



Architectural and High-Performance Louvers, Grilles, Screens, Sun Controls

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Exacting Detail. Custom Design.



Airolite's architectural sun control program has been carefully crafted with the design professional in mind. Our sun control products includes an in-house assortment of blade profiles, fascia and outriggers. Better still, share your ideas with our team of sun control experts to create a stunning presence that maximizes light and shading for "The look that works."

Horizontal, vertical and inclined configurations may be used to filter up to 80% of the sun's heat and glare, cut wintertime radiant heat loss and integrate natural light into atriums, walkways, skylights, reception areas and work spaces.



Yahoo Corporate Headquarters Sunnyvale, CA RMW Architecture & Design



Airolite's architectural sun control products are an ideal solution for reducing total energy loads and additional investments in mechanical HVAC equipment. Shading and daylighting are applied in building applications to:

- Augment interior light levels to reduce or eliminate perimeter lighting
- Benefit from a virtual maintenance-free passive shading system
- Decrease energy usage and costs
- Enhance occupant comfort, satisfaction, productivity and learning

- Integrate solar input during heating seasons
- Lower heat transfer during cooling seasons
- Reduce unwanted solar gain
- Regulate glare and contrast without diminishing views

Airolite's expertise is second to none; with our vast experience in sunshade system design and manufacturing, supported by our professional field representation network and fully staffed internal resources, we've got you covered. Airolite is available to assist in the design of cost-effective solutions. From concept to finished product, Airolite provides "The look that works."







Koll Airport Professional Center

The renovated Koll Airport Professional Center in Irvine, California, received a LEED Silver Certificate in 2009 from the U.S. Green Building Council for Core and Shell. The building is considered one of the nation's very first LEED-certified office condominiums. To unify the two new buildings, and to maximize natural lighting, a dramatic canopy of 48 Airolite aluminum sun controls was designed and suspended over an employee plaza between the two wings.

The sun controls were finished in clear anodize to reflect light into the offices and creating interesting patterns of sunlight and shade for employees and visitors who enjoy the outdoor plaza area during the day. The sun controls are particularly dramatic in the evening when they emit a soft orange glow from exterior security lighting and the renowned California sunset.



Koll Airport Professional Center Irvine, CA LPA, Inc.





San Mateo, CA

Leddy Maytum Stacy Architects

The Nueva School

The Nueva School campus in San Mateo, California, opened in 2014 as a nontraditional approach to secondary education. The campus achieved LEED Gold certification, meeting its goal of using up to 65% less energy. Airolite custom sun control products assisted in helping the school achieve its LEED certification. The sun control products for the Nueva School all were custom designed and included origami-shaped sunscreens for smaller windows and sunshades having dimensions up to 25' 4" wide by 27' 4". A critical requirement for the large sun shades was the ease of installation. The design of all Airolite products emphasizes an easy installation. However, labor for field installation was a concern, so Airolite provided additional engineering to the large sunshade design. Working with contractors, Airolite engineers developed a plan to build and deliver the large sun shades in several sections instead of assembling individual pieces on-site. This planning resulted in field labor savings of more than 50%. Airolite offers custom solutions regardless of the size of the product required.



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ESD Architecture

First Federal Financial Center

The signature feature noted as one approaches the contemporary three-story First Federal building is the prominent span of non-linear Airolite sun controls that project more than five feet from each of two upper floor levels. Adjacent walls feature sleek, linear Airolite sun control configurations with mitered corners that yield continuous, uninterrupted sight and shadow lines.

While the attractive Airolite sun controls contribute substantially to the building's sleek contemporary appearance, they also serve several other critically important functions. Intense sun, high temperatures and severe humidity from March through September are typical of Myrtle Beach, South Carolina. The sun controls, installed above the curtain wall and windows on the south-facing facade, provide critical shading from the sun's intensity. This shading helps mitigate energy transfer as well as manage glare in interior workspaces.







Mammoet USA South, Inc.

Formed in 1987, Mammoet USA Inc. offers fullservice handling of heavy-lift cargo and specializes in the transport and placement of heavy equipment for power plants, refineries, chemical plants, bridges, and many offshore projects. Mammoet USA Inc.'s new headquarters features an "expressed" design that celebrates the company's Homeric roles by emphasizing structural and metallic elements in the building envelope.

The canted window orientation and customengineered exterior Airolite sun controls yield solar shading and manage glare imposed by the intense Texas sun. The sleek sun control profiles further serve to break up the stark metal and glass walls to lend scale and detail to the facade. The building was designed to LEED standards, but certification was not pursued.



