ILLUSTROUS OBSCURITAS.

THE LUXTER PRISM CO.
100. KING S.W.
TORONTO
The Luxfer Prism Co., Ltd.
100 KING STREET WEST, TORONTO, CANADA

MANUFACTURERS OF

PRISMS

FOR LIGHTING BUILDINGS
OF EVERY DESCRIPTION

We are Specialists in the Lighting
Problem, and can guarantee the Maximum
Quantity of Light Obtainable for Buildings

UNDER ANY CONDITION

Where Luxfer Prisms are used

In Store Fronts, Transoms, Windows,
or Sidewalks for lighting basements.
High-Class Memorial Windows, De-
corative Art Glass of every description,
Mosaic Floors, Glass Wall Tile.

ESTIMATES & DESIGNS CHEERFULLY SUBMITTED

WRITE US
This illustration shows how light rays are bent by means of prism angles

This illustration shows appearance of simple prism square. Note angles on surface

Over fifty different angles—a guarantee of scientific accuracy
Luxfer Products

Luxfer Pressed Tile **Prisms** for Store Fronts, Windows, Canopies and Skylights.—The **Prisms**, which are 4 inches square, are glazed to any size panel by our own special process of electro glazing with copper ribbon, are wind and weather proof, are accepted by insurance companies as fire-proof glass and are made in angles **to suit any conditions**.

**STORE FRONTS** can be made very decorative when desired by introducing borders and central ornaments of bevel plate or by using various tinted glasses. See pages 16 and 17.

**SIDEWALK PRISMS FOR BASEMENT LIGHTING.**—We make four different types of basement **Prisms**, the **"Multi Prism"** being the greatest reflector of light, the **"Standard Prism"** our second grade, the **"Little Giant"** our third and the **"Three Point"** our **lowest-priced Prism**.

We also make blank lights the same size as each grade of **Prism**. See pages 20 to 24.

**INTERLOCKING WROUGHT STEEL GALVANIZED OR PLAIN IRON FRAMES** for all sidewalk **Prisms**. See page 26.

**STEEL HATCHES** with or without **Prisms**. See page 27.

**MEMORIAL WINDOWS.**—We manufacture high-class stained glass memorials and are prepared to furnish designs on application.

Ornamental and Decorative Glass of every description, Marble Mosaic Floors, Glass Wall Tiles, Canopy Frames and Domes, Ventilators.
We have many letters from all parts of the Dominion from purchasers of Luxfer Prisms similar to those published herein.

Copy of Letter from the Gurney Northwest Foundry Co.

The Luxfer Prism Co., Ltd.,
Toronto, Ont.

Gentlemen,—Regarding the Luxfer Prisms which you installed in our office. The previous Prisms which we had before were practically of no use to us, and we must say that the results obtained by the Luxfer Prisms have been everything that you claimed they were, and in place of the office being dingy and having to use electric light nearly all the time, it is now so we can see practically in every part of the office without the use of electric light, unless it is really a dark day outside. We would have hardly believed it were possible to make the difference in the lighting of the office that those Prisms have.

Yours truly,
(Signed) Gurney Northwest Foundry Co.
Copy of Letter from the Manager

The Luxfer Prism Co., Limited,
100 King St. west, Toronto.

Gentlemen,—We are very pleased to be able to express to you our great satisfaction at the results obtained from the Luxfer Prisms which you have supplied in our skylights.

Every portion of the Bank Office is now thoroughly lighted with a clear white light which appears to be easy and comfortable to the eye. With the ordinary glass we have been using we had to use the electric light very frequently during business hours, but now we do not require it at all.

Yours truly,

F. J. Gosling, Agent.

SUCH EVIDENCE AS THE ABOVE IS INDISPUTABLE
Three Facts

Regarding our "Luxfer System" of lighting buildings should be appreciated at the start.

Fact No. 1

PROVEN MERIT.—The day has passed when architects and builders looked upon "Luxfer" installations as experiments. The "Luxfer" system has proven its worth and efficiency in the equipment of thousands of buildings involving daylight problems of maximum difficulty. Some one of the different forms of "Luxfer" is not only desirable, but necessary in practically every building operation.

Fact No. 2

SCIENTIFIC CONSTRUCTION.—The "Luxfer" system employs certain forms of Prismatic Glass, but no other than our Prisms are "Luxfer." The difference between our system and other systems is the difference between good results and dissatisfaction, between science and guesswork. Architects and builders are aware of this fact and will corroborate this statement.

