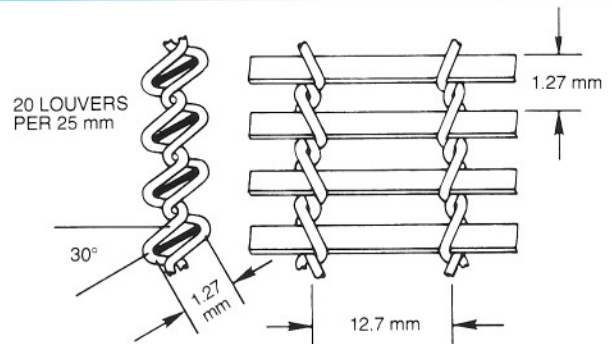
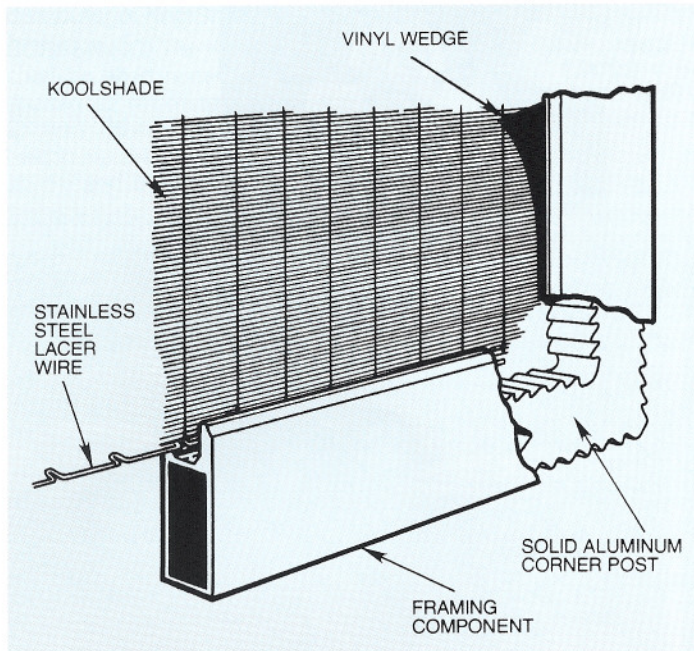




*KoolShade is a miniature louver system woven from bronze wires and configured into a mesh that has been scientifically designed to provide maximum outward view while optimally blocking the harmful effect of the sun's harsh direct rays. KoolShade minimizes the direct solar heat gain while it allows comfortable, diffuse light to enter the room.*

## CONSTRUCTION



KoolShade Solar Screens are constructed by fabricating the woven bronze louver cloth into specially designed aluminum extrusions which are manufactured to exacting standards. The KoolShade cloth is held in place within the horizontal framing sections by means of a custom-designed stainless steel lacer wire. A solid aluminum corner key is inserted and concealed at each corner of the perimeter frame for support and rigidity. As the KoolShade unit is assembled, the vertical sections of the frame are used to manipulate the tautness of the woven bronze louvers. Finally, a vinyl wedge is pressed into the inner edges of the vertical frames to totally secure the cloth within the extruded frame. This entire fabrication process has been developed to provide a product which has been known to withstand the elements for 30-plus years.

## ADVANTAGES

KoolShade Solar Screens provide 100% shade to windows at sun altitudes of 27 degrees or greater when they are installed in close proximity to and outside the window in a vertical plane.

Building appearance is improved when KoolShade is installed at the exterior of the windows. The woven louvered mesh provides a uniform look to windows with blinds or shades drawn to differing levels.

From a design standpoint, KoolShade will help to even out temperatures throughout the perimeter areas of the building. Since KoolShade is not adjustable, the engineer can confidently design a cooling load that will not fluctuate as greatly as buildings which have adjustable shading devices.

**REDUCTION IN HEAT GAIN:** KoolShade Solar Screens reduce annual solar heat gain through the fenestration areas by 85%.

**TEMPERATURE REDUCTION:** KoolShade Solar Screens typically reduce temperatures directly behind sun-exposed glass by 15 degrees or more.

**BRIGHTNESS RATIOS:** KoolShade will control excessive brightness and sky glare at the fenestration so that acceptable brightness ratios can be maintained as recommended by the Illuminating Engineering Society.

**REDUCTION IN HEAT LOSS:** KoolShade reduces heat loss through 1/4" clear plate glass at night under winter design conditions by a minimum of 15%.

**WIND RESISTANCE:** KoolShade offers wind resistance at no more than 24.41 kg/M<sup>2</sup> (5 lbs. per sq. ft.) at wind velocities of 60 miles per hour through the screen.

## ENVIRONMENTAL

KoolShade Solar Screens negate the effect of excessively harsh, cancer-causing solar rays which have been intensified by the depleting ozone layer of the earth's atmosphere. When you conserve energy by installing KoolShade, operating time of your HVAC system is reduced, peak demand is reduced, and thermostats can be raised several degrees. The result is that less electricity needs to be produced.

KoolShade woven bronze louver cloth is manufactured from bronze alloy which is 85% recycled. Aluminum framing and track systems used with KoolShade are 35% recycled aluminum. KoolShade cloth, frames and tracks are 100% recyclable.

