



Sun Controls

Fixed & Operating
Sunshades

*See our
new Solarmotion™
Sunshades
pg. 4*



Say goodbye to heat gain and solar glare forever. Introducing C/S Solarmotion™

USGBC LEED® Credits 2009 Edition, Version 3

(Energy and Atmosphere Section)
Improve building performance beyond
baseline in ASHRAE/IESNA Standard 90.1.

12% improvement	1 point
24% improvement	7 points
36% improvement	13 points
48% improvement	19 points
Energy & Atmosphere	35 points
IEQ Credit 8.1 Daylight & Views: Daylight 75% of Spaces	
IEQ Credit 8.2 Daylight & Views: Daylight* 90% of Spaces	

**Achieve a minimum Daylight Factor of 2%
(excluding all direct sunlight penetration) in
75% of all space occupied for critical visual tasks.*

Commercial buildings consume 39% of the energy and 74% of the electricity generated from oil, gas, nuclear and coal fired plants, which adversely impacts the environment. Fossil based power generation releases CO2 which contributes to global climate change, and coal fired stations create acid rain!

That's why the USGBC's LEED® program encourages architects to build sustainable buildings that save energy. Buildings that let

natural light in, keep heat out, and allow occupants to look out their windows. By using C/S Sun Controls, architects can accomplish all of these goals and **gain a significant amount of points toward LEED® Certification** in the Energy and Atmosphere section.

For more than fifty years C/S has helped architects realize the aesthetic and functional benefits of using sun controls on their buildings. **C/S Sun controls not only reduce heat and glare,**



they can save the owner major reductions on their building's skin load air conditioning requirement and in lighting energy usage. And several studies show that buildings employing daylight management systems increase worker productivity, lower absenteeism, and improve educational performance. **And our new Solarmotion line of Controllable Sunshades that intelligently reacts to the sun to reduce energy costs even further.** For details, call (800) 631-7379.



MBDC Cradle to Cradle Silver Certification

C/S Suspended, Cantilevered, Horizontal, Vertical, Shadowline™ and Perform™ sunshades are now MBDC Cradle to Cradle Silver Certified.



Houston Community College
Architect: HOK

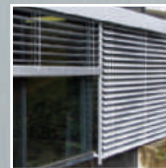
C/S offers many ways to control the sun

New Controllable Sunshades



Moves with the sun to reduce heat, glare and energy usage.

New External Venetian Blinds



Reduces heat and glare inside the office. Individually controllable.

Cantilevered & Suspended Sunshades



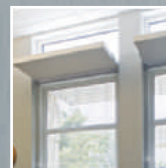
Effective sun control with a variety of blade, outrigger and fascia styles.

Vertical Fixed Sunshades



The most effective exterior sunshade for east and west elevations. Select from dozens of blade styles.

Lightshelves



Reduce energy costs by bringing daylight deeper into the buildings interior.

Skylight Shutters



Allows diffused light into buildings while it reduces solar heat gain.

C/S Solarmotion™ Controllable Sunshades

Solarmotion creates a dynamic facade and is the most effective way to reduce energy consumption and maximize occupant comfort.

Here's how it works

C/S Solarmotion controllable sunshade system tracks the sun to maximize the control of light and heat entering the building's interior. By effectively controlling the sun on all elevations, at all times of the day and throughout the year, Solarmotion can significantly reduce a building's energy and capital equipment costs. Solarmotion sunshades prevent over or under shading so building occupants can always enjoy the benefits of natural daylight. Perfect for all sustainable buildings, *Solarmotion can help architects gain significant LEED® credits.*

Total design freedom

With Solarmotion your building can look exactly the way you want your exterior to look. Whether you prefer a horizontal or vertical system, C/S can offer dozens of mullion, blade and finish options, or we can supply you with a complete custom system.

A 25 year track record

C/S Operating Sun Controls have been hard at work reducing energy costs on numerous buildings worldwide since 1985. And most of our operating systems are still in service reducing heat, glare and energy costs. C/S Operating Sun

Controls were installed in 1997 over the gallery skylights of the J. Paul Getty Art Museum to provide filtered sunlight to each of the galleries and to prevent the sun's U.V. rays from damaging valuable artwork.

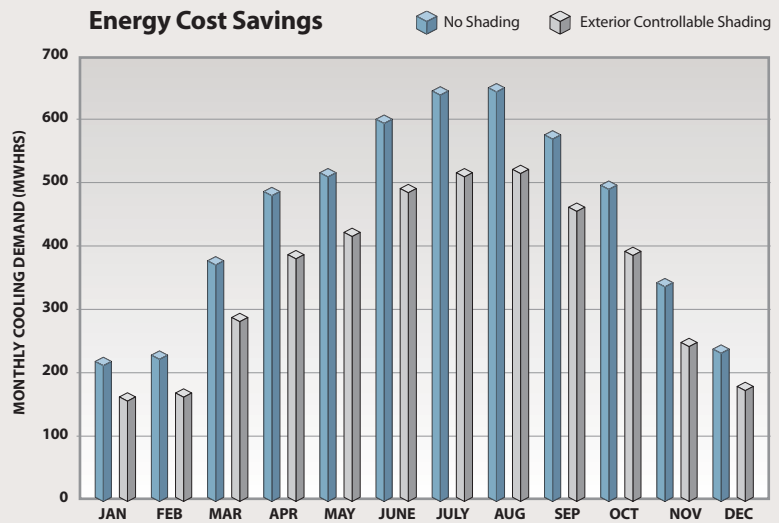




Throughout the day, Solarmotion gradually adjusts to the precise angle of the sun. Our system even takes atmospheric conditions into account.

