

21,32

**DAYLIGHT**

APR 14 '27

**By Means of the Modern**

# **3-WAY SIDEWALK LIGHTS**

**Efficiency**

**Economy**

**Appearance**

**Quality**

**AMERICAN  
3 WAY-LUXFER PRISM Co.**

***Daylight Engineers***

1303-1311 S. 55th St.  
CICERO, ILLINOIS  
(Chicago Suburb)

358-368 Webster Avenue  
LONG ISLAND CITY, N. Y.

A. I. A. File No. 113.





# Daylight

The Most Efficient Employee of Any Merchant or Manufacturer



*Women's Dresses sold under 3-Way Daylighted Sidewalks*

**DAYLIGHT** is one of the few things that is free to everybody.

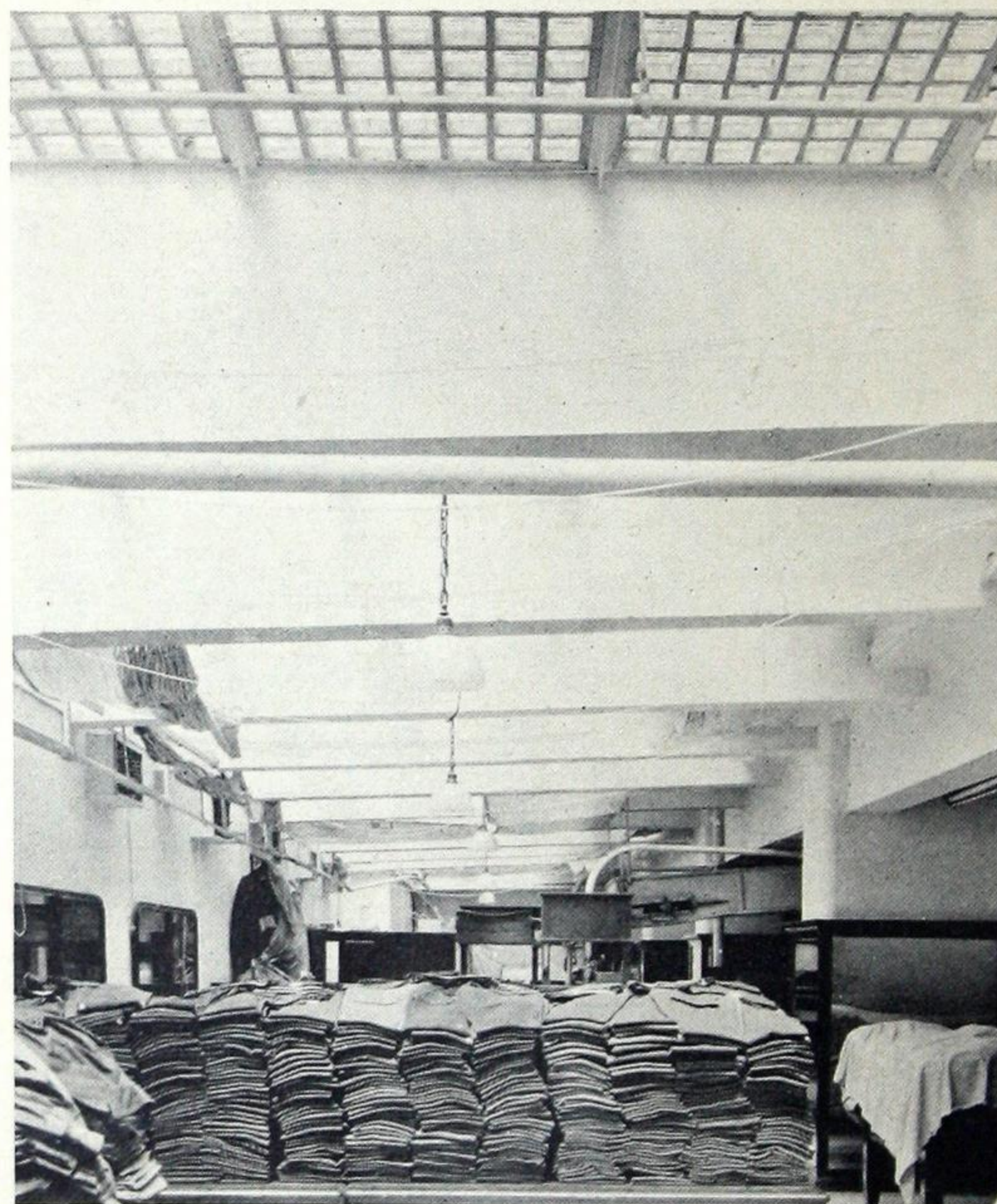
Merchants who make use of daylight find increased sales. Daylight makes selections of any kind of mer-

chandise easier and surer. Color values are true only under daylight. Employees are happier and more efficient when selling under daylight.

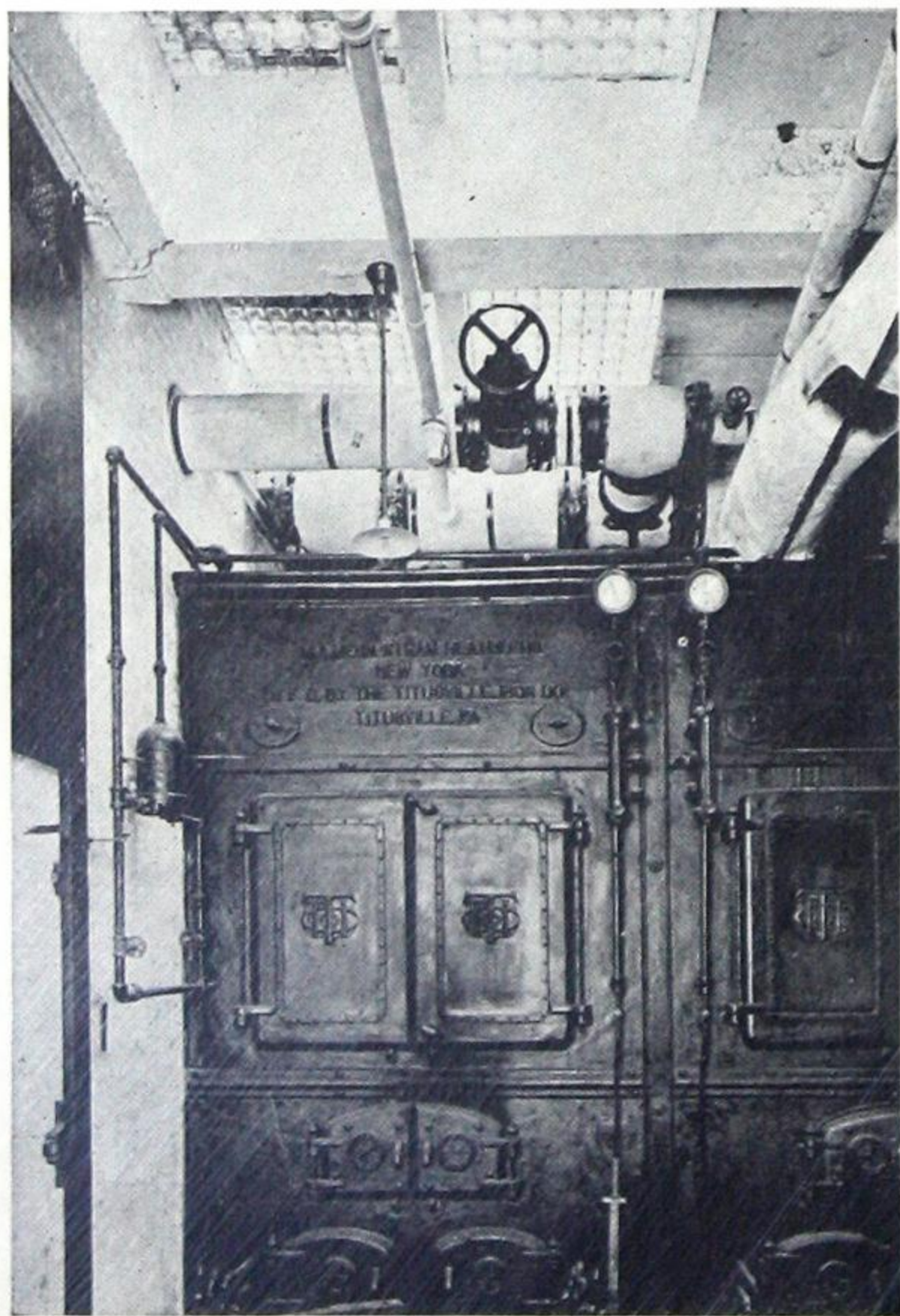
Where merchants need additional selling space they can often turn a dark storage basement into a daylight salesroom by rebuilding their sidewalk of glass.

Many of the country's leading merchants have their entire sidewalk built with 3 Way-Luxfer Sidewalk glass, thus making use of all space beneath for salesrooms of high class merchandise.

And as work rooms for tailoring and dressmaking or jewelry repairing—for daylight bakery rooms or shops of any kind, the space secured under "glass" sidewalks is worth many times the small cost of securing it.



*3-Way Daylighted Men's Clothing Department*



*3-Way Daylighted Boiler Room*

In planning new buildings, either for mercantile or industrial use, the sub-sidewalk space should be daylighted because it gives so much usable space at such a small additional cost.

The use of glass in floors to carry daylight from skylights to spaces below is one of the most practical ways to bring daylight into the heart of the building. So much daylight is secured from a skylight that it is a waste of both light and money not to distribute some of it to the lower floors.

Daylighting media soon pay for themselves.



# **3Way** PERFECTED SIDEWALK LIGHTS **Luxfer**



*On Three Corners of State and Madison Streets, Chicago, (Called the "World's Busiest Corner") 3-Way Sidewalks Have for Years Daylighted Salesrooms Below for Carson Pirie Scott & Co., Mandel Bros., Chas. A. Stevens & Bros. and The Boston Store*

## **3-WAY SIDEWALK LIGHTS EVERYWHERE**

FROM COAST TO COAST—FROM THE CANADIAN NORTH TO PANAMA—in big cities and small towns, 3-Way Sidewalks are daylighting dark basements. At a small cost for installation they have turned hundreds of thousands of waste spaces into profitable sales and workrooms.

During the more than a quarter of a century in which we have been building and installing sidewalk lights we have been steadily developing and improving the construction point by point.

Today we feel that we are offering perfected constructions to architects, contractors and owners—perfected constructions that have stood the test of time.

In this booklet we detail and describe the several perfected constructions we offer. They are indexed on the back page.

Our sales representatives and offices are located in all the leading cities.

### **AMERICAN 3 WAY-LUXFER PRISM CO.**

*Daylight Engineers*

1303-1311 S. 55th St.  
CICERO, ILL.

358-368 Webster Ave.  
LONG ISLAND CITY, N. Y.

#### BRANCHES

301 National Bldg.	-	-	-	Cleveland, O.
400 Penobscot Bldg.	-	-	-	Detroit, Mich.
404 Ridge Bldg.	-	-	-	Kansas City, Mo.



## Perfected Sidewalk Lights

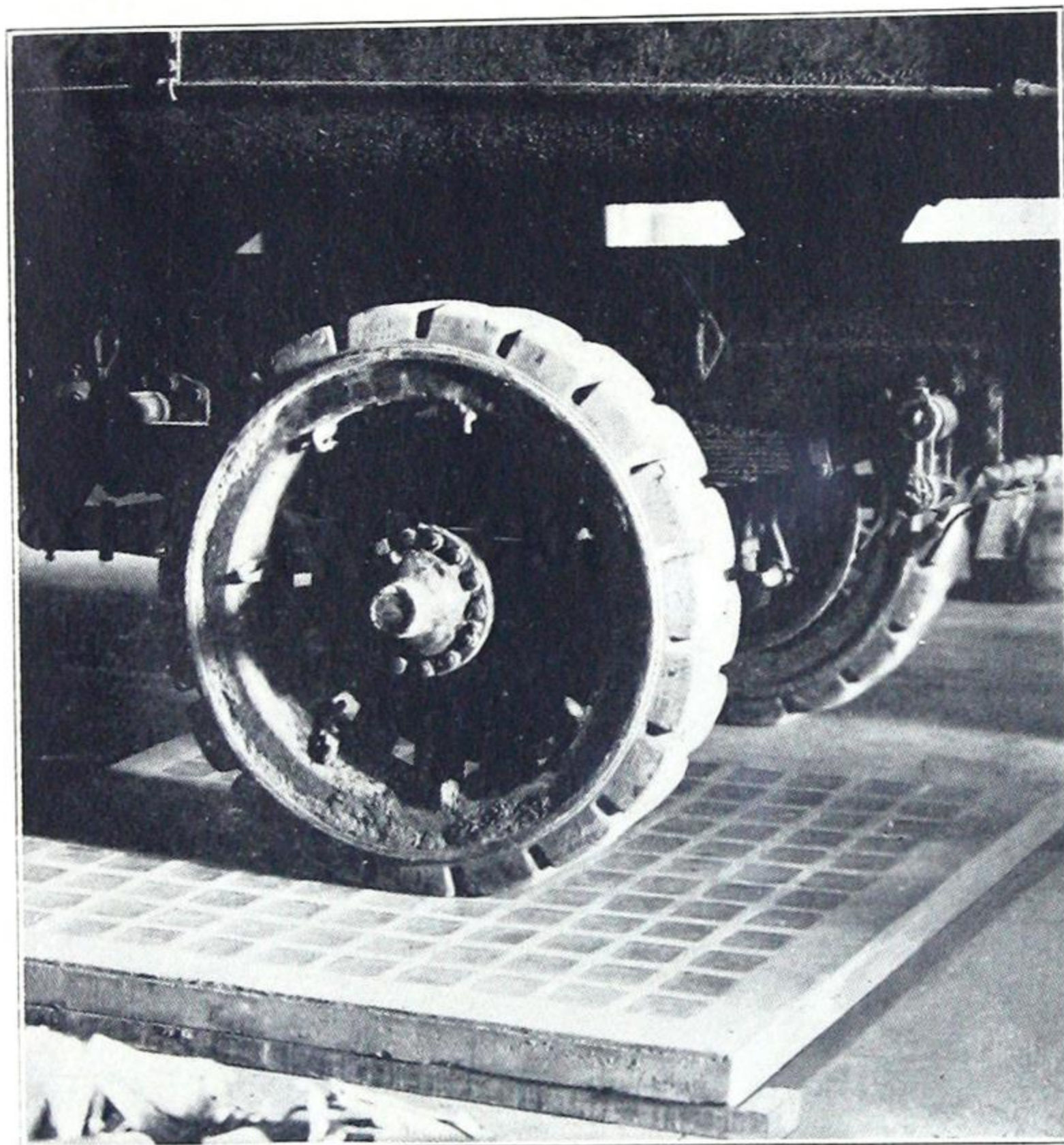
**3-WAY** Sidewalk Light Constructions are called "Perfected" because they accomplish the purpose for which glass is installed in sidewalks.

**First.** They give the maximum amount of daylight.

**Second.** They are strong and carry any possible traffic load.

**Third.** They are rigid to withstand vibration.

**Fourth.** They are perfectly watertight.



*A Demonstration of the Strength of a 3-Way Simplex Sidewalk Light Slab; Supported Sides Only. Steel Truck Loaded with Crushed Stone Had No Effect on Concrete or Glass*

To secure these advantages you must consider all the points of which we have made a study for years. These points include the design of construction, first; then the materials; and last, workmanship.

Design details that have proven up, outlined fully in the following pages.

In reference to the materials and their great importance in obtaining a perfected construction:

First, and by far the most important, is the glass. This we have found after hundreds of

tests, and today every piece of glass that goes into our construction must pass our very rigid requirements.

FLINTEX-LAZALITE is the *only* glass that meets these specifications. The Jeannette Glass Company, Jeannette, Pa., have for years specialized in the making of sidewalk glass and in FLINTEX-LAZALITE they have produced, and are the exclusive makers of, the perfect glass for this purpose.

1st. **Holds its color.** Flintex-Lazalite is produced from a mixture that withstands the action of the elements and holds its color.

2nd. **Has a tough, hard surface.** Flintex-Lazalite is perfectly annealed—every piece—in specially constructed apparatus by an extensive process that insures a very tough, hard surface.

3rd. **Is perfect in texture.** Flintex-Lazalite is perfect glass. Every piece is tested under the polariscope to insure this. Glass absolutely perfect in texture is the **only** glass that can withstand the hard service of traffic and weather without cracking, chipping, or flaying.

