

Ingersoll Steel & Disc Division

Borg-Warner Corporation

310 So. Michigan Ave., Chicago, Illinois Distributors in the Principal Cities

Ingersoll KOOLSHADE

"It's cooler in the shade!" Sun Screen

A Metal Fabric That Reduces the Solar Load Through Windows as much as 80 to 85 Per Cent.

KOOLSHADE Sun Screen has had such ready acceptance among Air Conditioning Engineers because it offers high efficiency in cutting down the Solar Load without shutting off light or vision. Its advantages are: (1) Lowers the cost of cooling equipment necessary by stopping 80 to 85 per cent of the Solar heat outside the window glass. (2) Saves in operating cost—as much as 25 to 50 per cent, where there are large windows. (3) Reduces the need for zoning for sun effect. (4) Forestalls complaints due to extreme sun heat. (5) Maintains lower temperatures in non-cooled rooms.



▲THIS WINDOW equipped with KOOLSHADE no direct sun comes in but ample light.

▲THIS WINDOW is bare—and shows how the sun rays stream into the room.

Automatic Sun Shade. KOOLSHADE is always in position . . . functions automatically . . . protects most when most needed. The flat horizontal wires, held at a FIXED angle of 17 deg. fully stop direct heat rays when the sun is 38½ deg or more above the horizon—the heat of the day in all seasons. Needs no adjustment or human attention.

Light and Vision. KOOLSHADE gives sun-exposure rooms the effect of cool "north" light, free from glare. Vision from within is superior to that through windows with 18-mesh fly screen.

Attractive Appearance. Makes the window look smart, and does not mar the outside appearance of the building.



Actual photo of KOOLSHADE installed. Stops direct Sun Heat . . . kills Sun Glare . . . with abundant light and clear vision . . . yet it is practically invisible!

Economy. KOOLSHADE is strong, tough and should last for many years. Maintenance cost is negligible and first cost is low.

Other Advantages include full insect protection, free ventilation, reduction of fading of fabrics and fire-safety.

Specifications of Fabric. Made of fine quality bronze, with 17 horizontal wires per in. and vertical wires spaced ½ in. apart. Supplied in widths up to 72 in.

Framing and Installation. Framed and installed like ordinary insect screens. Frames may be either wood or metal—always full length and always outside the window glass. Re-wiring of present screen frames is entirely practical.

Where to Buy. Authorized KOOLSHADE distributors and dealers in all

principal cities offer adequate facilities to assure correct frame design and proper installation.

Technical Proof of Performance. Reports of Tests and Calculations by the Pittsburgh Testing Laboratories provide ample evidence as to the performance of KOOLSHADE. A full copy of this report (from which one table is reproduced below) will be sent upon request for Brochure HG102.

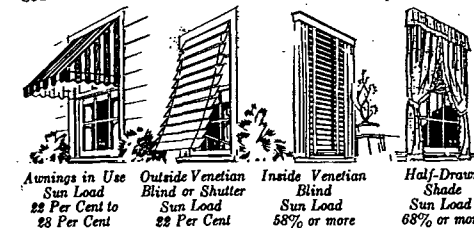
For Full Literature and information, write for our Booklet HG101 entitled "KOOLSHADE SUN CONDITIONING."

Framed and installed like ordinary fly screen—and keeps out insects, too.



KOOLSHADE SUN LOAD 19 PER CENT

SOLAR RADIATION TRANSMITTED THROUGH SHADED WINDOWS



DATA FROM PITTSBURGH TESTING LABORATORY FROM CALCULATIONS BASED ON ACTUAL TESTS

Solar Radiation Transmitted Through Windows
Equipped with KOOLSHADE Sun Screen

For 40 deg. latitude, on July 21st All figures given represent B.t.u. per sq. ft. per hour.

TIME	SOLAR RADIATION	NE	EAST	SE	SOUTH	
6 AM	Intensity Incident to Vertical Surface (1)	72	80	40		6 PM
	Transmitted thru Window with KOOLSHADE (2)	33	38.5	13		
7 AM	Intensity Incident to Vertical Surface	143	180	112		5 PM
	Transmitted thru Window with KOOLSHADE	38.5	60.5	22		
8 AM	Intensity Incident to Vertical Surface	143	211	155	8	4 PM
	Transmitted thru Window with KOOLSHADE	17	42.5	20.5	0	
9 AM	Intensity Incident to Vertical Surface	104	192	168	46	3 PM
	Transmitted thru Window with KOOLSHADE	8	22	17	2	
10 AM	Intensity Incident to Vertical Surface	46	143	156	77	2 PM
	Transmitted thru Window with KOOLSHADE	1.5	11.5	13	4	
11 AM	Intensity Incident to Vertical Surface		75	121	95	1 PM
	Transmitted thru Window with KOOLSHADE		3.5	8.5	5.5	
12 M	Intensity Incident to Vertical Surface			73	103	12 M
	Transmitted thru Window with KOOLSHADE			3.5	6	
		NW	WEST	SW	SOUTH	TIME

(1) Data from the A.S.H.V.E. Guide 1940.

(2) Figures represent Solar Heat Gain in EXCESS of heat gain by conduction through window glass.