# GLAS-CRETE REINFORCED CONCRETE AND GLASS CONSTRUCTIONS

## J.A.KING & CO., LTD.

BRIDGE HOUSE, 181,QUEEN VICTORIA STREET, LONDON E.C.4.

Telephone.
CENTRAL 5866
4 Lines

Telegrams.
KINOVIQUE,
Cent. London

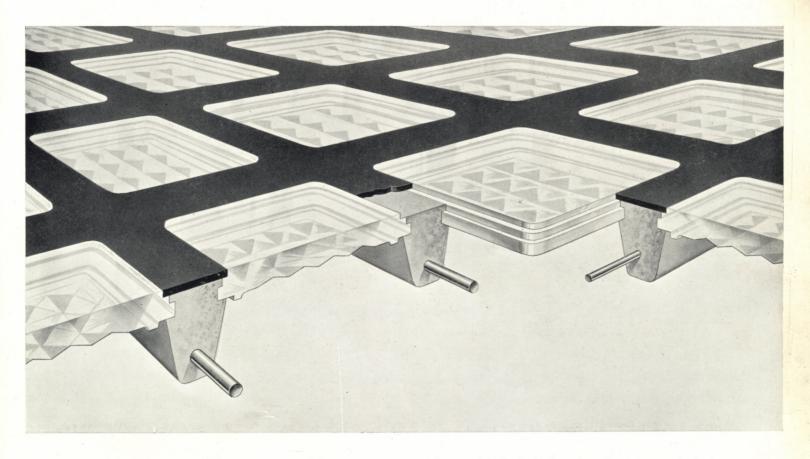
# GLAS-CRETE.

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#### GLAS-CRETE PATENT CONSTRUCTIONS

#### ROOFS, FLOORS, CANOPIES, LANTERNS & DOMES



Asphalte top surface provides a construction which is absolutely watertight under all conditions.

All joints between glass and concrete sealed.

All expansion joints between panels of lights sealed.

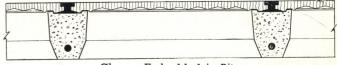
All joints between lights and main roof asphalte sealed.

All glasses insulated with our special insulating material to take up expansion.

#### FULL GUARANTEE GIVEN



Glasses Cast in Concrete.



Glasses Embedded in Bitumen.

#### J. A. KING & CO., LTD., 181, Queen Victoria Street, LONDON, E.C.4.

Telephones-CENTRAL 5866 (4 lines).

Telegrams-"KINOVIQUE, CENT, LONDON."

#### **BRANCHES:**

BRISTOL—ROWNHAM HILL, ASHTON GATE.
(Bristol 63700).

LEEDS—4, OXFORD PLACE. (Leeds 22712).

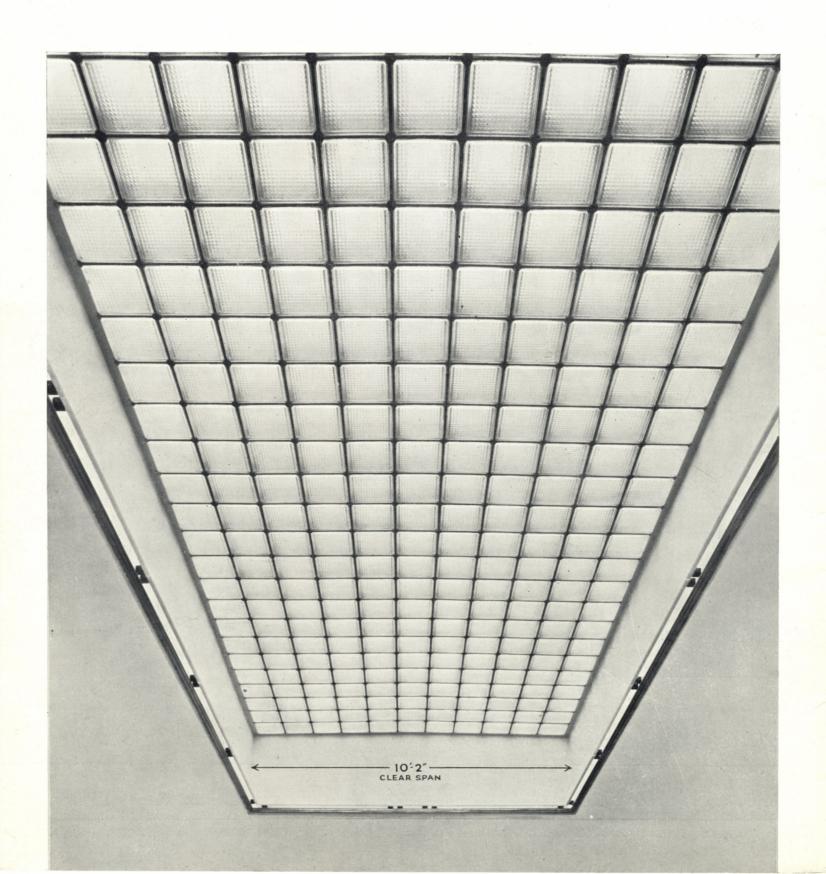
SHEFFIELD—272, ATTERCLIFFE ROAD. (Sheffield 26189).

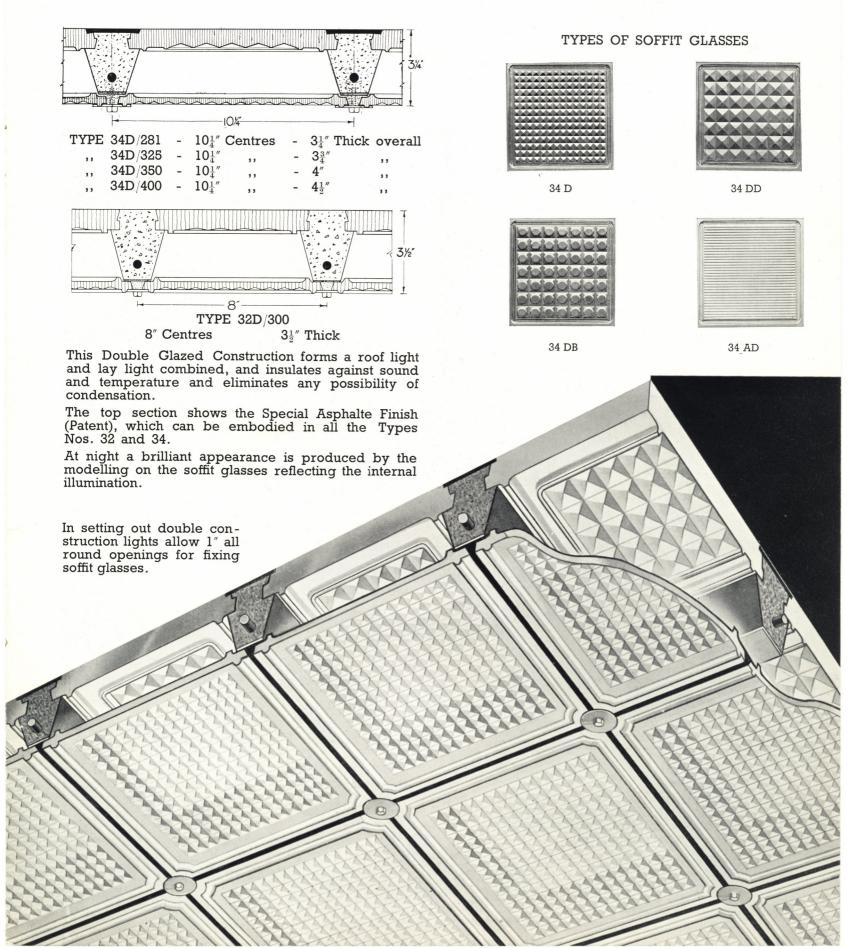
NEWCASTLE-ON-TYNE-11, ELMFIELD PARK, GOSFORTH.

