURE**: products, equipment y systems
- **DISTRIBUTE**: specific materials
- **IMPLEMENT**: solutions
- **MANAGE**: ambient noise (MER , PA)

Skills and capacitations

- ☐ Own factory
- ☐ Impulse to R & D :
 - Own software and development
 - Laboratory and test chambers
- ☐ Wide range of products and technologies:
 - Noise barriers and enclosures: equipment, machinery, processes
 - Acoustic cabins, doors, and viewers, silencers...
 - Silencers: vent, blowdown, valves, compressors, turbines, exhaust, etc.
 - Soundproofing, absorbent systems...
- ☐ Certificate ISO 9001 –ISO 17025 Accredited by ENAC



Firm commitment to R & D



Own developed software



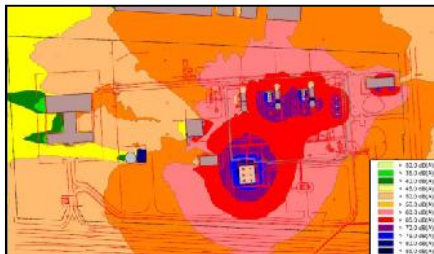
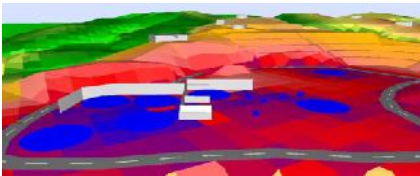
Test chambers

Own manufacture



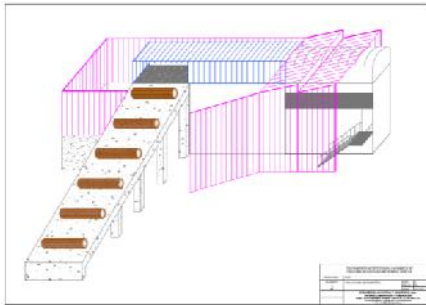
Aerópolis manufacturing plant

Services

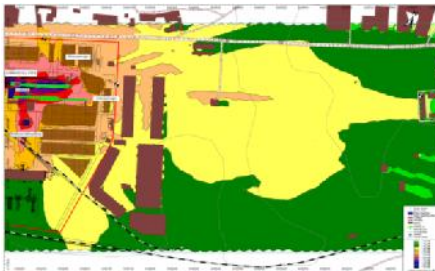


- **Acoustic studies**, environmental and acoustic justifications (EIA's, AAI's, administrative licenses)
- **Acoustic simulations.** Environmental noise prevention (design phase)
- **Acoustic measurements and maps.** Verifications at lunched phase
- Design and creation of **strategic noise maps and action plans**, according with END (Environmental Noise Directive 49/CE72002)

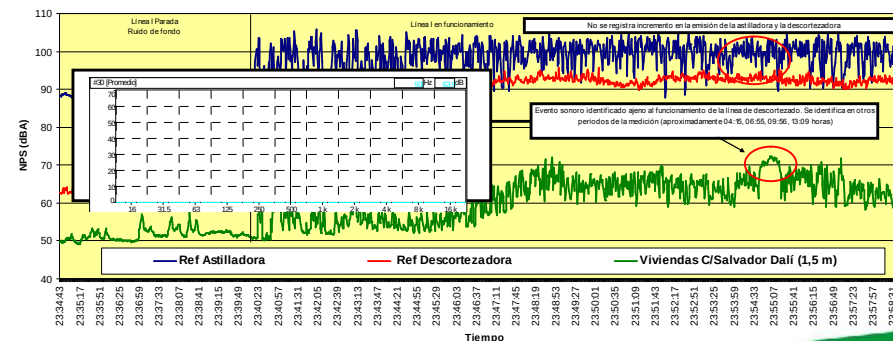
Services



- **Design of corrective strategies** (industrial and infrastructure). Design, implementation and installation



- **Inspection as administration collaborating organization**, declaration of conformity with administrative authorization

