Results for TruProtect Installed in A Taste of Market Street

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This report documents the benefits of TruProtect and specifically its benefits in the installation in A Taste of Market Street.

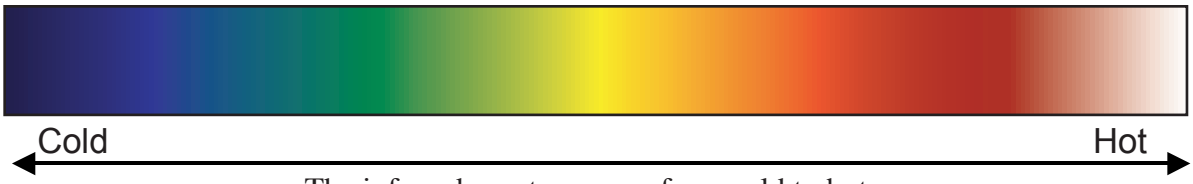
During early development stages for United Supermarket's newest Market Street, representatives of TruProtect met with Michael Molena, United's architect. Based on ASTM test results which proved the quality and usefulness of TruProtect, it was decided to use the product on a portion of United's upcoming building development. This new project was to consist of two stores. The larger Market Street would have a total of 66,722 square feet. The second, smaller store, A Taste of Market Street, would have a total of 1,361 square feet. TruProtect would be installed in the smaller building. After construction completion, utility usage would then be compared between the larger store, without TruProtect, and the smaller store, with TruProtect.

Natural gas was used to heat both the larger and smaller buildings. Data was collected from the November/December to the February/March billing period. This period comprises the coldest months in the Lubbock area and should be representative of heating costs. For this period, A Taste of Market Street saved .035 center per square foot over the larger Market Street for natural gas usage. Applying this reduction in heating expense to the larger building indicates that $2,335 would be saved if Market Street were also wrapped with TruProtect. Over a 20 year expected life of the larger Market Street building, at today's prices, the savings would be $233,527 in natural gas expenses. The total savings in the cost of electricity for summer cooling should exceed this amount since locally, cooling costs exceed heating costs.

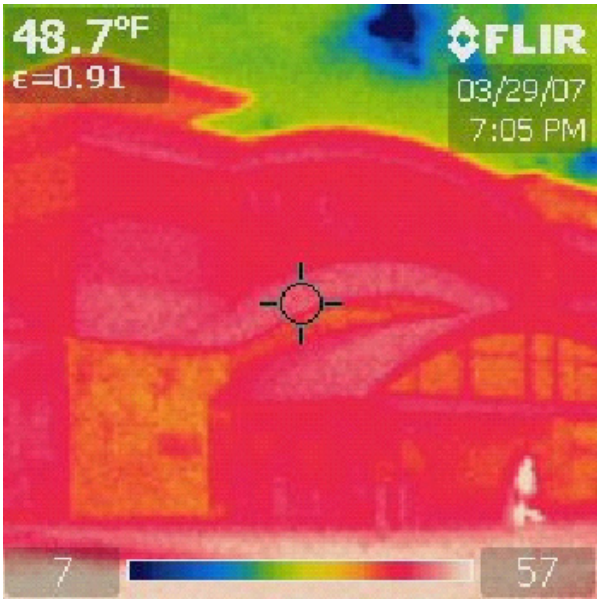
In addition to showing projected savings from actual utility costs, infrared photos were taken of the two buildings on March 29-31, 2007, to visually prove the insulating qualities of TruProtect. The exterior temperatures were from 19 to 50 degrees Fahrenheit, and the interior of the stores was at 67 degrees. Photos were taken of exterior walls, windows, doors, and roofs of both stores. The photos reveal that significant heat is being lost through the walls and roof of Market Street; whereas, A Taste of Market Street retains the heat within the building. Comparison photos are attached.

TruProtect proved to be simple to install, requiring only a knife and tape. No special equipment or clothing was required. United's contractors working with TruProtect were amazed at its ease of handling and installation.

In summary, TruProtect passed its trial run with flying colors. It was easy to install and dramatically reduced utility costs. It was a pleasure working with the people at United, and we hope that TruProtect will be used in all of United's new construction and remodel projects in the future.

