

WALLSPRAY Helps Set Standard for Energy Savings at Ohio Bell

Project:

Ohio Bell, Headquarters Building
Cleveland, Ohio

Construction Manager:

Turner Construction
Cleveland, Ohio

Project Architects/Engineers:

Dalton, Dalton & Newport
Cleveland, Ohio

Project Architect:

Kallmann McKinnell & Wood Architects
Boston, Massachusetts

Insulation Contractor:

Insulation Coatings & Consultants
Sherman, NY



In planning their new headquarters building, officials at Ohio Bell let their thoughts range well beyond the day when the facility would open its doors to employees.

Aside from serving as the company's home office, the 16-story, \$50 million building will also provide an energy efficient model for all facilities built by Ohio Bell in the future.

With this in mind, the client's energy specifications were strict. Project architects Dalton, Dalton & Newport were instructed to allow for a maximum energy use limit of 60,000 Btu per square foot per year, and an R-14 thermal efficiency value.

To meet these specs, they employed an extraordinary menu of energy saving measures. These steps included the use of a highly efficient spray insulation for the building's "monolithic thermal barrier," reflective angled glass windows and a computerized energy management system.

An Easy Choice for Insulation

Selecting a spray insulation to coat the inside of Ohio Bell's exterior granite walls was easy. The project's insulation contractor recommended a WALLSPRAY product.

With energy efficiency a key, the contractor was attracted by

WALLSPRAY's high thermal rating. It has an average R value of 4.7 per inch, higher than most fiber glass/batts and board insulations and higher than many sprays. It also provides some other outstanding advantages.

They knew from experience that, unlike other spray insulations, WALLSPRAY is odorless and virtually dust free. This enabled other trades to continue work nearby during spraying, which was a must due to the tight construction schedule.

They also knew that the spray goes on more easily around structural supports and beams than rigid batt type insulation. And, because WALLSPRAY is fire resistant, the contractor saved time and money by eliminating the extra step of fireproofing, which is necessary with some spray-applied insulations.

WALLSPRAY is an insulation designed for pneumatic wet-spray application. It goes on easily, sets up fast and performs like standard foam insulation once it cures. It's simply formed in place fibers.

WALLSPRAY requires less adhesive. WALLSPRAY can go on thick enough in one application to meet most specifications. In fact, it can be applied up to 8 inches thick on sidewalls and three and a half inches thick on ceilings in a single pass.

WALLSPRAY has all the thermal advantages of foams and Mineral wool batts and boards, without the material waste, clipping and taping of seams and extensive clean-up of other spray insulations.

Easy Does It at Ohio Bell

To achieve the required R-14 thermal rating, ICC applied WALLSPRAY to a thickness of three inches. Overall, they applied WALLSPRAY to the inside of 108,000 square feet of the Ohio Bell building's exterior granite walls. When the job was over, ICC assessed WALLSPRAY's performance.

"WALLSPRAY helped us keep labor costs way down, at both the installation and clean-up stages," he said. "And we managed to beat our completion schedule by more than two weeks.

"Even though the windows and frames were in place when we sprayed, our workers were able to

clean up with damp cloths," recalled the contractor. "Removing the sticky 'fly' of other sprays would have been a nightmare, and we would have had to mask everything prior to spraying. "We've worked with all three major types of spray insulation: .5lb and 2lb foams and fiber glass," he continued. "It's simply a matter of WALLSPRAY going on faster and easier and doing the kind of insulating job you'd expect of cellulose insulation."

Results and Predictions

To the delight of Ohio Bell, performance has far exceeded expectations, as actual energy usage for their new headquarters has been closer to 45,000 Btu per square foot per year. That's about one-third less than the company's maximum energy use limit, and half that of similar sized buildings of a decade ago.

As Ohio Bell plans its facilities of the future, energy efficiency is sure to remain a key factor. And based on the results in Cleveland, it's a good bet that they'll call on ICC for repeat performances.



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