LEED® v4 New Construction
Core and Shell, Schools, and Healthcare

Category and Credit	Potential Points	MechoSystems Contribution
Integrative Process Beginning in pre-design and continuing throughout the design phases, identify and use opportunities to achieve synergies across the disciplines and building systems including shading, glazing, lighting levels, and thermal-comfort ranges.	NC, CS, S: 1 HC: 1–5	MechoSystems can develop an input file for the MEP that will cost-effectively add shade automation to the building's modeling program, saving time needed for the MEP to include automated shade control.
Energy and Atmosphere Optimize Energy Performance Establish an energy performance target no later than the schematic design phase. Must establish target as KBTU/sq. ft.-year (KW/sq. m-year) of the source energy use.	NC, CS: 1–18 S: 1–16 HC: 1–20	MechoSystems' SolarTrac® and SunDialer® Systems are designed to automatically adjust shade-band positions incrementally, according to real-time microclimatic sky conditions. Automatically controlled interior shading devices and daylight-responsive lighting-control systems can be modeled for credit in the Proposed Design per ASHRAE Standard 90.1, Appendix G.
Materials and Resources Building Product Disclosure and Optimization—Material Ingredients Option 1: Material Ingredient Reporting Option 2: Material Ingredient Optimization	NC, CS, S, HC: 1–2, EP	Many MechoSystems shadecloths products comply with Option 1 by meeting the requirements of one or more of the following material transparency standards or certifications: • C2C Certified™ or Material Health Certification (MHC) • Health Product Declaration (HPD) • Declare™ Label The Mecho®/5 and manual UrbanShade® systems with EcoVeil®, EcoVeil Sheer™, and AcoustiVeil™ are C2C Certified v3.1 Bronze. Chelsea Blackout meets Option 2: C2C MHC Silver.
Materials and Resources Furniture and Medical Furnishings Enhance the environmental and human health performance attributes associated with freestanding furniture and medical furnishings.	HC: N	A selection of shadecloths and shading systems contribute to this credit. Please contact Rachel Berman, Sustainability Program Manager, at rachel.berman@mechosystems.com for compliance documents.
Indoor Environmental Quality Thermal Comfort Promote occupants' productivity, comfort, and wellbeing by providing thermal-comfort design and thermal-comfort control.	NC, CS, S, HC: 1	Manual, motorized, and automated shading systems with override capabilities allow occupants to deploy appropriate shade-band heights to help reduce radiant temperature.
Indoor Environmental Quality Daylight Connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight into the space. Provide manual or automatic (with manual override) glare-control devices for all regularly occupied spaces.	NC, CS, S: 1–3 HC: 1–2	Manual and automated shading can be used for this credit. Automated shading systems by MechoSystems including SolarTrac and Sundialer, are designed to automatically adjust shade-band positions incrementally according to real-time microclimatic sky conditions. Per a January 27, 2017, addendum, spaces with dynamic facade systems, or spaces smaller than 250 sq. ft. (23 m²) are exempt from the ASE requirement.
Indoor Environmental Quality Daylight A direct line of sight to the outdoors is achieved via vision glazing for 75% of all regularly occupied floors of a building.	NC, CS, S: 1, EP HC: 1–2, EP	Automated shades are programmed to maximize vision glazing for occupants. The SolarTrac System lowers shades only to protect occupants from uncomfortable glare and solar-heat gain. This ensures occupants consistently achieve a direct line of sight to the outdoor environment.

NC = New Construction   S = Schools
HC = Healthcare   EP = Exemplary Performance Available
CS = Core and Shell

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SolarTrac® and SunDialer®

These systems are designed to automatically adjust shade-band positions incrementally, according to real-time microclimatic sky conditions. Both maximize daylighting opportunities while maintaining views to the outside and reducing the heat load on the building envelope. They adjust shade-band positions to provide significant reductions in energy-peak demands over the building's life.

SolarTrac is ideal for large-scale applications, while SunDialer is appropriate for smaller and retrofitted projects.
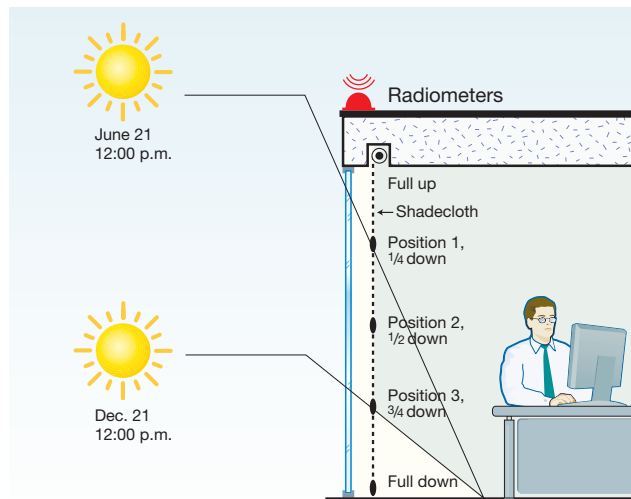
MechoAutomation

An automated-shading and lighting-control system ensures that electrical-lighting is as energy efficient as possible. A complete lighting-control system operates in response to SolarTrac to set appropriate electrical-lighting levels for each zone in a building through modeling strategies, override controls, and lighting sensors. For additional energy-saving design strategies, consult your local MechoSystems representative.

EcoVeil®

This shadecloth is the first environmentally certified product of its kind. It is PVC-free, reclaimable, fully recyclable, UV-resistant, and Cradle to Cradle Certified v3.1 Bronze.

EcoVeil Sheer®

This 100% polyester shadecloth is woven with individually pigmented yarns. Inherently flame retardant, this distinctive twill is the first shadecloth to pass NFPA 701® without chemical flame retardants.

ThermoVeil®, EuroTwill®, EuroVeil®, EcoVeil, and EcoVeil Sheer shadecloths are GREENGUARD Gold certified. Chelsea and Classic Blackout.

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