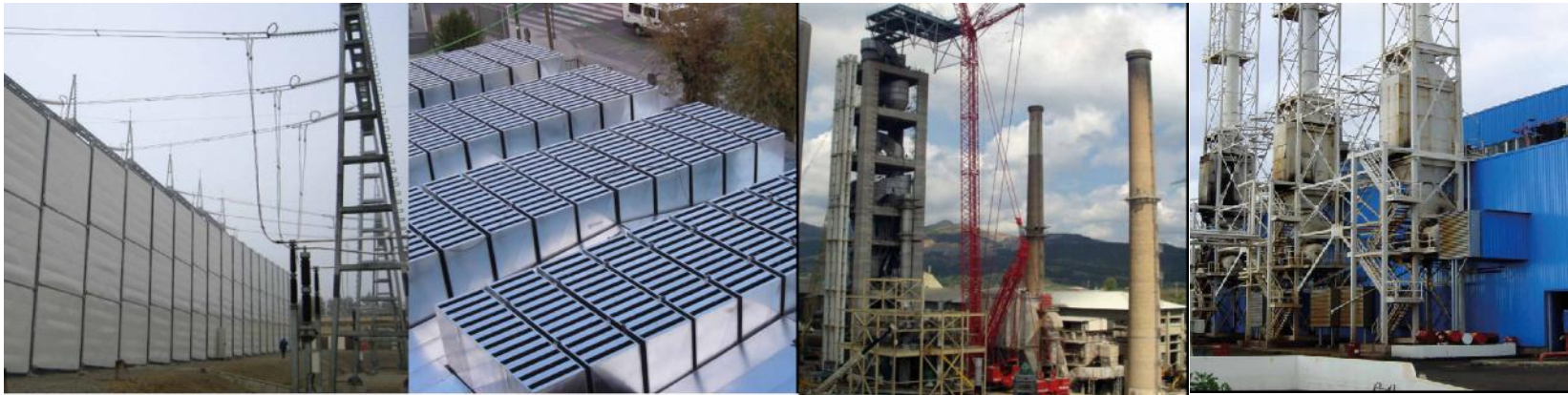


Occupational Health and Safety



- **Noise maps** inside industrial plants
- Noise and vibration exposure levels of workers (R.D. 286/06 and R.D. 1311/05). **Risk assessment** (INERCO Prevención de Riesgos)
- Evaluation of **noise emission in machinery and equipment** (R.D. 1644/08, R.D. 1215/97, R.D. 1644/08 and R.D. 286/06).
- Identification, quantification y qualification of noise sources. Studies of **corrective actions. Design, implementation and installation**
- Selection of **Personal Protective Equipment**
- Verification **PA systems and audio alarms**