Note.—Luxfer Prisms are designed by the leading refractionists of the world, are absolutely correct as to angles, and are made of the finest quality of pressed crystal glass by our own special process.

Fact No. 3

GUARANTEED SERVICE.—All lighting problems are referred to our expert on daylight illumination. We guarantee the correct angles of Prisms for any condition, thus obtaining the greatest possible quantity of light from any window distributed through the interior in the direction desired.

You need feel no hesitation in seeking our advice on any problem of this nature as the same will be cheerfully given.
Luxfer Prisms

Bring unfailing results because they are always adjusted to meet the conditions.

**IT IS NOT A MATTER OF GUESS WORK.**—Angles are adjusted on scientific principles, and we guarantee that Luxfer Prisms will accomplish all we claim for them.

By the use of Luxfer Prisms the upper window space which is an obstacle to artistic window trimming, is utilized in flooding the store interior with bright daylight.

Luxfer Prisms carry the daylight equally to every part of the room and successfully solve the problems that are unsatisfactorily attempted with artificial light. Who is there that cannot recall the displeasure with which purchases are considered in a poorly lighted store where artificial light is deceiving. Many sales are lost daily from this cause alone. **Few people will buy unless they are satisfied, and it is impossible to satisfy a careful buyer in a poorly lighted store.**

**LUXFER PRISMS ARE NOT AN EXPENSE**—they are a “gilt-edged” investment, returning large dividends to the investor. A saving of 25 to 50 per cent. in the cost of artificial lighting is frequently effected. Light wells increase insurance rates, and are sources of danger, to say nothing of occupying valuable floor space. They can be dispensed with in nearly every building by the proper use of Luxfer Prisms.

Do not hamper your architect with false economies. The cost of a Luxfer installation of Prisms is only slightly more than for the cheap so-called “prismatic glass.” The difference is soon saved and then, for all time, you have perfect daylight fixtures.

**Three Classes of People who Cannot Afford to Delay Installing Luxfer Prisms**

**MERchants** whose premises are not flooded with daylight.

**MANUFACTURERS** of all classes.

**OWNERS OR LESSEES** of basements which are not utilized to their greatest advantage.
Seeing is Believing

We show herein reproductions from photographs of the premises of Drummond, McCall & Co., Toronto, before and after the installation of Luxfer Prisms as transoms. The office is 85 feet deep.

Drummond, McCall & Co.'s premises before the installation of Luxfer Prisms

The exposures were all made within the same hour under identical conditions, and absolutely no favor was shown regarding the sun's rays or shadows.
The Result Illustrated

This is a fair example of the work done by Luxfer Prisms, the whole of the interior of the office being beautifully lighted, whereas, without Prisms, it was a dark, gloomy place.

Drummond, McCall & Co.'s premises after the installation of Luxfer Prisms.

THIS ILLUSTRATION OF A FACT IS INDISPUTABLE and can be seen at any time by anyone interested.
Reasons
Why Luxfer Prisms Should be Specified and Used

They are made of the very best pure white flint glass. They will deflect the light from the sky to any desired point.

Are scientifically constructed by the world’s best-known refractionists.

Are made of glass that is considered by scientists to contain the maximum refractory powers.

Are wind and weather proof.

Increase the value of premises from a renting standpoint.

Are doubly valuable on gloomy or cloudy days.

Lower insurance where Luxfer fire-proof Prisms are used.

Five per cent. reduction in insurance premiums where our Luxfer Fire Proof Skylights are used.

Are past the experimental stage.

Make the sky “shine in” the windows.

Give a safe, healthful, natural light.

Increase illumination from 5 to 25 times.

Make basements light and dry as ground floors.

Temper the sun’s bright glare.

Are made in over 50 different angles, suited to as many cases.

Improve the appearance of show windows.

Give white light, and show colored goods in their real hue.

Are fire-proof—proven by actual experience.

Bring out the true beauty of expensive stained glass.

Are stronger than plate glass, and are glazed in solid copper bars.

Reduce light bills and reclaim dark store space.

Commonly light interiors 100 feet deep and over.

Are not gas or electric light fixtures, but daylight fixtures.

All our products are guaranteed as to quality.

Tell their story themselves at the test room.

