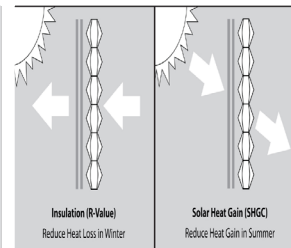
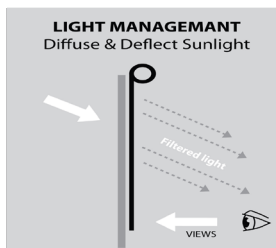
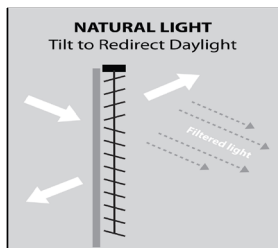


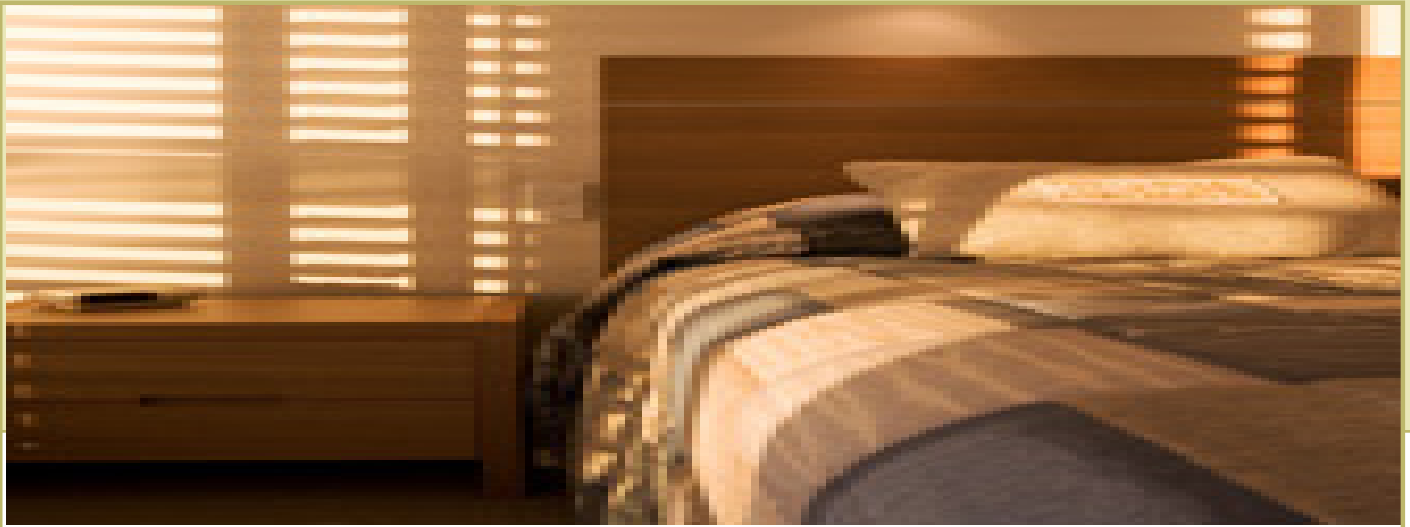
EDUCATION BROCHURE



MAG Resources, LLC

Barberton, OH 44203

P: 330.294.0494 / F: 330.294.4121



When designing and constructing a building, there are various strategies that are implemented in an effort to make the building more efficient and make for a more healthy, productive, and inviting space. Window treatments can help address these issues in a cost-effective and practical way. Not only can a quality manual or motorized treatment make for a more beautiful space, but it can also save you money, energy and optimize the available natural light to work in your favor.

SHADING STRATEGY

By keeping the following points in mind throughout the design process, you can save a great amount of energy, which equals a great savings.

A. MANAGEMENT OF THERMAL GAIN

Manage heat generated by the sun. Keep shades or blinds open when cold, and closed when hot.