Design / Implementation of Acoustic Solutions



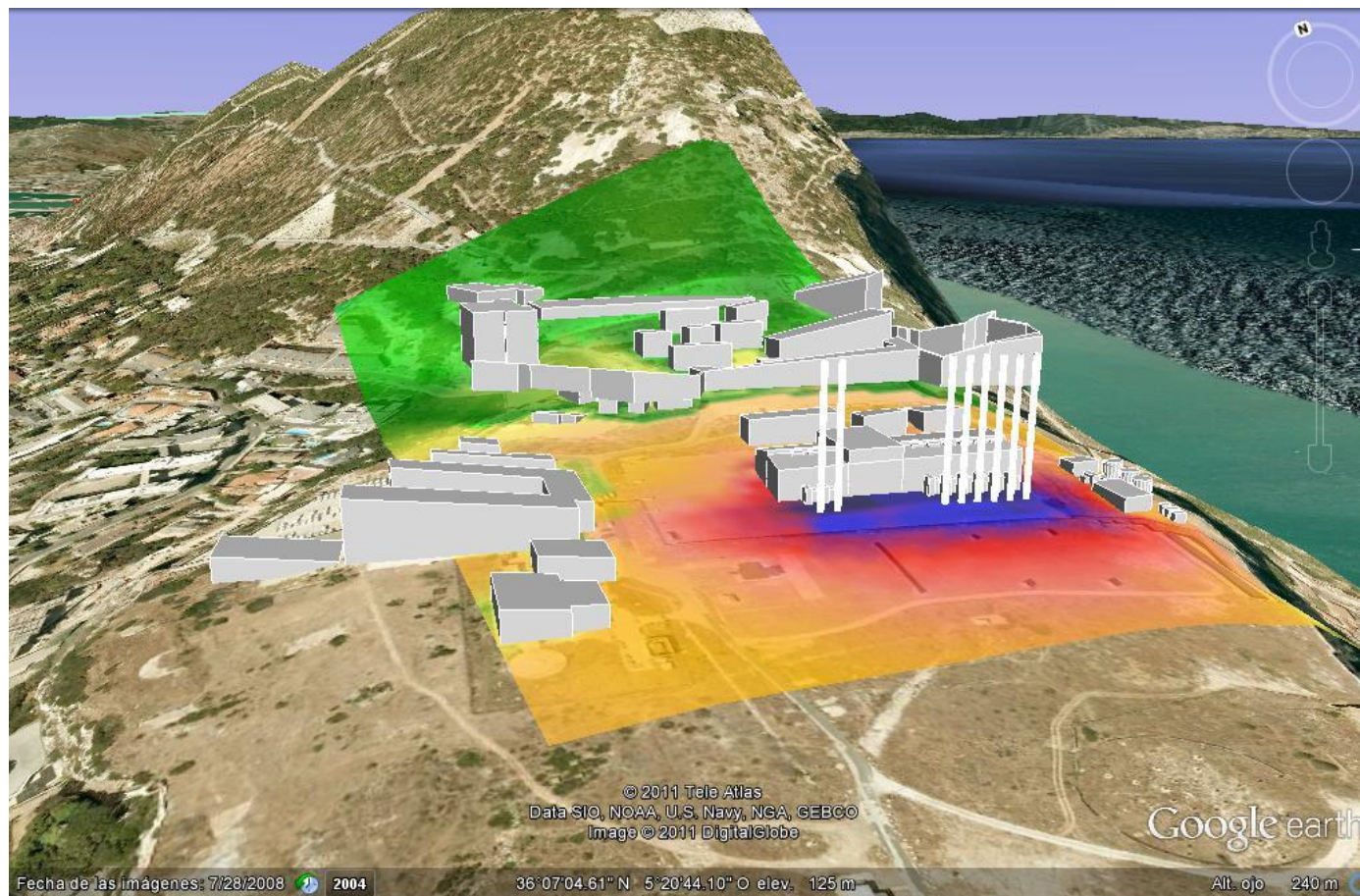
The approach that **INERCO Acústica** confronts acoustic problems allow us to offer **EPC solutions**, covering the following:

- **Design and implementation of solutions projects**
- **Manufacturing projected solutions**
- **Installing acoustic solutions**
- **Acoustic certification**