100 King St. West, TORONTO

INSPECTION INVITED

The new Winch Building, corner of Hastings and Howe Sts., Vancouver. Thos. Hooper, Architect. The building to the right is the new Post Office. 1000 feet of Luxfer Sidewalk Prisms used in the Winch Building; 800 feet used in Post Office.
Lighting Buildings with Prisms

To those contemplating the use of Prisms for daylight illumination it is absolutely essential that the correct angles should be used in order to secure the maximum quantity of light for any building, store, or room.

We guarantee in “LUXFER PRISMS” correct angles, thus securing for our client the greatest possible quantity of light from any window space.

Thousands of buildings equipped with “Luxfer Prisms” throughout the Dominion corroborate these facts.

If You Are Interested

In the ideal daylight illumination of a new building or an old one, we would esteem it a favor if you would write us, and we will be pleased to furnish any information desired regarding our modern methods of lighting buildings, based on scientific principles.

We have numerous testimonials from all parts of the Dominion which we would have much pleasure in forwarding to anyone interested.

Competitors are endeavoring to market so-called PRISM Glass, which, in many cases, diminishes rather than increases the light.

Do not be misled by the “as good as Luxfer” story. To secure the best is the greatest economy—even though the initial outlay is a little more than for inferior goods.

Architects, in specifying “Luxfer Prisms,” will secure for their client the Prisms that are recognized the world over as the BEST.

LUXFER PRISMS ONCE USED will make you our friend and secure us your endorsement for exceptional merit.

WRITE US TO-DAY
Buildings

Lumsden Building, Toronto, one of Toronto's new office buildings. 800 square feet of Luxfer Sidewalk Prisms used in this building.

Imperial Motor Car Co.'s new building, Toronto. 1000 feet of Luxfer Sidewalk Prisms used in this building.
Canopy

Little or no light from the sky strikes the windows on narrow streets or lanes, in light wells or where very high buildings stand opposite. Luxfer Prisms must then be installed as canopies. An independent iron frame, ornamental if need be, supports the Prism panel at an angle from the wall, and protects the window as would an awning. It is generally hinged at the top, and the bracket support may be movable or not. All the available light rays from the sky thus fall upon the panel and are bent horizontally inward.

In appearance the canopy is attractive, and the resultant light strong and well distributed.

Awning with Show Window

As seen in the accompanying drawing, there is no draw-back to the use of an awning for shading attractive show windows, only it should work on a roller below the Prisms. The window's sloped roof permits the light to fan out, and affords the Prisms full scope.

Such an awning may be made exceedingly neat—up or down—by the use of a narrow curtain and slender roller; the latter on a broad store is immediately supported by friction carriers. Prices quoted when desired.
Window Prism and Ornamental Glass Combination Store Front

Frequently we find that it is the desire of an architect or owner to secure an ornamental store front or window, and also to obtain at the same time practically as much light as if Prisms are used exclusively.

We accomplish this by introducing in the different panels decorative ornamental glass borders, and centre pieces. The ornamental portion of the front may be made of bevel plate glass, or very delicate tints. Panels for names, if desired, can be introduced in the centre, or ornamental centre pieces used.

Prisms used in this manner present a very artistic appearance, and the light is only slightly reduced from that obtained from an exclusive Prism installation.

We should be pleased to furnish designs to architects or owners, upon request, showing the most “down-to-date” and artistic manner of obtaining a splendid light in an ornamental store front.

This style of store front is very attractive from the street, and enhances the beauty of the premises both from the interior and exterior.

The panels can be made either in solid copper, brass or electro glazing.

If desired, we will undertake the re-modelling of store fronts in old buildings, including in our work the designing of same, and will submit estimates for a complete modern front, guaranteeing an artistic appearance, and the maximum quantity of light within.

See pages 16 and 17 for illustrations.

Data Required

Enquiries should be accompanied by sketches containing the following data:

(a) Size of windows or panels required.

(b) Width, length, and height of room to be lighted, and position of windows.

(c) Width of street or yard, and height of building opposite which limits the light.

(d) Plan of any partitions or specific obstructions to light in the interior of room.

(e) Indicate north, south, east and west points on sketch.
Mahon Bros., Halifax, N.S. Store magnificently lighted with Luxfer Prisms

Ed. Mack, Toronto
Luxfer Window Prism

SPECIAL ONE ANGLE

Made in Five-Inch Square Tiles

This is a cheaper window prism than our regular “Luxfer special angle” prisms, and on account of the larger size of prisms and the fact that they are made in one angle only, we can offer them at a somewhat lower figure than our high grade prisms.