### What The Polariscope Test Is And Means

When glass is moulded, it is very apt to cool unevenly. This often produces flaws in the texture of the glass. No matter how carefully examined, these faulty pieces look the same as perfect ones to the naked eye. But with the polariscope, these faults or flaws in



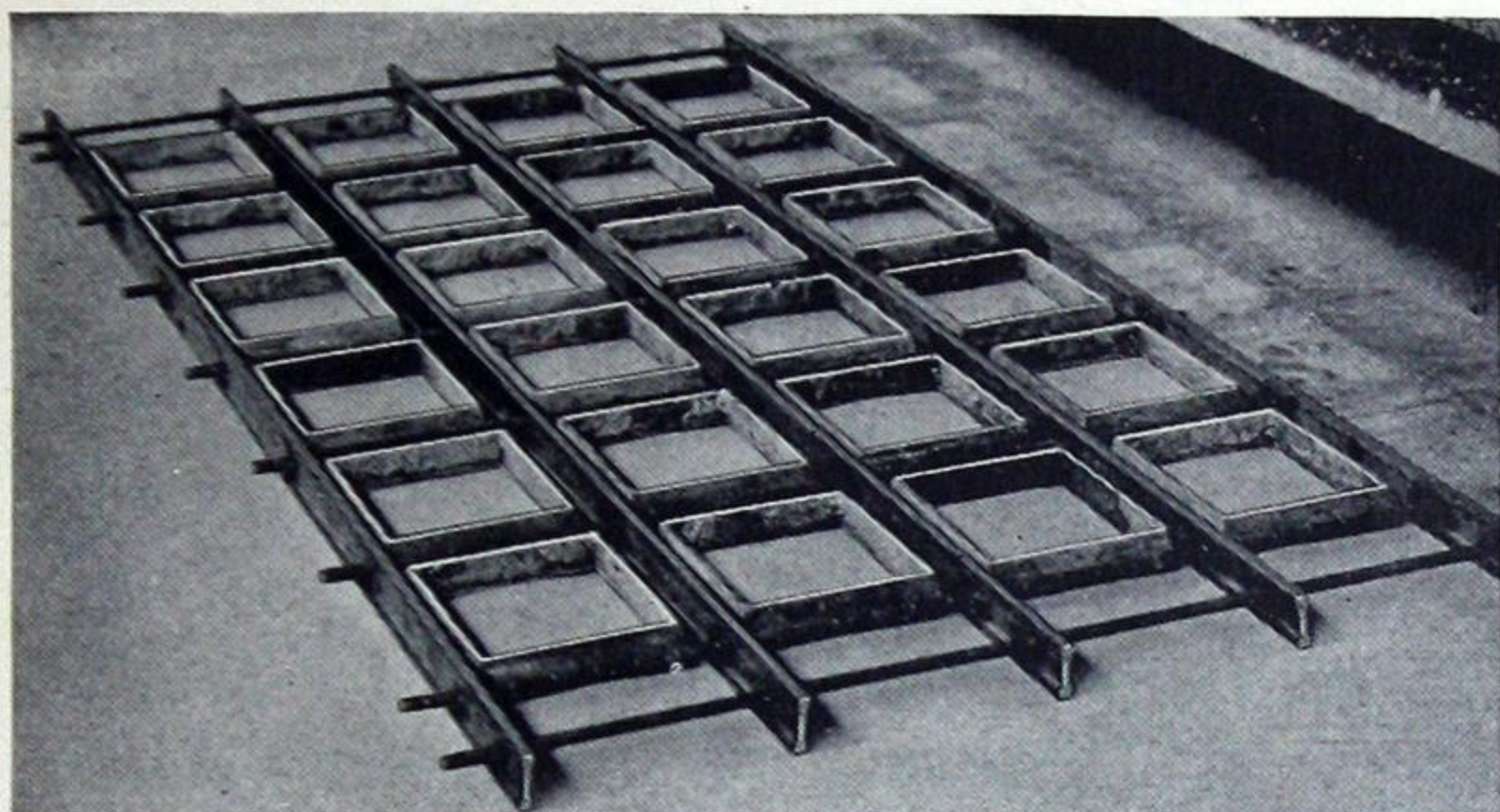
*Testing Flintex-Lazalite Glass with the Polariscope at Jeannette Glass Co. Factory, Jeannette, Pa.*



# **3-Way** PERFECTED SIDEWALK LIGHTS **Luxfer**

the texture of the glass appear as cloudy or smoky spots, or as rainbows.

The polariscope is a commercial adaptation of the scientific apparatus of the same name. It is a series of mirrors that so direct the light rays that the flaws in the glass appear. These faults in the texture of the glass are like splits in steel and checks in wood—tight, till put to a strain, and then failure takes place.



*The Steel Reinforcing Grid, with Steel Molds in Place*

Every piece of glass used in 3-Way Perfected Sidewalk Light Constructions is polariscope tested at the factory, and any found faulty are discarded.

## **Reinforcing**

The second and third points of Perfected sidewalk lights—strength and rigidity—are made superior in 3-Way Sidewalk Constructions by the type of steel reinforcing, the reground cement, the aggregate and workmanship.

With special shaped steel  $1\frac{1}{2}$ " "I" bars, interlaced with deformed rods, we make a steel grid, with a rod or "I" bar between each row of glass. This reinforcing is entirely embedded in the concrete so that there is no exposed metal, above or below. As the "I" bars are transversely of the slab they provide great strength and rigidity.

## **The Cement**

Our tests have proven that, next to the selection of the glass, the choice of the cement is most important for a permanent, watertight installation. Therefore, we use only reground cement of a fineness that 95% will pass through

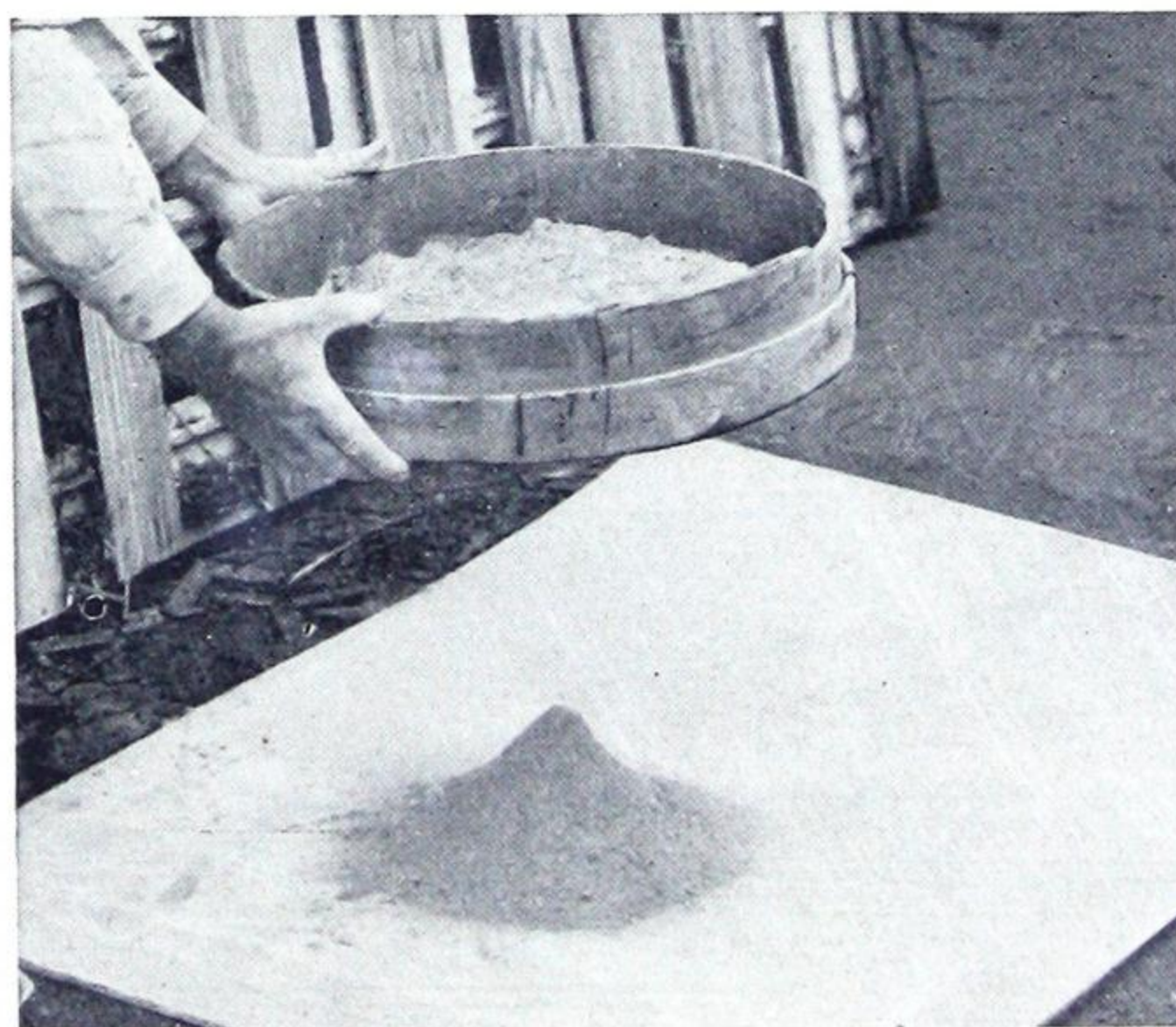
a 200 mesh screen. This fine cement makes such a compact homogeneous mass that it is, in the first place, waterproof. Then, because it all gets saturated and sets in the original "mix" there is no after chemical action and pressure which so often caused glass breakage.

## **The Aggregate**

Added to the superior cement, we use only a washed torpedo sand, very sharp, and granite screenings. By washing the sand and then drying it, we eliminate all traces of loam, and then are able to use just the right amount of water to make a perfect concrete—a point that engineers now stress so strongly to secure strength.

## **And the Workmanship**

We've been building sidewalk lights so long that our crews—either in our factories making finished slabs, or in the field building installations on the job—are trained and experienced men. The making of sidewalk lights is not an incident with them—it is a life work and they do it right.



*Testing the Cement*

The fourth main point—watertightness—is dependent on all of the preceding points plus the proper setting. If 3-Way Factory Finished Slabs are installed, the contractor should follow our detailed instructions on page 15 of this bulletin and he will have an absolutely watertight job.

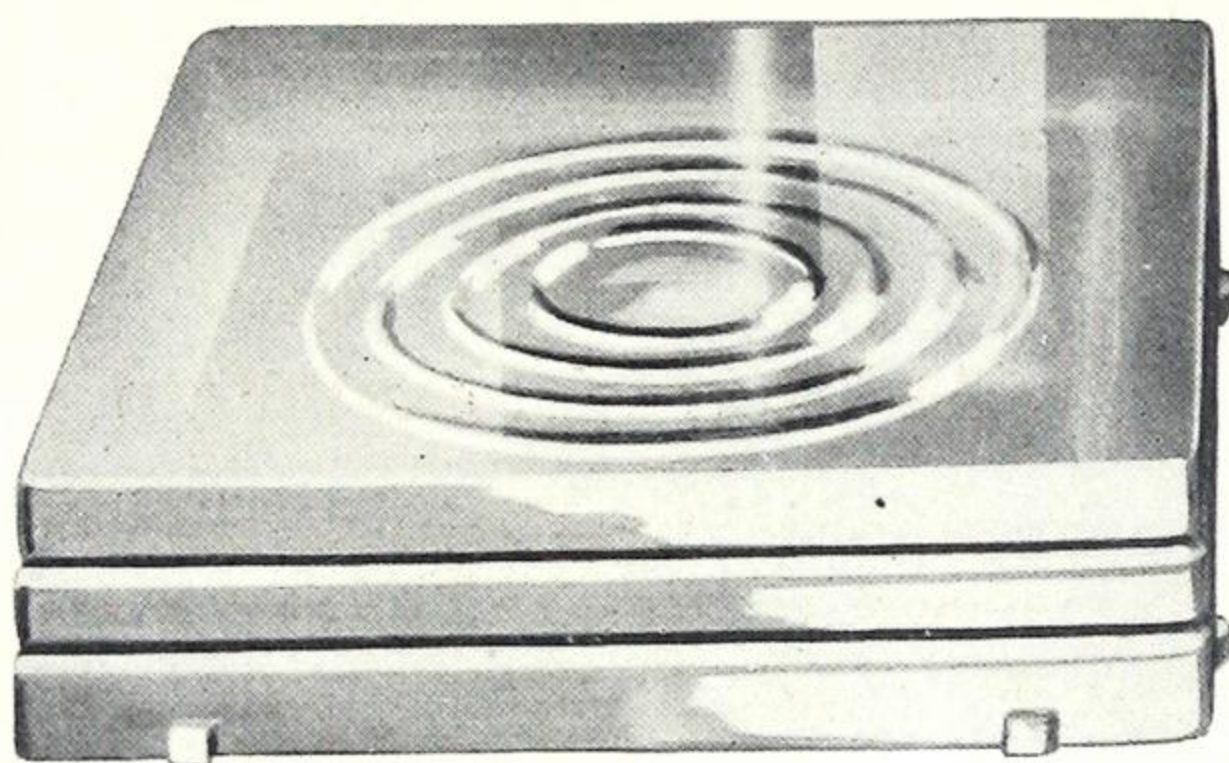


**3-Way****AMERICAN 3WAY-LUXFER PRISM CO.****Luxfer**

# ARMORED 3-WAY GLASS

## Instant and Easy Replacement of Broken Lenses

**3-WAY ARMORED GLASS** Sidewalk Lights meet the demand of everyone in regard to sidewalk lights. They are the solution of every problem in sub-sidewalk lighting.



*3-Way Square Armored Glass  
and Metal Shield*

**3-WAY ARMORED GLASS** has

Great Glass Area  
Great Strength  
Perfect Protection to Glass  
Instantly Replaceable Glass

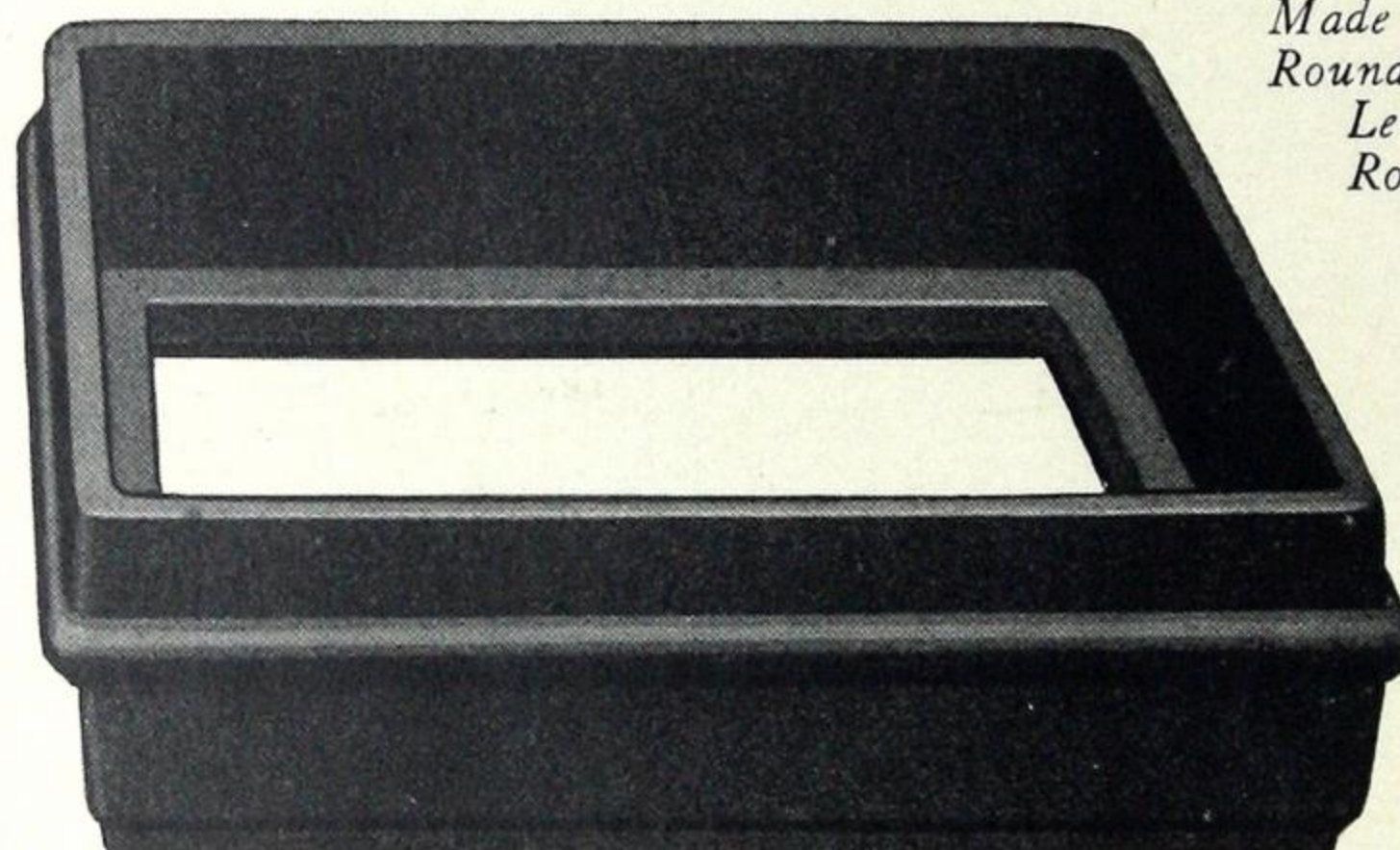
Of these, its greatest superiority is its perfect protection to the glass, secured by our improved method of setting.