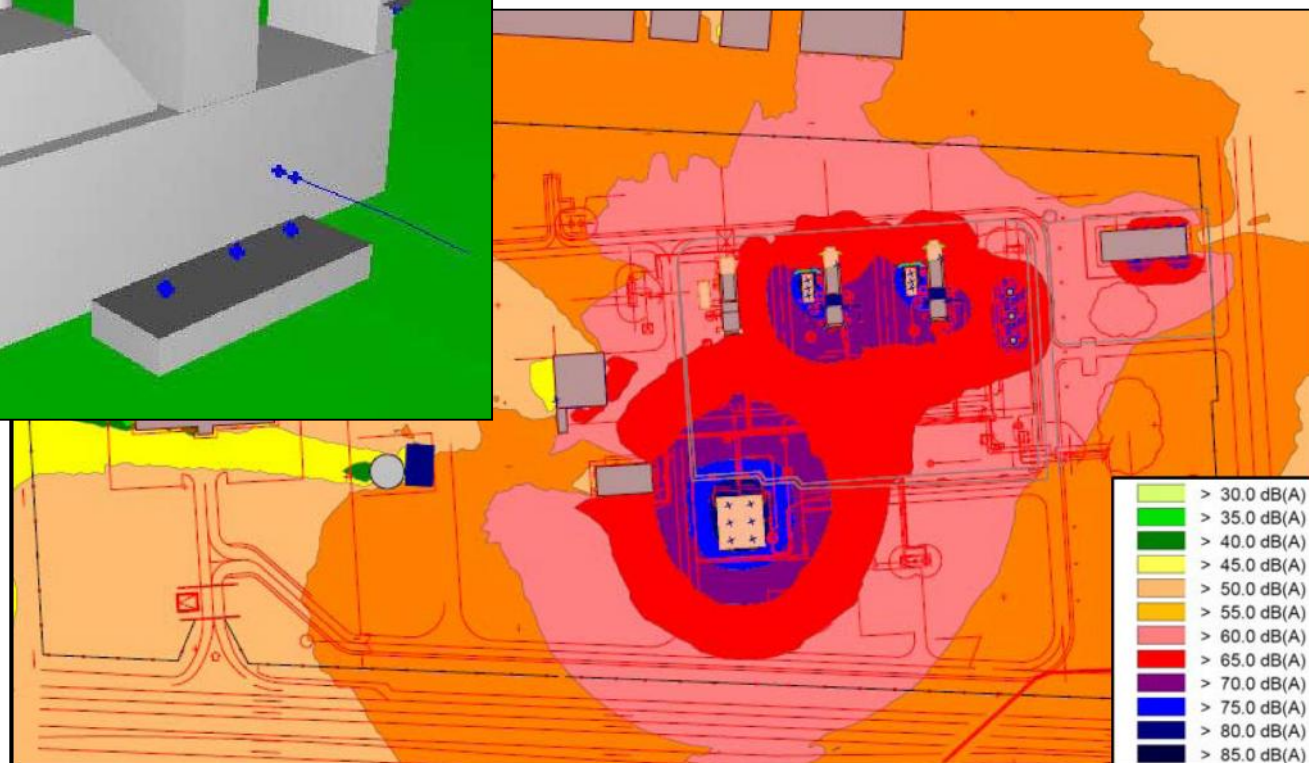
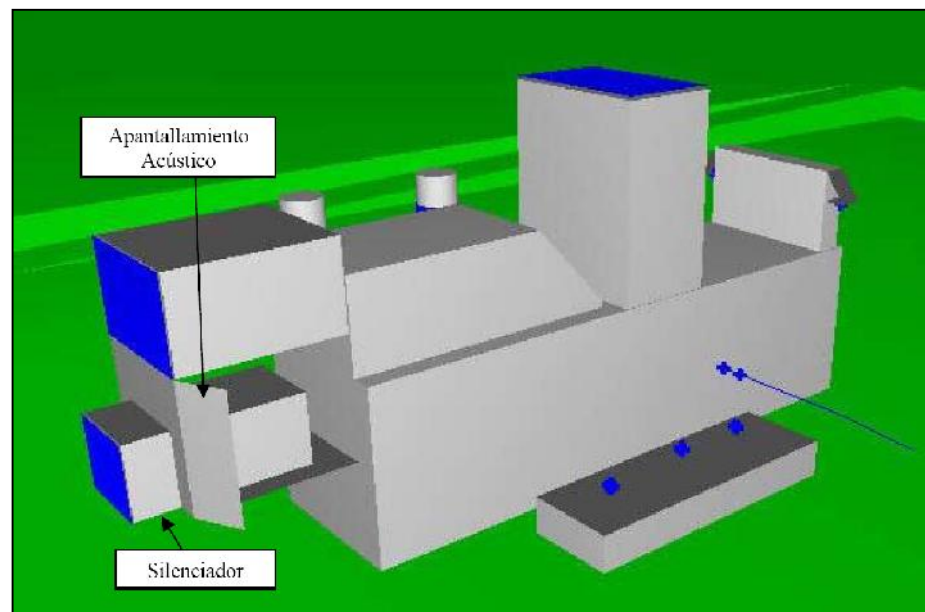
Noise sources characterization