B. DAYLIGHTING

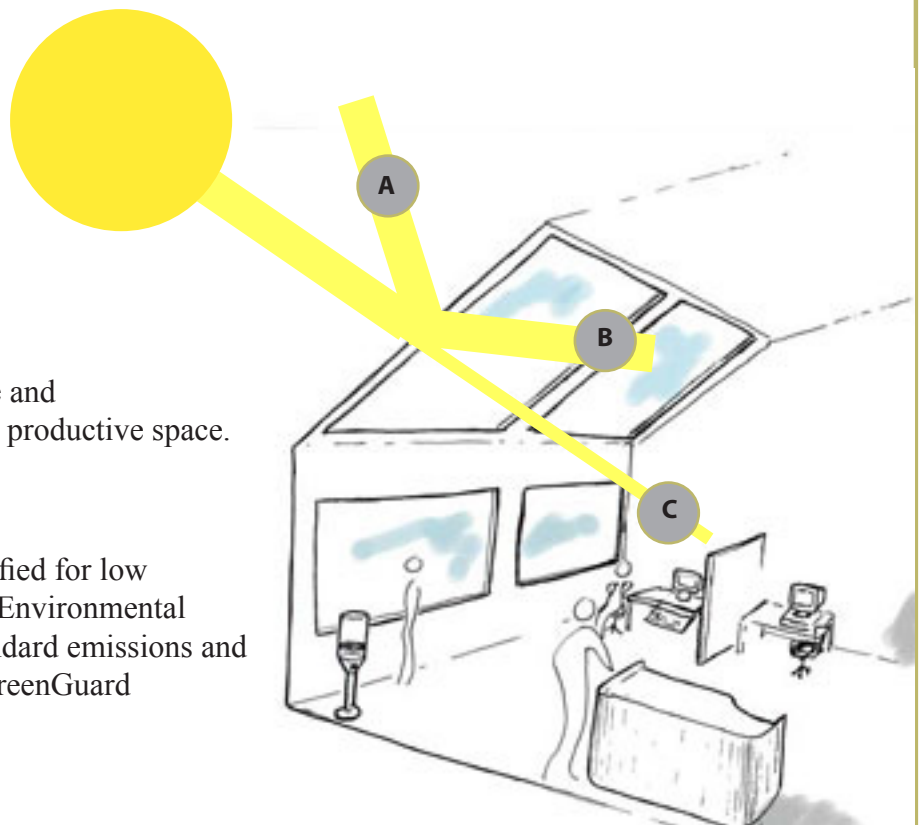
Manage and optimize natural day light, reducing dependency on artificial lighting and energy use of HVAC unit.

C. GLARE CONTROL

Filter light and eliminate glare and reflections, making for a more productive space.