LONDON WORKS-CLAYTON ROAD, HAYES, MIDDLESEX. (Hayes 10).

## GLAS-CRETE DOUBLE CONSTRUCTION

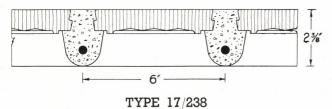
Artificial lighting is provided by neon tube which can be seen around the opening in the ceiling and at night the soffit glasses reflect all the illumination from the artificial lighting, thus producing a brilliant effect and entirely replacing the dark area usually given by other types of roof lights.





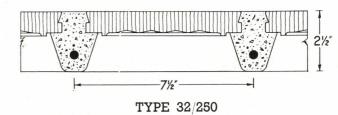
#### GLAS-CRETE SINGLE CONSTRUCTION

#### ROOF AND FLOOR LIGHTS



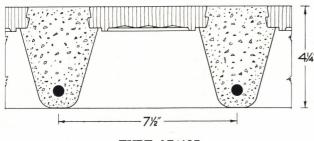
0" 0 1

6" Centres 2\frac{3}{8}" Thick



7½" Centres

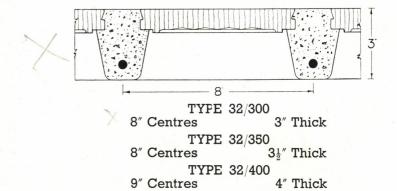
2½" Thick

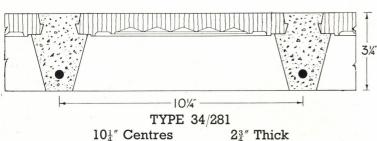


TYPE 17/425

 $7\frac{1}{2}$  Centres

41" Thick



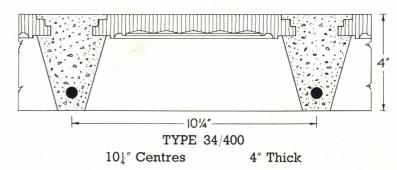


TYPE 34/325

 $10\frac{1}{4}$  Centres  $3\frac{1}{4}$  Thick

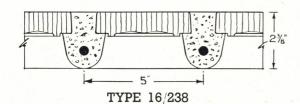
TYPE 34/350

 $10\frac{1}{4}$  Centres  $3\frac{1}{2}$  Thick



#### PAVEMENT LIGHTS

#### FOR PEDESTRIAN TRAFFIC

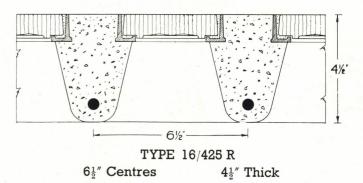


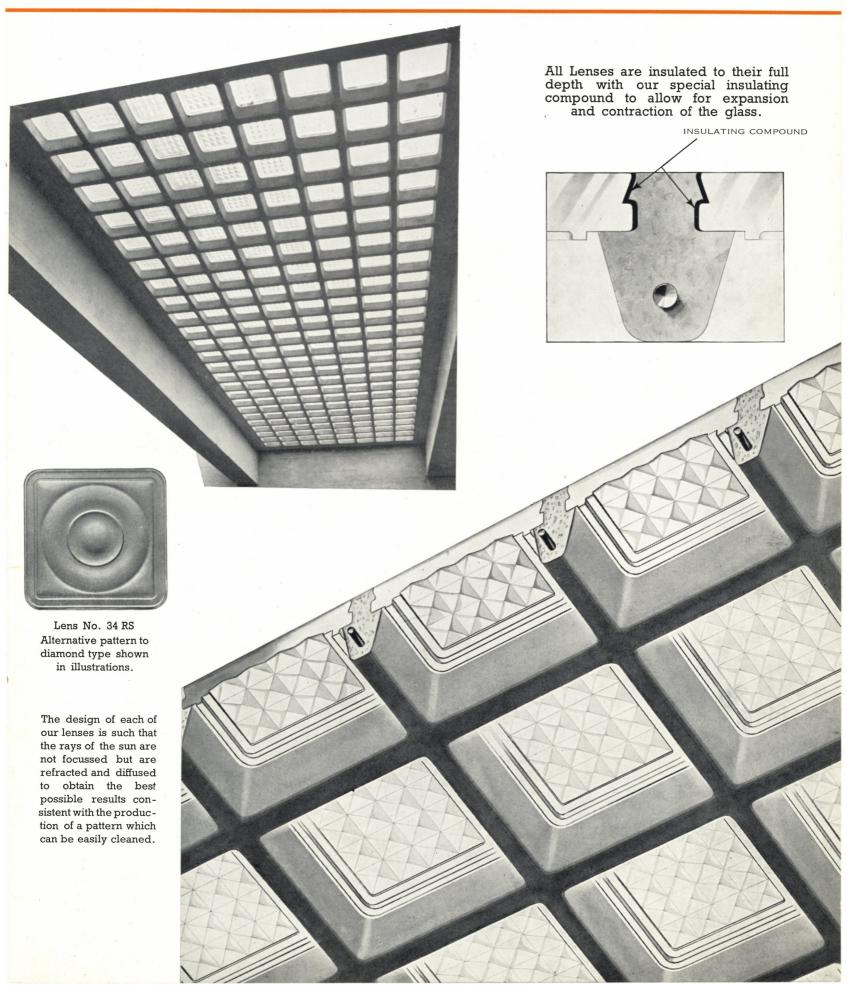
5" Centres

 $2\frac{3}{8}$ " Thick

This type alone is used for Public Foot Traffic, as the lenses are of the maximum size consistent with safety from slipping

