

3M Science.
Applied to Life.™



Let's Build Smarter.

Aiming for LEED certification with help from 3M™ VentureClad™ Insulation Jacketing.

Energy efficiency is important for most types of construction, but particularly for sports arenas that are only used for part of each day when conditioned air helps keep fans comfortable during events. UBS Arena, which is home ice for the NHL's New York Islanders as well as hosting other events, was built with the aim of becoming the first venue of its kind in New York to be eligible to achieve certification under the LEED V4 building design and construction rating system. While many aspects of design and construction are included in LEED ratings, when it came time to protect vent and pipe insulation, AECOM Hunt looked to the 3M™ VentureClad™ line of moisture barrier products.

AECOM Hunt

AECOM came about when a handful of employees from design and engineering companies shared a dream of creating an industry-leading firm dedicated to delivering a better world. Officially founded in 1990 by the merger of five entities, many of the predecessor firms already had histories that dated back more than 120 years. The company has been joined by more than 50 companies since then and ranked #1 in Engineering News-Record's 2020 "Top 200 Environmental Firms". Hunt Construction Group, itself founded in 1944, joined the firm in 2014, and is now known as AECOM Hunt.



Insulation can only work when it's protected.

Insulation is key to maintaining efficiency in a HVAC system. Most insulation system failures are moisture related. For the insulation to remain effective, it is critical for it to not be compromised by moisture intrusion. An insulation jacketing system is an outer protective cover that should protect the insulation from water intrusion and mechanical damage. As the weather goes through changes and the HVAC system is subjected to the surrounding environment such as, rainfall, humidity, and condensation, keeping the insulation dry is key to maintaining system performance.

The 3M™ VentureClad™ line of insulation moisture barrier products feature a tough, multi-layered laminate construction designed to provide superior resistance to weathering, extreme environmental

conditions, and mechanical damage. It features an aggressive acrylic adhesive which, when installed with the correct overlap, seals out water vapor unlike traditional jacketing systems. It is lightweight and easy for installers to cut and shape, and the adhesive is engineered to stick well to most types of insulation. While this moisture barrier is reinforced to resist punctures and tears, if something does happen it is also easy to repair, simply cut a large enough piece to cover the damaged area and apply it over the top as a patch.

Easy, consistent installation helps with productivity.

Products that are easy to install create fewer complications and are more likely to be installed correctly. That's one of the reasons AECOM Hunt appreciates 3M™ VentureClad™ products. Rather than needing to measure onsite and then fabricate a metal system offsite, tools to cut, bend and seal sheet metal, installers can carry just a straightedge, marker, and scissors or utility knife. When the size is right, they just peel the liner away and the adhesive sticks to most insulation types. It is also engineered to bond and seal on contact in temperatures as cold as -10°F (-23°C), allowing installation even in cold weather. Ease of installation helps with productivity, allowing fewer workers to get more done.



3M also helps general contractors like AECOM Hunt with training to help make sure moisture barriers are installed correctly. This training helps with accuracy and productivity so installers can complete one job and move on to the next.

Easy, efficient application to maintain insulation efficiency.

Installing a moisture barrier that seals out water vapor as well as protecting insulation against UV and general weather damage helps keep insulation intact and functioning properly. At UBS Arena this protection keeps the insulation efficient as the arena aims to achieve certification under the LEED V4 building design and construction rating system. By installing 3M™ VentureClad™ to protect insulation while also satisfying client requirements for speed and productivity, AECOM Hunt is building smarter.

To learn more about how 3M can help you build smarter, please visit www.3M.com/BuildSmarter.



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