



AEROLON



**CONDENSATION
REDUCTION &
THERMAL BREAK**

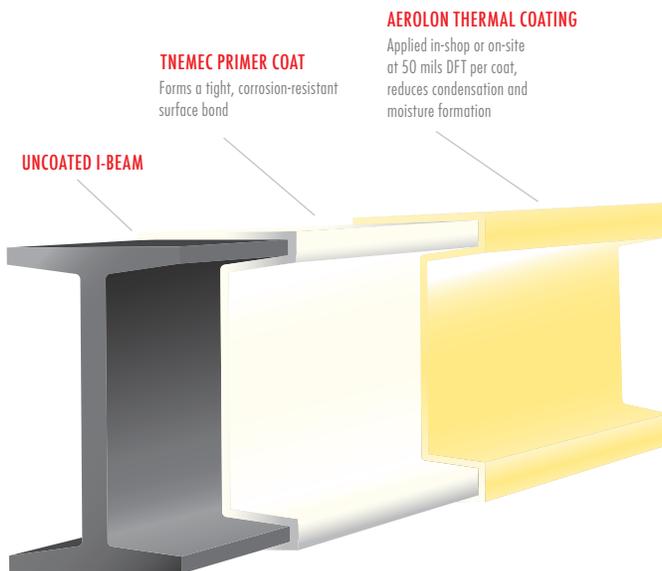
FLUID-APPLIED THERMAL BREAK

REDUCES THERMAL BRIDGING AND CONDENSATION

Tnemec has combined its leading, high-performance coatings technology with the world's best insulating solid (aerogel) to produce Aerolon. It's the first fluid-applied coating designed to act as an effective non-structural thermal break by interrupting heat transfer to control condensation within and in-board of the building envelope.

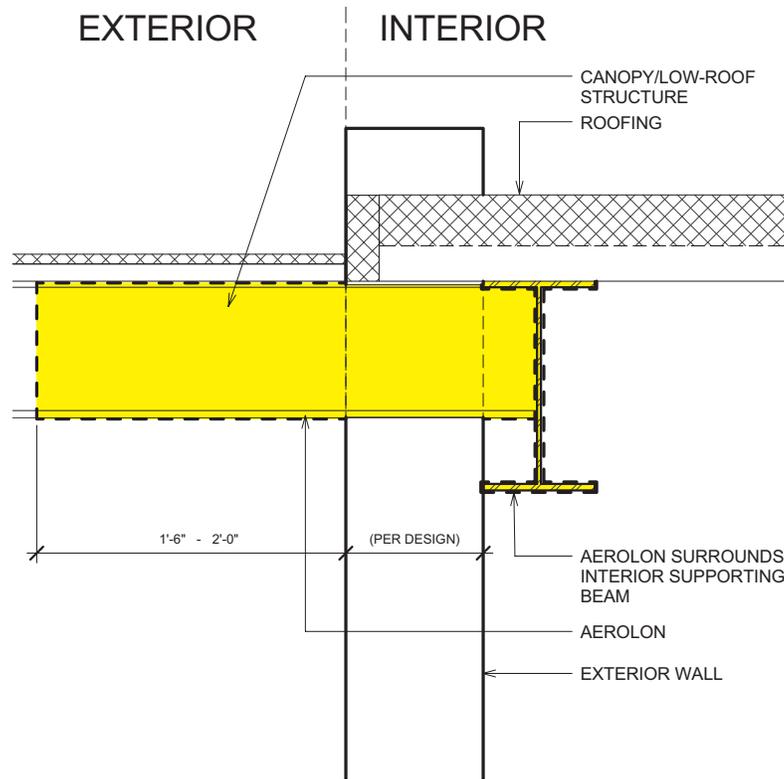
Due to its low thermal conductivity, Aerolon helps keep surface temperatures above the dew point, thus reducing condensation and inhibiting moisture buildup inside walls to prevent damage and toxic mold formation.

Among its many advantages, Aerolon is a low-VOC, water-based formulation that can easily be spray-applied to just those areas requiring condensation control. This limits application time and overall labor and material expenses. It is a much more cost effective solution than creating structural thermal breaks. In addition, application can be done on site or off site, providing greater flexibility.



AEROLON ADDRESSES COMMON THERMAL BRIDGING AREAS

- Wall or roof penetrations, such as pass-through I-beams, fins or canopies
- Roof davits, parapets, drains, shade louvers, Z-girts, wall ties or window frames
- Exposed concrete surfaces



THROUGH WALL CANOPY STRUCTURE

Aerolon reduces condensation by insulating the surface of structural members that transmit exterior temperatures through the building envelop. As indicated in the above illustration, Aerolon is applied to the structural beam penetrating the exterior wall and also to the interior supporting beam to which it is connected, both areas where thermal bridging can occur. For additional construction details, visit Tnemec.com/thermalbreak or contact your Tnemec representative.

INNOVATION IN EVERY COAT™



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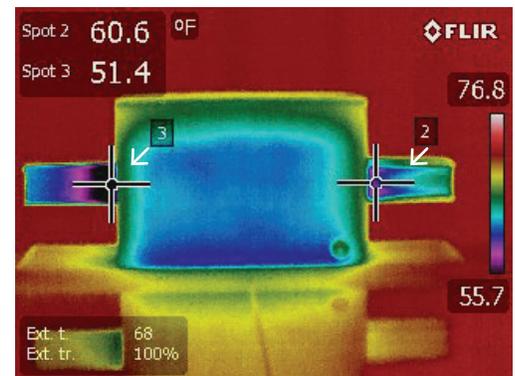
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INFRARED EVIDENCE OF THERMAL BREAK



Here, an I-beam runs through a container filled with ice, replicating a cold exterior environment. The left side, which is unprotected, serves as a control. The right side is coated with Aerolon at 100 mils.



The infrared image shows a significant temperature variance from point 3 (51.4 °F) on the left (uninsulated) side to point 2 (60.6 °F) on the right (Aerolon-coated) side. It demonstrates how Aerolon works as an effective thermal break to reduce condensation by keeping the surface temperature of the beam above the dew point.

PERFORMANCE PROVEN BY COMPARISON

In side-by-side comparisons, Aerolon's fluid-applied thermal break and condensation control benefits, along with its easy spray application, provide significant cost-saving advantages over design and construction of structural thermal breaks.

ADDITIONAL AEROLON BENEFITS:

- Compatible with select fireproofing and sealants*
- Exceptional Corrosion Under Insulation (CUI) resistance
- Excellent substrate bonding and durability

*Contact your local Tnemec coatings consultant for more information.