Every lens, whether square or round, is set in a cast iron bottomless cup or shield and caulked in with a tar and sulphur compound. This iron shield "armors" the glass against all pressure and all traffic blows. Even though the lenses are thus protected each one is of

Flintex-Lazalite glass, polariscope tested and found perfect.

This iron shield is so shaped that the glass rests on a flange on the inside, while on the outside is a lip, or shoulder that, embedded in the concrete, holds it absolutely tight. Thus, a perfectly tight surface is secured.

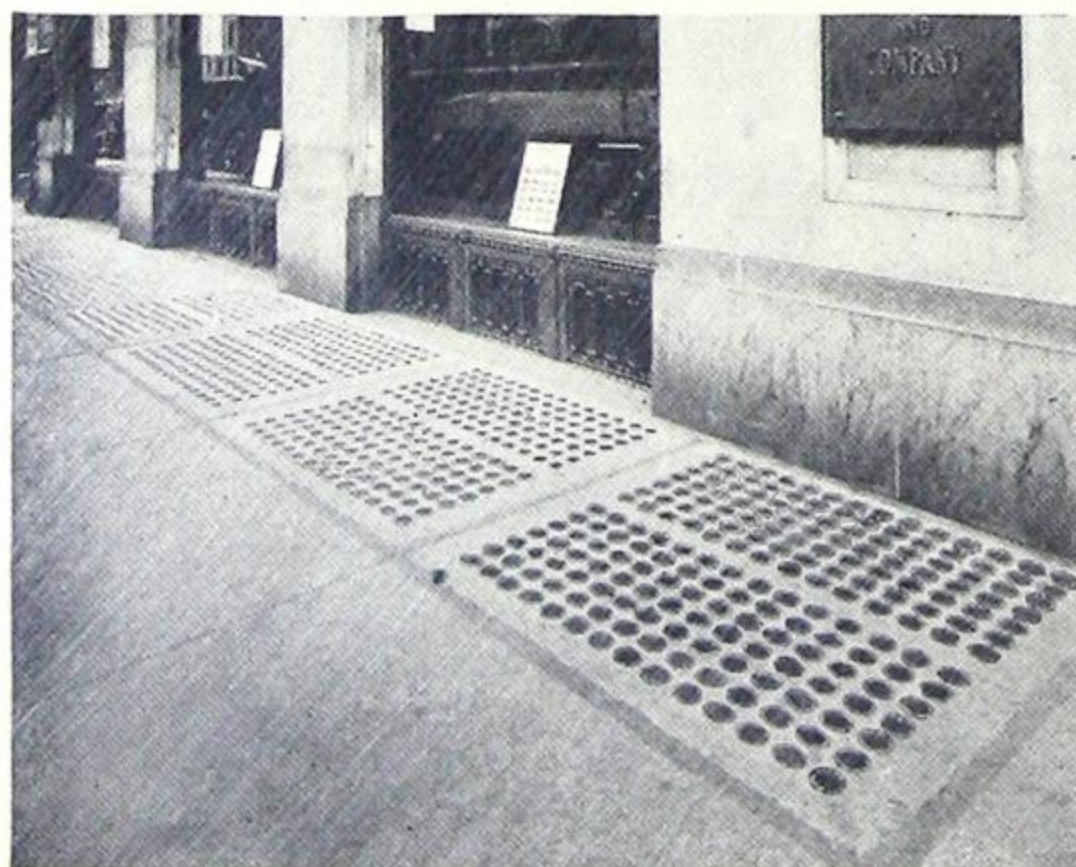
Lenses are either 3 1/2" square with light diffusing Fresnel lenses, set in 4" square cast iron cups or 2 3/4" round sunburst lenses set in 3" round iron shields.



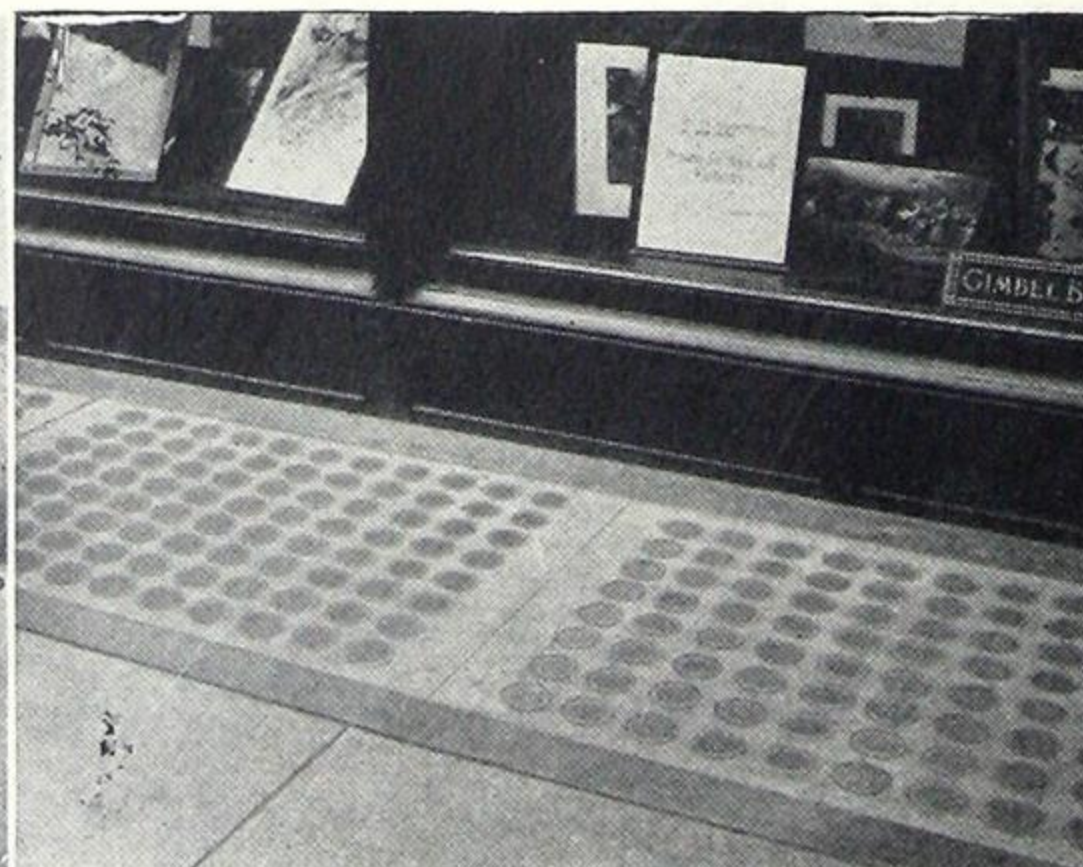
*Made also with  
Round Sunburst  
Lens set in  
Round Shield*

**3-WAY ARMORED GLASS** Sidewalk Lights are built up in factory finished slabs by the superior 3-Way Simplex Construction described on page 4. The reinforcing is steel "I" bars interlaced with deformed rods, making an exceedingly strong, rigid slab. Carrying capacity 600 pounds per sq. foot on a five foot clear span thickness.

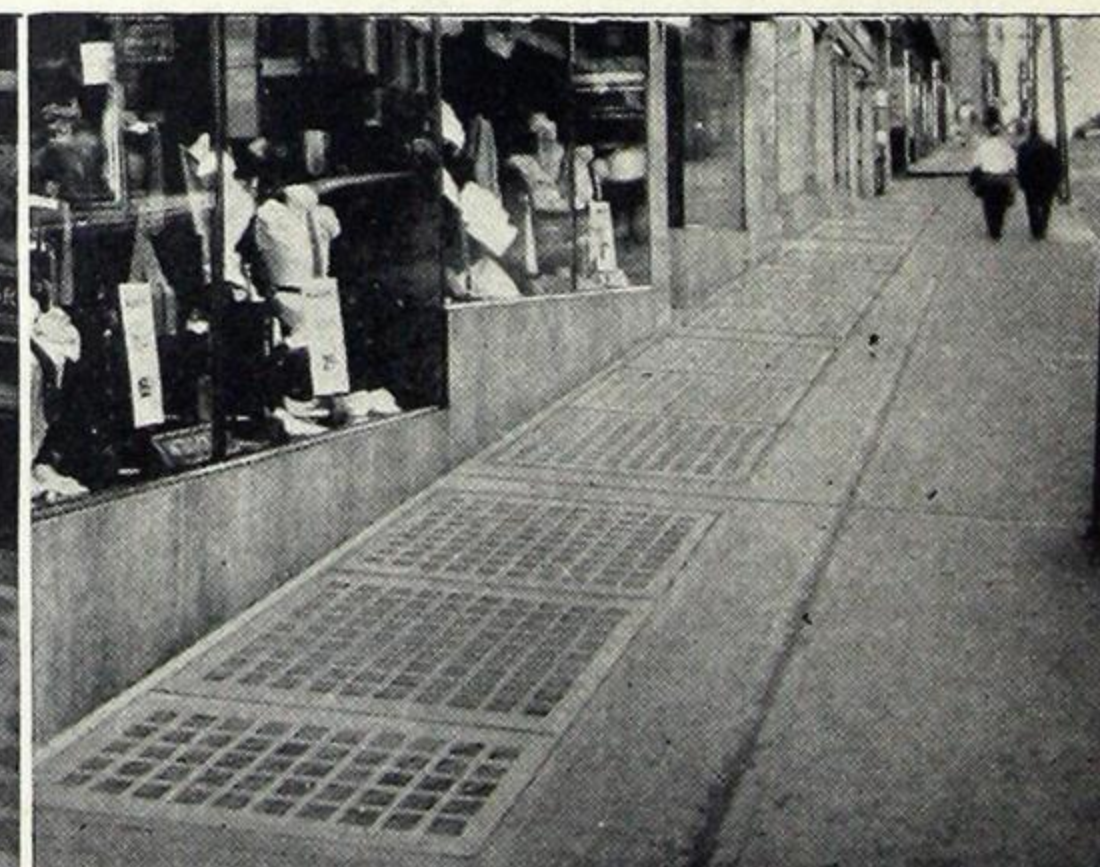
Concrete made only with reground cement, 95% of which passes through a 200 mesh screen.



*New York City, N. Y.*



*Philadelphia, Pa.*

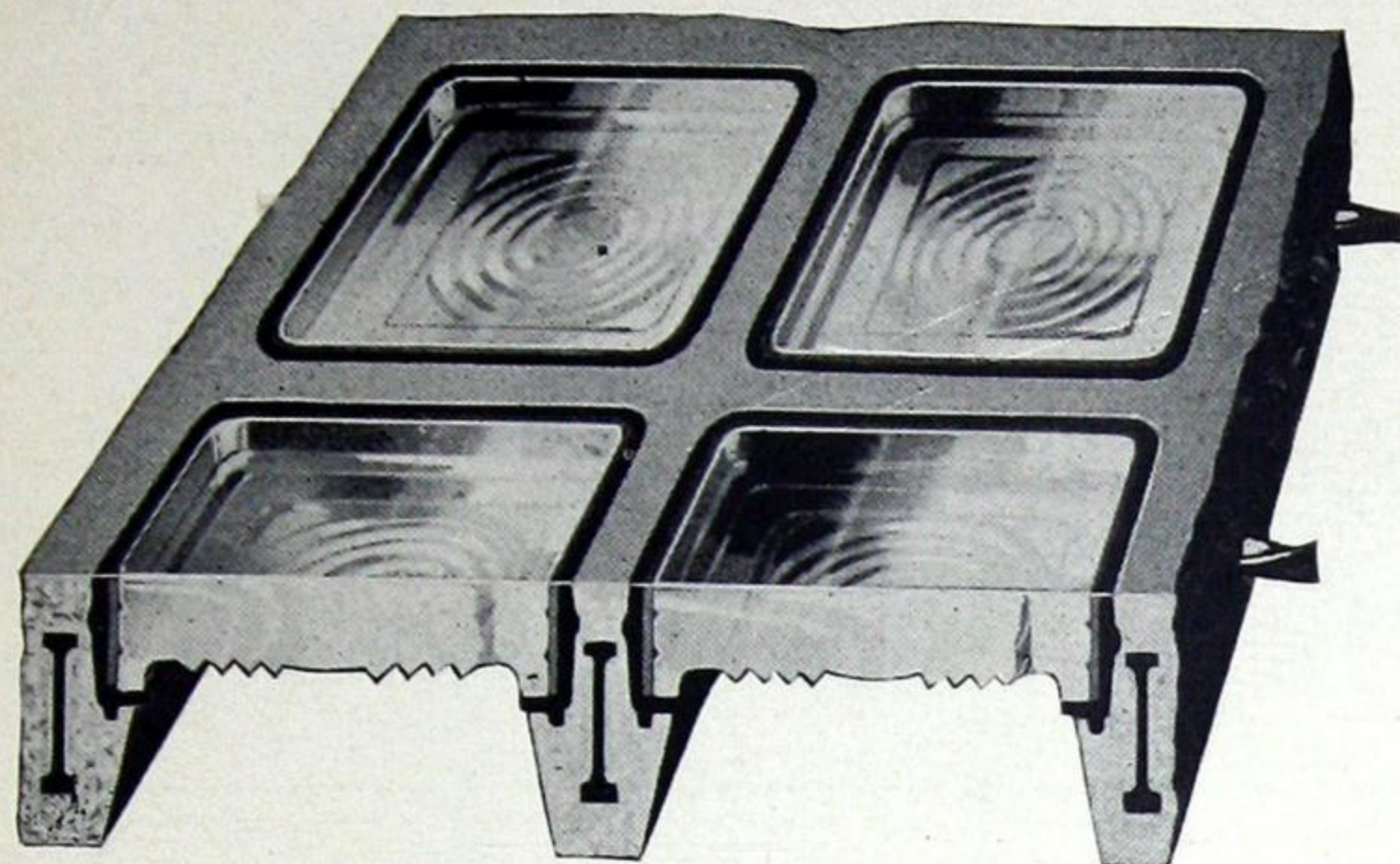


*Kansas City, Mo.*



# 3-Way PERFECTED SIDEWALK LIGHTS *Luxfer*

## Instant Replacement of Lenses



*Cross Section of 3-Way Armored Glass Slab  
Showing Iron Shield*

In addition to the perfect protection to the glass afforded by the "armoring" shields, is the great advantage of instant and easy replacement of any lenses accidentally broken. This is a very important point in those small installations where it is a problem to get skilled help to replace the glass.

Anyone can replace a lens in the 3-WAY ARMORED GLASS construction in a few minutes, without any special tools.

