

Ingersoll Koolshade Storm-Shade Division Borg-Warner Corporation

321 S. Plymouth Court, Chicago 4, Ill.

Ingersoll's Koolshade* sunscreen is a bronze miniature venetian blind with fixed horizontal bars set at an angle which will keep the greatest possible amount of solar heat load outside of windows.

By reflecting, absorbing, and radiating most of the sun's heat rays outside the window, Koolshade keeps rooms up to 15° cooler and has been shown to account for as much as 75% of the cooling necessary in air conditioning installations. 100 sq ft of Koolshade is equal to 1 ton of refrigeration and costs $\frac{1}{2}$ to $\frac{1}{2}$ as much.

Koolshade provides insect protection equal to ordinary insect screen.

Koolshade is framed and applied to windows like ordinary insect screens. Ingersoll distributors can apply Koolshade in patented Koolshade aluminum frames, in Koolshade Quik-on frames which have only top and bottom frame rails held apart in tension by installation hardware or in wood or metal frames.

Ingersoll's Sungard* economy sunscreen stamped from aluminum sheet, is intended for industrial applications and performs the same heat load reducing function as Koolshade at lower cost. Sungard is not insect proof.

Sungard is framed and applied by Ingersoll Distributors like Koolshade.

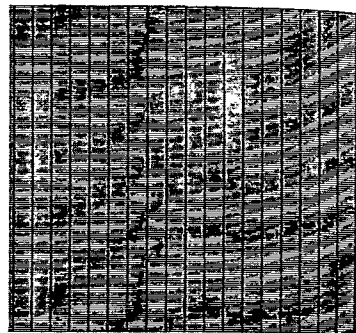
Here is an example of cooling load reduction based on conditions prevailing at peak solar load at 40° latitude:

We have 16 windows on East side of building—each window 4 ft x 6 ft for a total of 384 sq ft of window area. Use 10 a.m. Peak Load:

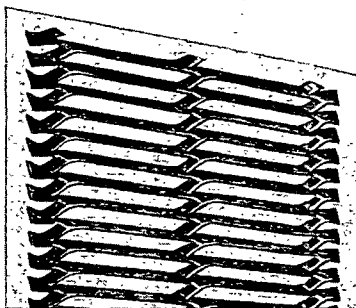
Solar load transmitted through bare windows 116 Btu x 384 sq ft	44,544
Solar load transmitted through KOOLSHADE 11.5 Btu x 384 sq ft	4,416

Amount of Solar Heat stopped by KOOLSHADE 40,128
Expressed in tons of refrigeration (12,000 Btu's—1 Ton) 3.3444
Heat stoppage equals Tons 3.3444
Follow same procedure for 15 West Windows 4 ft x 6 ft—total square footage 360 sq ft—and using 3 p.m. Peak Load:

Solar Load through Bare Windows 61,200



Ingersoll Koolshade



Ingersoll Sungard

Solar Load through KOOLSHADE	7,920
Reduction	53,280
	in Tons 4.440
South windows consist of 7—4 ft x 6 ft and 2—3 ft x 6 ft for total square footage of 204 sq ft—Figuring on 12:00 noon Peak Load:	
Solar Load through Bare Windows	15,096
Solar Load through KOOLSHADE	1,224
Reduction	13,872
	in Tons 1.156
Total tons of refrigeration saved	8.9404

Write to Ingersoll Koolshade, Storm-Shade Division, Borg-Warner Corporation, Dept. V for Technical Information.

* Example based on test data from ASHVE GUIDE, 1940.
Koolshade and Sungard are trademarks (Reg. U.S. Pat. Off.). They are the property of the Ingersoll Steel Division, Borg-Warner Corp.

Kaiser Aluminum & Chemical Sales, Inc.

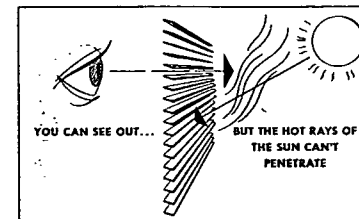
1924 Broadway
Oakland 12, California

HOW SCREENING CAN HELP YOU SELL MORE AIR CONDITIONING

Kaiser Aluminum Shade Screening shades and cools as well as screens.

Tiny louvers, one inch wide, do the work. They're set at an angle against the sun—blocking the hot rays but not the view.

Thus, Kaiser Aluminum Shade Screening lowers temperatures of hottest sunny rooms. Combine it with air conditioning, and you greatly increase your market by selling more customers smaller units.



Typical example of heat reduction with Kaiser Aluminum Shade Screening:

(for both residential and commercial applications)
Window exposure: West. Midsummer peak load 40° N. latitude—3:00 PM

Sun load through 100 sq ft of unshaded windows ... 17,000 Btu per hour

Sun load through 100 sq ft of shade screening ... 1,700 Btu per hour

Heat load reduced by 15,300 Btu per hour—or 1.28 tons of refrigeration per 100 sq ft of glass.

Kaiser Aluminum Shade Screening can help bring the price of air conditioning units within the reach of every home, office or industrial building. Available in standard window widths. Write today for free AIA file and name of nearest wholesaler or applicator.

HOW TO CUT DUCT AND FUEL COSTS

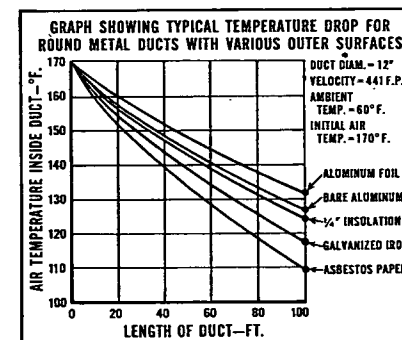
(yet retain desired Btu delivery)

Ducts of Kaiser Aluminum deliver up to 30 per-cent more heat than ducts of other materials—due to less surface heat radiation loss.

You can cut surface heat radiation loss in other materials with insulation. But that's expensive and troublesome.

So it's economical to use bare Kaiser Aluminum. It costs less than insulated material—and delivers the same amount of heat.

At the same time, you'll be giving your clients lower fuel costs. That's because ducts of Kaiser Aluminum can economically deliver more heat per Btu input than ducts of other materials. Graph at the right proves this to be true. It shows results of recent tests conducted at a major university.



Write for free booklet that shows more about how duct installation costs can be lowered—and fuel costs reduced—with Kaiser Aluminum.