Mammoet USA South, Inc. Rosharon, TX Philo Wilke Partnership







Sun Control Model	Blade Type	Blade Material	Blade Material Thickness	Blade Widths	Outrigger Material	Outrigger Material Thickness	Standard Fascia	Method of Construction
ASC4	Airfoil	Extruded Aluminum	0.081″	4″	Aluminum Plate	< 0.250"	3" Round Tube	
ASC6	Airfoil	Extruded Aluminum	0.081″	6″	Aluminum Plate	< 0.250"	4" Round Tube	Mechanically
ASC8	Airfoil	Extruded Aluminum	0.081″	8″	Aluminum Plate	< 0.250"	8" Rectangular Tube	Fastened, Welded
FSC4	Fan	Extruded Aluminum	0.081″	4″	Aluminum Plate	< 0.250"	3" Round Tube	Optional
FSC6	Fan	Extruded Aluminum	0.081″	6″	Aluminum Plate	<0.250"	4" Round Tube	

* Information in table is representative of details above.



Standard Sun Controls









Sun Control Model	Blade Type	Blade Material	Blade Material Thickness	Blade Widths	Outrigger Material	Outrigger Material Thickness	Standard Fascia	Method of Construction
TSC4	Rectangular Tube	Extruded Aluminum	0.125″	4″	Aluminum Plate	< 0.250"	4" Round Tube	Mechanically Fastened, Welded Optional
TSC6	Rectangular Tube	Extruded Aluminum	0.125″	6″	Aluminum Plate	< 0.250"	6" Rectangular Tube	
TSC8	Rectangular Tube	Extruded Aluminum	0.125″	8″	Aluminum Plate	< 0.250"	8" Rectangular Tube	
ZSC4	Zee Louver	Extruded Aluminum	0.125″	4″	Aluminum Plate	< 0.250"	4" Round Tube	

* Information in table is representative of details above.



Sun Control Components

Blades, Fascia and Outriggers

Alter the leading-edge blade configuration to serve as a trim or fascia member. Integrate the optional extruded aluminum fascia components into the design to maintain visual continuity or provide a dramatic contrast to adjacent elements. Hollow airfoil, round and tube blade configurations are recommended for larger spans.





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Representative Sun Control Installation Details

Steel Construction Through Brick







Vertical Steel Construction Through Steel Siding



Concrete Through Wall



Finishes and Colors

Your vision becomes a reality when you can choose from 33 standard fluoropolymer colors, seven standard anodize colors and limitless custom color options using Airolite's **Color by Choice**[™] custom color program. Our knowledgeable, in-house color and finish experts listen carefully to your ideas and will work to achieve your goal.



BAKED ENAMEL: Louvers shall be cleaned, pretreated and FINISHED-AFTER-ASSEMBLY with an oven-cured thermosetting baked enamel finish that meets or exceeds the performance requirements of AAMA 2603, "Voluntary Specification Performance Requirements and Test Procedures for Pigmented Organic Coatings."

2-COAT FLUOROPOLYMER: Louvers shall be cleaned, pretreated and FINISHED-AFTER-ASSEMBLY with an inhibitive primer and oven-cured Kynar 500[®] / Hylar 5000[®] resin coating with minimum 1.2 mils dry-film coating thickness that meets or exceeds the performance requirements of AAMA 2605, "Voluntary Specification, Performance Requirements and Test Procedures for Superior Performance Organic Coatings on Aluminum Extrusions and Panels."

3-COAT FLUOROPOLYMER: Louvers shall be cleaned, pretreated and FINISHED-AFTER-ASSEMBLY with an inhibitive primer and oven-cured Kynar 500[®] / Hylar 5000[®] resin coating with minimum 2.0 mils dry-film coating thickness that meets or exceeds the performance requirements of AAMA 2605, "Voluntary Specification, Performance Requirements and Test Procedures for Superior Performance Organic Coatings on Aluminum Extrusions and Panels."

100% FLUOROPOLYMER (FEVE) SINGLE COAT: Louvers shall be FINISHED-AFTER-ASSEMBLY with a single-coat fluoropolymer finish containing 100 percent fluorinated ethylene vinyl ether (FEVE) resin, which meets or exceeds the performance requirements of AAMA 2605, "Voluntary Specification, Performance Requirements and Test Procedures for Superior Performance Organic Coatings on Aluminum Extrusions and Panels."

Finishes meet or exceed AAMA 2605, AAMA 2604, and AAMA 2603 requirements. Please consult the factory for complete information on standard and extended paint warranties. * Reference the Airolite Finishes and Colors brochure for more information.

Front Cover: First Financial Center, Myrtle Beach, SC



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