



tile of spain

New products /technology:

Bionictile by Ceracasa

BionicTile by Ceracasa earned the 2009 Alfa De Oro Award for Most Innovative Product and is one of the leading eco-efficient proposals on the international scene. It began with Ceracasa asking the question, "Can a building function like a tree?"

This ceramic product provides a function to ceramics - improve the environment by continuously decontaminating the air, filtering harmful nitrogen oxide (NOx), the air contaminant responsible for acid rain and a leading cause of climate change and pulmonary diseases. NOx is present in all emissions from cars and industry. Nitrates left inert on the tile surface are washed away by rain, fog and humidity leaving the surface ready to destroy more nitrous oxide molecules.

Ceracasa developed the product in collaboration with FMC FORET and the Polytechnic Institute of Chemistry of the Polytechnic University of Valencia, Spain. Tests conducted by the Polytechnic University implement ISO ITQ applying ISO 22197-12007 E, have offered that BIONICTILE samples ceramics are able to decompose NOx at 25.09 micrograms per m² per hour. An estimation of 200 buildings covered with Bionictile would decontaminate an equivalent volume of 2,638 million m³ of air per year. Or in other words, more than 400,000 people could breathe air free of harmful NOx for one year. These 200 buildings are equivalent to a forest of 11.3 million trees, the same as 435 times the number of trees in Central Park, New York.

Ceracasa presents BIONICTILE in four colors and two formats, 49.1x98.2 (19" x 38" and 30x63.2 (11.8" x 24"), for use in ventilated facades. To watch a short introductory video on this product, please go to <http://www.youtube.com/watch?v=00Yt98rtuFo>

Lifewall by Ceracasa

Ceracasa most recently introduced a complimentary system to Bionictile called Lifewall, a vegetated façade that uses the simple process of photosynthesis to turn carbon dioxide into oxygen. Developed by architect Emilio Llobat of MAQLA ARCHITECTS, AZAHAR ENERGY and CERACASA, Lifewall is a system of panels that are 1 sqm and can hold any vegetation. The plants are watered by drip, optimizing water use while the panels can be used as part of the design of the facade.

These facades are designed to work in perfect symbiosis with Bionictile, which filters harmful pollutants from the air. By combining this smog-eating tile and the vegetated wall by Azahar Energy, this system offers a decontamination solution for urban environments. Carbon dioxide is turned into oxygen through the plants supported by Lifewall. These plants are in turn nourished by the benign nitrates left behind after BIONICTILE converts harmful nitrogen oxide from the atmosphere.

Website

Please visit www.ceracasa.com