Scientific Studies and Validation: Ethylene Gas and Acetic Acid Absorption

The following test was performed by Vizon SciTec, a division of Golder Associates of Burnaby, British Columbia.

Project Scope

The test was conducted to measure the ability of AVIVE Performance Panels™ to absorb ethylene gas and airborne acetic acid. Additionally, the test was conducted to measure the amount of airborne dust generated by the installation and use of AVIVE Performance Panels™.

Methodology

The test was performed using a Miran 1B infrared spectrophotometer located in Foxboro, Massachusetts. This device is used to monitor and measure the airborne chemical concentrations of a variety of chemical compounds. It was used in conjunction with a sealed "glove box" testing apparatus that enabled precise scientific testing and measurement to take place in a controlled setting. A data logging TSI Dust Track monitor was used to measure airborne (respirable) dust.

Data Recorded

Ethylene gas, both before and after installation of AVIVE Performance Panels™; acetic acid, both before and after installation of AVIVE Performance Panels™; respirable dust, before installation of AVIVE Performance Panels™, during installation, and after installation.

Summary Results

The tests proved that AVIVE Performance Panels™ do in fact absorb ethylene gas and acetic acid (the latter at a highly-effective rate). Also, the tests proved that AVIVE Performance Panels™ do not emit dust at a level that is considered to be a health risk.