



A TRUE 15-MINUTE  
THERMAL BARRIER

Polyurethane Foam

1.25" Ure-K

Ure-K Spray System for  
Thermal Barriers



## System Description

Ure-K is a thermal barrier approved as a building interior insulation to delay the ignition and reduce the surface burning rate of low melting, combustible rigid spray-on polyurethane foam. Ure-K may be sprayed over foam in existing buildings or it can be used as a protective coating over foam in new construction projects as a combination system.

Unlike other products that are "Ignition Barriers", Ure-K fully complies with the thermal barrier requirements of 15-minute protection. Insurance carriers know that Ure-K has been a proven performer for many years and often times require its use. Plastic foam products have a very high smoke rating and the use of Ure-K will provide precious time to evacuate the building in the unfortunate case of a fire.

When used with an overall insulation package, Ure-K, at 1.25", adds another R-4.5 to the system, providing more performance per dollar than competing barriers that do not add insulation value.

## Thermal Barrier

Ure-K has been tested and approved as a 15-minute thermal barrier over foam plastic insulation. Ure-K covers interior applications to maintain a sufficiently low surface temperature for a minimum of 15 minutes to prevent ignition and the rapid spread of fire. The average installed thickness of Ure-K is 1.25 inches.

## Thermal Insulator

Ure-K applied over polyurethane provides additional thermal resistance that meets the stringent "R" values required for today's energy conservation needs. The combination of Ure-K and polyurethane has the highest efficiency of all available insulations.

## Noise Reduction

Ure-K is a monolithic coating that provides a highly efficient sound absorption surface in either new or existing buildings. This is an important benefit in controlling noise levels to meet OSHA and other requirements.





## Installation

Ure-K fibers and liquid binder are applied to the surfaces simultaneously in separate streams through equipment specially engineered to control the adhesive/fiber mixture. The Ure-K binder provides excellent adhesion to all types of foam insulations.

## Typical Applications

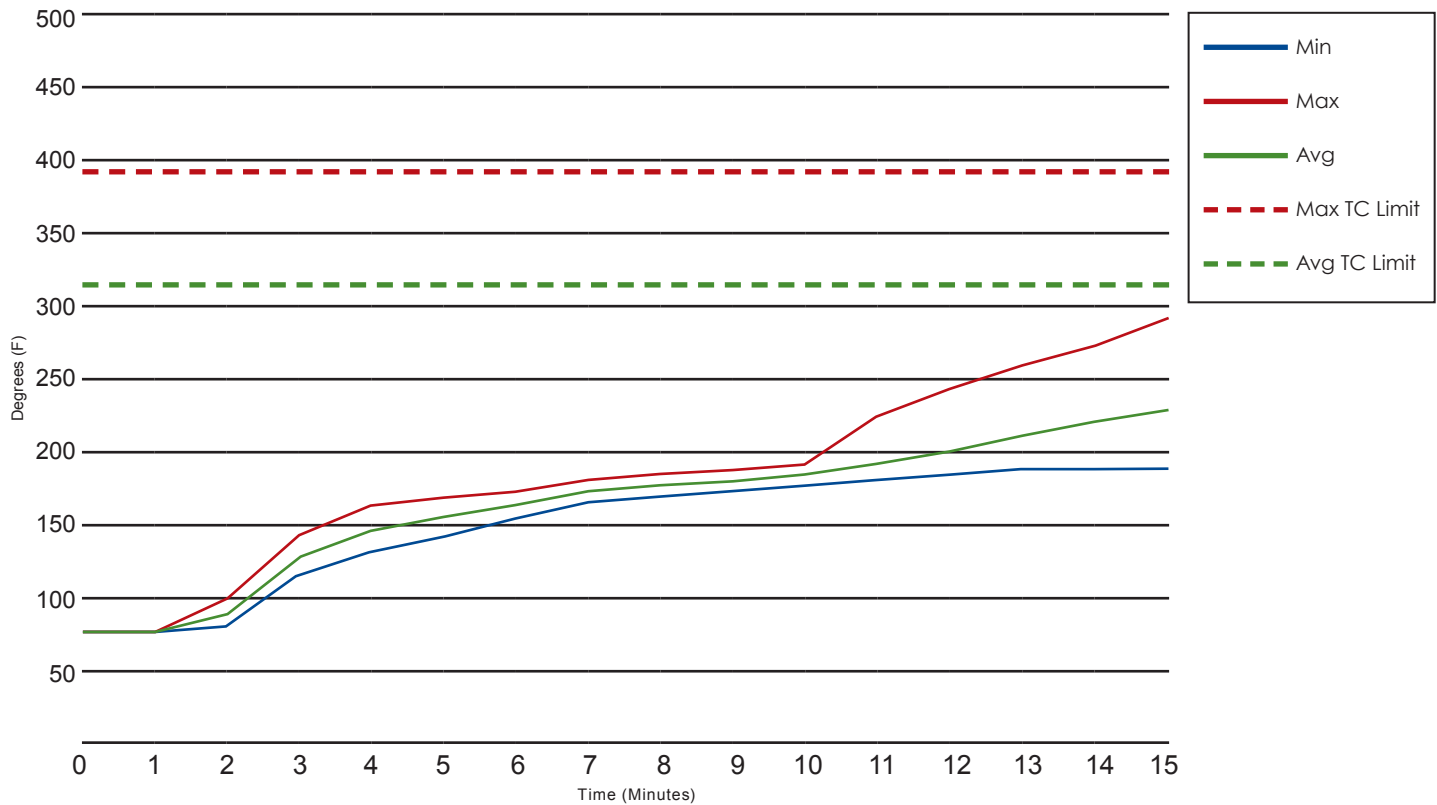
- |  |                                   |
|--|-----------------------------------|
| Freezers   | Coolers                           |
| Curtin Wall High-Rise Buildings                          | Underground Parking Decks         |
| Refrigerated Warehouses                                  | Metal Buildings                   |
| Tilt-up, Precast & Poured in Place Concrete Construction | Projects Requiring a High R-Value |
| Projects Concerned with Energy Conservation              |                                   |