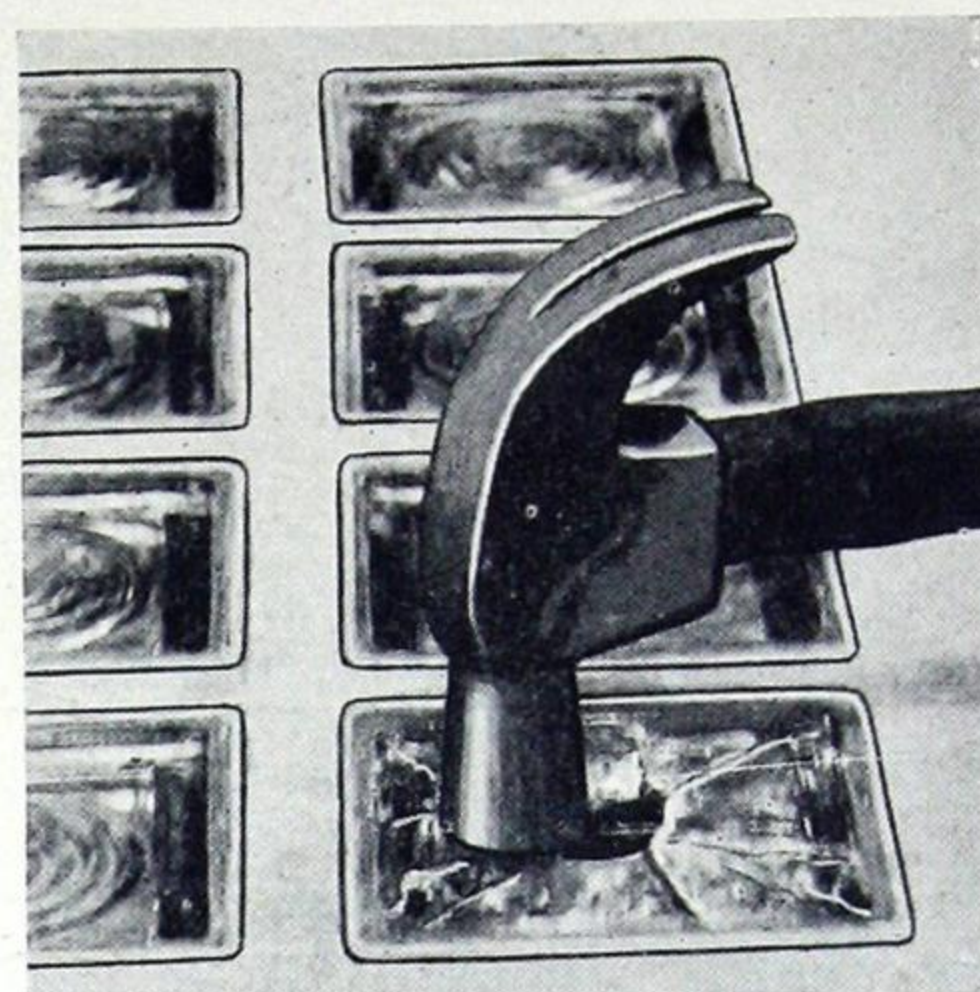


*Slab of 3-Way Armored Round Glass*

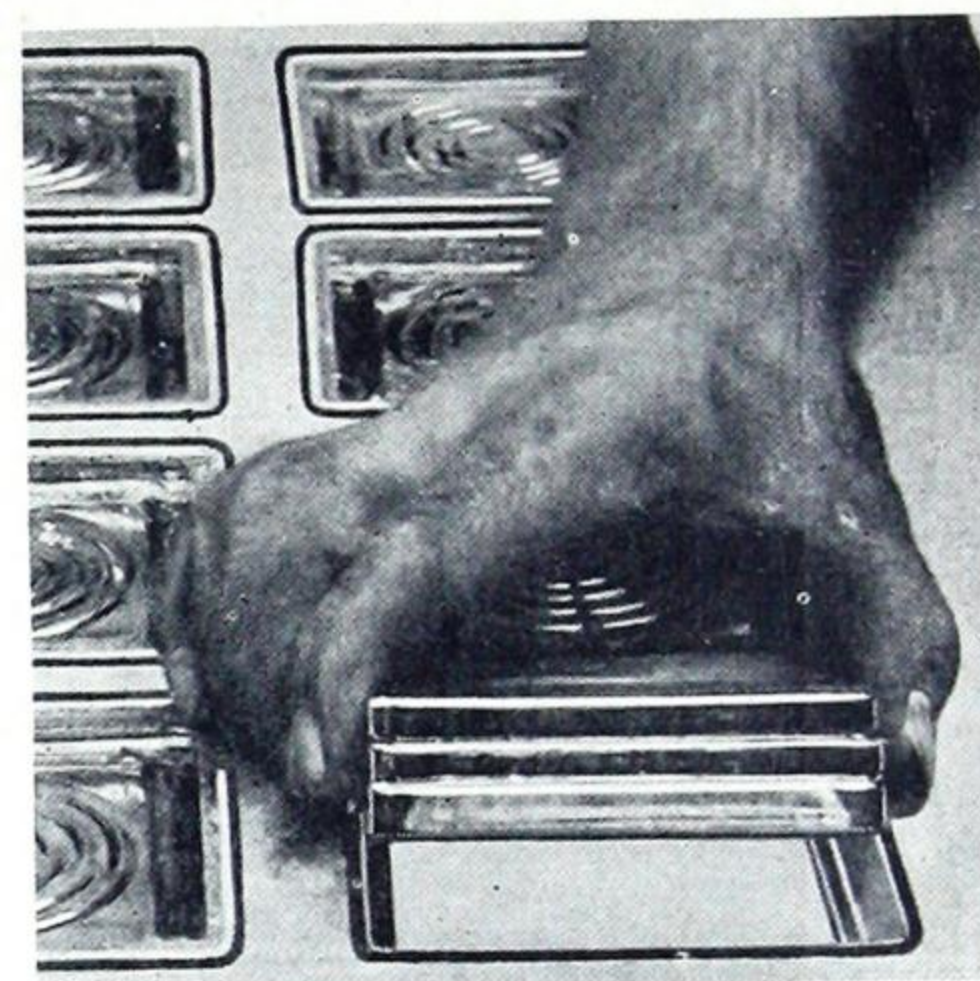
For a 100% satisfactory installation, one that will always be a joy to the owner and a satisfaction to the architect and contractor, insist on 3-WAY ARMORED GLASS SIDEWALK LIGHTS, either in factory finished slabs or built on the job by our own experienced workmen.

**Just three  
moves are  
necessary:**

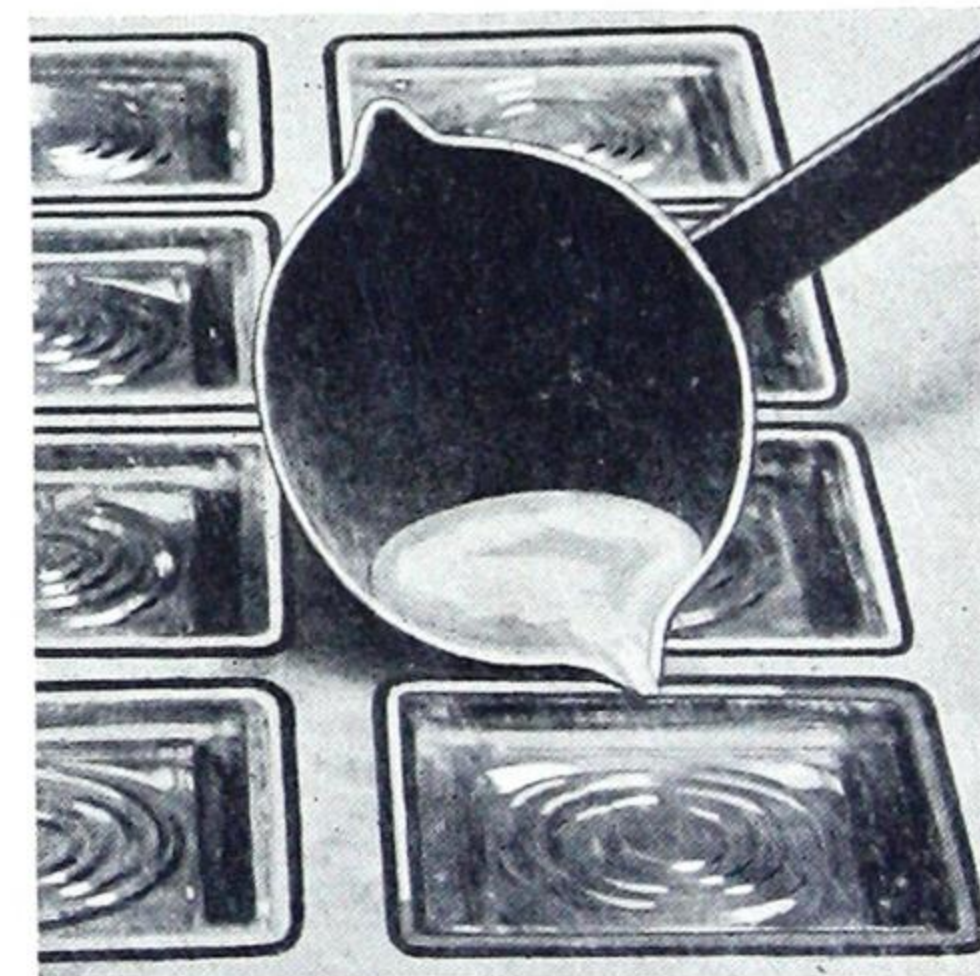
Clean the  
cracked or  
broken glass  
out of the  
shield:—



Drop in a  
new perfect  
lens of Flin-  
tex - Lazalite  
glass:—



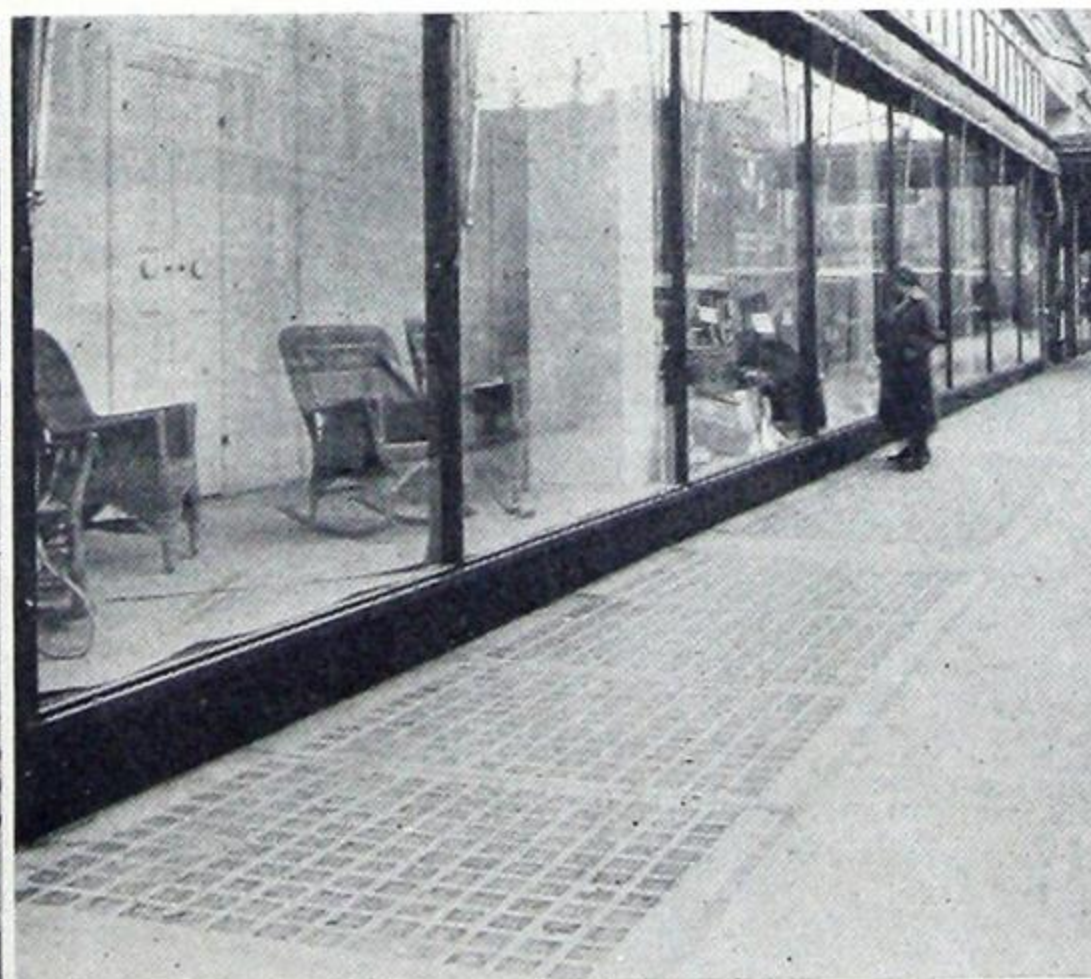
Pour in mol-  
ten tar and  
sulphur to  
caulk:—  
That's all!



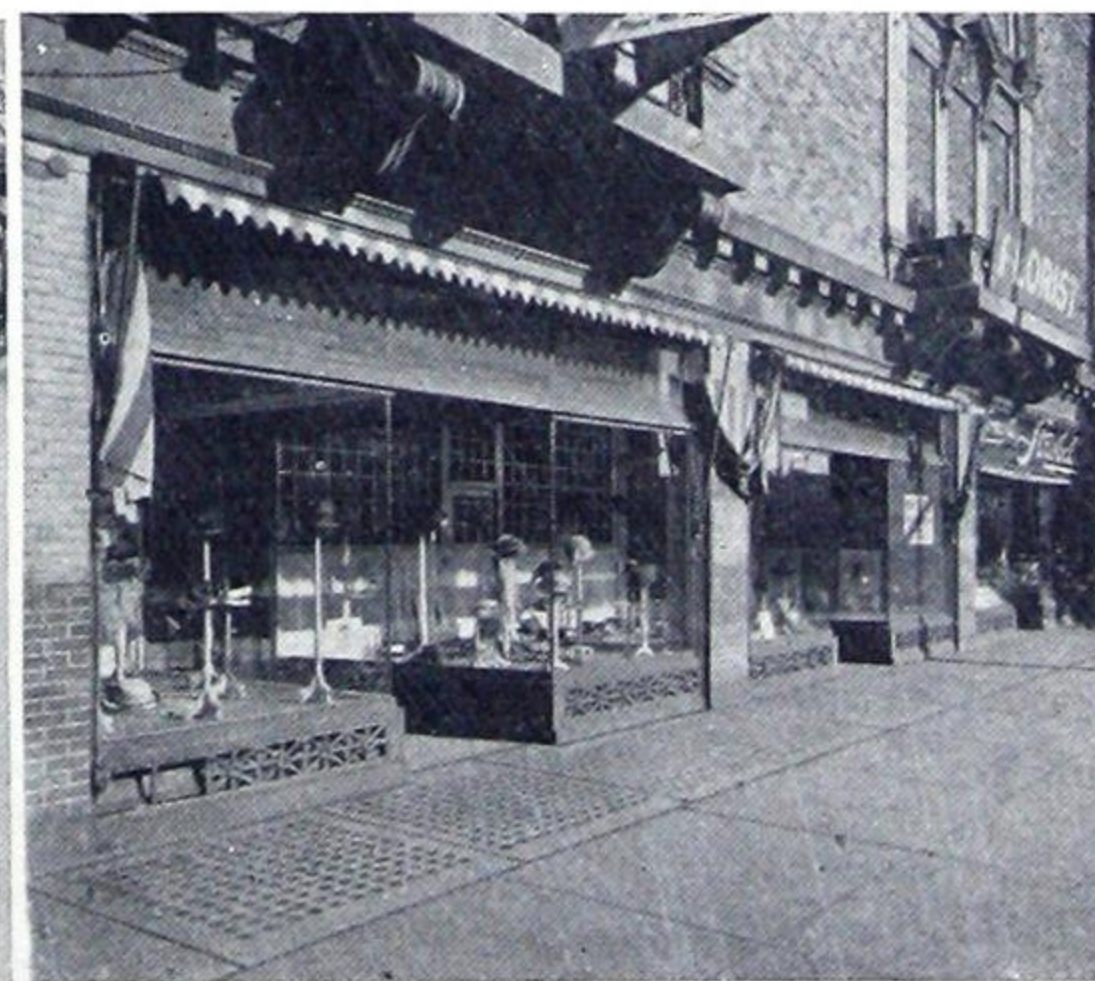
**See Page 8 for Details and Specifications**