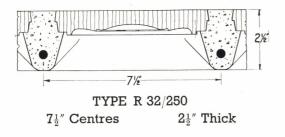
#### FOR MOTOR TRAFFIC



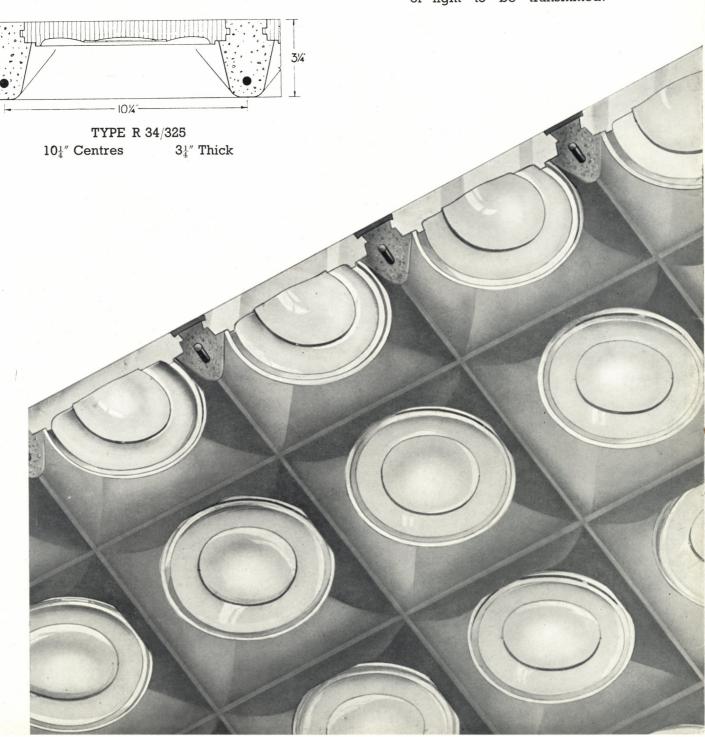


## GLAS-CRETE PATENT CONSTRUCTION

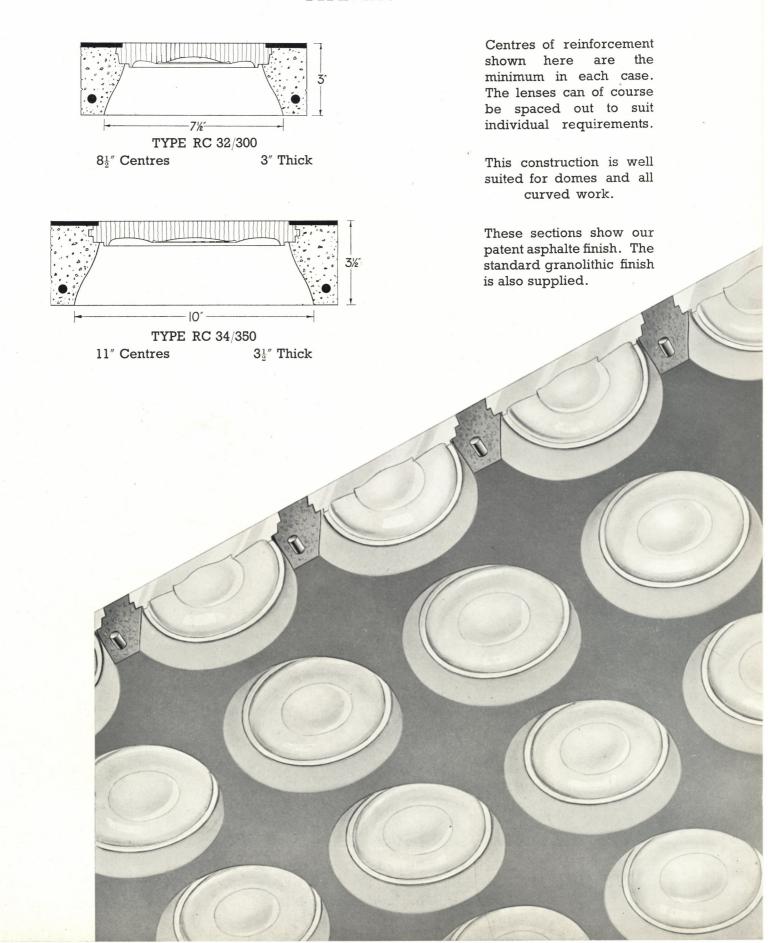
#### TYPE R.



This construction is in the form of circular lenses resting on small concrete members which form a square mesh. The spandrel corners are sharply cut away on the underside to allow the maximum of light to be transmitted.



#### TYPE RC.



#### ROOF LIGHTS



ROOF OF TURBINE HOUSE, FULHAM POWER STATION

13011 Feet Super of Glas-Crete Patent Construction, Type 34, Double Glazed, Asphalte Finish. Size of Panels 24'  $0'' \times 7'$  6''

Messrs. Preece, Cardew & Rider. Arthur J. Fuller, Esq.,
Consulting Engineers,

in association with

Messrs, S. H. White & Son, Engineers

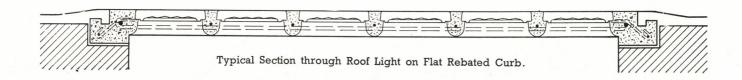


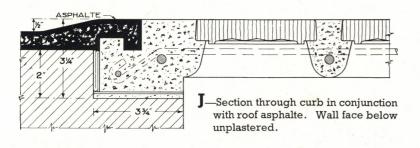


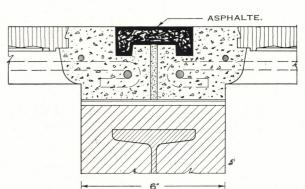
Interior view of Leyton Public Baths.

Glas-Crete Roof
of
Public Baths, Leyton.
Area 5,920 Feet Super
Construction Type 32/300

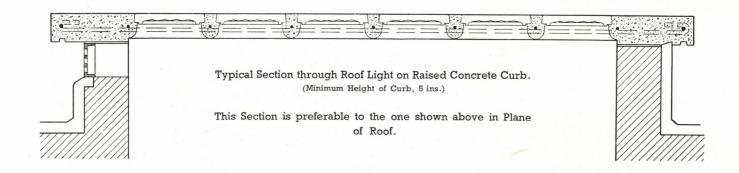
#### ROOF LIGHTS

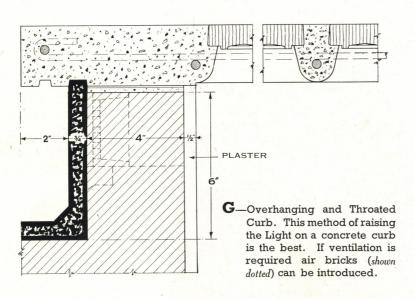


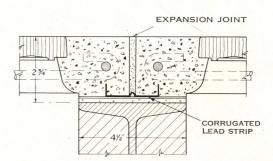




**L**—This joint between adjacent panels is the best practice and should be used wherever possible.







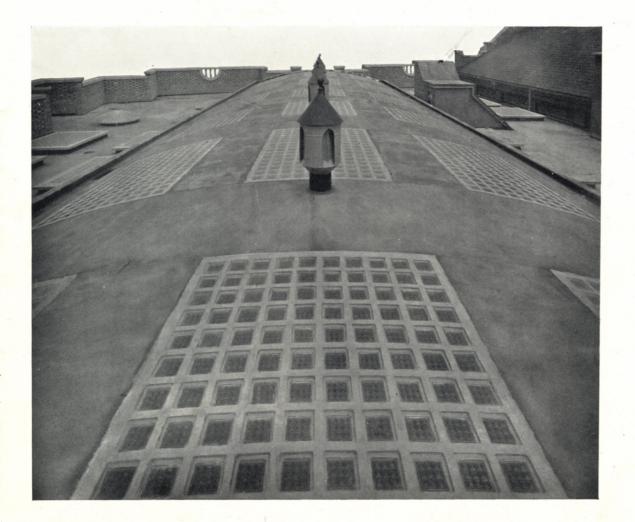
**H**—Expansion joint between adjacent panels bearing on a beam. The height of top of light above beam level varies with the construction used.