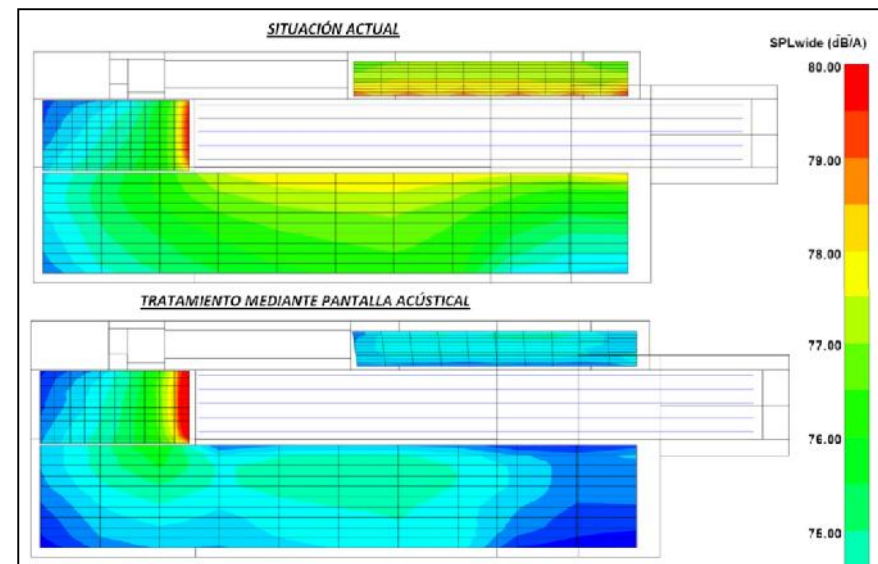
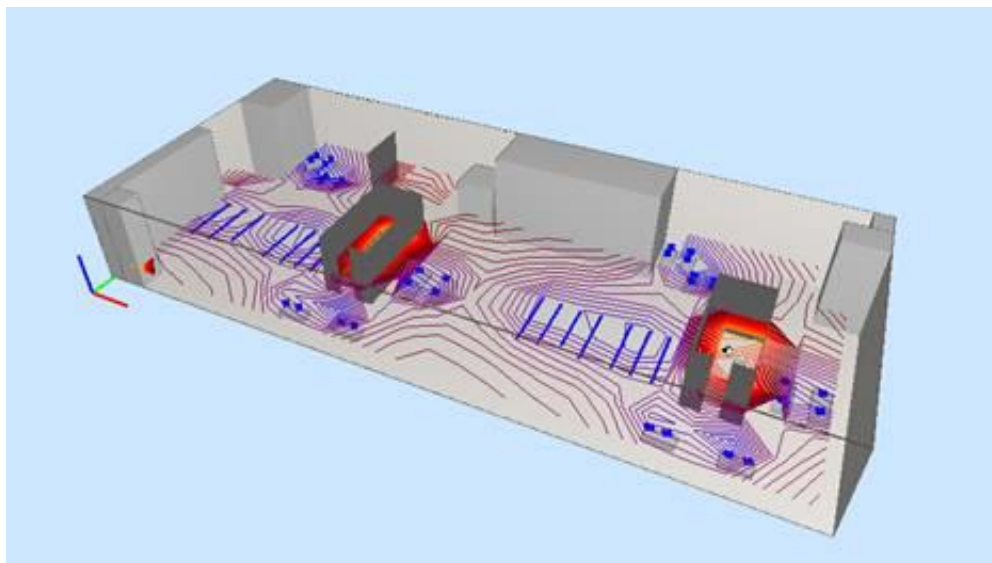
Acoustic modelling of noise sources



Corrective actions analysisi



Noise maps inside industrial plants



Implementation of acoustic solutions

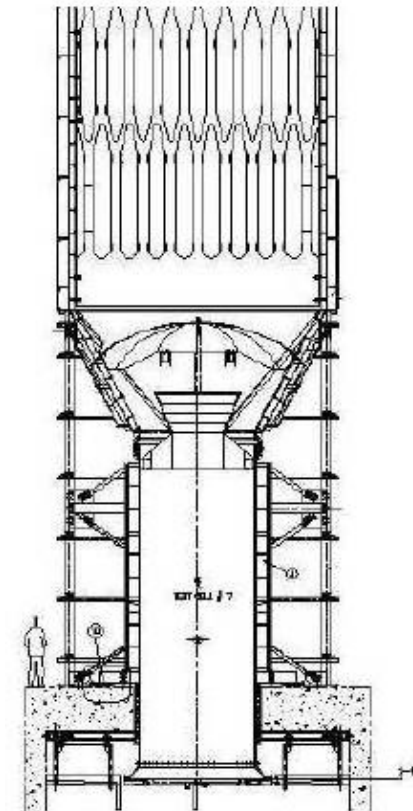
- *for discharge of safety and control valves, vents and drains.*
- *for diesel boilers, natural gas boilers,...*
- *for the engines and turbines exhaust,*
- *for the air inlets and outlets of noisy rooms*
- *for air conditioning and ventilation equipment*
- *for control, instrumentation and break rooms inside industrial plants: pumps, engines, turbines, compressors, testing rooms...*
- *soundproof cabins for engines test benches, inspections and maintenance operations of vehicles (trains, cars, trucks, motorcycles...)*
- *sectorizing areas using noise barriers*
- *for electrical substations, water treatment plants, mines, ships...*
- *for bottling, packaging, labeling machines...*
- *antivibration systems, hoppers...*