*Subway Station, Philadelphia*

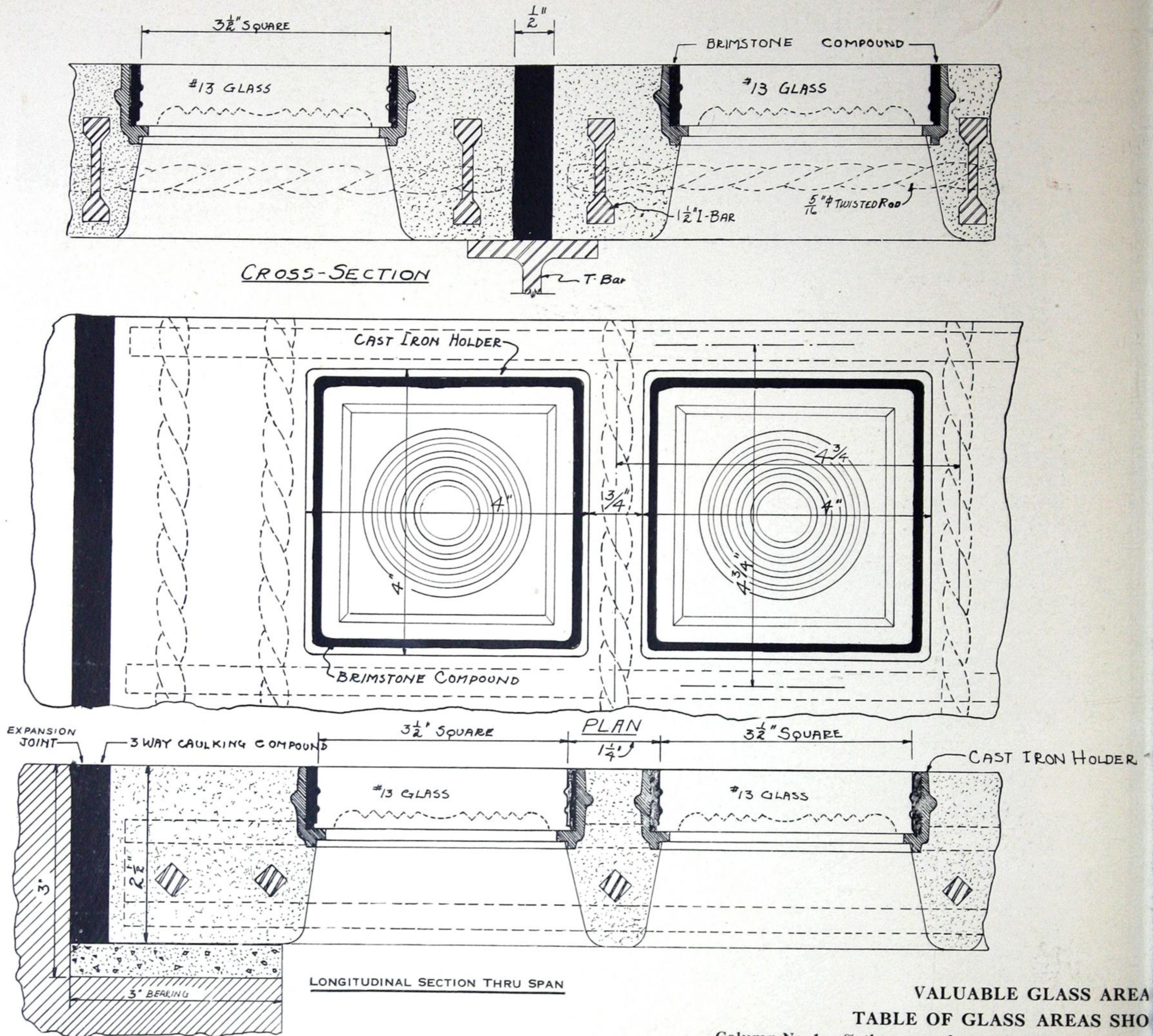


*Milwaukee, Wis.*



*Newark, N. J.*





## SPECIFICATIONS AND DETAILS for ARMORED GLASS CONSTRUCTION No. 12 or No. 13 GLASS

SIDEWALK lights where shown on plans to be reinforced concrete type, as manufactured by American 3 Way-Luxfer Prism Co., using 1 1/2" "I" bars (channel flats) with 5/16" rods at right angles. Aggregate consisting of reground cement 95% fine, granite screenings and clean sharp torpedo sand. Glass to be polariscope tested, Flintex-Lazalite quality manufactured by Jeannette Glass Company guaranteed to be free of manganese and without stresses and strains. Each glass shall be securely set in a cast iron shield or bottomless cup, of such design that it provides a seat for the glass and a flange to be embedded in the concrete. The space between the glass and the iron shall be caulked with 3-Way Tar and Sulphur compound.

All glass to be 3 1/2" square of Fresnel Lens design (No. 13) and set in square iron shields, spaced 4 3/4" centers, or 2 3/4" diameter Sunburst lens (No. 12) set in (3" round shield spaced 4 1/4" centers).

Caulk all joints around and between slabs of sections with 3-Way Caulking Compound.

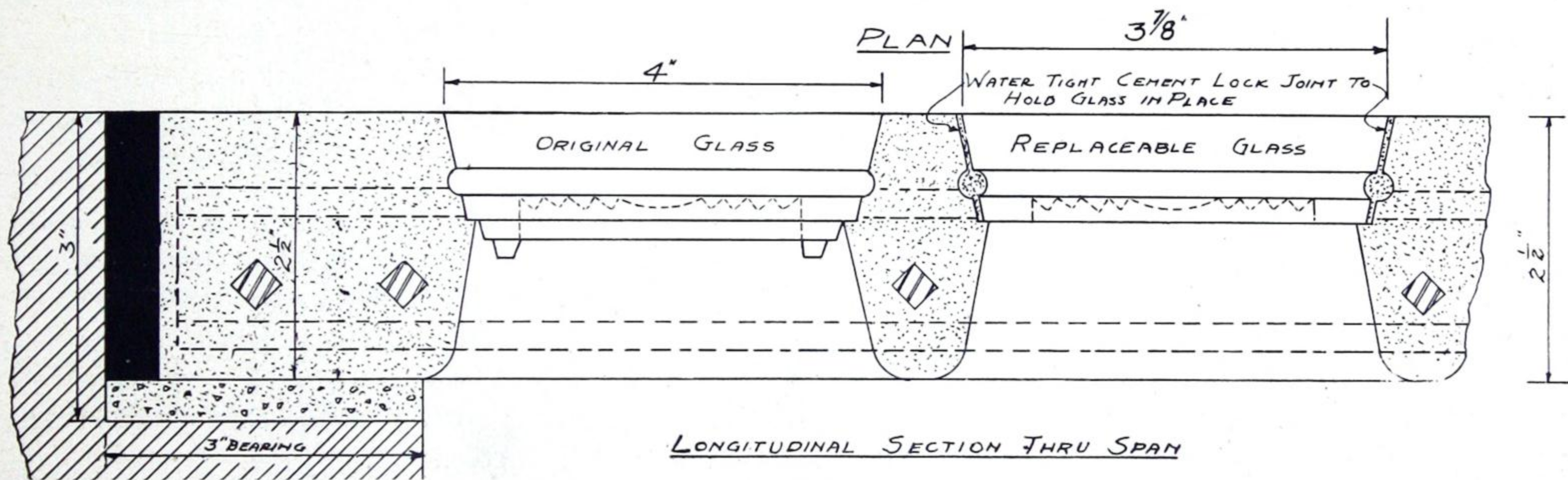
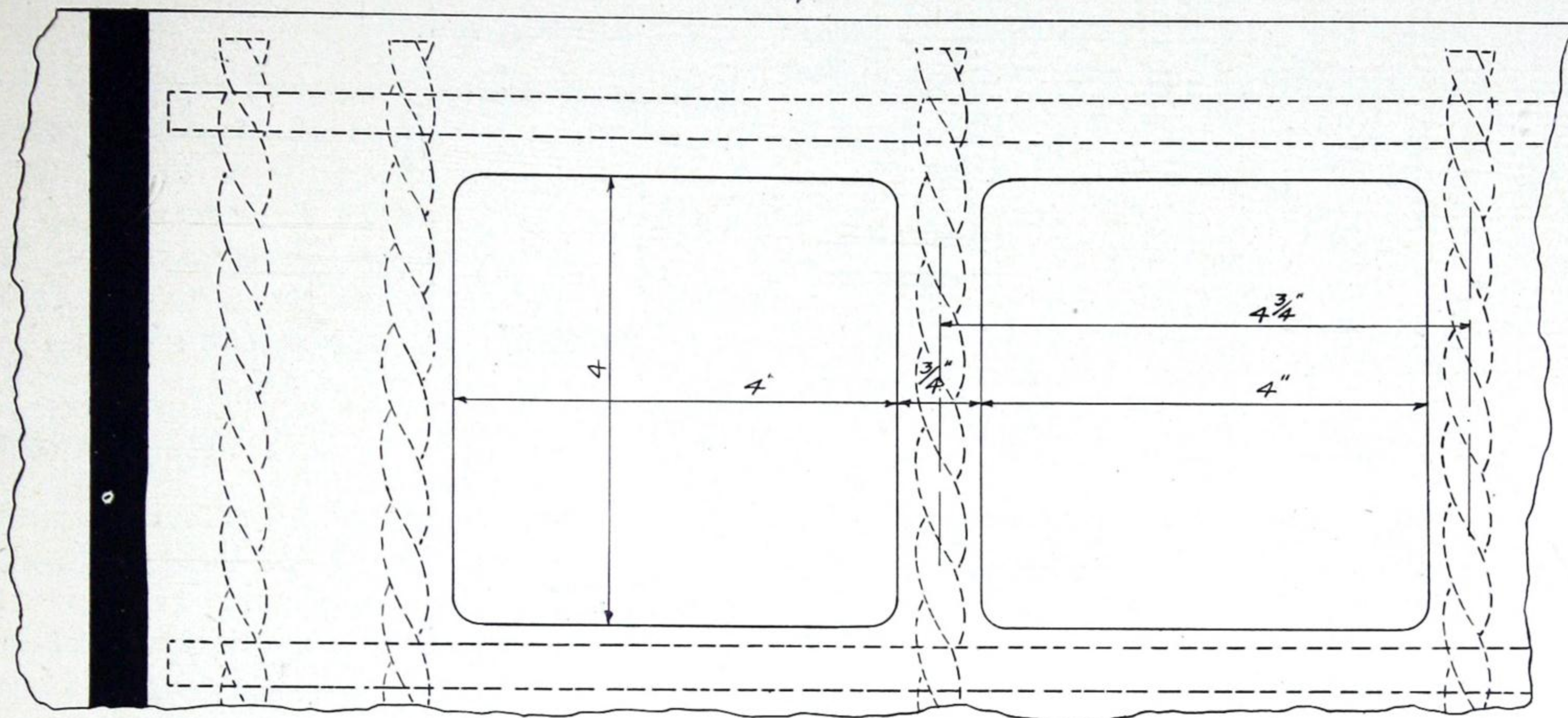
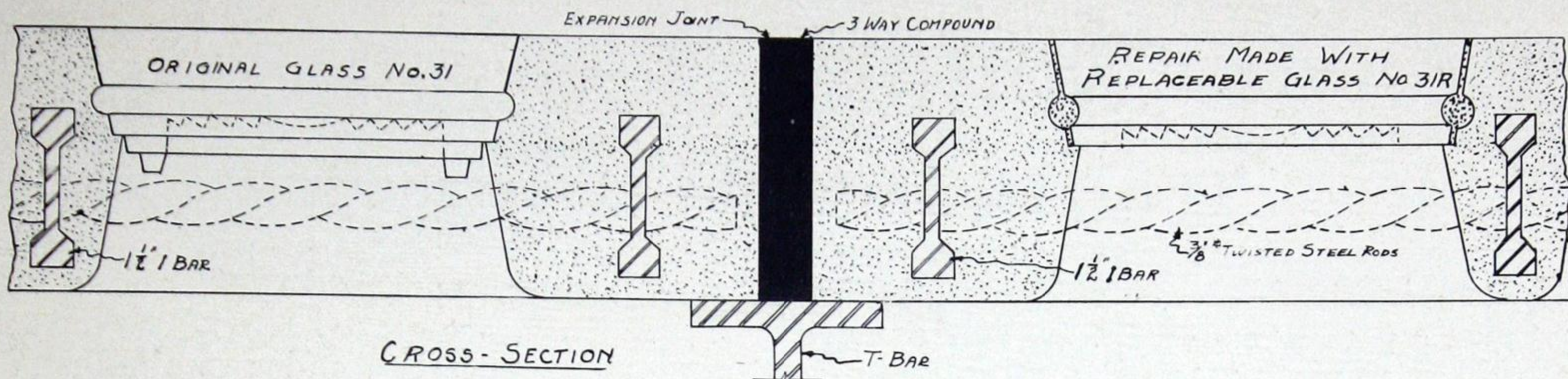
## VALUABLE GLASS AREA TABLE OF GLASS AREAS SHOWING

Column No. 1.—% glass area of construction. In figuring ordinary Ransom system vault-lights with only for concrete stiffening beams which are not used in "SIMI"

Distance Between Glasses		3/4 in. space		7/8 in. space		1 in. space	
Size	Shape	%	Glasses Sq. Ft.	%	Glasses Sq. Ft.	%	Glasses Sq. Ft.
2 1/2"	Round	46.5	13.64	43.2	12.66	40.1	11.1
2 3/4"	"	48.5	11.76	45.2	10.98	42.3	10.0
3 "	"	50.3	10.24	47.1	9.61	44.2	9.0
3 1/8"	"	51.1	9.61	47.9	9.00	45.1	8.0
3 1/4"	"	51.9	9.00	48.8	8.47	46.0	7.0
3 3/8"	"	52.7	8.47	49.6	7.98	46.8	7.0
3 1/2"	"	53.4	7.98	50.4	7.54	47.6	7.0
3 5/8"	"	54.1	7.54	51.2	7.12	48.4	6.0
3 3/4"	"	54.7	7.12	51.9	6.75	49.1	6.0
4 "	"	55.8	6.40	53.0	6.06	50.4	5.0
2 1/2"	Square	59.2	13.64	55.0	12.66	51.1	11.1
2 3/4"	"	61.7	11.76	57.6	10.98	53.7	10.0
2 7/8"	"	62.9	10.98	58.8	10.24	55.0	9.0
3 "	"	64.0	10.24	59.9	9.61	56.2	9.0
3 1/4"	"	66.0	9.00	62.0	8.47	58.4	7.0
3 1/2"	"	67.8	7.98	64.0	7.54	60.5	7.0
3 3/4"	"	69.4	7.12	65.7	6.75	62.3	6.0
4 "	"	71.0	6.40	67.3	6.06	64.0	5.0



# 3Way PERFECTED SIDEWALK LIGHTS Luxfer



## CONCRETE PERCENTAGES

Column No. 2—Number of glasses per sq. ft. of construction. Deduct 20% to 25% from table, but must be used in all types of Ransom system constructions.

1/8 in. space	1 1/4 in. space	1 3/8 in. space	1 1/2 in. space	1 5/8 in. space
Glasses Sq. Ft.	%	Glasses Sq. Ft.	%	Glasses Sq. Ft.
7.4	10.98	34.9	10.24	32.7
9.6	9.61	37.1	9.00	34.9
1.6	8.47	39.2	7.98	37.1
2.5	7.98	40.1	7.54	38.1
3.4	7.54	41.1	7.12	38.9
4.2	7.12	41.9	6.75	39.8
5.1	6.75	42.7	6.40	40.6
5.8	6.40	43.5	6.06	41.4
6.5	6.06	44.3	5.76	42.2
7.8	5.48	45.6	5.23	43.6
7.6	10.98	44.5	10.24	41.6
9.4	9.61	47.3	9.00	44.4
1.7	9.00	48.6	8.47	45.8
2.9	8.47	49.8	7.98	47.1
3.2	7.54	52.1	7.12	49.4
3.3	6.75	54.3	6.40	51.6
4.1	6.06	56.1	5.76	53.5
4.8	5.48	57.9	5.23	55.3

## SPECIFICATIONS AND DETAILS for SIMPLEX FRESNEL No. 31 GLASS

SIDEWALK lights where shown on plans to be as manufactured by the American 3 Way-Luxfer Prism Company, reinforced concrete type with no exposed metal, using 1 1/2" "I" bars (channel flats) with 3/8" rods at right angles. Aggregate consisting of reground cement 95% fine, granite screenings and clean sharp torpedo sand. Glass to be 4" square Fresnel Lens, replaceable type, 4 3/4" centers, polariscope tested, Flintex-Lazalite quality manufactured by Jeanette Glass Company, guaranteed to be free of manganese, stresses and strains. Carrying capacity to be 300 lbs. per sq. ft. on 5 ft. long clear span, supported on two ends only, figuring on a factor of safety of four. Caulk all joints around and between sidewalk lights with 3-Way Caulking Compound.

