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Project Name and Address:
 Becton Dickinson, Inc.
 7 Loveton Circle
 Sparks, MD 21152

Description:
 Spandrel Glass/Curtain Walls

Contact Information:
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Spandrel glass curtain wall insulation has always been a significant challenge for designers. Attempting to attach fiberglass batting to uneven surfaces is often impossible to achieve with any kind of confidence. Over time, fiberglass will sag, separate, and deteriorate when placed in open unsupported cavities. Fiberglass has also been proven to lose R-value as ambient temperatures drop. Mechanically attached insulation in areas such as curtain walls are documented to have as much as a 70% loss of heat through gaps and seams in the insulation. This system of insulating is simply ineffective and obsolete.

Becton Dickinson (BD), a producer of specialty medical devices, recently learned the hard way when they were alarmed to see hundreds of gallons of water cascading down stairwells from broken water and sprinkler pipes above drop ceilings. The culprit was poor insulation attachment to the spandrel curtain walls and below normal temperatures.

BD contacted Retrotherm to address their insulation needs and insure that this would never happen again. Retrotherm installed 4 inches of K-13 spray applied insulation to the soffitt walls in one day, providing a high R-value and most of all a permanent air tight, seamless insulation blanket.

K-13 is a high quality Class 1 fire rated cellulose insulation. K-13 is blended with a durable permanent vinyl adhesive that will bond to virtually any surface. The K-13 spray applied system will not rot, mold, mildew, or slump over time. As you can see by the pictures, Retrotherm provided a total seal to this cavity wall. The overall cost of this system is very similar to fiberglass.

In a series of tests, five identical buildings were monitored for KWH usage over an eleven month period. One building was insulated with K-13 Celbar wall spray, and the other four with fiberglass batt insulation. Upon the conclusion of the tests, it was determined that the K-13 insulated building saved 32% of the KWH usage of the other four buildings. How would you want your curtain walls to be insulated?

If you would like more information about how this product can help you in designing your next project, or any of the other acoustic or thermal treatments in our newsletters, please contact us at (800) 905-3730 or visit us on the web at www.Retrotherm.com. Retrotherm has successfully completed over 10 million square feet of K-13 systems and is considered one of the leading K-13 contracting firms in the Northeast.

Call us, we can help.