We shall be pleased to quote on this our “one angle prism,” glazed in copper or zinc bar, or by our special electro copper glazing process, they can be glazed in lead if desired, the latter method being the cheapest.

Where a good prism is desired for open conditions, that is, fairly wide streets and low buildings opposite windows, this prism will give splendid results. Architects and Builders will find it the best on the market for the price asked.

When glazed in solid copper or by our electro copper glazing process, they will greatly improve the appearance of any building wherein they are used, as well as assuring to the purchaser an evenly distributed flood of pure white daylight throughout the interior.

WRITE US FOR PRICES

STATE QUANTITY REQUIRED
Above is an illustration of our large size skylight prism. It is particularly desirable for skylights, either sloped, arched or flat, and can be installed in our wrought steel interlocking frames the same as all our sidewalk prisms. It is a splendid lighting prism for large open spaces. It is comparatively inexpensive and one for which the demand is increasing.

We can also recommend it for interior floor lights, where a good prism or floor light is desired to use in spaces over light wells. Architects and owners will find it particularly desirable.

We also manufacture plain or blank lights the same size as the prism, to be used where a direct light would be required. (See illustrations at top of page)

When carefully installed according to specifications on page twenty-seven, a water-tight roof or skylight will be the result.

Where this lighting scheme is used to close in open light wells, a material reduction in insurance rates is the result, for it means practically a fire-proof floor or skylight wherever used.

**Insurance companies grant a reduction of five per cent. on premiums where our Fireproof Skylights are used.**

See also opposite page

**WRITE US FOR PRICES**

**STATE QUANTITY REQUIRED**

Note.—See page twenty-six for description of interlocking frames.
Luxfer
Modern Skylight Installation

Above is an illustration of a Skylight recently installed in the Home Bank, Toronto. Chadwick & Beckett, Architects. In this instance 600 square feet of our “Three Point” Prisms in inter-locking steel frames were used. This is an ideal Water and Fire Proof Skylight and a splendid lighting investment.

SEE PAGE TWENTY-FOUR FOR ILLUSTRATION OF “THREE POINT” PRISMS

Fire Insurance Premiums are reduced Five per cent. on Buildings where such Skylights are used
Special to Architects

In order to insure our best grades of prisms being used in your buildings, we would respectfully request that in specifying that you state specifically the grade of prisms required, otherwise under the general term of "Luxfer" a contractor is LIABLE to claim the privilege of using one of our lower grade prisms, when it would really be the intention to use our best grade, hence if our best grade of sidewalk prisms are required, specifications should read as follows:

**LUXFER MULTI-PRISMS**

set in wrought steel galvanized frames, according to specifications to be furnished by manufacturers (or whatever other grade required), and state if the non-slipping frame is desired, such as "Luxfer non-slipping device introduced in concrete on frames between rows of prisms at right angles with building. Or, IF WINDOW PRISMS, "Luxfer Window Prisms" glazed in solid copper bar, and to be of the correctly calculated angle to be determined on by The Luxfer Prism Co., Toronto.

With a specification worded so that there will be no misunderstanding, cause for difference of opinion will be entirely eliminated and will be more satisfactory to both Architects and Contractors, insuring to the Architect and owner a well-lighted building and a prevention against loss to all parties concerned.

**Luxfer Non-Slipping Frame**

*For Sidewalk or Pavement Lights*

Any of our sidewalk prisms can be installed in this frame. It is a device that is new, novel, and absolutely original with ourselves; a frame in which sidewalk lights can be installed, so that the intersecting strip of concrete, running at right angles with building, can be made practically "non-slipping."

This latest and newest method of installing sidewalk lights has recently been adopted by the Ottawa Board of Control for that City, and its merits are such that we confidently expect that there will be a big demand for this frame.

We shall be pleased to send to Architects or parties interested upon application descriptive drawings and information pertaining to this frame.

See also pages nineteen to twenty-five regarding Sidewalk Prisms.

**All frames made by us are guaranteed for strength and durability.**

**Write us To-day for Full Particulars**
Kandy Kitchen, Guelph, Ont. Beautifully lighted with Luxfer Prisms from front to rear

La Plaza Theatre, Toronto. Ornamental Theatre Front. All the decorative glass, wall tiles and mosaic floors in this building designed and made by us
Windows

These have ordinarily an upper and lower sash. Both, if small, must be fitted with Prisms to secure adequate light. Otherwise, the Prisms are installed in a single panel, made up to full glass size, in the upper sash—fitted in a rabbet and fixed with ordinary stops like a sheet of plate.