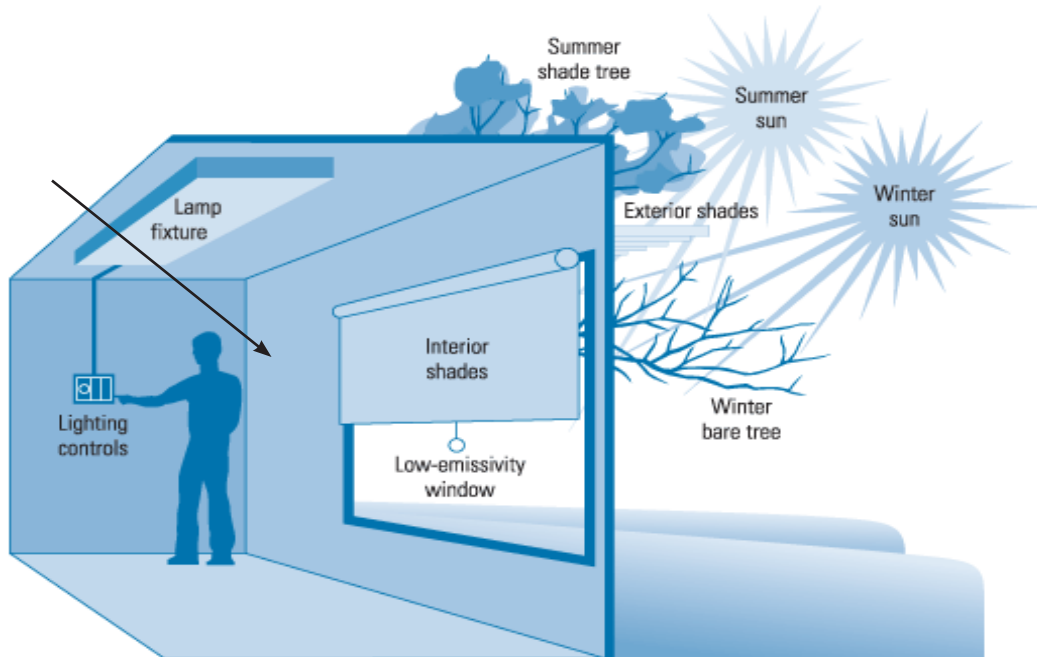
D. INDOOR AIR QUALITY

Many of our products are certified for low emissions by the GreenGuard Environmental Institute and pass both the standard emissions and the stricter requirements for GreenGuard Children & Schools.



Optimizing Natural Light

Make Mother Nature work for you, not against you...



LIGHT

- Adequate light
- Natural light instead of artificial
- Diffused light for visual comfort
- Reduced need for electrical lighting

TEMPERATURE

- Allow solar heat when cold
- Block solar heat when hot
- Increased energy efficiency

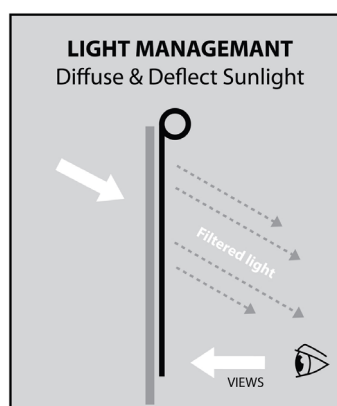
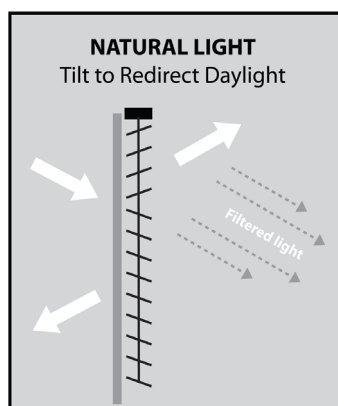
INTERIOR COMFORT

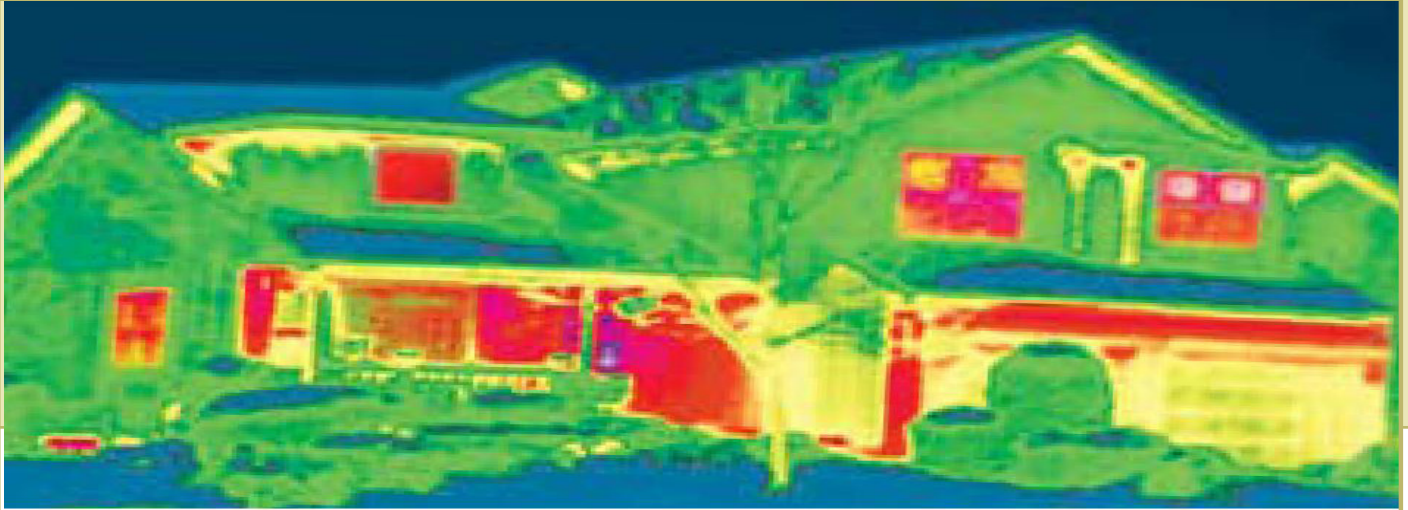
- Preserve views outside
- Maintain good air quality
- Prevent glare and reflections

ENHANCED PRODUCTIVITY

Not only does a good shading strategy equal good savings, it also enhances performance and mood.

