



Earthwool™ 1000° Pipe Insulation

General Wayne A. Downing Peoria International Airport

Even in the best of economic conditions, mechanical systems thermal insulation contracting can present a series of difficult challenges. That observation is neither a secret nor a surprise for anyone engaged in any building construction related activity.

CHALLENGES

It has been said that contracting is a continuous series of battles. It can also be said that three of the most common and challenging battles faced by contractors are:

- 1) The initial struggle to secure the target contract.
- 2) Getting the job done in the most cost effective manner.
- 3) Meeting or exceeding the completed project performance expectations of the building owner and system designers.

In order to consistently win these battles, insulation contractors must be aligned with a manufacturer whose products provide optimal thermal performance, measurable

installed cost savings, and piping system longevity.

Knauf Insulation Earthwool™ 1000° Pipe Insulation with ECOSE® Technology is designed to meet these difficult challenges.

SOLUTIONS

When introduced to Knauf Insulation Earthwool 1000° Pipe Insulation with ECOSE Technology and ASJ+ facing, Ed Morrow, President of Sprinkmann Insulation quickly recognized the clear potential the product offers with regard to piping system thermal performance, installed cost savings, and mechanical systems piping longevity. At that time, Morrow was also aware of an active construction project that would serve as an ideal first experience for Sprinkmann Insulation with Earthwool 1000° Pipe Insulation; the General Wayne Downing Peoria International Airport located in Peoria, Illinois. Morrow describes both the battles faced with this job and the solutions provided by using Earthwool 1000° Pipe Insulation.

“I wanted to prove that the Earthwool ASJ+ facing was going to work. As suspected, that stuff flew on. And to this day, I go out and check on it every once in awhile. The product looks as good as the day we put it on, and it went through some nasty spring and summer storms.”

– Ed Morrow, President
Sprinkmann Insulation

Morrow cites a logistical situation with this project that is not rare for mechanical systems insulation contractors. In one large area of the airport, the installation of interior overhead HVAC main piping had been completed prior to the scheduled installation of metal storage racks, interior walls, and conveyor systems. The piping was in place and pressure tested with clear access available for the insulation crews. It would be the ideal time for Sprinkmann's workers to install pipe insulation with minimal time consuming physical interferences. Unfortunately, the roof decking was not yet sealed and would allow rain to easily drip onto any newly installed insulation. Morrow stated, "The room was going to sit that way with nothing installed except the steel piping, with no interferences underneath, but we couldn't insulate it yet. Normally, with standard ASJ we can't insulate until the roof deck is water sealed. I took a chance. I wanted to prove that the Earthwool ASJ+ facing was going to work. As suspected, that stuff flew on. And to this day, I go out and check on it every once in awhile. The product looks as good as the day we put it on, and it went through some nasty spring and summer storms." By purchasing and installing Earthwool 1000° Pipe Insulation, Sprinkmann Insulation gained valuable installation scheduling flexibility which provided an opportunity to eliminate the cost of working around and through time consuming fixed obstacles.

BENEFITS

Morrow also cited instances where the stain resistance and easy to clean features of ASJ+ jacket repeatedly proved its value. He said, "At the airport, rust laden rain water came off some steel beams and dripped onto the ASJ+. We just wiped it off with a damp cloth, and like I said before, it looks as good today as the day we put it on." It is a well-known fact that pipe insulation jacketing is highly susceptible to dust, dirt, and liquid spills during building construction. Knauf Insulation ASJ+ facing is highly resistant to liquid absorption, and by default provides an effective stain shield

which minimizes the likelihood of unsightly installations due to discoloration from liquid spills. Another battle won.

In response to rapidly growing worldwide environmental concerns, ECOSE technology is at the core of Earthwool 1000° Pipe Insulation. ECOSE is a revolutionary, highly sustainable, bio-based binder technology that is formaldehyde free. With the trend toward more environmental responsibility in building design, construction, and operation, our bio-based ECOSE technology provides a true reduction in the dependency on petroleum based products. And, in response to ever-growing environmental concerns, 45% of the glass fiber within Knauf Insulation Earthwool 1000° Pipe Insulation used on this job was produced from post-consumer recycled glass. Today, the recycled content is up to 55%. In addition, Earthwool 1000° Pipe Insulation with ASJ+ is verified to be formaldehyde free by the GREENGUARD Environmental Institute.

SUMMARY

In summary: consider worker safety, excellent thermal performance, scheduling flexibility, total piping system longevity, plus a cleanable and neat finished appearance for piping systems; all from a highly sustainable and environmentally responsible product. These are examples of our active commitment to help contractors win battles. Knauf Insulation, with a long history of manufacturing thermal insulation products, has earned a solid reputation among contractors for providing quality insulation products and dependable service. We are dedicated to expanding our positive reputation by continuing to deliver measurable value to contractors with leading edge products and services. Knauf Insulation Earthwool 1000° Pipe Insulation with ASJ+ is one example of our dedication. Earthwool 1000° Pipe Insulation with ASJ+ makes several major beneficial product attributes available to contractors. These attributes make a significant positive impact upon the design phase, construction phase, and over the life of the building.

Knauf Insulation GmbH
One Knauf Drive
Shelbyville, IN 46176

Sales and Marketing (800) 825-4434, ext. 8300

Technical Support (317) 421-8512

Fax (317) 398-3675

Information info.us@knaufinsulation.com

World Wide Web www.knaufinsulation.us

©2011 Knauf Insulation GmbH.



LEED Eligible Product

Use of this product may help building projects meet green building standards as set by the Leadership in Energy and Environmental Design (LEED) Green Building Rating System.

MR Credit 4.1 – 4.2

Recycled Content

MR Credit 5.1 – 5.2

Regional Materials



Knauf Insulation Earthwool™ 1000° Pipe Insulation with ECOSE® Technology products are certified for indoor air quality by The GREENGUARD Environmental Institute™, to both the GREENGUARD Certification Program™ and the more stringent GREENGUARD Children and Schools™ standard and is verified to be formaldehyde free. www.greenguard.org

The GREENGUARD INDOOR AIR QUALITY CERTIFIED Mark is a registered certification mark used under license through the GREENGUARD Environmental Institute.