The result is good when the window is set well forward to the outer face of the building and when no mouldings or overhang shades the top of the sash.

Luxfer Prisms do their best work where the light from the sky or clouds falls fullest upon them.

Forilux

Frequently the windows are set back, causing the glass to be shadowed at sides and top by the external brick or stone work. The Prisms must then be fitted in an independent plain, or ornamental frame, outside the window and flush with the face of the building, where each square foot of Prisms will render full value. If the inner window be kept free of dirt the light sheds through with efficiency imperceptibly diminished—Luxfer Prisms need cleaning only half-yearly.

The forilux may be made to conform to the architectural style of the building, and adds to rather than detracts from its beauty.
Make Your Basement Dry, Sanitary and a Greater Revenue Producer

In modern buildings, architects are no longer using the old style iron gratings for areas. Glass Prisms set in concrete on steel frames are to-day specified by all the leading architects.

The reasons are obvious. Foremost among them is LIGHT thrown to the rear of basement, not wasted at bottom of area.

*Doing away with* unsightly rubbish holes below show windows, wherein there is always danger from fire to say nothing of their unsanitary condition.

Eliminating danger of tripping by pedestrians. They can be introduced as skylights over light-wells or in floors to increase the light in the basement.

Test of Strength of Sidewalk Panel

March 23, 1909,
Panel being made as follows:
4 ft. x 4 ft. of T bars, 1½ in. x 1⅛ in. x 11/2 in.
Interlocked with channels 1½ in. x 7-16 in. x 3-16 in.
Set with our Standard Sidewalk Prism, 4 in. x 4 in. top surface.
These were set in with a cement mixture and allowed to stand for ten days.
Then the load, super-imposed between bearings on the panel was 2,700 lbs., and after standing for twenty-four hours there did not appear to be any deflection whatever.

March 24, 1909.
After twenty-four hours of above test, 3,420 lbs. was added to above weight, making 6,120 lbs. in all, the panel showing no deflection whatever. This test demonstrates the fact that this panel would carry a load of over 300 lbs. to the square foot without making any perceptible deflection.
Sidewalk Prisms for Basement Lighting

We are equipping 90 per cent. of the buildings of Canada with Luxfer Sidewalk Prisms for the following reasons:—

We are prepared to substantiate our claims for superiority.

We know whereof we speak.

We can convince you that our Prisms are the best and that we have the best lighting investment for you.

Points of Superiority

Prisms that are strong and durable.

Prisms that have the greatest reflecting surface.

Prisms that reflect the light in powerful rays on account of superior glass made by our special process.

Dirt on the sidewalk face mars the light imperceptibly.

Greatest glass area; consequently greater light within.

We sell PRISMS not space for concrete filling.

Our frames are the heaviest manufactured, tested for strains up to 400 lbs. per square foot.

We have a special machine for closing every joint between the channel and cultivator bars, thereby greatly adding to strength of frame.

We guarantee a water-proof installation.

The galvanizing is A1.

They can be installed by any mason.

We will furnish names on application.

Samples of frames and Prisms sent to any address upon request.
Sidewalk Prisms for Basement Lighting

"Luxfer Multi-Prism"

"Luxfer Multi-Prism," having 19½ square inches of reflecting surface.

This Prism is positively the greatest light reflecting Prism obtainable at any price. It is the strongest sidewalk Prism on the market, and a Prism that, from every standpoint, will prove the most economical. It is particularly valuable where the best possible light is desired, and where one is restricted as to space available for an installation. One square foot of Multi-Prisms will do the work of two square feet of any other Prism on the market.

The Multi-Prism is gaining favor rapidly and is now being specified by many of Canada's leading architects. Many of the best buildings erected in Canada have been equipped with Multi-Prisms by us in the last few years.

See pages twenty-nine and thirty for partial list of a few buildings equipped with "Luxfer Prisms" in the last few years.

"Luxfer Standard Prism"

"Luxfer Standard Prism" in wrought iron frame, having 16 square inches of reflecting surface.

