

Window Management

Solar Shading Solutions

for Sustainable Design



Nikken Headquarters. Gensler & Associates, Architects. Dealer: Phillips Draperies.



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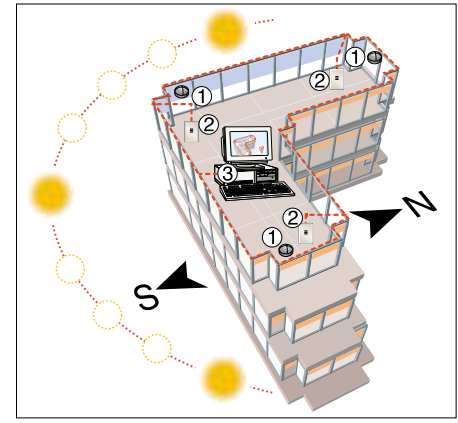
Herman Miller
Holland, MI
William McDonough
and Partners, Architects

Automated Control System AAC SolarTrac™ Computerized Solar Tracking for Sustainable Building Design and Daylighting

Automated shading has grown significantly as a solution for architects and their clients who wish to provide maximum performance for their building both functionally and aesthetically. A number of highly rated LEED™ projects utilize the AAC SolarTrac™ System, an automated energy efficient sub-system that maximizes the sustainable benefits of MechoShades by automatically adjusting the position of shades in accordance with:

- Position and intensity of the solar ray on every window.
- Micro climatic sky conditions.
- Solar gain in BTUs on each window
- Window geometry and solar penetration
- Window wall luminous value.
- Ambient illumination.
- Plus many other user definable options.

- Features:**
- Unlimited programming options can maximize daylighting while providing solar/glare protection where needed.
 - Assures alignment and uniformity of shades for the interior and exterior of the project.
 - Appropriate for all windows, skylights, atrium and general office space.
 - Unlimited zone control.
 - May be used with our IQ/MLC, MLC or I•CON control systems.
 - Integrates with all BMS and lighting control systems.
 - Summer/Winter "U" value effect for more energy efficient temperature set points; higher in summer and lower in winter with an increase in personal comfort.



- ① Three AAC solar sensors on the roof determine if it is clear, cloudy or bright-overcast.
- ② Local Switches can override the system, it regains control at 5AM the following day.
- ③ The AAC SolarTrac™ can maintain an unlimited number of zones.

See back cover for MechoShade/LEED Project photos of PNC Firstside Center, SABRE Corporate Campus, and GAP Headquarters, all with AAC SolarTrac™ Systems.

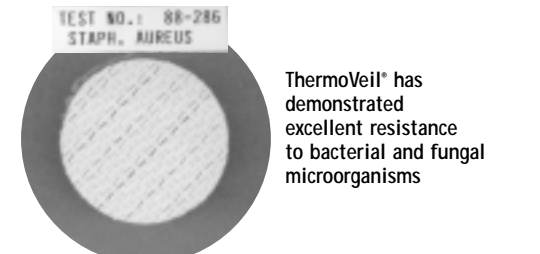
New Launch: EcoVeil™ High Quality, Safe and Recyclable Materials

Inspired by William McDonough and Michael Braungart's book on "Cradle to Cradle" design, MechoShade® has worked closely with MBDC to create a new eco-effective shade cloth for its solarshade systems. MechoShade® is proud to officially unveil the revolutionary EcoVeil™ shade cloth at NeoCon 2004.

EcoVeil™ is designed to be what MBDC calls "technical nutrient," and as such, all inputs are being evaluated for their impact on human and environmental health. It is also intended for EcoVeil™ to be kept in a closed loop of continued use at the same level of quality as originally intended, not "downcycled" into a product of lesser quality.

Our ThermoVeil® and EuroVeil® line of shade cloths are specifically designed in various colors and weaves to complement all types of window glazing. MechoShade® pioneered the concept of "visually transparent shading" that filters natural light and controls glare and heat gain while providing a partial view through the shade. Our shades complement many Light Harvesting designs and our shading control systems can integrate with Building Management, A/V and Lighting Control Systems.