6.12 6.23

Example of Glas-Crete lights on raised concrete curbs.

See opposite page section G.





Example of lights flush with asphalte.

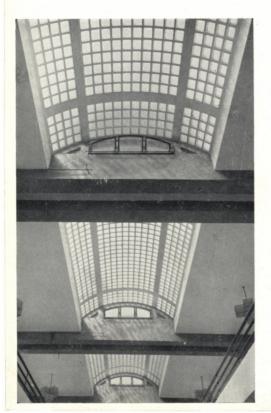
See opposite page Section J.

Both illustrations
on this page are of the
Roof of the
Leyton Public Baths,
Cathall Road, E.10.

#### BARREL LIGHTS



Barrel Light over Booking Hall at Southampton Central Station, Southern Railway.



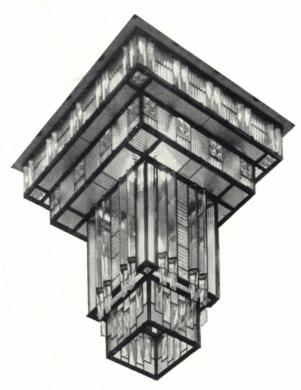
Construction used was Type 34 double glazed. The pendant lamp in centre (shown in detail photograph) is of bronze framing and electrocopper glazing incorporating our "Cristol" high relief glass units.

Other work at the above was the construction of canopy to Main Entrance, and roof lights to Tea and Refreshment Rooms, Lavatories, and Loading and Fish Docks.

LEFT.

Barrel Light over Tea Room at Wallasey Bathing Pool.

Construction used— Type 32/300.

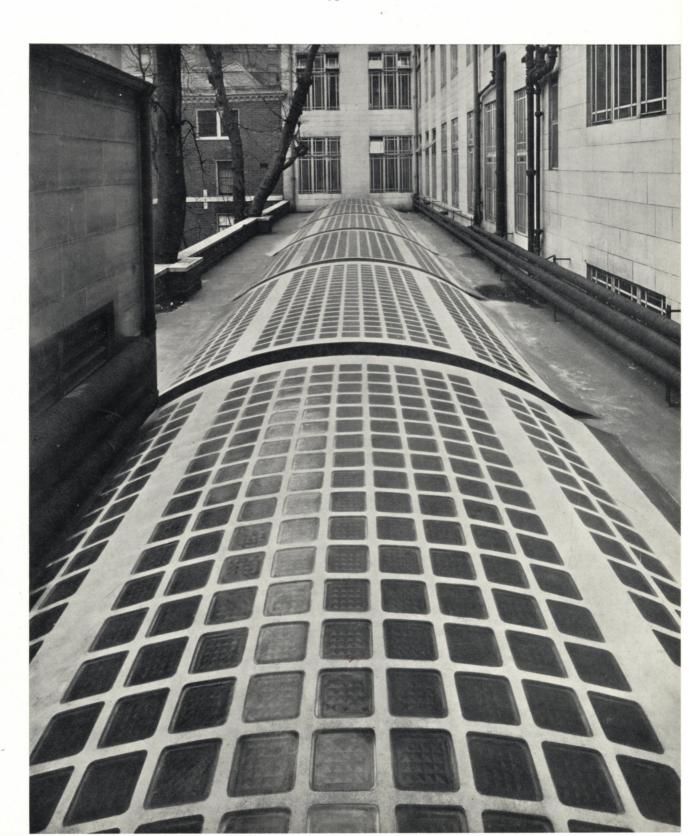


DETAIL OF PENDANT LAMP
formed of our "Cristol" high relief glass units
set in Bronze framing.

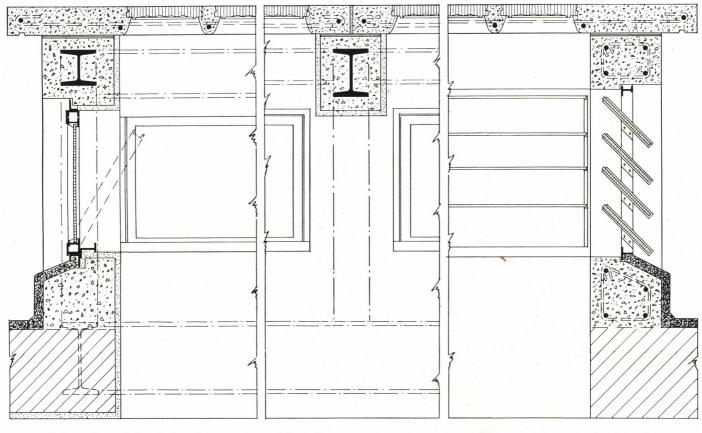
Barrel Roof Lights at 3, St. James Square, W. 1.

This illustration shows the neat and unobtrusive appearance of this method of top lighting. Views from the surrounding windows are entirely uninterrupted. Construction used—

Type 32/300.



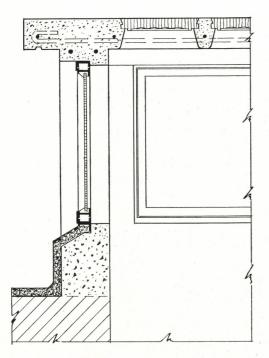
## LANTERN LIGHTS



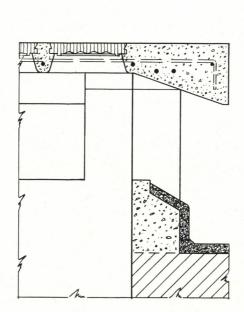
Bottom Hung Sashes in framing of cased steelwork.

Where beams are necessary this section applies.

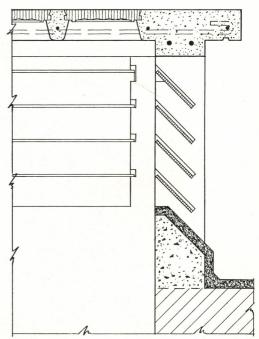
Glass Louvres in framing of reinforced concrete.