The "Standard Prism" is an excellent Prism, strong in reflecting power. All over-head light strikes through the Prism and is reflected from two lower sloping surfaces. The "Standard" will prove a splendid investment, far stronger in fact than any other make of Prisms, but falling short of the all-round excellence of the Multi-Prism.

In the use of our "Standard Prism" splendid lighting results are guaranteed and the cost for repairs practically nil.

See page nineteen for test of frame; also page twenty-six for description of frame.
Copy of Letter from Mr. Wm. Fingland

The Luxfer Prism Co., Ltd.,
100 King St. west, Toronto.

Gentlemen,—I take pleasure in writing you to let you know that we have your Prisms successfully installed in the Enderton Building, and also to express my appreciation for the prompt way in which the order was filled. I consider your method of installing Prisms in your interlocking wrought steel galvanized frame more satisfactory than any other plan of installing Prisms for basement lighting. Also that your Multi-Prism is the best sidewalk Prism obtainable at any price. I have a well-lighted basement in the building referred to, and I am thoroughly satisfied with your Prisms, and can unhesitatingly commend your frames and Prisms and methods of installing same to anyone interested in the problem of basement lighting.

Yours truly,
(Signed) Wm. Fingland.

Note.—See page twenty-one for illustration of Multi-Prisms.
Sidewalk Prisms for Basement Lighting

"LUXFER LITTLE GIANT PRISM"

A Strong, Durable, and Splendid Lighting Prism

Luxfer Little Giant Prism, having $14\frac{1}{2}$ square inches of reflection surface. Thickness from bearing to top of Prism 1 inch.

In this Prism we can offer an article that will give a splendid light, a Prism that is practically indestructible and one that none need hesitate to use.

The demand for this Prism is increasing and some of the best buildings erected in Canada during the last few years have been equipped with it. Such buildings as the R. V. Winch Building, the new Post Office, the Bank of British North America and the "Europe" Hotel, all of Vancouver, as well as many others.

See pages twenty-nine and thirty for partial list of buildings equipped with "Luxfer" Prisms.

Showing difference between Little Giant Prism reflecting light inwards towards interior of basement and Glass Blank, allowing light to pass down naturally.

Note.—See page twenty-six for description of frame.
Sidewalk Prisms for Basement Lighting

"LUXFER THREE POINT PRISM"
Eleven Square Inches of Reflecting Surface

We can offer in this Prism as good an article as can be obtained for the price asked.

It is a better lighting Prism than any other make sold at or near the price, and we offer it only where a low-priced Prism is desired.

The thickness of glass from top of Prism to bearing is one inch.

This Prism was made to meet competition but, not satisfied with that, we are offering a better article than our competitors and not asking any more for it.

We would much prefer, in the sale of Prisms, to interest the trade in either the Multi, Standard or Little Giant Prisms, knowing them to be more durable and altogether more satisfactory.

See pages twenty-nine and thirty for partial list of buildings equipped with "Luxfer Prisms" also page twenty-six for description of frame.
To make the underground basement as bright as the store itself—and with natural daylight—seems impossible, yet such is the achievement of the Luxfer system.

A Lucidux, or curtain, hung below the head beam, and made of window Prisms of various carefully calculated angles, intercepts the light from the pavement Prisms, refracting it horizontally into the cellar.

The combination is an effectual gloom dispeller—a basement 100 feet deep being well illuminated with pure, healthful, white light from wall to wall. The Lucidux frame may be of wood or iron, and fitted either as a fixture or on hinges.

See illustration.

Data Required when Ordering Sidewalk Prisms

(f) "Sight measurement" of opening.
(g) Size or depth of bearings.
(h) Full size that frames are desired (inclusive of bearings).
(i) Where I beams are used give width of flange on top of beam.
(j) Send sketch with above information marked plainly.
(k) Size of Lucidux Panels—give width and height.
LUXFER

Wrought Steel Interlocking Frames

All "Luxfer" Sidewalk Prisms, as illustrated, are installed in "The Luxfer Wrought Steel Interlocking Frames." This frame is made of cultivator bars 7-16 inch thick and 1\(\frac{1}{2}\) inches high running at right angles with building, and channel bars 1 x \(\frac{3}{8}\) inches running parallel with building. The cultivator bars are punched with holes to admit channel bars. When the frame is assembled each joint is punched by a special machine to tighten and strengthen frame. The frame when finished is the best frame obtainable for installing sidewalk Prisms and will stand a test of 400 lbs. to the square foot without any deflection whatever. These frames can be fitted with angles or weather strip on side next the building when desired.