Research shows that people prefer to work in natural daylight and maintain visual contact with the outdoors. Real value is attached to knowing what the weather is like and what's happening outside and this in turn contributes to a sense of wellbeing and an increase in productivity. Studies also show that students that have access to natural light and direct views of the outdoors, typically retain more of what they learn, on average about 21% more. By eliminating all distractions such as glares, reflections off of walls, desks and computers, a student is in a much more learning friendly environment. A well designed shading solution can significantly enhance the comfort and well-being of a buildings occupants.





Energy-efficient window coverings translate into year-round savings on heating and cooling costs. The windows in your home truly are “energy holes.” Over 75% of unwanted heat transfer in your home is through the windows, which accounts for up to 25% of your monthly heating bill. By using the right window treatments, you can essentially insulate your windows and keep your HVAC unit from over working itself. A quality shading solution can generate savings that can reach 50% or more and in sun-belt areas shading systems can pay for themselves in as little as three years.

ENERGY SAVINGS

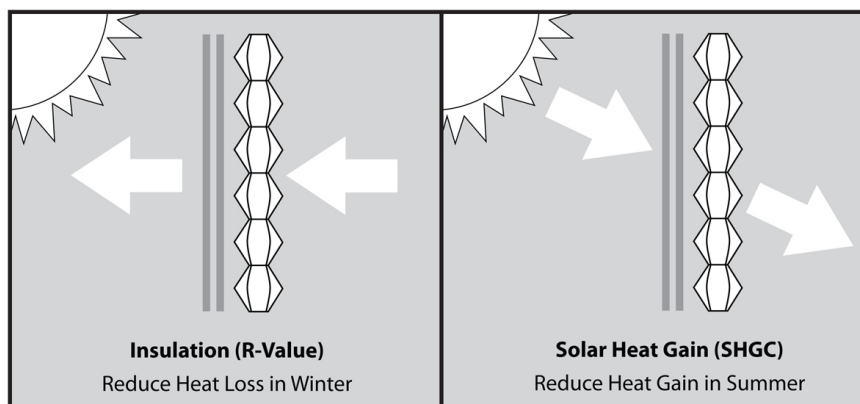
A custom window treatment acts as a great insulator for windows, which are the number one source of energy loss.

WINTER: R-VALUE

A products “R-Value” is a measurement of its ability to resist heat flow. During the winter season, the R-Value is a reflectance of the ability to keep heat inside. The higher the R-Value, the more insulation that given product provides.

SUMMER: SOLAR HEAT GAIN COEFFICIENT (SHGC)

A products “solar heat gain coefficient” is a measurement of its ability to reduce heat gain from the sun. In terms of windows, it is the fraction of solar energy striking a window that actually passes through to heat the room. The lower a SHGC, the less solar energy it transmits. A SHGC is typically displayed as a decimal i.e. .76 This is saying that 76% of the solar energy will pass through.