### TESTED LOAD CARRYING CAPACITY

Span	Lbs. per sq. ft.
4 feet	2240
6 feet	935
8 feet	561



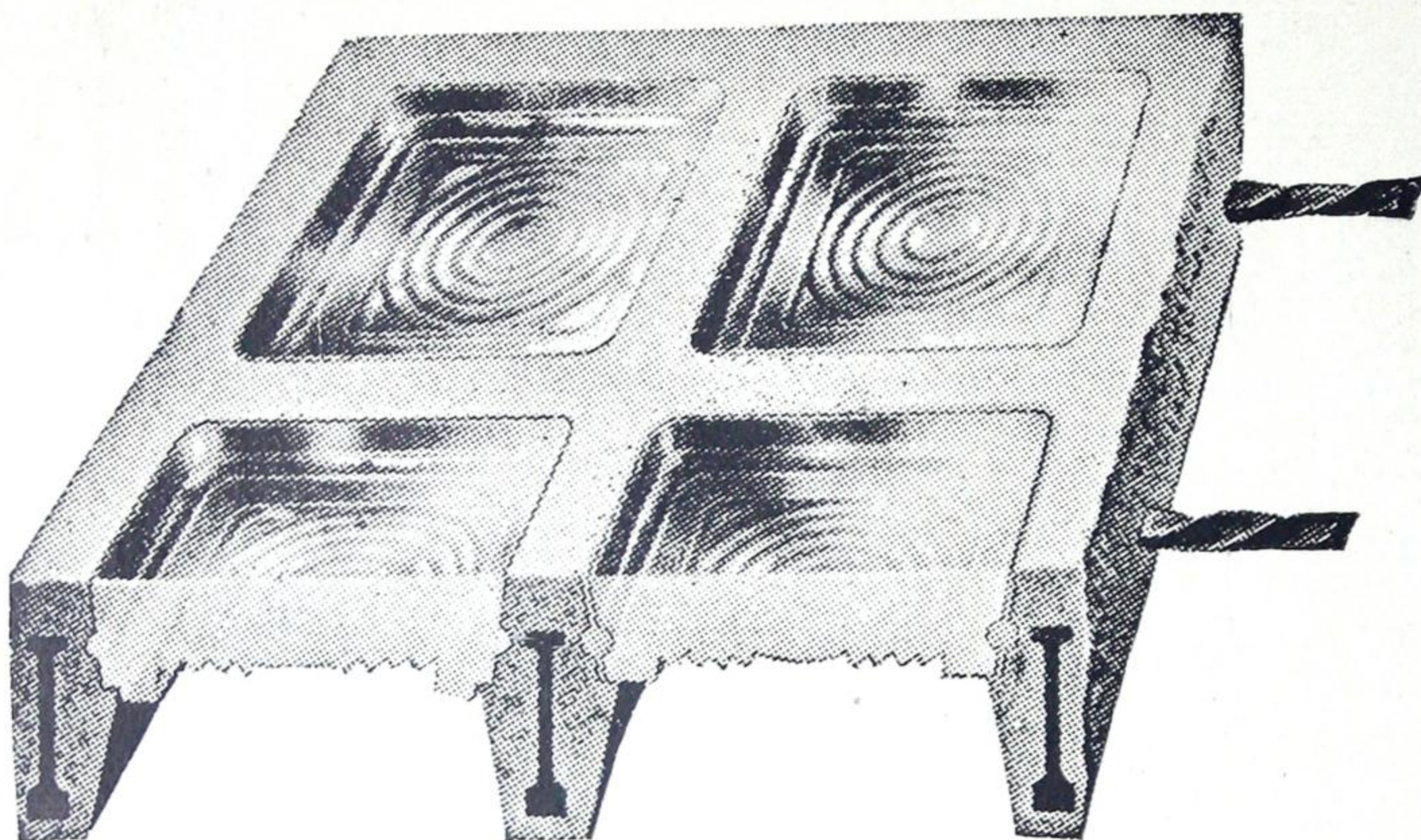
## Simplex-Fresnel

### The 71% Daylight Construction

**S**IMPLEX FRESNEL Sidewalk Lights give a greater amount of daylight area with all of the requirements of strength, safety to lenses, lack of vibration, ease of installation and repair than any other construction yet designed or built.

side, to increase their daylighting value. These lenses are spaced but  $\frac{3}{4}$ " apart so that a maximum of glass and a minimum of concrete are secured.

This is of double value—it not only gives the greatest possible percentage of daylight area but it reduces the opportunity of external expansion and pressure in the concrete and thus adds to the safety of the glass.



*Cross Section of Simplex-Fresnel Sidewalk Light Slab*

It is ideal, from a daylighting standpoint, for it gives from 60% to 71% of the sight opening all glass.

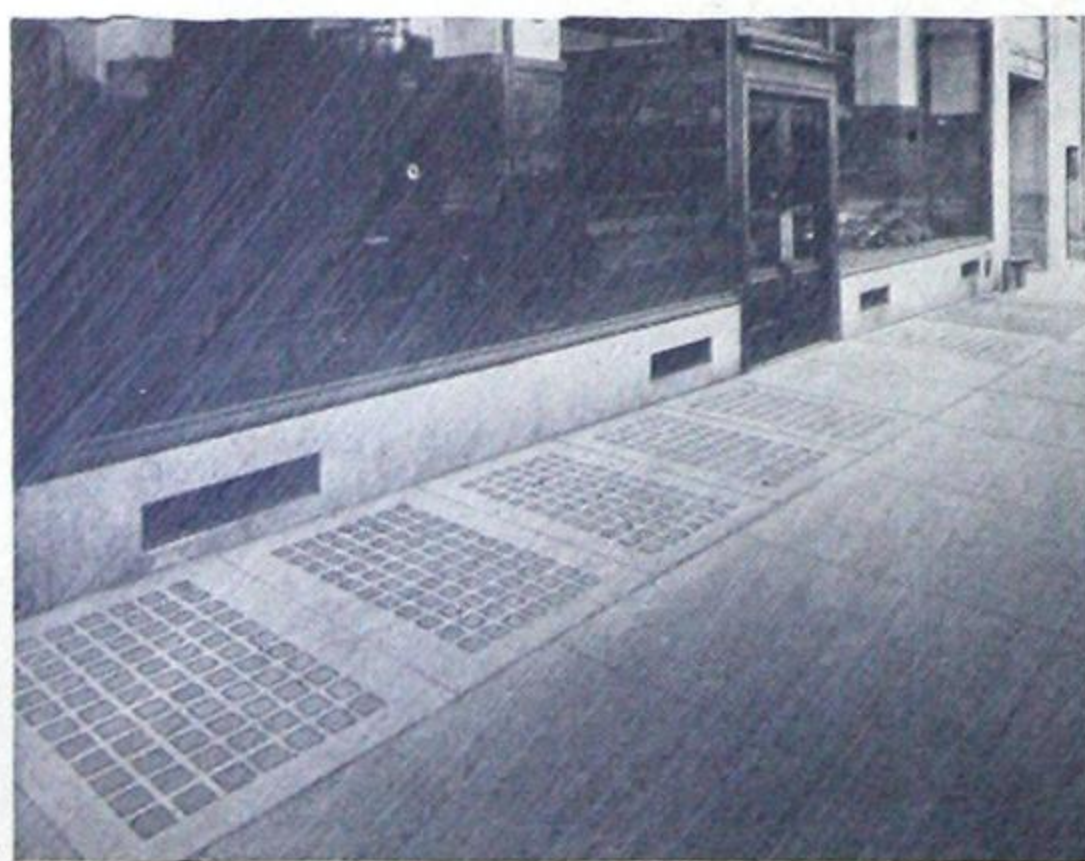
The lenses of polariscope tested perfect Flintex-Lazalite glass are 4" square, molded with the light diffusing Fresnel lens on the under

As is described on page four, the reinforcing is of  $1\frac{1}{2}$ " steel "I" bars, interlaced into a grid by deformed rods, both spaced  $4\frac{3}{4}$ " centers, and embedded in the concrete. Concrete is made only with reground cement 95% fine and selected and washed aggregate, with the water all measured.

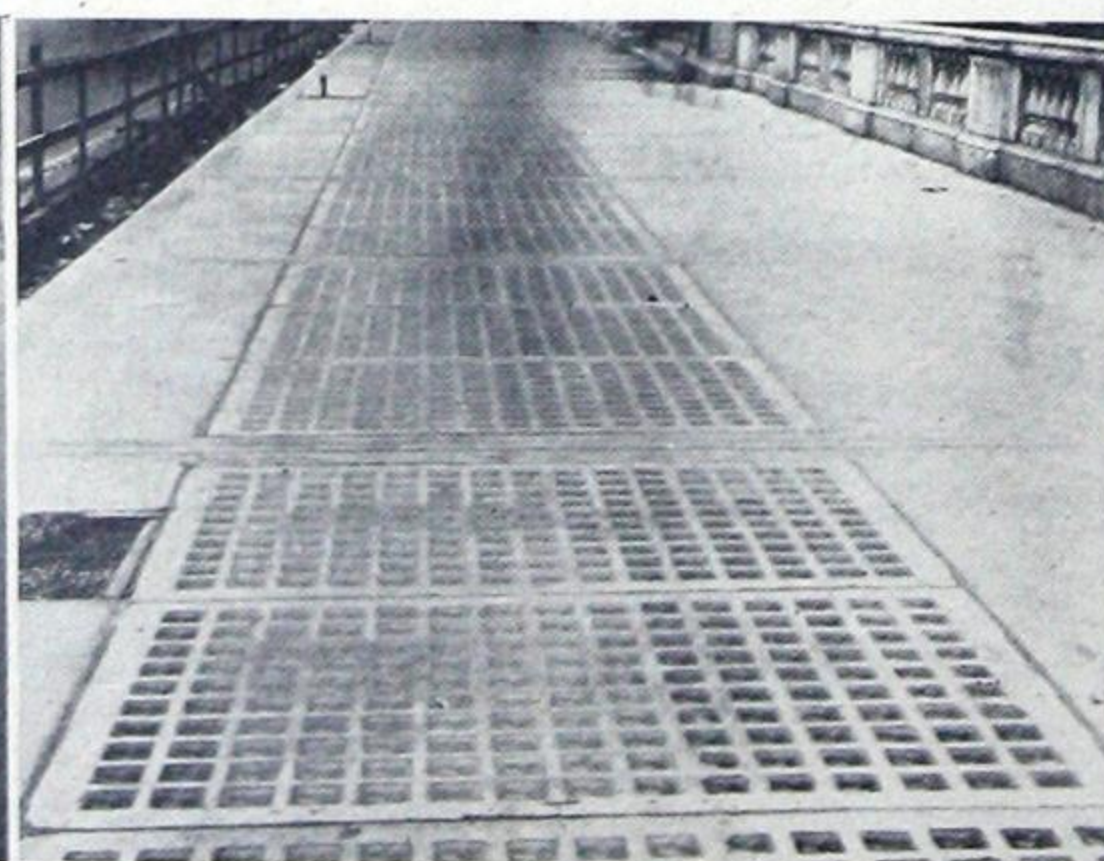
#### Greatest Strength

Simplex-Fresnel is the strongest of all sidewalk light constructions. Tests show that it will carry 800 pounds to the square foot on a five foot clear span. This is many times any possible traffic load and is insurance against springiness and vibration that are so damaging to glass.

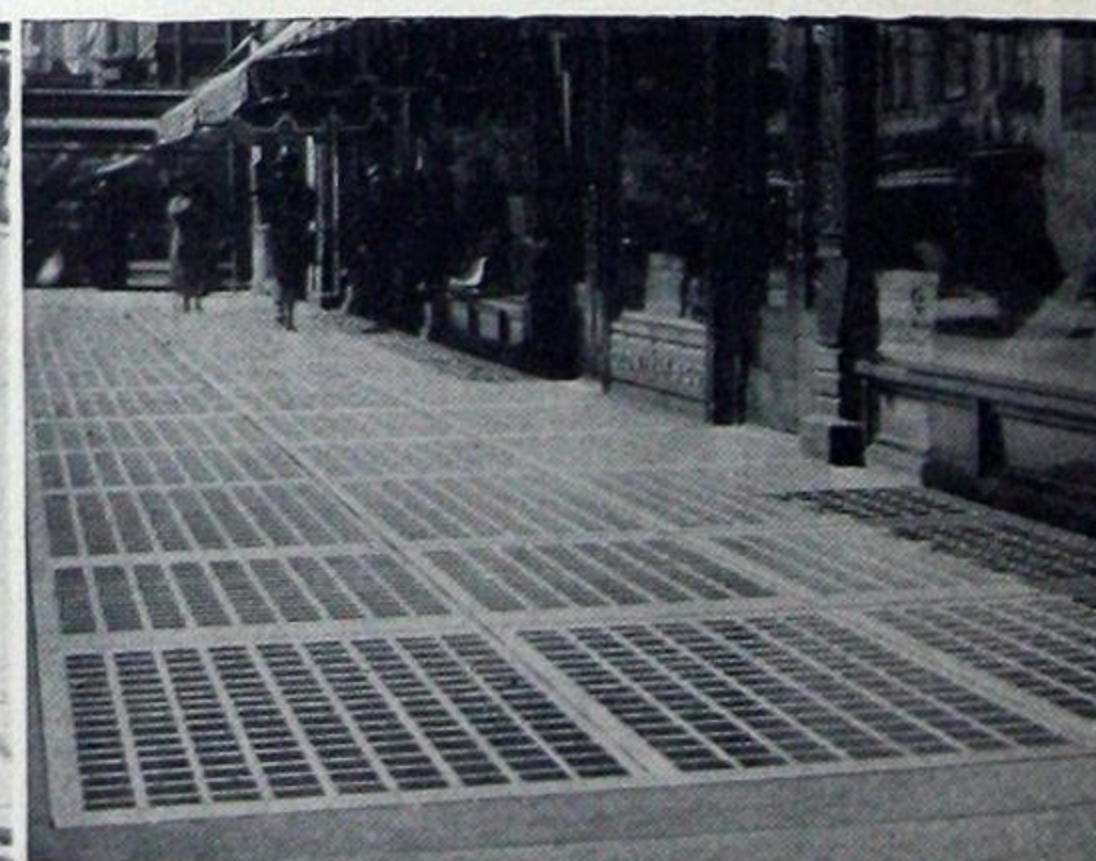
#### Details and Specifications on Page 9



*New York City, N. Y.*



*Union Station, Chicago*



*South Bend, Ind.*



# 3Way PERFECTED SIDEWALK LIGHTS Luxfer



*Four Inch Square Fresnel Lens of  
Polariscope Tested Flintex-  
Lazalite Glass*

Thus we insure the utmost in a perfected reinforced concrete for sidewalk light purposes.

## Replaceable Glass

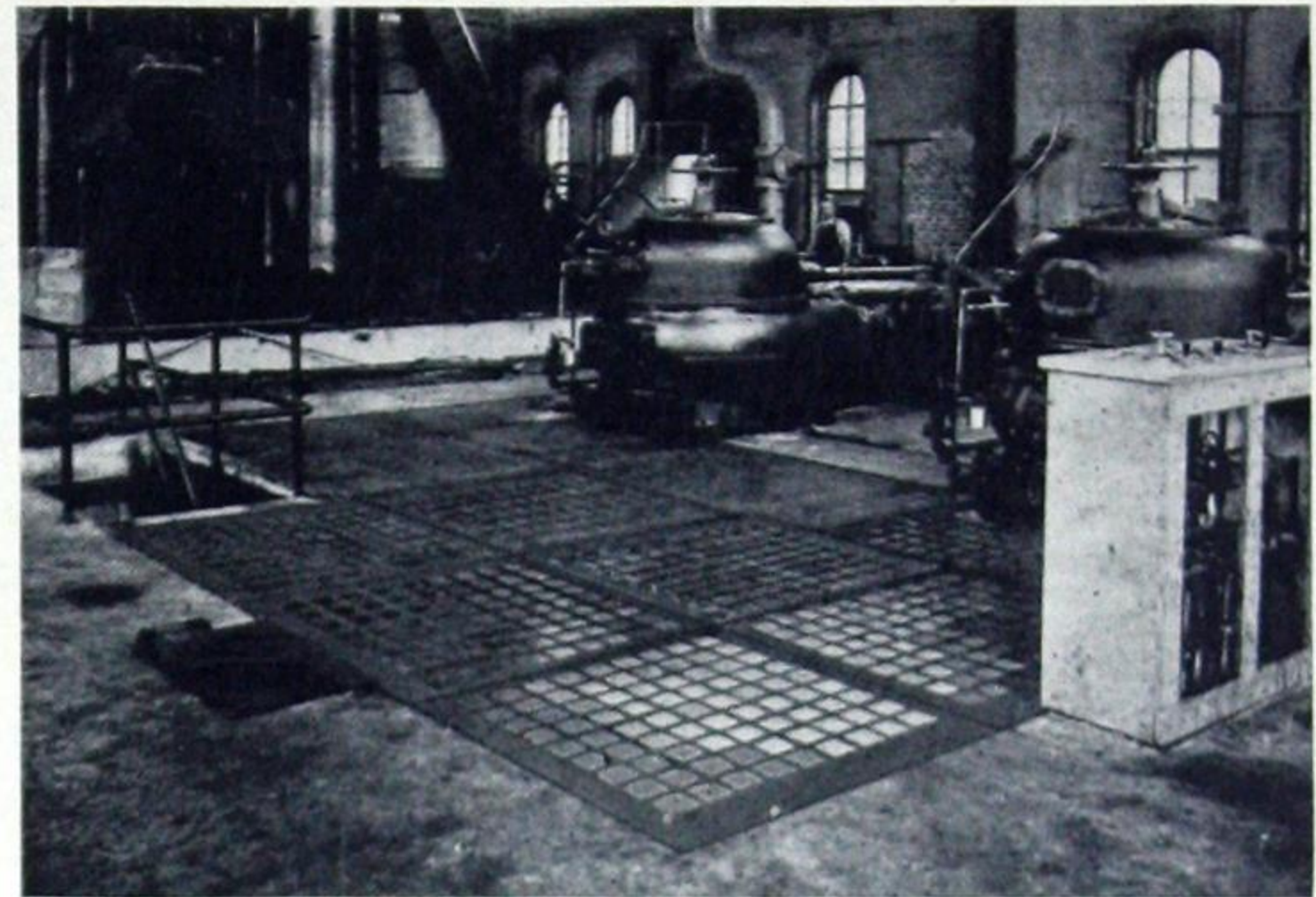
The sides of the Simplex-Fresnel lenses are so shaped that, if broken, they can be easily cleaned out of the concrete and a new lens caulked into seat with neat cement or white lead without chipping the concrete. This makes replacement quick and easy.