NO IRON EXPOSED—Surface is all glass and concrete.—This frame has displaced altogether the old style cast-iron frames, as all danger of leaks through cracked or warped frames is eliminated.

Coal holes or hatches can be introduced where desired.

We galvanize frames, if necessary, for a slight additional charge.
We are making the Best, Strongest and Most Durable Sidewalk Hatch in the market, fitted with either Prisms or Blank Lights as desired. It is composed of Sheet Steel, has turned edges to shed the water from the surface and can be introduced in any portions of the walk with our interlocking frame, by providing small I beams at the point where the Hatch is desired.

Made with or without quadrants.
Write for quotations. State whether Prisms or Blanks desired, and whether quadrants are required for raising and lowering same.
Special sizes to order.

**STOCK**

<table>
<thead>
<tr>
<th>Sizes outside</th>
<th>Stocks inside</th>
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<tr>
<td>3 ft. x 3 ft.</td>
<td>2 ft. 4 in. x 2 ft. 4 in.</td>
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<td>6 ft. x 5 ft.</td>
<td>5 ft. 4 in. x 4 ft. 4 in.</td>
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**Specification for Setting Prisms in Wrought Iron Frames**

All sidewalks should have a slope to the curb of at least 2 inches in 8 feet. Place frames at proper levels in sidewalk. These levels can be determined by putting two or three Prisms loosely into the frame at each corner. The frames should be set with a good slope and if anything, the surface should be slightly higher than lower than the balance of the pavement, so that it will give the water a good chance to run off.

When the frames are satisfactorily placed, so that the bearing bars all have a good bearing, the prisms can be set in. Make sure that the Prisms are set the right way, the vertical side of the Prism to be set in the direction the light is to be reflected. Then fill in with a cement and sand mixture of the same consistency as the top finish of a sidewalk, that is about two parts of sharp sand and one of cement. The cement should be worked down thoroughly on frame with a trowel. After the cement has been set for twenty-four hours, clean off the glass thoroughly, as otherwise it is difficult to remove.

In hot, dry weather there is danger of the concrete drying out too quickly. A much better walk will be obtained if it is kept fairly moist or wet, for the first day or two, otherwise undesirable cracks in the concrete might be the result.

In cleaning cement from surface of Prisms, use cotton waste and clean with a rather large sweeping circular motion of the arm; do not clean surface of Prisms with what might be termed a short backward motion, as by so doing, there is danger of working out too much of the cement between Prisms.

Frequently after the cement mixture has dried out, small leaks develop. Experience has proved that in many cases, the rain carries particles in which stop these small pores and the leaking after one or two rains, disappears. This leakage is caused by the naturally porous nature of the cement mixture.

After Prisms are installed remove all surplus cement from the underneath side of Prisms and frames.
Decorative Art Glass

ELECTRO COPPER GLAZED.—We were the first ornamental glass manufacturers in Canada to introduce the method of plating lead with copper.

We have been followed in this by many other glass manufacturers but we are still in the lead as regards merit in this class of work.

All saddle bars are eliminated when ornamental windows are electro-glazed.

ORIGINAL DESIGNS submitted on application for Memorial Windows or Decorative Glass for churches, dwellings and buildings of every description.

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Murray Building ........ "
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Kidd Building .......... "
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Drinkle Block .......... Saskatoon, Sask.
Willoughby & Duncan ..... Regina, Sask.
King's Hotel .......... "
McKenzie & Brown Bldg. .. "
Trites Wood Building ...... Fernie, B. C.
Times Building .......... "

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R. Burns Building ........Lethbridge, Alta.
Hull Block ...............Calgary, Alta.
King Edward Hotel .......Edmonton, Alta.
John E. Smith Building ...Brandon, Man.
Bryan Block ..............Lethbridge, Alta.
Traders' Bank ...........Aylmer, Ont.
Farrell Building ..........North Bay, Ont.
Hamm Building ..........Brantford, Ont.
R. Craig & Company ....Brockville, Ont.
Jacobs Block ............Sudbury, Ont.
Dunlop Company ..........Pembroke, Ont.
Eiler Block ..............Edmonton, Alta.
Metropolitan Bank .......Markham, Ont.
W. Bristol & Son ........Picton, Ont.
Campbell & Robb .........Nelson, B. C.
Madden Hotel ............Nelson, B. C.
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