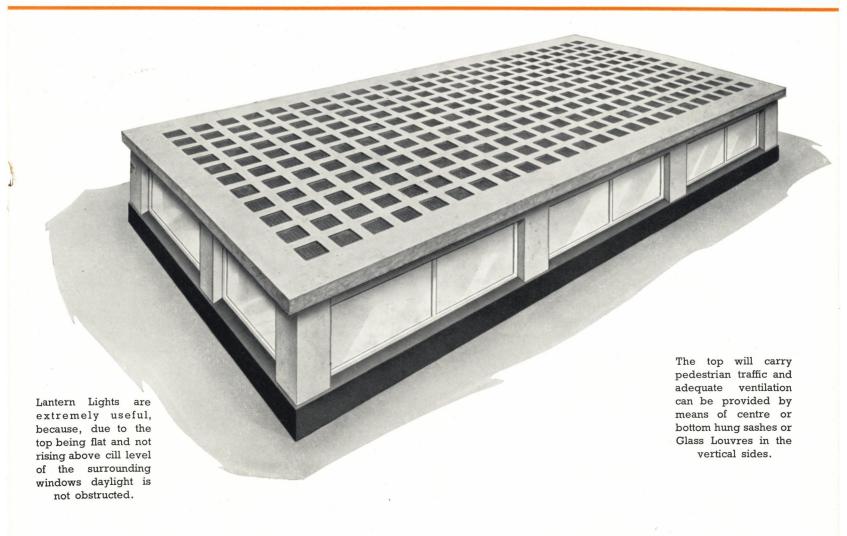
Centre hung or fixed sashes in the vertical sides.

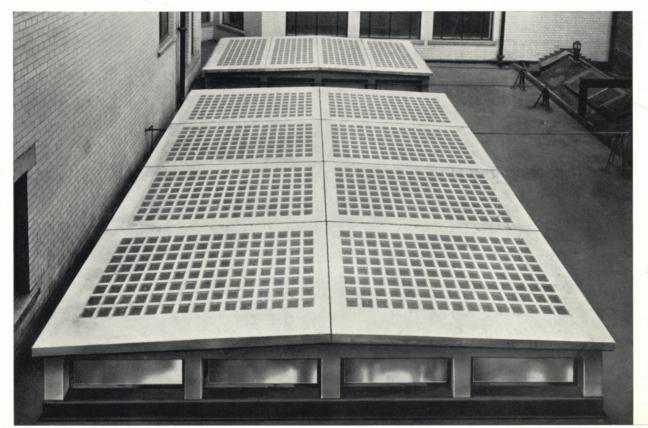


Detail of Lantern where maximum ventilation is required, e.g., garages.



Glass Louvre blades inserted into grooves formed in the concrete mullions.



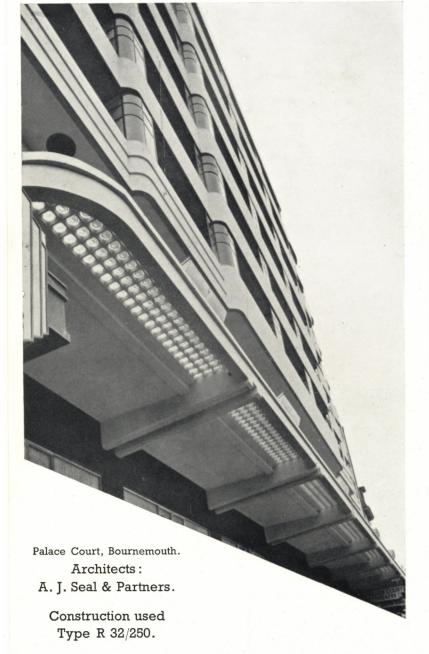


Lantern Lights, Dorland House, London.

J. J. Joass, Esq., F.R.I.B.A., Architect.

## GLAS-CRETE CANOPIES

Main Entrance
to
Wallasey Bathing Pool.
Engineer and Surveyor:
L. St. John Wilkinson, Esq.
Construction used
Type 17/238.







Bournemouth "Echo"
Building.

Construction used Type 17/238.



Southampton Central Station, Southern Railway.

Construction used Type 17/238.

Projection of Canopy 8' 6"

"Cresta" Garage,
Worthing.

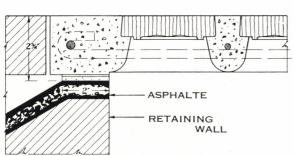
Architects:
A. J. Seal & Partners.

Construction used Type 32/250.

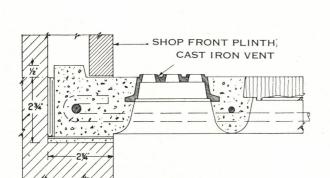
Projection of Canopy 7' 6"



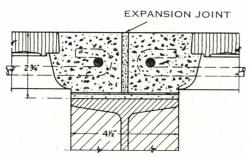
## PAVEMENT LIGHT DETAILS



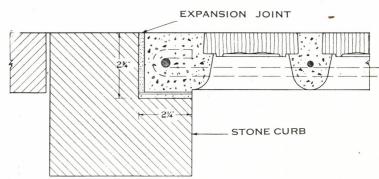
**A**—To ensure a thoroughly watertight job when flagstones adjoin the Light this Section should be adopted. Any water finding its way between the flags and Light falls on the sloping face of the asphalte and is carried away from the building.



D—A typical Section through the plinth of a shop front showing a substantial concrete water bar behind plinth. Cast Iron Ventilators are shown in the back row.

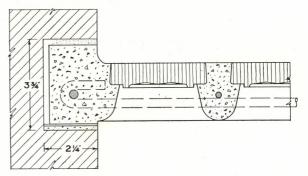


**H**—The cased R.S.J. shown above is typical. A reinforced concrete beam or uncased joist can be used but the width required for the double bearing must be  $4\frac{1}{2}$ " minimum.

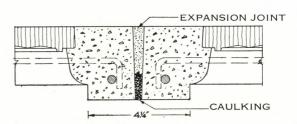


**B**—Where a stone curb is required this Section gives the rebate necessary to take the Light,  $2\frac{3}{4}''$  deep  $\times 2\frac{1}{4}''$  wide.

NOTE:—The height of rebate required for other types of constructions would be the thickness of the required type, plus  $\frac{3}{8}''$  for bedding.



**F**—Shows the chase required in a stone or brick wall. The provision of a concrete water bar ensures a water-tight job.



M—This Butt Joint is used for expansion purposes and also when large precast Lights have to be divided for handling purposes. Not used beyond a 4' 0" clear span.

#### IMPORTANT.

#### SMOKE EXTRACTS.

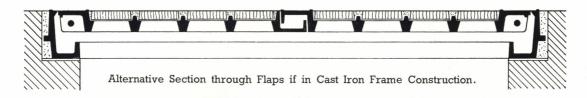
To meet the requirements of the London County Council Fire Brigade Authority regarding smoke extracts in certain buildings we adopt a special method of construction for pavement Lights which, although they will safely carry pedestrian traffic, can be broken with a fireman's axe when necessary to form exits for smoke. These Lights are indistinguishable from our ordinary Glas-crete.

A fine range of Glas-Crete Pavement Lights at Messrs. Parnells, Victoria. Lights having vitreous tile finish also supplied.



