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## TENSOTHERM™ WITH NANOGEL® QUADRUPLES THERMAL EFFICIENCY AT DEDMON ATHLETIC CENTER, MAINTAINS TRANSLUCENCY



Birdair's first [Tensotherm™ with Nanogel®](#) project provides [thermal efficiency](#) for a roofing retrofit at the Dedmon Athletic Center at Radford University, Radford, Va.

Tensotherm features [translucent Nanogel aerogel insulation](#) developed by [Cabot Corporation](#) that is sandwiched between two layers of translucent structural PTFE fiberglass membrane, reducing HVAC energy consumption, requirements and costs. For the 52,000 square-foot Dedmon Center, Tensotherm more than quadrupled the original roof's thermal insulation performance with a value of R-12 while maintaining the original roof's daylighting capability.. The material has additionally allowed the facility to incorporate air-conditioning, which had not been possible in the past. This durable material also offers maximum moisture control and the insulation effectiveness will not deteriorate over time or under compression as with traditional insulations.

LEARN MORE ABOUT TENSOTHERM  
ON THE CONTINUING ARCHITECT

TENSOTHERM PERFORMS  
AT AIA EXPO 2010

June 10-12, architects attending AIA Expo 2010 in Miami had a chance to experience translucent Tensotherm's extraordinary thermal insulating capability. For this demonstration, Birdair constructed a transparent test chamber that was divided into upper and lower chambers by a thin



Earn 1 LU/HSW/SD AIA CES credit by completing Birdair's new course entitled, "[\*Defying Gravity With Tensile Architecture\*](#)" on [The Continuing Architect](#), a new online architect continuing education platform. The course explores the benefits of using a material like Tensotherm over traditional building materials, the steps – from design through construction – for creating tensile structures and more.

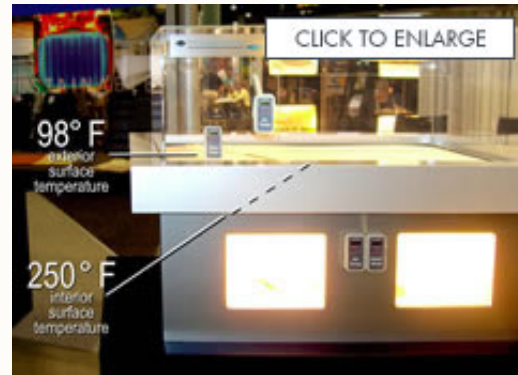


#### **About Birdair:**

Birdair, Inc. is the leading specialty contractor of lightweight long-span roofing systems and tensile structures throughout the world, providing design-build solutions for architects and clients in all aspects of project design, engineering, installation and maintenance. Lightweight long-span roofing systems and cable structures can be attached to any building envelope and offer aesthetic and functional options to complement any exterior design. Birdair, based in Buffalo, NY, is a member of the Taiyo Kogyo Group, with operations serving North and South America and other international locations.

For more information about Birdair, call 1-800-622-2246 or visit [www.birdair.com](http://www.birdair.com).

16mm sample of Tensotherm. Air in the lower chamber was then heated to 250°F.



Throughout the Expo, thermocouples placed on the surface of Tensotherm, in the upper chamber, reached a maximum temperature of just 98°F, proof positive that quality daylighting and robust thermal efficiency are not mutually exclusive with Birdair's innovative new building envelope product.