Implementation of acoustic solutions





Noise from chimneys





Noise from chimneys



Silencers





Noise from valves (drains, security, control..)





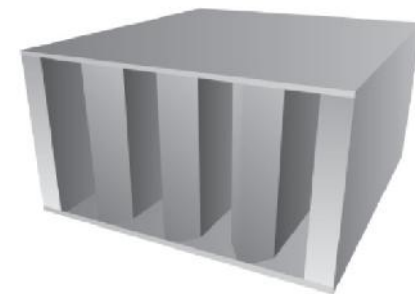
Noise from engine exhausts (diesel, gas...)



Noise from rooms (engines, turbines, pumps, compressors,...)



Silencers



Ventilation + Filtration + Noise control



Ventilation + Filtration + Noise control



Ventilation + Filtration + Noise control



Noise from rooms: acoustic louvers



Noise from rooms: acoustic louvers



Reducing noise in HVAC systems



Noise reduction in water treatment plants



Control cabins



Test cabins



Equipments and machinery enclosures



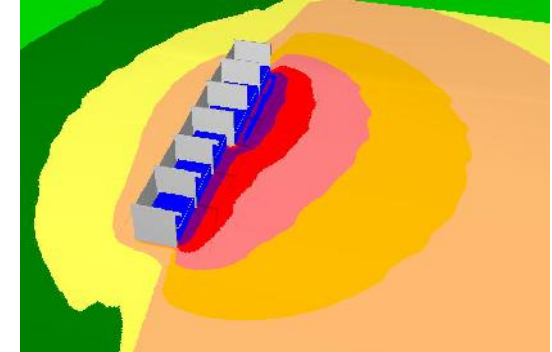
Acoustic cabins



Noise barriers



Noise barriers Substations

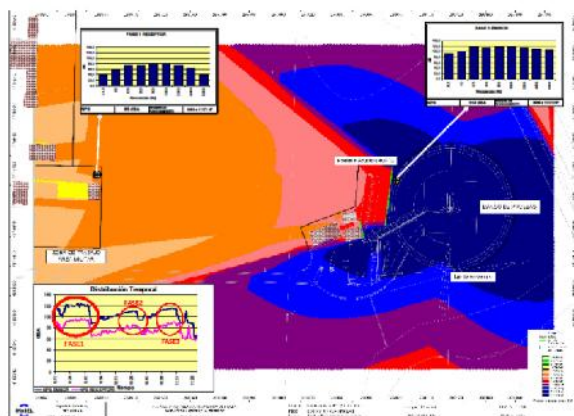
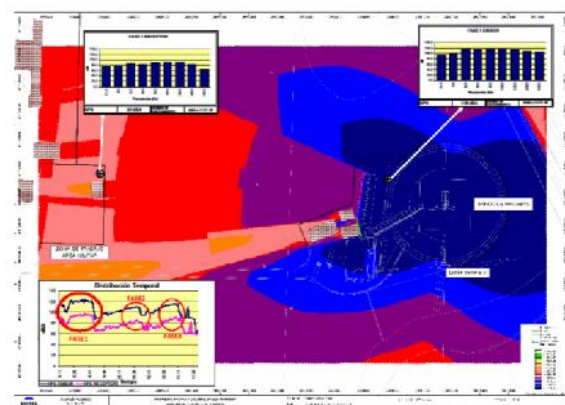