## CELLAR FLAPS

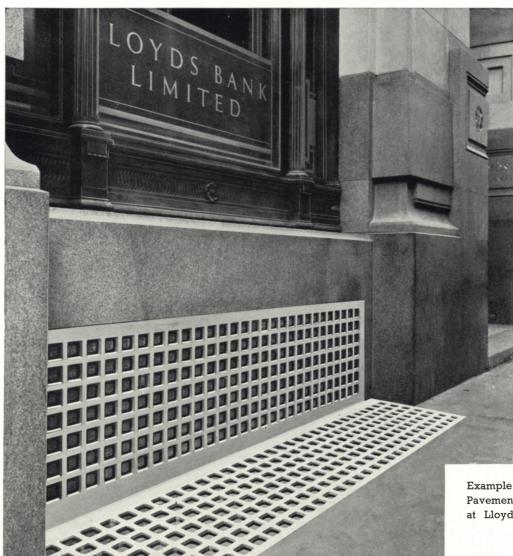




For both the above types of construction the depth of rebate required is  $4\frac{1}{4}$  and the width  $3\frac{1}{2}$  for hinged sides and 3" for remaining sides.

Cellar Flaps should be fitted with Counter Balance Gear if the area of one leaf exceeds 6 feet super.

All Flaps serving as Fire Escapement must be fitted with Counter Balance Gear.



Example of Stallboard and Pavement Light combined at Lloyds Bank, Cornhill.

## GLAS-CRETE WINDOWS



Used for
Hotels, Flats,
Hospitals, Factories,
Domestic and
Ecclesiastical
Buildings.

Require no painting.

Do not

Rust or Decay.

Improve with age.

#### TYPES OF LENSES USED FOR GLAZING.

600 A

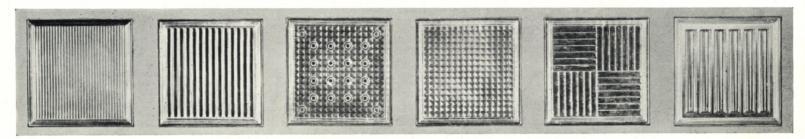
600 D

600 C

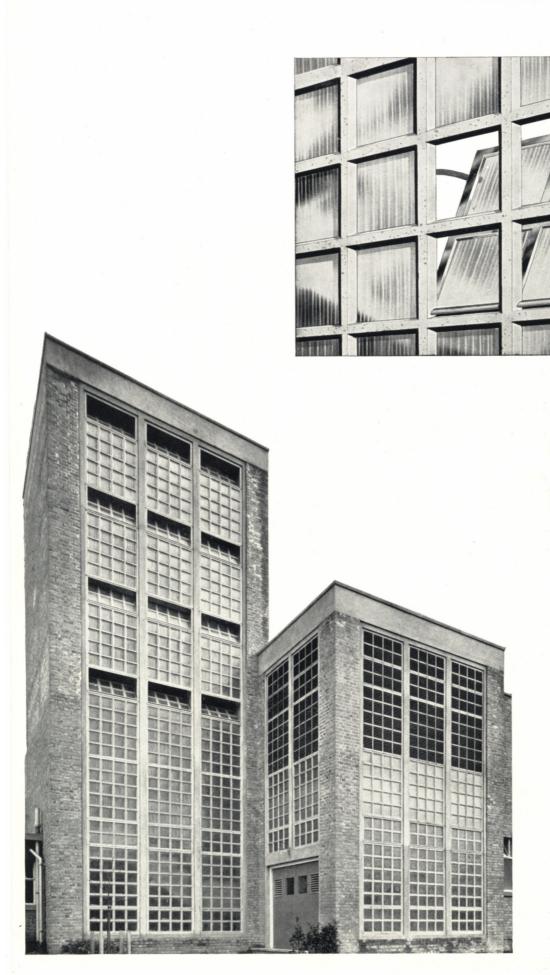
600

600 B

600 E

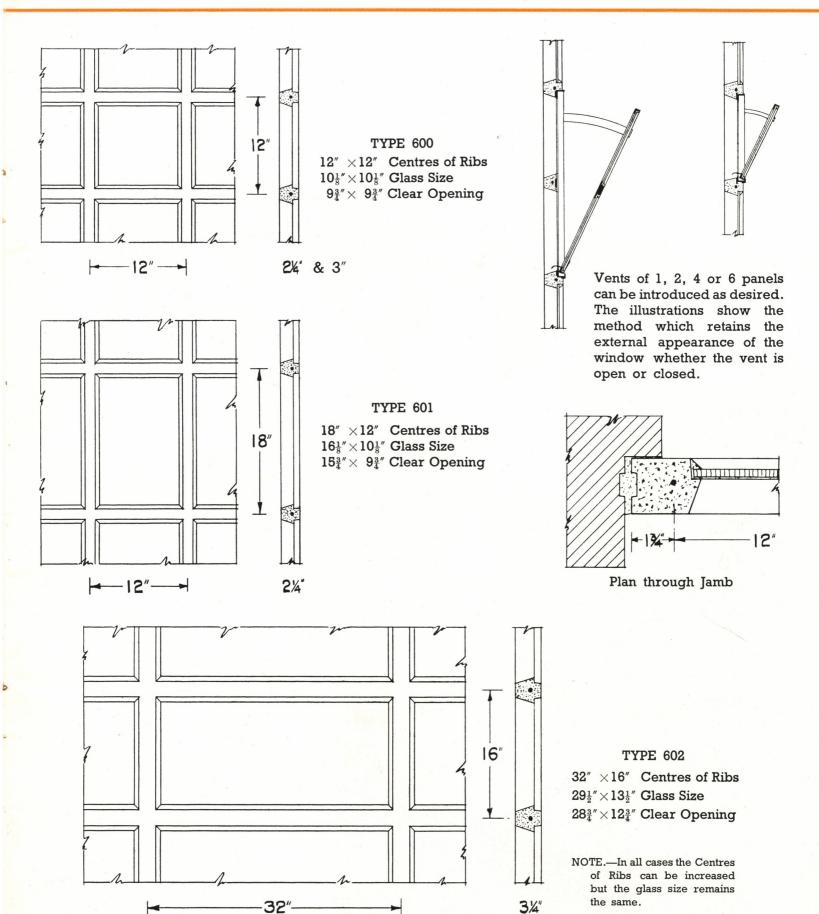


#### GLAS-CRETE WINDOWS



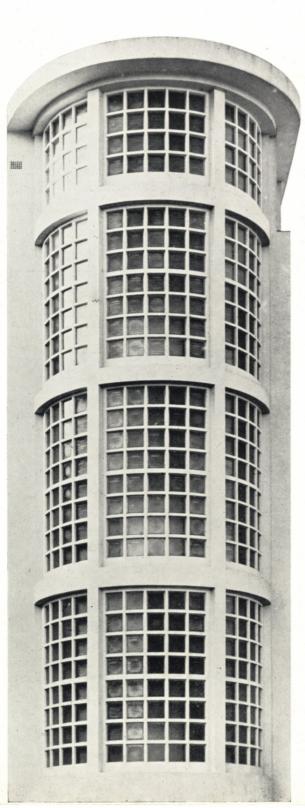
Although we supply several patterns of white pressed glasses, any type of glass can be used and, as the glazing is usually carried out on the inside, repairs are more easily effected.