## Testing

ASTM E-119 (UBC 26-2)  
 NFPA 286 (Testing over 2 pound and 0.5 pound foam)  
 ASTM E-84

## Thermocouple Data

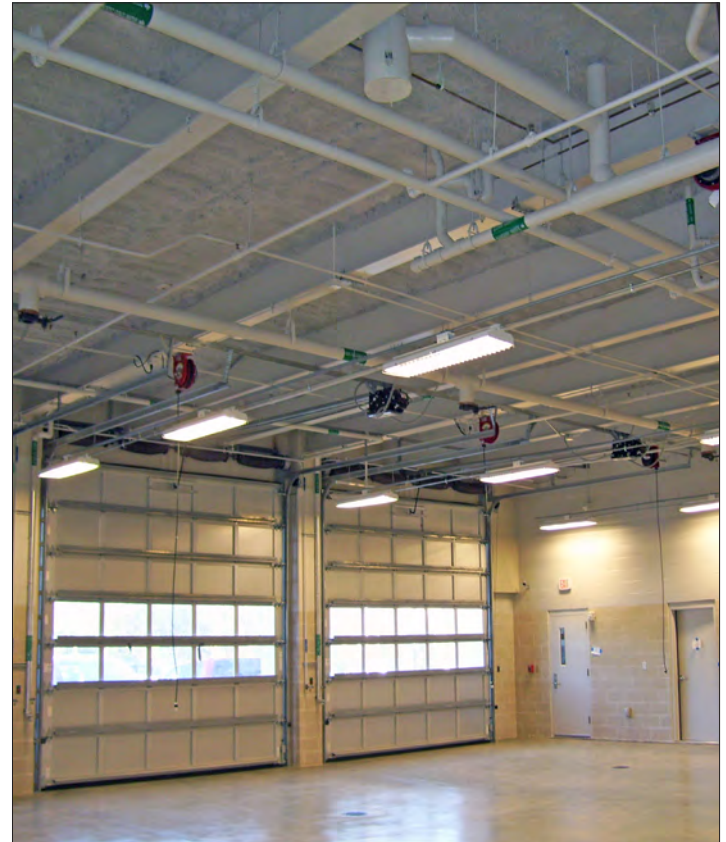






# DESIGN SOLUTION

## FIRE STATION



|                  |  |
|------------------|--|
| <b>PROJECT</b>   | Bellaire Fire Station<br>Bellaire, TX  |
| <b>DETAILS</b>   | Ure-K White<br>12,000 sf @ 1.25" Thick |
| <b>ARCHITECT</b> | PGAL<br>Houston, TX                    |

The Bellaire Fire Station melds form and function, providing a home away from home for Bellaire's fire department staff. While the first level houses the administrative offices, Emergency Operations Center, and the equipment, the second level is devoted to the living and working spaces of the firefighters. The fire station's construction emphasizes modern functionality while blending a traditional aesthetic that fits seamlessly into the surrounding residential neighborhood. The resulting building allowed the city to achieve LEED Silver Certification as recognized by the U.S. Green Building Council, the very first in Bellaire, Texas.

One of the ways that they achieved LEED Silver Certification was through use of the 15-minute thermal Ure-K. Ure-K Spray Coating is part of the most efficient form of thermal and acoustical insulation available and is made of 80% recycled materials.

A combination of spray-on polyurethane foam covered with Ure-K met the requirements of the local building codes and provided an exceptional sound absorption and thermal rating.

Ure-K is a 15-minute thermal barrier approved as a building interior insulation to delay the ignition and reduce the surface-burning rate of low-melting, combustible, rigid spray-on polyurethane foam in new construction projects as a combination system. Ure-K is available in standard or custom colors and is the perfect solution for your thermal and acoustical requirements.

**Contact International Cellulose Corporation today at (800) 444-1252 or visit us online at [www.spray-on.com](http://www.spray-on.com) for complete details on how ICC can improve your building projects.**



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