## Perfectly Finished

Because Simplex Fresnel slabs are made on metal molds under ideal conditions they are perfectly smooth, top and under side. All exposed surfaces are cement or glass. Soffits need no paint.

For those locations requiring a maximum of daylight—such as retail salesrooms, shops, etc., below the sidewalk, there is no construction that can approach the Simplex-Fresnel in

satisfaction and service, because of its great daylight area. And because of this, it is also without equal for use as floor lights, for it is fire resisting as well as strong.



*Simplex-Fresnel Slabs Used as Floor Lights in Waterworks  
Nashville, Tenn.*

If you want the greatest measure of daylight in the strongest construction, specify and get

## SIMPLEX-FRESNEL SIDEWALK LIGHT SLABS

3-WAY Sidewalk lights are built on the job by our experienced workmen or are supplied in factory finished slabs, ready to set.

## Details and Specifications on Page 9



*Omaha, Nebr.*



*Leavenworth, Kans.*



*Insurance Exchange, Boston, Mass.*



# 3-Way STANDARD Simplex

## Popular All-Purpose Installation

Either Factory Finished Slabs or Built on the Job

**3-WAY STANDARD SIMPLEX** Sidewalk Lights are probably one of the most popular installations.

3-Way Standard Simplex construction is the same as the other 3-Way Simplex constructions as previously described. A reinforcing grid of  $1\frac{1}{2}$ " steel "I" bars and deformed rods is embedded in the concrete. These are spaced  $4\frac{1}{4}$ " centers. In strength it nearly equals the Simplex Fresnel—carrying, under test, 700 pounds per square foot on a five foot clear span, supported ends only.

Lenses in the 3-Way Standard Simplex are of Flintex-Lazalite, each one tested under the polariscope and only perfect lenses accepted. Glasses are either  $3\frac{1}{8}$ " square or  $3\frac{1}{8}$ " round in plain lens or 3-Way prism. In light area the square give up to 60% of the sight opening glass and the round up to 48%.

Lenses are of the replaceable type, requiring no chipping of the concrete to replace.

Concrete, like all other 3-Way concrete is made with 95% fine reground cement and selected and washed aggregate.

Factory finished slabs are perfectly smooth and ready to set when received on the job. No exposed metal.

Details for 3-Way Standard Simplex Sidewalks, same as for Simplex Fresnel on page 9, except that glass is  $3\frac{1}{8}$ " in diameter instead of 4", and spaced  $4\frac{1}{4}$  inches.



Standard Glass for 3-Way Simplex Construction

Details Same as Simplex-Fresnel on Page 9. Except Glass is  $3\frac{1}{8}$ " and Spacing 4" Centers

### SPECIFICATIONS

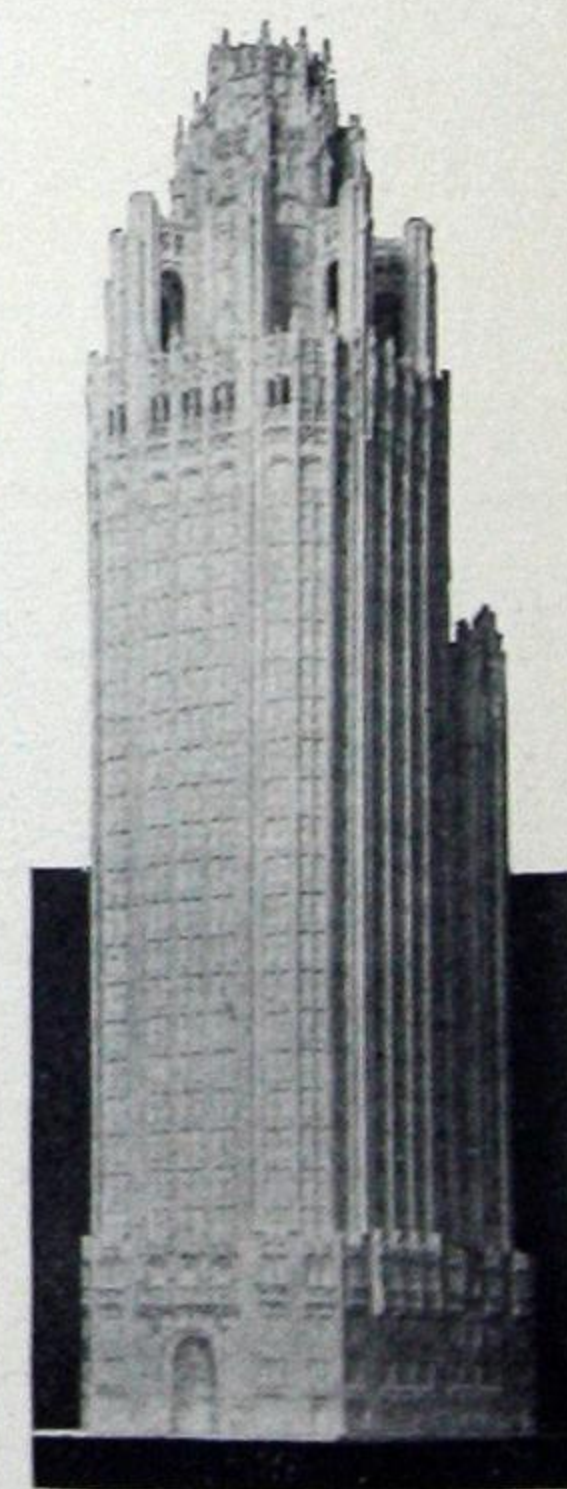
#### FOR 3-WAY

#### STANDARD SIMPLEX CONSTRUCTION

**SIDEWALK** lights where shown on plans to be as manufactured by the American 3 Way-Luxfer Prism Co. reinforced concrete type with no exposed metal, using  $1\frac{1}{2}$ " "I" bars with  $\frac{3}{8}$ " rods at right angles. Aggregate consisting of reground cement 95% fine, granite screenings and clean sharp torpedo sand. Glass to be  $3\frac{1}{8}$ " square (or round) replaceable type set  $4\frac{1}{4}$ " centers, polariscope tested, Flintex-Lazalite quality manufactured by Jeannette Glass Company, guaranteed to be free of manganese and without stresses and strains. Carrying capacity to be 300 pounds per square foot on 5-foot long clear span, supported on two ends only with a safety factor of four. Caulk all joints around and between sidewalk lights with 3-Way Caulking Compound.



Wrigley Buildings  
Chicago, Ill.

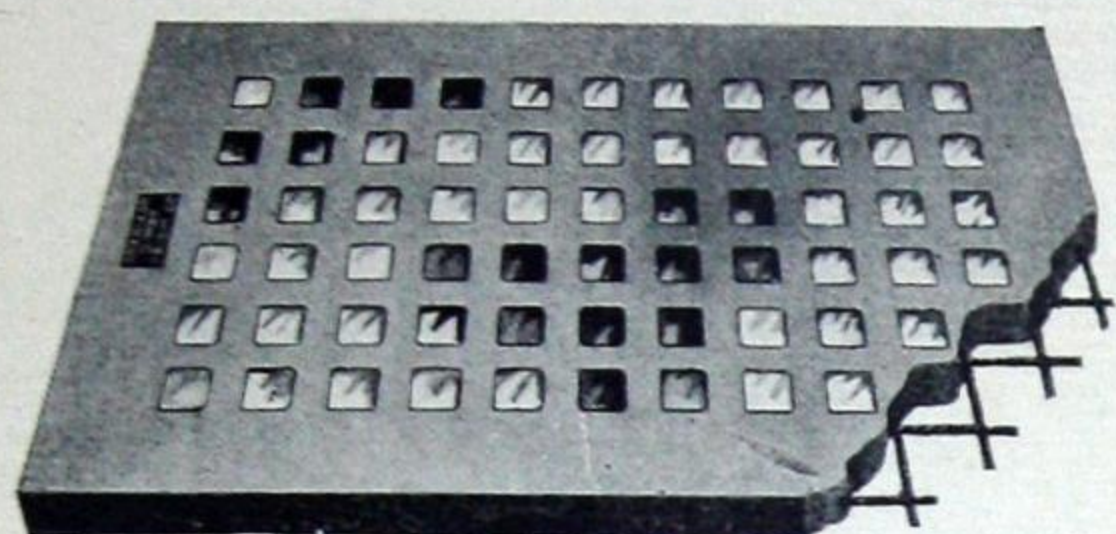


Tribune Tower  
Chicago, Ill.



## 3 Way-Luxfer REINFORCED Concrete

### The Original Ready-to-Set Slabs



*Section of 3 Way-Luxfer  
Reinforced Concrete Sidewalk  
Light Slab*

**3** WAY-LUXFER Ready-to-Set Slabs are probably best known in small towns where the slab installation was first used because of difficulty in getting skilled men to build sidewalk lights.

Reinforcing is by the Ransom system, with a rod each way between every row of glasses. Concrete, as in all other 3-Way constructions, is made only with reground cement, 95% fine, and selected and washed aggregate, with all water measured. It is absolutely waterproof and free of internal expansion.

Lenses are of polariscope tested perfect Flintex-Lazalite glass. They are  $2\frac{7}{8}$ " square in either the plain lens or the light distributing 3-Way prism; or  $2\frac{3}{4}$ " round glass in plain lens. These are both of the replaceable type without chipping the cement.

All constructions and all types of glass shown in this Bulletin can be supplied in Slabs, or built on the job by our experienced workmen.

#### *Other 3-Way Products:*

Prismatic Tile Store Front Transoms  
Ornamental Tile Store Front Transoms  
Sheet Prism Factory Glazing  
Steelead Skylights  
Ridge Ventilating Skylights  
Simplex Concrete Skylights  
Sidewalk Doors and Coal Hole Covers

Slabs are made on metal molds so that the top and underside are perfectly smooth. Edges and sides are smooth, ready to drop into seat over the opening without any work.

Slabs are  $1\frac{7}{8}$ " thick and seats should be so provided.

#### SPECIFICATIONS

##### FOR 3 WAY-LUXFER

##### REINFORCED CONCRETE No. 1 GLASS

**S**IDEWALK lights where shown on plans to be as manufactured by the American 3 Way-Luxfer Prism Company reinforced concrete type with reinforcing by the Ransom method, using  $\frac{3}{8}$ " reinforcing rods both ways. Aggregate consisting of reground cement 95% fine, granite screenings and clean sharp torpedo sand. Glass to be  $2\frac{7}{8}$ " square, set  $4\frac{1}{4}$ " on centers, polariscope tested, Flintex-Lazalite quality manufactured by Jeannette Glass Company; guaranteed to be free of manganese and without stresses or strains. Caulk all joints around and between sidewalk lights with 3-Way Caulking Compound.



*Magnolia Life Building  
Dallas, Texas*



# Advantages of 3 Way-Luxfer Sidewalk Light Slabs

## Factory Finished, Ready to Set

ARCHITECTS, builders and owners the country over, recognize the absolute superiority of 3-Way Factory-made Sidewalk Light (vault light) Slabs, because of their

### Economy Uniformity Dependability

The American 3 Way-Luxfer Prism Company, the originators and largest manufacturers of sidewalk light slabs, has, through years of study, experiment and experience, developed a perfected construction, based on the elements as outlined on the preceding pages. This is now acknowledged as standard, being used by other makers as a basis of comparison.

Added to the fact that 3-Way sidewalk light slabs are made of the most nearly perfect materials is the condition under which they are made. All work is done on tables, with steel molds so that perfect accuracy is secured.

### Economy

3-Way Factory Finished Sidewalk Light Slabs are made according to plans to fit the opening. They are delivered to the job completely finished, ready to be slipped to seat and the joint waterproofed. This means a great saving, for there is

No building of forms  
No delays on account of labor  
No delays because of bad weather  
No renewals or replacements.

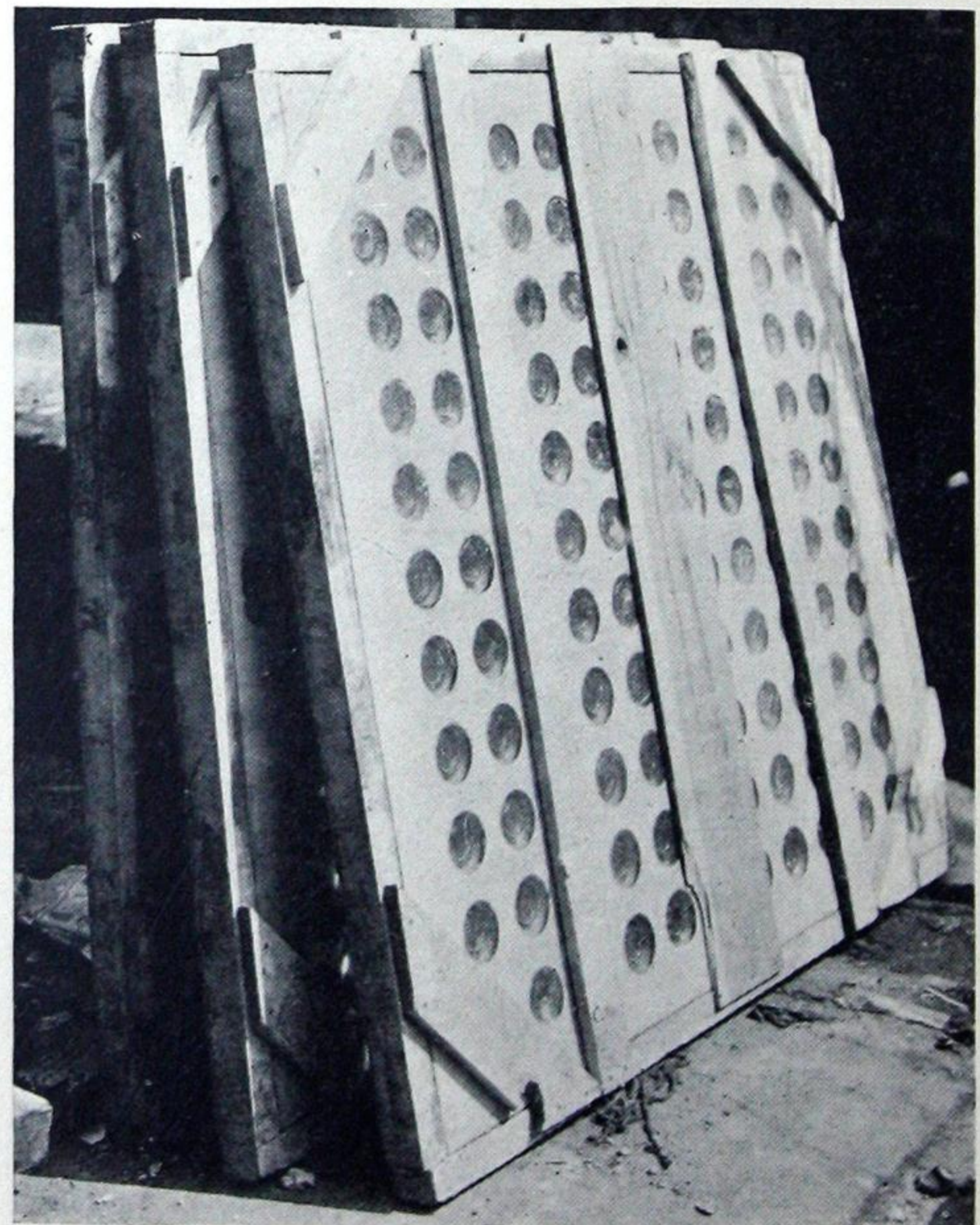
### Uniformity

3-Way Factory Finished Sidewalk Light Slabs are made on steel molds, in a factory where

even the temperature is regulated. All material is weighed and all water is measured. There can be no variation. Each slab fits perfectly the place it was made for. Workmen are skilled in building sidewalk light slabs and their long experience insures a satisfactory product, made exactly right.