ThermoVeil®, EuroVeil®, EuroTwil® solar shade cloths pass indoor air quality guidelines of ASTM D 5116-97 / ASTM D 6670-01 / World Health Organization (WHO) / German Federal Environmental Agency (Blue Angel Program) / The State of Washington (SOW) / U.S. Occupational Safety & Health Administration (OSHA) as per GREENGUARD™ VOC testing.

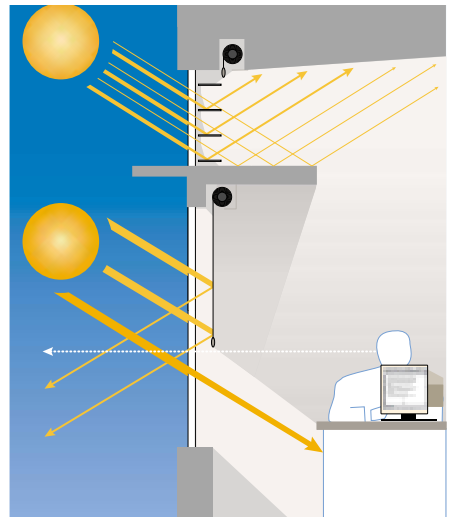


ThermoVeil® has demonstrated excellent resistance to bacterial and fungal microorganisms

Solar Shading Solutions for Sustainable Building Design

Why Shades? Why MechoShades?

- Offices • Hospitals • Libraries
- Classrooms • Museums • Retail Stores
- Green Buildings
- Reduce Brightness and Glare Problems on Work Surfaces and CRT Screens.
- Reduce Heat-Gain.
- Reduce A/C Loads.
- Reduce Fossil Fuel Consumption.
- Visually Transparent.
- Complements Solar Geometry.
- Increase See-Through Ability so Beneficial to Employee/Patient Well-Being and Productivity.
- Increase Use of Natural Daylight Proven to Reduce Absenteeism and Increase Efficiency.



Window Management: The Prerequisite to Daylighting

Daylighting is a critical element in Sustainable Design. But uncontrolled natural daylight leads to excessive heat gain, brightness and glare. To be successful, Daylighting has to include key elements of automated Window Management to provide a better, more livable and efficient environment for those who live and work in these structures. MechoShades meet and exceed the goals of Window Management.

Mechoshade®/LEED® Projects

MechoShade® is proud to be associated with a number of successful LEED projects. Among them are:



PNC Firstside Center
Pittsburgh, PA
L.D. Astorino, Architects
Uses AAC SolarTrac System
Silver LEED Rating



SABRE Corporate Campus
Southland, TX
HKS, Inc., Architects
Uses AAC SolarTrac System
Silver LEED Rating.



American Honda Company
Gresham, OR
NorthWest Regional Facility
MacKenzie Group, Architects
Gold LEED Rating



Department of Environmental Protection
South Central Regional Office Building
Harrisburg, PA
Kostecy Group, Architects
Certified LEED Rating

The William and Flora Hewlett Foundation
Menlo Park, CA
B.H. Bocook, Inc./Hawley Peterson & Snyder, Architects
Gold Rating

Capitol Area East End Complex
Sacramento, CA
Johnson Fain Partners, Architect
Gold Rating

Pharmacia Building Q
Skokie, IL
Flad and Associates, Architect
Gold Rating

Mechoshade/Sustainable Design Projects



Herman Miller
Holland, MI
William McDonough and Partners, Architect



GAP Headquarters
San Francisco, CA
William McDonough and Partners, Architects
Uses AAC SolarTrac System



Hoffman LaRoche Inc.
Nutley, NJ
The Hillier Group



Nature Conservancy
New Headquarters Building
Arlington, VA
HOK, Architects

For more information on MechoShades, Sustainable Design and LEED Certification, go to: www.fraser shading.com



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