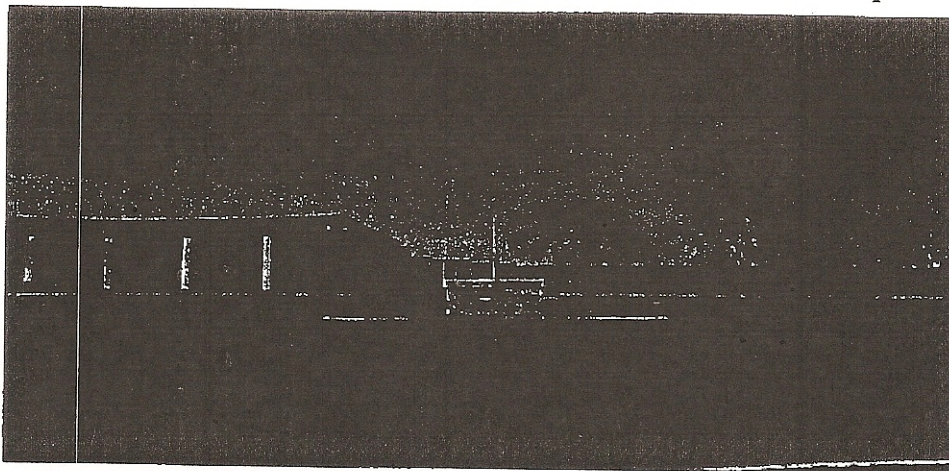


# Air Krete Masonry Wall Insulation

## Northeastern Local Schools—Tinora High School/Middle School Complex

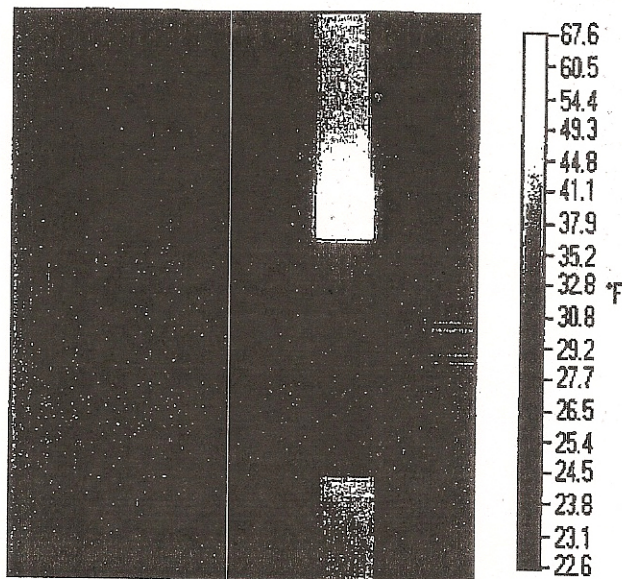


**Air Krete Masonry Wall Insulation helped reduce natural gas use by 38.2%**

Air Krete Masonry Wall Insulation is a water-based, fireproof, foam product installed between the 4" face brick and 8" concrete block exterior walls. The material is injected with compressed air through access holes drilled in the mortar joints.

The Air Krete was included as integral part of an HB264 Energy Project which included boiler plant downsizing, replacement, and conversion from fuel oil to natural gas. \* Base year Natural Gas CCF was derived by converting the base year fuel oil use (30,126 gal) to equivalent natural gas use.

	Base Year Data (1998) (Jan-Apr) (Oct-Dec)	Retrofit Year Data (Oct-Dec 00) (Jan-Apr 01)
Natural Gas Use (CCF)	42,118*	31,480
Heating Degree Days	4,948	5,978
CCF per HDD	8.51	5.27
CCF Savings per HDD		3.24
Percent Savings		38.2%
CCF Savings per Year		19,369
CCF Cost per Unit		\$0.807
Dollar Savings per Year		\$15,848.67



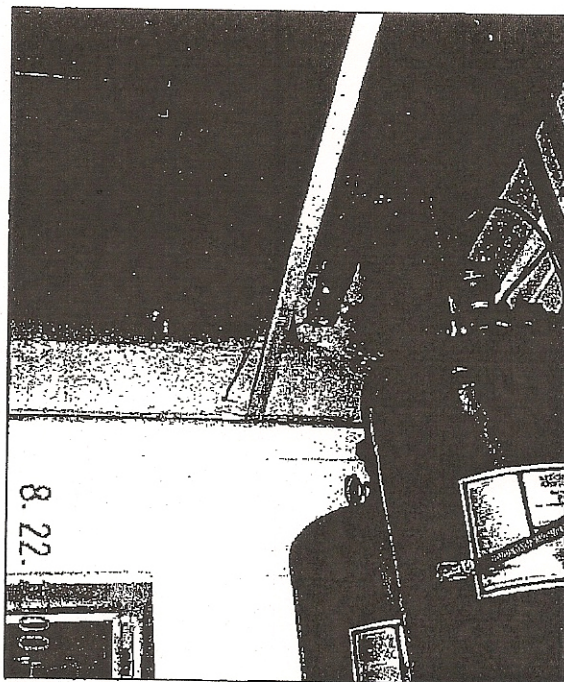
After Air Krete installation is completed infrared (IR) imaging is conducted. This assures no areas were missed because of hidden obstructions inside the wall and verifies the insulations performance. The customer gets a hard copy of the before and after results. Digital file copies are also available on CD.

The digital IR picture at the left details a typical insulated wall section. The image includes two windows and a fresh air intake grille. Note the slight effect of the insulated window panel in the upper part of the window.

Air Krete Masonry Wall Insulation not only improves the thermal performance of the wall but seals the holes, cracks, and penetrations in the building. These holes let cold air in and heated air out.

By reducing the random uncontrolled air leakage in a building you improve the ability of the heating and ventilating equipment to do its job. Fresh air is introduced into the facility when and where it is needed. This saves energy and improves building comfort.

The picture at the right illustrates an air leak/energy loss opening at the kitchen vent pipe. This area was above the acoustical ceiling. The hole was completely sealed with Air Krete foam insulation injected from the outside.



Please contact us for more specific project details or more information.