

Williston Central School, Williston VT



Schools today come equipped with television screens, computer screens, smart boards and other screens that are significantly affected by glare. Smart boards are amazing tools but are rendered unusable in the presence of too much light. Security is now an unfortunate but pinnacle concern that a proper shading strategy can help manage.

THE CHALLENGE

The Williston Central School is a 145,000 SF facility that was started in 1949 but built over 42 years in 5 phases. In 2017 Rollease Acmeda Commercial Group worked with Gordon's Window Décor of Williston VT, the Williston School District and Truex Cullins Architecture + Interior Design to design a shading plan that would address their many design challenges.

Among the design concerns and challenges listed by the school district, maximizing the use of natural light through a light harvesting scheme while maintaining view through is highly prized for its well-researched benefits of increased productivity and learning. Also, schools now need to be concerned with security; shading systems must be fast and easy to deploy in the event of a security situation. The most significant challenge of the project is that the shading installation is to occur while the school is in service and occupied. All concerns must be addressed while staying within budget.

Fabric Selection:
Alkenz Sunshadow 3000
Net Performance Fabric
3% Openness in color White Gray

Lift System:
Contract Series 1
- Medium S45 Motorized
Shading System
- Open Roll
- Waterfall Configuration
- sold as EcoSmart by
Gordon's Window Décor.

Automate 3Nm 35mm
Li-ion Motor with Solar Panel

Control Unit:
Automate Single Channel
Recessed Wall Switches

Fabricated and installed by
Gordon's Window Décor

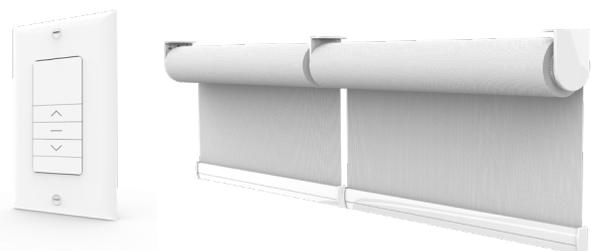


THE SOLUTION

Motorization is the single most effective way to efficiently manipulate large expanses of shading systems over a large number of windows. Rollease Acmeda Automate motors were selected for their effectiveness and simplicity in operation. One set of controls per bank of windows or per classroom affords a quick one touch solution on an attractive surface mount wall control panel gives the operator full control over a dynamic light control shading solution and can also fully deploy the shading systems for privacy or safety in the event of a security concern.

There have been many recent studies on the positive effects of exterior views on efficiency, productivity, and overall wellbeing of building occupants. It is well noted in a recent study by the World Green Building Council that exterior nature views improve mental function and memory 10-25%, workers are 18% more productive and students achieve 5-14% higher test scores and they learn 20-26% faster than those without exterior views. The Alkenz Sunshadow 3000 Net White Gray fabric was chosen in a 3% openness factor to keep glare under control while providing view through to the outdoors and accentuating the interior décor.

Rollease Acmeda Commercial Group worked with Gordon's Window Décor on a scheme to reduce the number of motors in the project towards the aim of keeping the project within budget constraints. The Contract Series 1 – S45 System was selected for its industry leading ability to drive and link up to 7 shade bands per motor covering expanses of up to 350" of full-length curtain wall at 110". Another drastic cost saving measure was found in the wiring for the motorized shades. Automate 6 Nm Li-ion Motors were selected and powered independently of the building's electrical system running off of solar power being trickle charged into the Automate battery system located inside the shading system for a sleek, compact and unencumbered aesthetic.



ROLLEASE ACMEDA CONTRACT

Rollease Acmeda customers can realize the tremendous design and installation flexibility for each project. Utilizing our network of local manufacturing and world-class installing subs Rollease Acmeda was able to assist Portman in realizing pristine view throughs, glare control and interior enhancing style on time and under budget.

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