Project Profile Erving Library | Erving, MA



The SlopeShield Plus Difference

Over 10,000 sq. ft of SlopeShield Plus SA Self-Adhered was installed on the innovative roof system of the Erving Public Library, to limit any potential condensation that may occur within the state-of-the-art Structural Insulated Panel (SIP) roof assembly. The highly unique prefabricated SIP roof system for the new library was designed to provide unprecedented roof insulation and structural support for wind loads, snow loads, and dead loads.

The Problem

The design firm for the project contacted ATAS, the SIP roof manufacturer, to review the ability to provide a weathertight roof warranty for the project. The project architect had been told by other metal roof panel manufacturers that in order to provide a warranty for the project, the entire roof substrate would need to have a self-adhered WRB roof underlayment applied beneath the metal panel system. As the SIPS roof substrate required a breathable underlayment, conventional ones—most of which are non-permeable—were not an option. ATAS researched the concept of incorporating a breathable underlayment in conjunction with their Above Sheathing Ventilation (ASV) shim, to eliminate the potential negative effects of a non-permeable underlayment when interior moisture presented the opportunity to condensate within the roof deck assembly.







The foreman on site for the project noted that SlopeShield Plus SA laid down nicely and installed properly along eve, perimeter, and valleys.

The Solution

ATAS recommended VaproShield's Slopeshield Plus SA Self-Adhered breathable underlayment, in conjunction with their patented ASV shim, to create a drainage plain under the roof system and remove any potential condensation that may occur within the roof assembly. Similar in concept to the back ventilated and drained rainscreen concept on a wall, the effects of the highly-permeable SlopeShield Plus SA, combined with the inherent energy efficient benefits of above sheathing ventilation on a roof, made for a sound solution to the architect's and building owner's concerns.

The project is expected to be completed early in 2020 with a grand opening in the spring of 2020.





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The Specifications

VaproShield Solution	SlopeShield Plus SA Self-Adhered
Accessories	VaproLiqui-Flash, VaproShims, WrapFlashing SA Self-Adherec
Size	10,000 sq. ft.
Architect	Johnson Roberts Associates Somerville, MA johnson-roberts.com
Construction Type	New, Mixed-use
General Contractor	Marois Construction Company South Hadley, MA maroisconstruction.com
Architect	Craine Architecture Denver, CO crainarch.com
Installer	J D Rivet & Co. Springfield, MA rivetroofing.com
VaproShield Rep	Roof Tech Sales North Andover, MA rtsreps.net