The complete window is made up of a number of panels of handleable size and can be built in as the surrounding work rises, or can be fixed afterwards. The former method is usually the better, but if the latter method is adopted the reveals and cill should be grooved to form a good key with the frame.

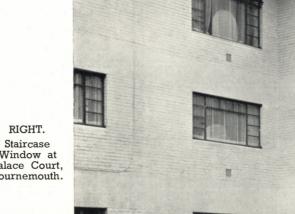


## GLAS-CRETE WINDOWS

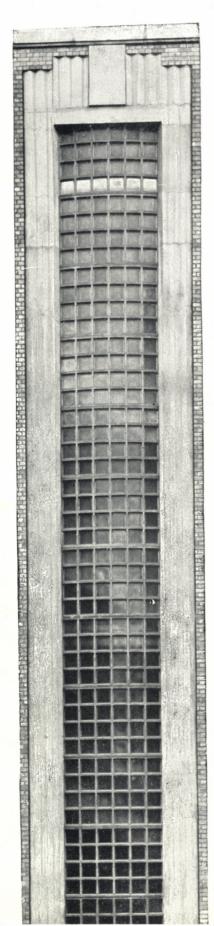
GLAS-CRETE Windows are of pleasing appearance and are eminently suited to all classes of buildings. When used in conjunction with large areas of plate glass they form an effective contrast.



LEFT. House at Harbour Heights, Bournemouth.



Staircase Window at Palace Court, Bournemouth.



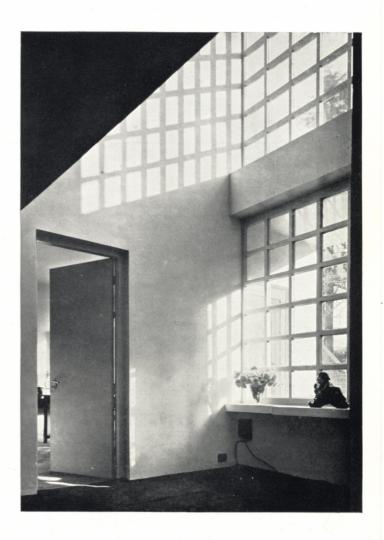
LEFT.

Staircase Window at Addenbrookes Hospital, Cambridge. Height 53 feet.

RIGHT.

Hall Window to House
at

Sydenham Hill.

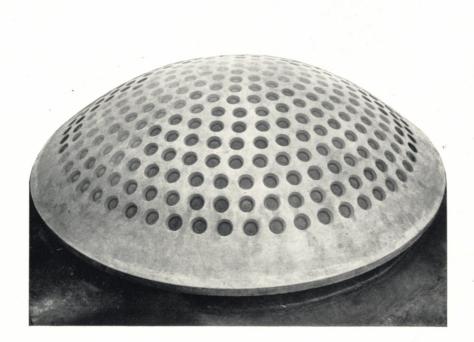


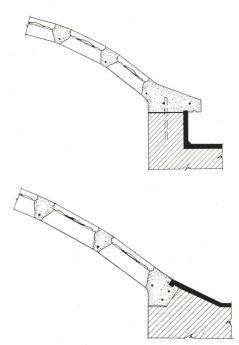
Glas-Crete Windows provide a distinctive feature to any type of building, whether it be Public, Commercial or Domestic.

BELOW. Windows to Cafe at Dreamland, Margate.



## DOME LIGHTS





Alternative methods of forming curbs to Domes and Barrel Lights.

ABOVE.

Reinforced Concrete and Glass Dome over stair well at Ferensway, Hull.

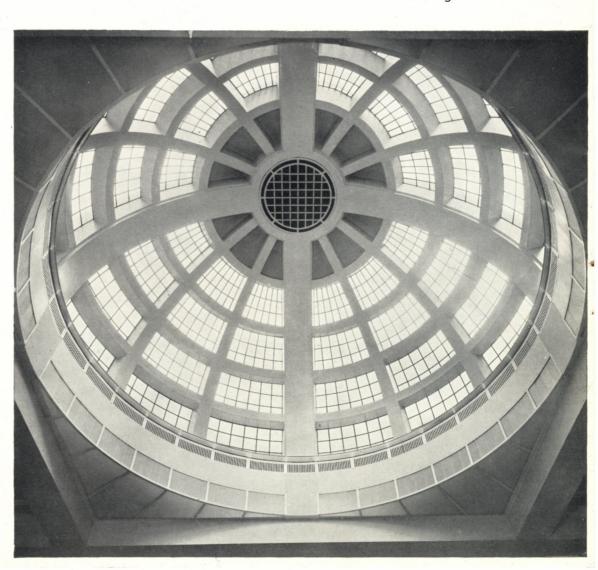
BELOW.

Dome over waiting hall at Royal Ophthalmic Hospital, City Road, E.C.

Architects:

Campbell Jones, Sons & Smithers.

The reinforced concrete ribs support the glazing which is double rolled rough cast glass in electro copper glazing.



#### DOUBLE GLASS WALLS & PARTITIONS

For
Public Buildings, Hotels,
Offices.

All glass surface both sides.

No exposed iron to rust or paint.

Heat and Sound insulating.

Maximum translucence.

Decorative.

Hygienic, easily cleaned.

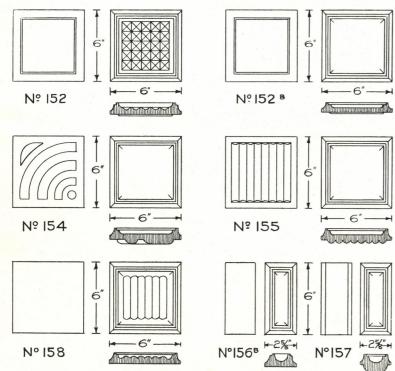


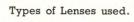
For
Hospitals, Clinics,
Laboratories, etc.

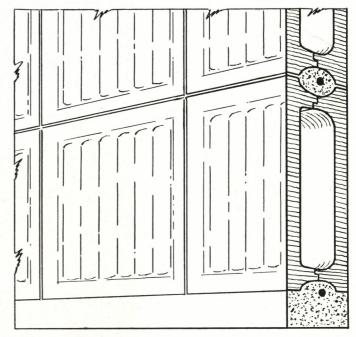
The lenses are  $6'' \times 6''$  and  $8'' \times 8''$  and the construction when finished is  $1\frac{3}{4}''$  thick.

As several patterns of lenses are available, decorative effects can be obtained.

The construction can be built in situ or made in precast panels and delivered ready for fixing.



