



Roofing America

For Over 40 Years

November 05, 2003

John Murphy
United Building Products
14100 Interdrive East
Houston, TX 77032

Re: **Interior Air Temperature Reduction / Energy Star Roofing Product
Igloo Distribution Center
Houston, TX**

Dear John:

Dick Gillenwater, Carlisle's Manager of Advanced Projects, asked the **Oak Ridge National Laboratories** to run their compute model on the Igloo warehouse in Houston, TX, to determine if there would be a reduction in the interior airspace temperature for a non air-conditioned facility.

Oak Ridge National Laboratories compared a BUR to a Sure-Weld membrane and determined the following:

	<u>BUR</u>	<u>SW</u>	<u>Difference (degrees F)</u>
Maximum Temperature	110.5	93.4	17.1
Average Temperature	77.6	71.4	6.2

The Oak Ridge National Laboratories data shows the Carlisle SynTec Inc. Energy Star rated, Sure-Weld white Roofing System will keep the warehouse approximately 17 degrees cooler on the hottest days and will also keep the warehouse an average for the entire year of 6 degrees cooler than a corresponding BUR roof.

The 17-degree reduction in temperature in the working environment of the Igloo warehouse will improve the overall productivity of their labor force during the course of an 8-10 hour daylight shift.

Please call me if you have any questions.

Joe Carbine

Director
Strategic Accounts

Cc. Dick Gillenwater

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