Energy Saving Lines

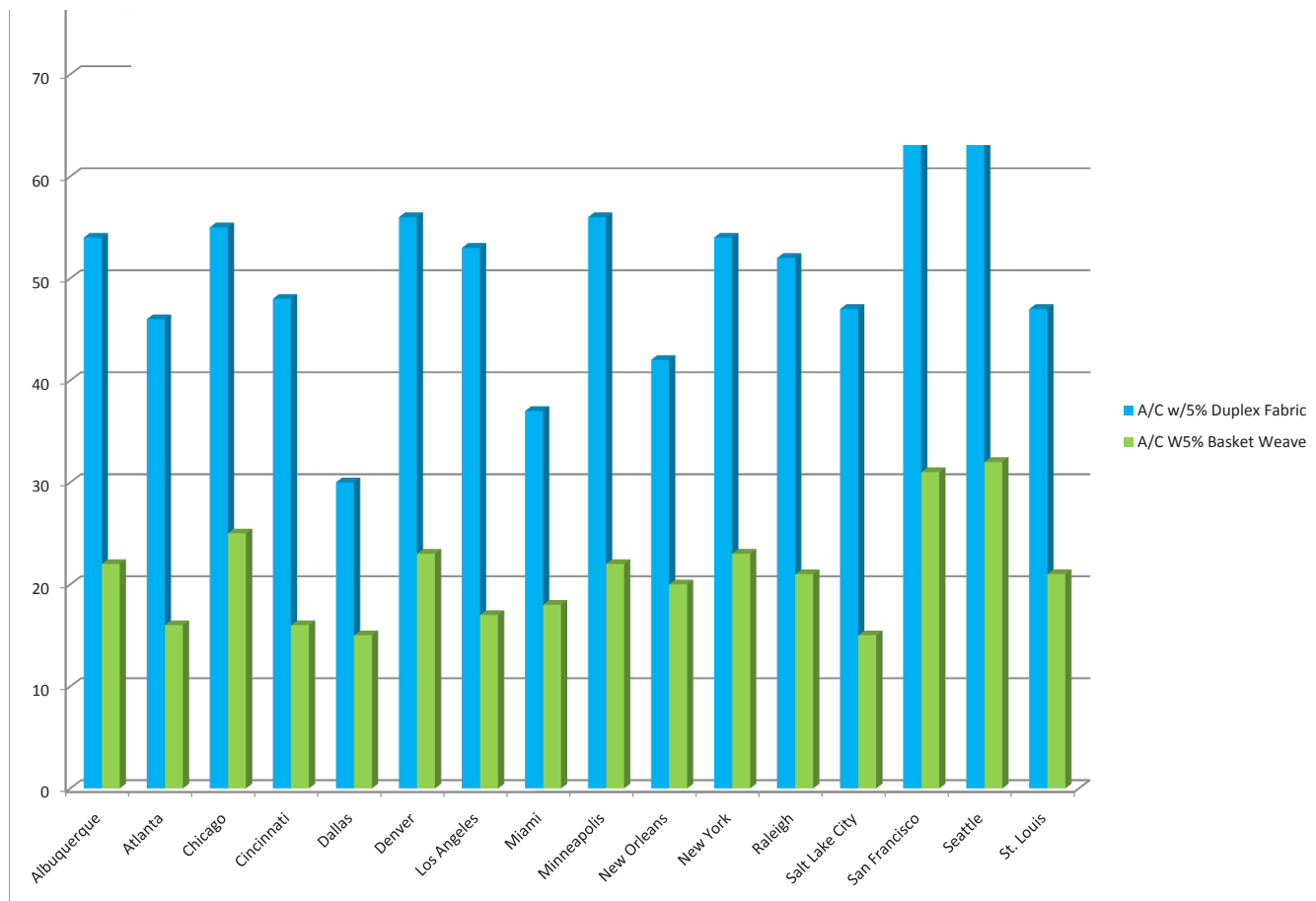
Energy efficient, money saving products...

Line	Winter R Value	SHGC	%UV Blockage
Roller Shades	2.08	.33	85-100
Faux Wood Blinds	3.94	.31	99
Wood Blinds	3.94	.29	99

By increasing your homes energy efficiency, you may also be qualifying yourself for an energy efficiency mortgage, which allows lenders to use a higher than normal debt to income ratio to calculate loan potential. In addition, your home will likely have a higher resale value.

Energy Conservation Chart

Energy savings that make a difference...



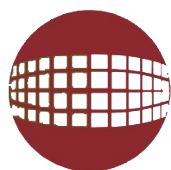
Fabric: 5% Basket Weave fabric is dark color. 5% Duplex fabric is dark on one side, light on the other.

Solar Shading: The horizon is presumed to be at a vertical level of 5 degrees. No other obstacles or buildings are taken into account.

Ventilation: The landscape office is ventilated with external air through the whole year. The air change rate is a constant of 1 Volume/hour.

Calculation period: One full year.

Base orientation: Average of North, South, East and West.



MAG Resources

90 16th St. S.W.
Barberton, OH 44203
P: 330.294.0494 F: 330.294.4121
www.magresources.net