

Keraglass Noise abatement at source

Keraglass is committed to reducing occupational and environmental noise at its Bagneaux-sur-Loing plant. The programme created has led to tangible results.



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Cetim's asset



Cetim has the necessary range of expertise to create a plan of action

to foster compliance with occupational and environmental noise regulations. It possesses measurement and analysis equipment to model noise and to identify its sources in order to efficiently reduce noise.

OUR CLIENT

Corporate name
Keraglass

Activity
Keraglass is a subsidiary of the Eurokera group created in 1992 by Corning and Saint-Gobain. Eurokera supplies the designers of electrical appliances with glass ceramic cooking surfaces. The Keraglass plant in Bagneaux-sur-Loing produces flat ceramics for the four Eurokera transformation plants based in France, the United States, China and Thailand. Each of the two Keraglass furnaces produces several dozen tons of glass per day

Workforce
250 people

Keraglass manufactures flat glass ceramic for cooking plates and fireplace inserts in its Bagneaux-sur-Loing plant. In 2012, the industrial manufacturer commissioned Cetim to perform an audit in order to comply with occupational and environmental noise regulations. Noise measurements and a thorough study of the texts specific to the glass manufacturing sector and to the site served to clarify the regulatory context and identify the target goals.

Acoustic antennas

A campaign was therefore initiated to measure the occupational noise. Operators were fitted with dosimeters and the occupational and

environmental noise was monitored. An innovative noise monitoring technique was implemented outside using acoustic antennas. Therefore, the measurements served to model the noise inside and outside of the building. These models helped to devise noise abatement scenarios which led to several tangible actions such as soundproofing of four control cabinets and enhancement of the silencers on the building's air vents. The installation of variators controlling the fans also made it possible to lower noise by 5 dB while reducing the energy bill.

A partnership

This cooperation with Cetim is scheduled to take place over

several years and is a genuine partnership.

"Their experts are willing to transmit their know-how and explain this highly-specific area", stated Jean-Luc Hoffmann, Technical Manager at the plant. Cetim is now helping Keraglass to incorporate the noise reduction into its call for tenders to purchase machines and the development of new processes. Its experts are providing assistance in the design of the furnace and buildings for the new production line which will be launched in 2017.