

Intumescent Fireblocking

# Storm King Art Center



FF102 Fire Block



New Windsor, NY



2022 to 2024

## THE CHALLENGE



2022- With over 60 years worth of large-scale sculptures and site-specific commissions, the Storm King Art Center has outgrown its original "canvas". In its plans for expansion, the center decided to create a facility where artists can fulfill their large-scale artistic visions, resulting in the development of the David R. Collens Building for Conservation, Fabrication, and Maintenance.

To embody its purpose for conversation, the project development team decided to integrate a system that caters to energy conservation specifically - an 'open-state cavity' fixed within an exterior wood cladding.

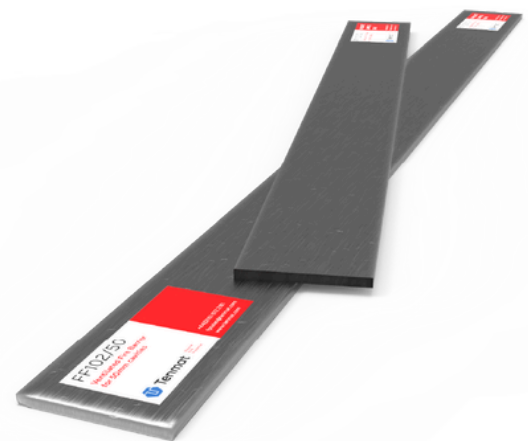
By integrating this type of cladding application, the project triggered important fireblocking requirements addressed in Section 718.2.6 - Exterior Wall Coverings in the International Building Code (IBC).

By triggering this requirement, the project team now faced a new challenge - a compromised 'open-state' air cavity. Fireblocking is required to fully compartmentalize the cavity - which often is resolved with permanent obstruction fireblocking. However, **when there is no fire - why block the cavity?**

## OUR SOLUTION



Composed of self-activated intumescent materials, Tenmat's FF102/50 Intumescent Fire Blocks can maintain a continuous air cavity during normal operations - well suited for the team's standards for energy conservation. Unlike traditional fireblocking, Tenmat's Intumescent Fireblocking allows for a maximum 2" air gap within the façade assembly - permitting air circulation and moisture management. With this balance, Tenmat's FF102/50 Intumescent Fire Block was specified into the David R. Collens Building.



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