Noise barriers

Test bench for aircraft engines



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Acoustic doors



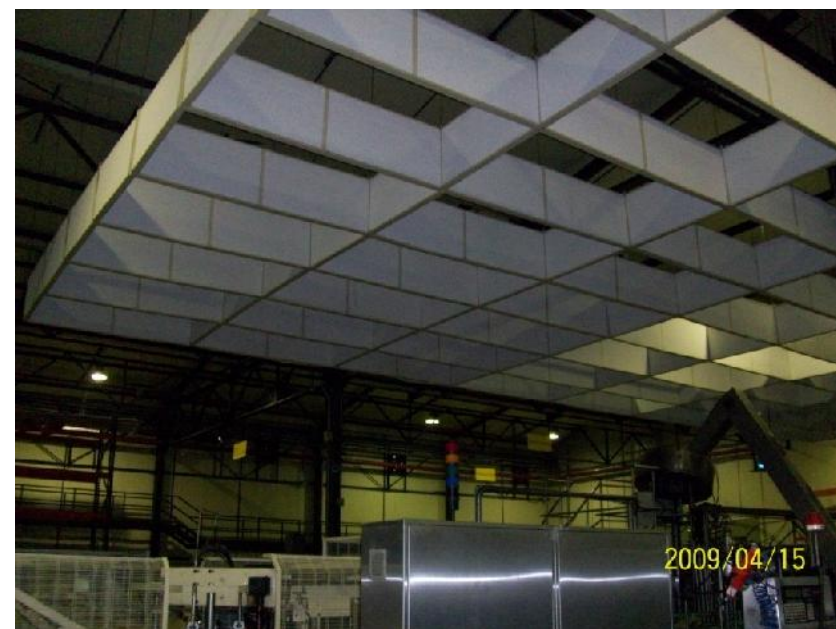
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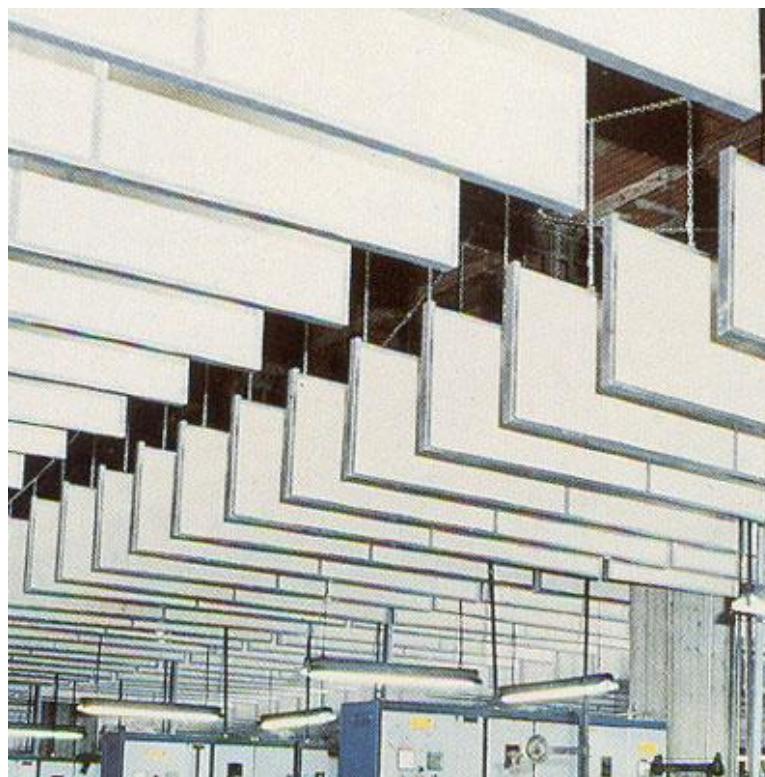
Acoustic chimneys



**Actions on the process environment (building):
Acoustic absorbers**



Actions on the process environment (building): Acoustic absorbers



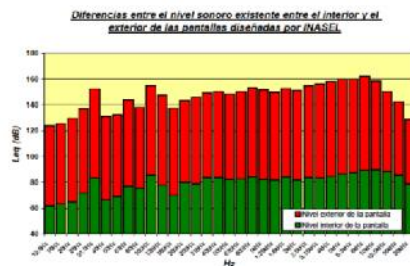
**Actions on the process environment (building):
Acoustic absorbers**



**Actions on the process environment (building):
Acoustic absorbers**



Mobile noise barriers: flexible segmentation



Bottling processes



Antivibration systems



Antivibration systems



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