



**INDUSTRIAL**



**COMMERCIAL**



**MAINTENANCE**



**Local 81**  
5000 J Street SW, Room 201  
Cedar Rapids, Iowa 52404

**www.Local81.com • phone (319) 362-8233 • fax (319) 362-1586**



*Serving  
Our Communities  
SINCE 1927*







# Insulation *the* *Forgotten Technology*

Mechanical insulation is a powerful technology that get overlooked more times than not, and it is often underutilized and undervalued as an energy conservation initiative. When installed correctly, mechanical insulation is the only item in a building that starts to pay for itself immediately.

For over 80 years, the men and women of the International Association of Heat and Frost Insulators Local 81 have been on the forefront of building a more energy efficient healthier and more safe environment.

Having partnered with the Midwest Contractors Association, Local 81 is achieving their goal of a safer, greener, more efficient world.





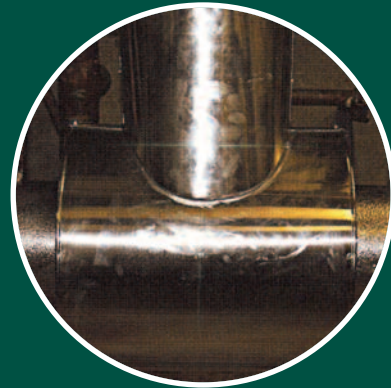
# *Saving Green* *by* Going Green

Cutting away from the thermal energy (heat) loss is a sound economic measure in energy conservation and is especially cost effective at facilities where lost heat has value.

Insufficient and poorly installed insulation around heating and cooling system is by far, the biggest cause of lost energy and dollars. Skilled and well planned installation of mechanical system insulation will save you both energy and money. Additionally, proper insulation cuts emission of green house gasses, improve indoor and air quality and decreases noise pollution.



If your facility is like most, this image isn't uncommon. However, it's important to understand that un-insulated valves cost you a significant amount of money, while emitting carbon dioxide into the environment.



If you properly insulate a valve with 2" of insulation, you will see immediate results. Within a year, you could save:\*

- 49 million BTU's of heat loss
- 7,600 lbs. of CO<sup>2</sup> emissions
- 15 lbs. of nitrogen oxides emissions
- \$600 in total energy savings

\* Calculations were obtained using  
NAIMA 3E Plus version 4.0 software

## *Insulation* Promoting Health

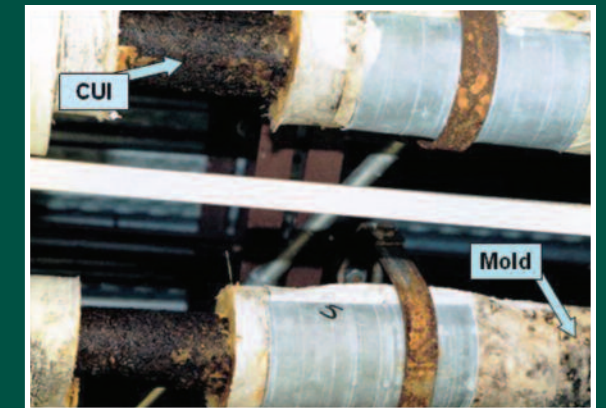
When people think of mold, water damage comes to mind. Seldom do they think of improperly installed mechanical insulation.

When insulation is installed by the professionals of Local 81, the customer can rest assured that the job will be done right the first time. The business of insulation is our commitment. Through our extensive and on going training, we will reach our goals.

Mechanical insulation is installed in a variety of ways depending on the application, the material involved, and the environment. The installation methods can have a direct impact on the performance of the insulation system. Local 81 sets the standards through our commitment of training.

To minimize the risk of mold forming in ductwork consider replacing any ductwork that has interior lining to minimize the buildup of dirt and moisture on the inside surface. Installing insulation on the outside of the ductwork provides the same advantages of lining the inside of the ductwork, but none of the problems the liner imposes.

Not properly maintaining insulation systems could be creating more expensive problems such as CUI (corrosion under insulation). Condensation or moisture intrusion is the main contribution of CUI.





# Professional Craftsman Code of Conduct

Local 81 Professional Craftsman Code of Conduct is simple . . . a job built on time, under budget and built right the first time.

Local 81 professionals pride themselves on providing the highest quality of work using the best and most innovative work practices. It is our goal to leave a lasting impression of quality workmanship at every job site.

Whatever the energy-saving insulation needs – be it commercial, industrial, new construction or maintenance – you only need to look to the men and women of Local 81.

# Training *for the Future*

The level of professionalism you receive from union heat and frost insulators is unmatched in the industry. Local 81 members have received more training than anyone else in the field, and it shows in everything they do.

Local 81 training consists of a 4 year apprenticeship which includes over 550 hours of classroom training and education to focus on new technologies in a changing industry.

Our members are certified in OSHA 10-hours as well as First Aid, CPR, Scaffold use, and Aerial lift training.

Local 81 provides a safe, well trained and drug free workforce.



Prairie Creek Power House Flood Relief 2008, Cedar Rapids, Iowa  
130,000+ man hours without a loss time accident.

