



SIP No. 2039

Subject: Blazeguard - An Index 15 Thermal Barriers

Date: November 2007

Blazeguard is a factory applied coating manufactured from specialized concrete and fiberglass strands. Blazeguard is applied directly to the OSB facing of R-Control SIPs. Blazeguard provides a code recognized thermal barrier for the panel, just like gypsum board. Blazeguard adheres tenaciously to the wood face. It is also very impact and moisture durable, due to the fact that concrete technology is used.

Where is it used?

Blazeguard is most commonly used as the interior side of an R-Control SIP in commercial and industrial buildings. Some applications have also been used for the outside of the panel where extra fire protection is needed, but only when the Blazeguard is additionally covered by a code approved exterior weather resistant barrier and cladding system.

What type finish is available?

The Blazeguard finish is relatively smooth and reminiscent of hand troweled plaster coat that was common in years past. This finish is used in applications where the design calls for a lightly modeled smooth appearance.

How are joints treated?

Building designs that hide or blind the joints are best for R-Control SIPs with Blazeguard. Also, designs that allow for the panel joints to be seen as a reveal joint from panel to panel work well. Another application that works for many designs is to cover panel joints with batten systems that blend into the field color or texture of the panel, or complement the design scheme.

Does Blazeguard Meet Code Requirements?

Blazeguard is a proprietary fire resistive finish that can be applied to R-Control SIPs. This product results in an R-Control SIP which meets and exceeds the code requirement for an Index 15 Thermal Barrier.

R-Control SIPs with Blazeguard have been tested in accordance to the following code required tests:

UBC 26-2 (a modified ASTM E119 test) "Test Method for Evaluation of Thermal Barrier".

Results - Blazeguard qualifies as a Thermal Barrier

UBC 26-3 (Corner Room Burn) "Room Fire Test Standard for Interior of Foam Plastics Systems".

Results - R-Control SIPs with Blazeguard remained in position for the duration of the test and exhibited very light smoke, while protecting the EPS core from char outside the area of the ignited crib.

ASTM E-84 "Tested Method for Surface Burning Characteristics of Building Materials".

Results - The Blazeguard material has a flame spread of 5 and a smoke develop of 10-35.

The results of these tests demonstrate that R-Control SIPs with Blazeguard meet code requirements for a thermal barrier and can be installed without fire protection.

For more information on Blazeguard, please refer to ICC ES ESR-1365 available from www.icc-es.org.



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