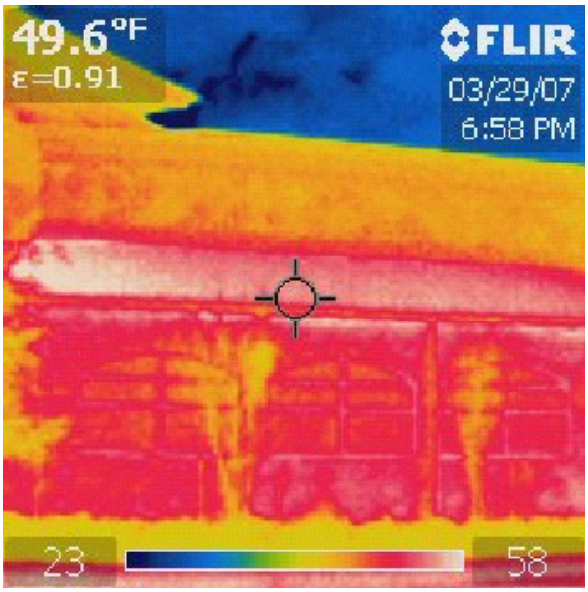


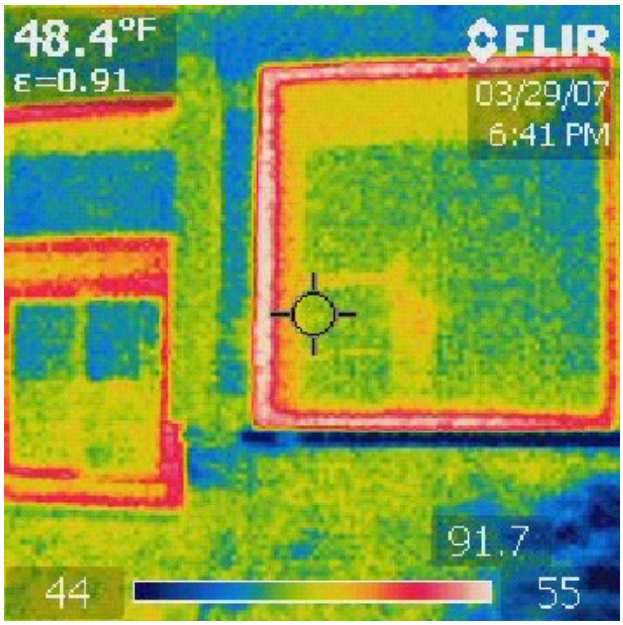
The infrared spectrum runs from cold to hot.



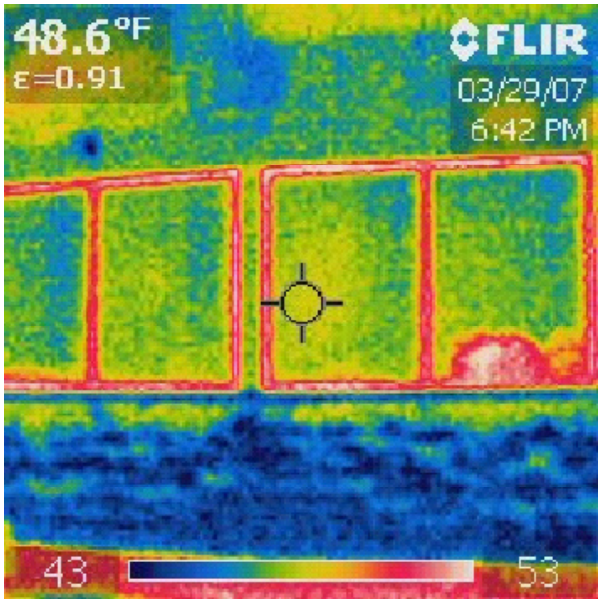
Photos of the front (above) and side (below) of Market Street

The red/yellow of the walls indicates that heat is being transferred to the outside. The white/red around the windows and door indicates heat transfer to the outside. Note the blue/green of the sky, indicating the cold outside temperature.

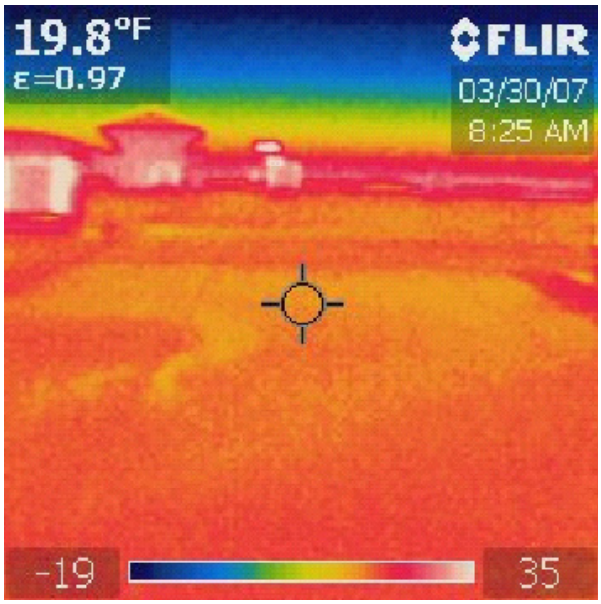




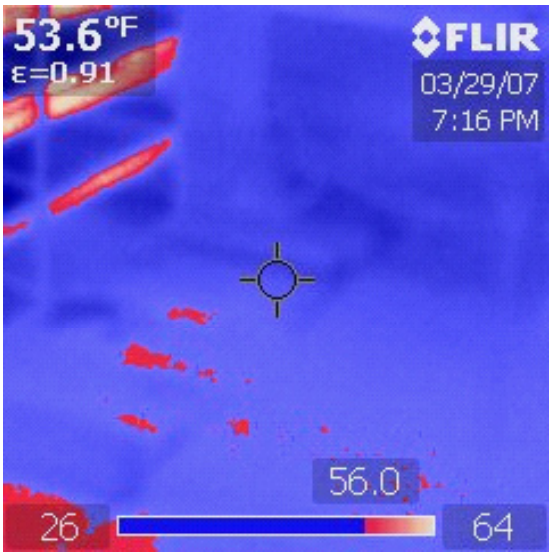
Photos of the front of A Taste of Market Street
The walls have TruProtect underlying the rock and stucco outer covering. The blue/green of the walls indicates that TruProtect is stopping the heat transfer to the outside. The white/red around the windows and door indicates heat transfer to the outside.



Photos of the side of A Taste of Market Street
The blue/green of the walls indicates that TruProtect is stopping the heat transfer to the outside. The white/red around the windows indicates heat transfer to the outside. The argon gas windows are transferring more heat than the TruProtect lined walls.



Photos of the roof of Market Street
Note that the external temperature was 19ºF. The red/yellow of the roof of Market Street indicates significant heat transfer to the outside.



Photos of the roof of A Taste of Market Street
The blue of the roof of A Taste of Market Street shows that heat is not being transferred from inside the building to the outside. The red is from the metal strips along the edge and the trim work.