Independent Energy Study Substantiates the Results

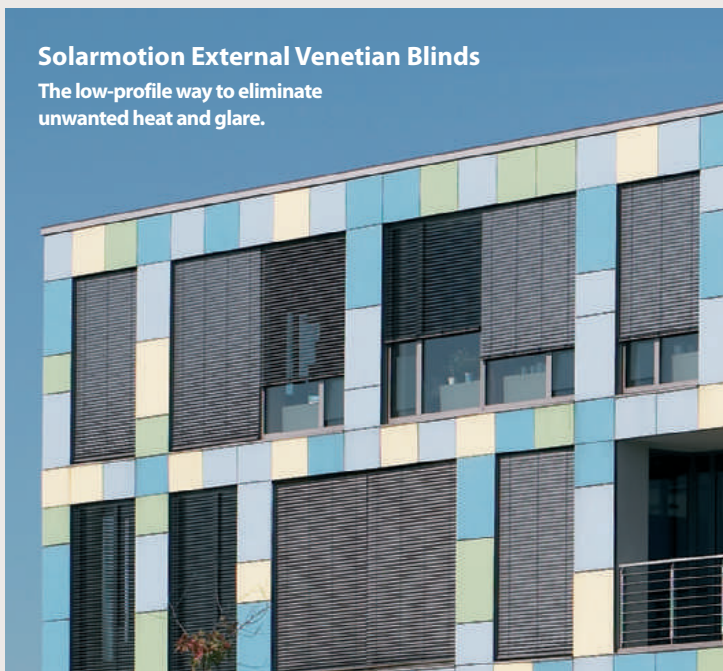
C/S hired an independent engineering firm to model the energy and capital cost savings that an owner would achieve by using C/S Controllable Sunshades on a ten story building in Dallas and four other cities throughout the U.S. and Canada. The test building's facade includes standard double glazed low-E glass on all elevations. The results of the computer model in the chart below show the energy usage/savings with and without C/S Controllable Sunshades. The engineering firm utilized a recognized building modeling program.



The C/S external controllable solar shading system substantially reduces both the capital cost of plant and the associated running costs for air conditioning. A 21.1% reduction in the annual cooling energy demand (MWhrs) is achieved which translates into a savings of \$137,160 per annum.

Solarmotion External Venetian Blinds

The low-profile way to eliminate unwanted heat and glare.



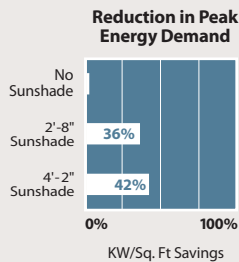
C/S Fixed Sunshades

A U.S. Department of Energy study proves that C/S Sun Controls do a lot more than look great.

Worker Comfort



When architects look for custom solutions to control the sun they look to C/S. Our fixed sunshade systems not only look great on buildings, but according to a recent AMCA study in conjunction with the Department of Energy they reduce direct solar gain through windows and allow designers to use less costly glazing. See charts on this page



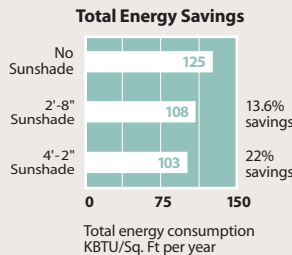
for energy savings and reduction in peak demand.

Limitless Collection of Styles and Materials

Whether you specify a Cantilevered, Suspended, Vertical or Horizontal fixed sunshade, C/S can provide you with the industry's widest variety of blade, outrigger and fascia styles. C/S will help you select the system that's most effective for your building's location and orientation.

For Masonry and Curtain Wall Buildings

All C/S fixed sun control systems can be mounted on masonry and curtain wall structures. And unlike curtain wall companies that provide 3' deep sunshades, C/S Sun Controls are offered in 5' depths to provide effective shading.



For a complete catalog, call 800-631-7379 or visit www.c-sgroup.com

Arizona State University, Tempe, AZ; Perkins + Will, Chicago, IL





Cantilevered & Suspended
*Children's Medical Services, University of South
Florida; Alfonso Architects*



Horizontal Sunshades
*University of California Davis Performing
Arts Center; BOORA Architects, Inc.*



Vertical Sunshades
Kansas City Convention Center; HNTB





Construction Specialties™

49 Meeker Avenue, Cranford, New Jersey 07016 U.S.A., 908-272-5200
895 Lakefront Promenade, Mississauga, Ontario L5E 2C2 Canada, 905-274-3611
► www.c-sgroup.com



The C/S Family of Products

For 60 years, Construction Specialties has been a leader in architectural specialty products, including: Acrovyn® Wall and Door Protection, Pedisystems® Entrance Flooring, Expansion Joint Covers, Cubicle Track and Curtains, Smoke and Explosion Venting Systems, Architectural Grilles, Architectural Louvers and Sun Controls.

We have operations throughout the world and can provide C/S Products virtually anywhere. For a complete list of our international locations, visit www.c-sgroup.com.

For the nearest C/S representative, or literature and samples, call toll free 800-631-7379 in U.S.A. and 888-895-8955 in Canada, or visit www.c-sgroup.com

©Copyright 2009 Construction Specialties, Inc.

Construction Specialties, Inc. reserves the right to make design changes or to withdraw any design without notice. Printed in U.S.A. Series 10