

### **Ann Arbor Energy Analyst Tests Prove that Drafts and Utility Costs can be Reduced by RetroFoam**

The City of Ann Arbor builds housing to sell to low income families. The city guarantees low utility expenses for energy but found it could not live up to its promise in the Stone School Townhouse project. RetroFoam of Michigan came to the rescue. Tests by the city's energy analyst showed potential drops in utility costs of 13-20% after having RetroFoam installed over the existing fiberglass insulation.

### **Drafty Apartments**

The two units of the Stone School Townhouses had already been insulated with fiberglass. However, measurements by Ann Arbor's Energy Analyst indicated that drafts were very high in the apartments.

Natural Air Changes per Hour (NACH) is a measurement of draftiness. Tests indicated the two bedroom apartments had a high NACH of 1.34 even with fiberglass insulation. Three bedroom apartments had an NACH of 1.2. The industry standard for acceptable drafts is an NACH of .5!

### **RetroFoam to the Rescue**

Ann Arbor requested that RetroFoam of Michigan re-insulate the apartments with injected foam. After the job was complete, the housing rehabilitation specialist for the City of Ann Arbor said to RetroFoam of Michigan, "Great job on the condos. Everyone is happy with how your company handled the job."

### **Less Drafty and Lower Utility Bills**

Moreover, when the energy analyst conducted new draft tests, he found that the NACH for the 2-bedroom apartments had dropped to an average of .37 (a 72% decrease) and the 3-bedroom apartments NACH dropped 71% to .35. Both are well below industry standards.

The energy analyst entered the NACH results into a model for energy costs and discovered that residents of the Stone School Townhouses can expect reductions in utility costs from 13-20% in the 3 and 2-bedroom units, respectively.