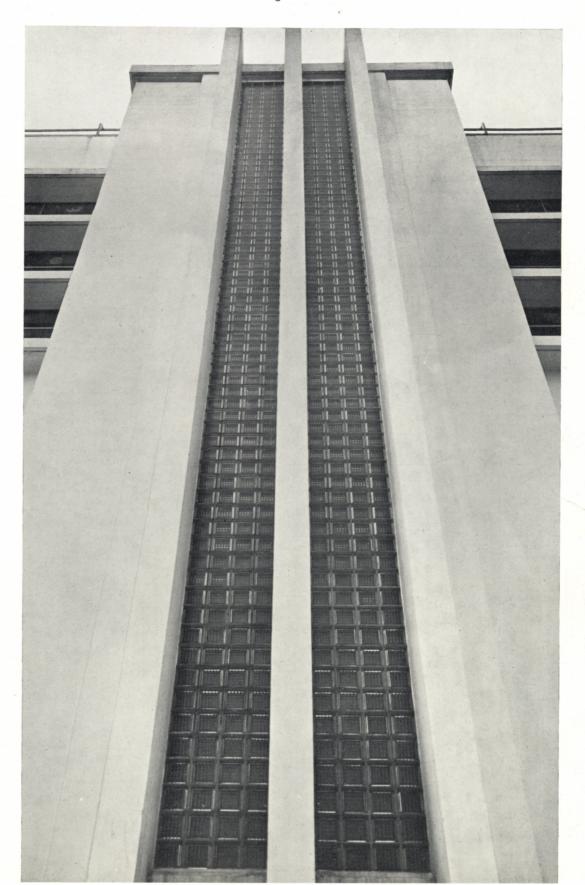




Detailed Section through hollow glass partition wall.

# DOUBLE GLASS WALLS & PARTITIONS

Double Glass Windows at Co-operative Wholesale Society's Soap Works at Irlam. Height 35 feet.



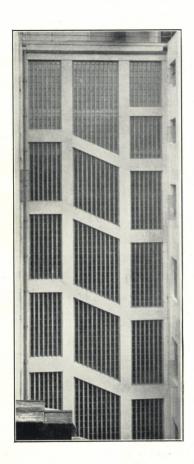
#### GLAS-CRETE

"CRISTOL"

#### WINDOWS



Messrs. Simpsons,
Piccadilly.
Architect:
Joseph Emberton, Esq.,
F.R.I.B.A.

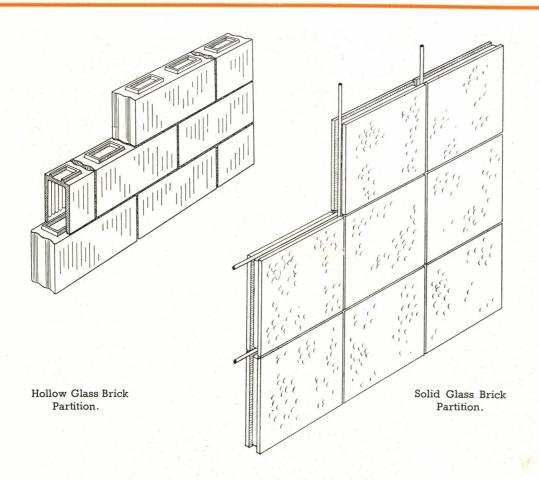




This staircase window which is 95 ft. high by 24 ft. wide is constructed of reinforced concrete mullions and glazed with our special high relief "Cristol" glass units.

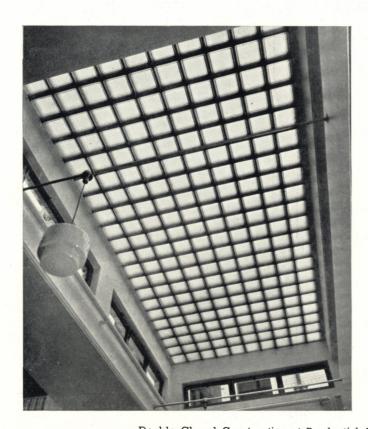
The canopy at roof level is in Glas-Crete Type 34, single construction, and the lower canopy over main entrance is in Type 34, double glazed construction.

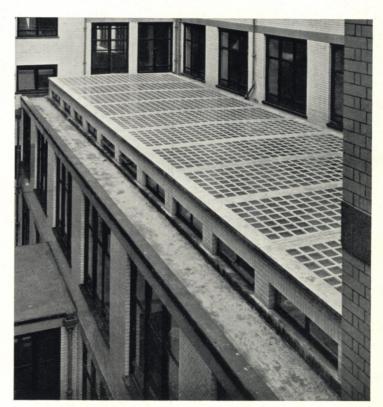
## GLASS PARTITIONS











Double Glazed Construction at Prudential Assurance, London. Messrs. Joseph, Architects.

# GLAS-CRETE EXAMPLES

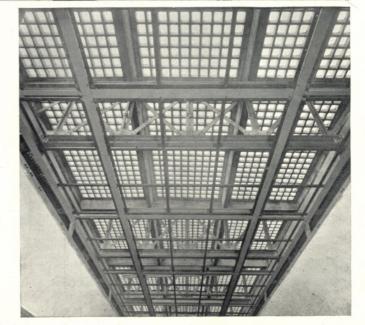


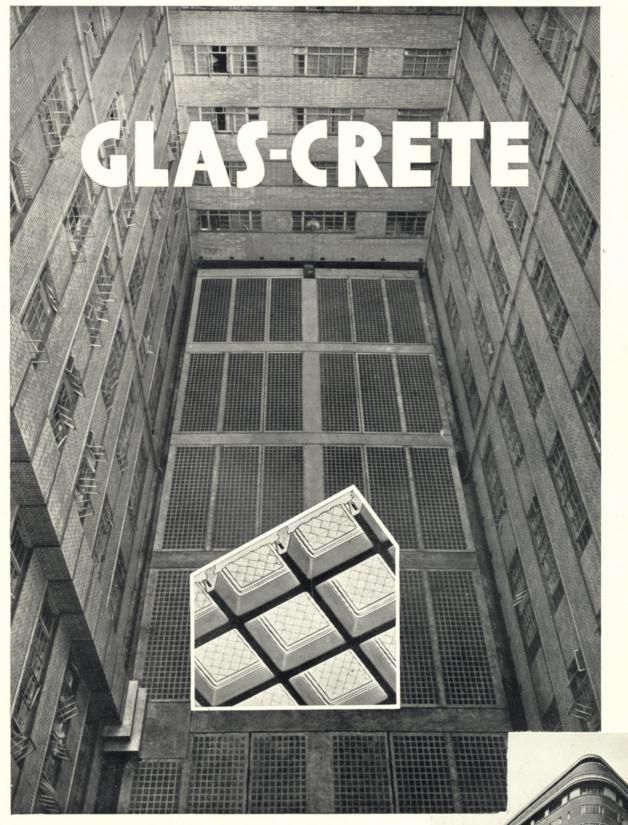












One of three large lighting areas roofed at first floor level with **GLAS-CRETE** at "Mount Royal" Flats, Oxford Street, W.1.

Architects: Sir John Burnet, Tait & Lorne.