### Dependability

3-Way Factory Finished Sidewalk Light Slabs do not leak—the Lazalite-Flintex glass does not chip, crack or shale—the surface does not crack and is as perfect after five years as after five days—in short, they require no upkeep attention or repairs. 3 Way-Luxfer Sidewalk Light Slabs make an absolutely permanent, satisfactory installation.

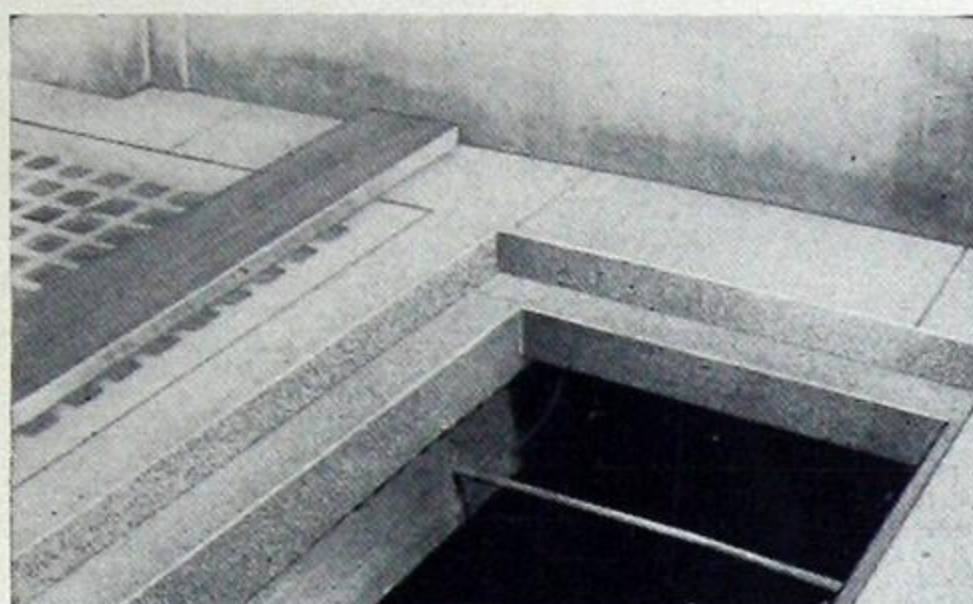


*Crated Slabs Stored on the Job Waiting Installation*



## Simple and Satisfactory Method of Installing 3-Way Sidewalk Light Slabs

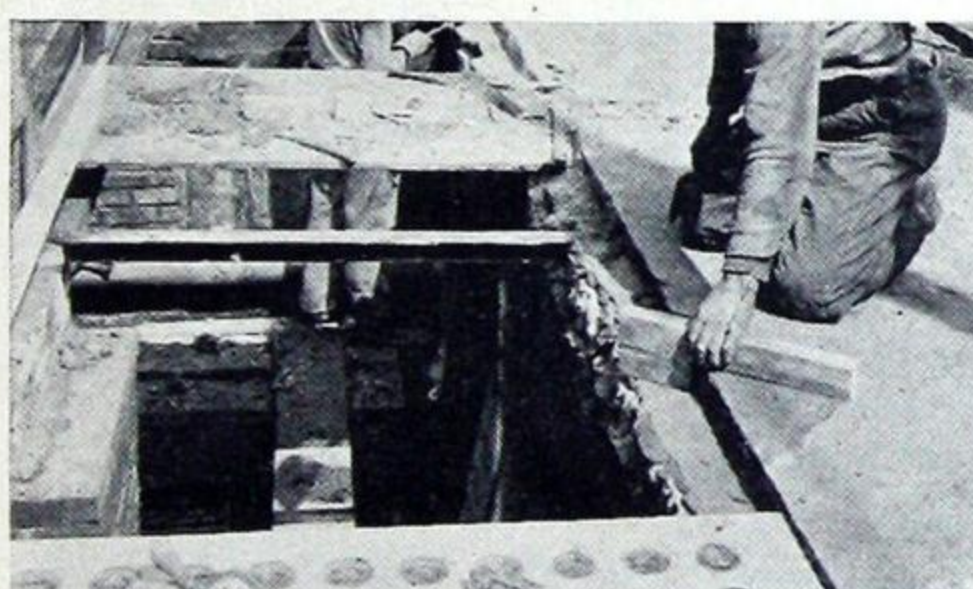
3-WAY Sidewalk Light Slabs are so accurately made that they are very easy to set and make **perfectly watertight**. For those who have not had experience in handling them, we outline, in picture and instruction, the various steps.



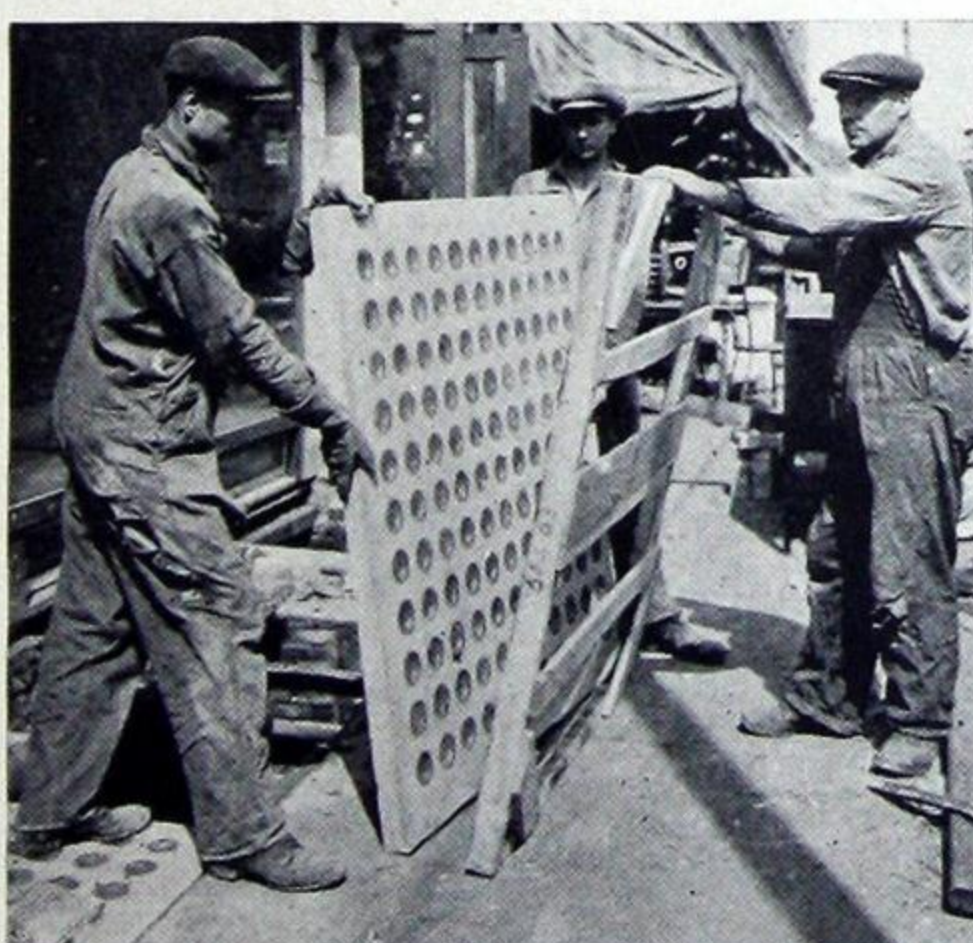
1—Be sure all bearings are level and of proper depth



2—Fill in front bearing with cement



3—Level off smoothly with straight edge notched just the thickness of slab



4—Remove slab from crate, laying it down over 2x4 put across center of opening

1st The preparation of bearing is most important. Be sure it is just the proper depth for the thickness of the slab. If not absolutely flush and even, block up with broken brick and—

2nd Fill bearing with cement mortar.

3rd Even off to exact depth of slab and cover with strip of tar paper to prevent bond.

4th Remove slab from crate by standing on edge and pulling crate away from slab. Put 2 x 4 across the opening and lay slab over this and slip into bearing at the building side.

5th. Remove the 2 x 4 and ease slab down into seat with the flat crowbars. Be sure that slab is flush or a trifle higher than surrounding walk so that water will not stand in joints.

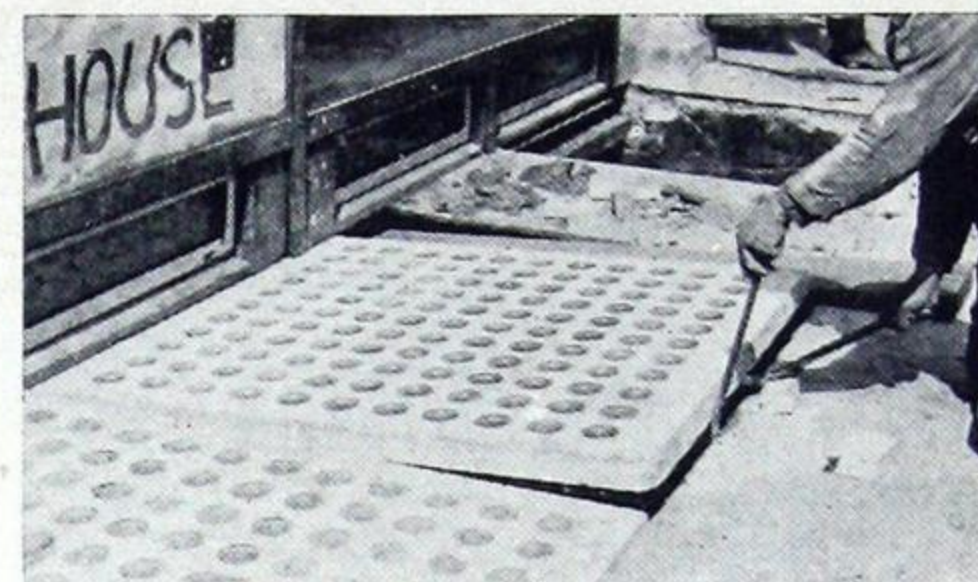
6th. Point up and smooth off the joints on the underside of the bearings with cement plaster.

7th. When slabs are all in place with  $\frac{1}{2}$  to  $\frac{3}{4}$  inch space between each and around sides, clean out all dust and particles and paint the edges of the slabs and sidewalk with 3-WAY PRIMER. Be sure edges are thoroughly covered and that there is no primer standing on the bearings.

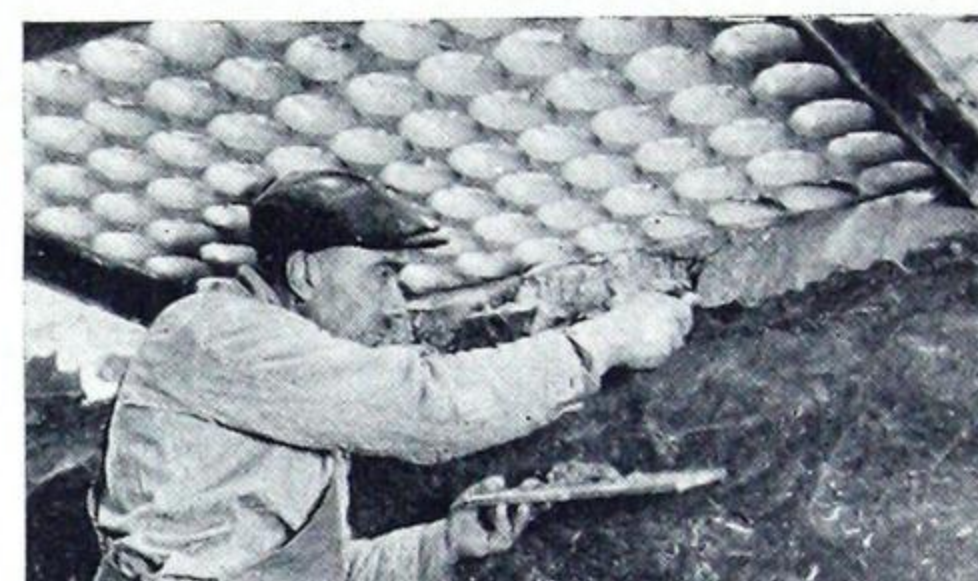
8th. Pack the joint  $\frac{3}{4}$  full of 3-WAY TYTE-LITE, working it down firmly on bearing and against sides of slabs.

9th. Pour in melted 3-Way Special Compound until the joint is entirely filled. When cool, scrape off any on the cement surface with a hot putty knife. Do not permit this compound to boil when heating.

If these instructions are followed it is easy for any good mechanic to lay 3-Way Factory-made and Finished Sidewalk Light Slabs and to have the walk absolutely watertight.



5—After slipping back edge of slab into place, remove 2x4 and lower front into position with bars



6—Point Up with cement underneath



7—Paint joints with Primer



8—Pack joint  $\frac{3}{4}$  full of Tyte-lite



9—Fill joint with 3-Way Special Comp.



## TABLE of CONTENTS

### 3 Way-Luxfer Concrete Sidewalk Lights

*Condensed Description of 3-Way Sidewalk Light  
Constructions as Outlined in this Bulletin*

#### Armored Glass

$3\frac{1}{2}$ " square Fresnel lenses or  $2\frac{3}{4}$ " round sunburst lenses set in cast iron shields or "cups" to make replacement fast and easy. Polariscope tested Flintex-Lazalite glass. Reinforced concrete Simplex construction with  $1\frac{1}{2}$ " "I" bars interlaced with  $\frac{5}{16}$ " deformed rods. Only reground cement used to insure a waterproof homogeneous mass to concrete. Strength, 600 pounds per square foot on a five foot clear span. Round glass No. 12; square No. 13.

#### Simplex Fresnel

4" square fresnel lenses set  $4\frac{3}{4}$ " centers; gives up to 71% daylight area. Lenses are polariscope tested Flintex-Lazalite glass, of replaceable type, No. 31 glass. Simplex concrete construction with reinforcing of  $1\frac{1}{2}$ " "I" bars, interlaced with  $\frac{3}{8}$ " deformed rods. Cement 95% fine, to insure a waterproof, homogeneous mass, without internal expansion. Strength, 800 pounds per square foot on a five foot clear span.

#### Standard Simplex

$3\frac{1}{8}$ " square or  $3\frac{1}{8}$ " round lenses, either plain or 3-Way prism, spaced  $4\frac{1}{4}$ " centers. Square give up to 50% of daylight surface; round up to 48%. Lenses are all polariscope tested. Flintex-Lazalite glass of replaceable type. Simplex concrete construction with reinforcing of  $1\frac{1}{2}$ " steel "I" bars, interlaced with  $\frac{3}{8}$ " deformed rods. Cement 95% fine, to insure a waterproof, homogeneous mass, without internal expansion. Strength, 700 pounds per square foot on a five foot clear span.

Glass Nos. 60-61-62.

#### Reinforced Concrete

$2\frac{7}{8}$ " square or  $2\frac{3}{4}$ " round lenses in either the plain, 3-Way prism, or multi-prism lens, spaced  $4\frac{1}{4}$ " centers. All lenses are polariscope tested, Flintex-Lazalite glass of replaceable type. Reinforcing is by the Ransom system of deformed and twisted rods. Cement 95% fine, to insure a waterproof, homogeneous mass, without internal expansion. Strength, 300 pounds per square foot on a five foot clear span.

Glass Nos. 1-2-7.

If interested in other daylighting media, ask for Bulletins on:—

Prismatic Pressed Tile Transoms for store fronts, either with or without firm name in ornamental glass.

Ornamental Diffusing Tile Transoms for store fronts. Very attractive and effective.

Steelead Skylights—an everlasting metal skylight construction, puttyless, paintless, with no upkeep.

3-Way Ventilating Skylights—give maximum of fully controlled ventilation with 100% daylighting.

3-Way Simplex Skylights—reinforced concrete, everlasting.

Sidewalk Doors and Coal Hole Covers of all sizes in stock.

American 3 Way-Luxfer Prism Co.  
CICERO, ILLINOIS

LONG ISLAND CITY, N. Y.