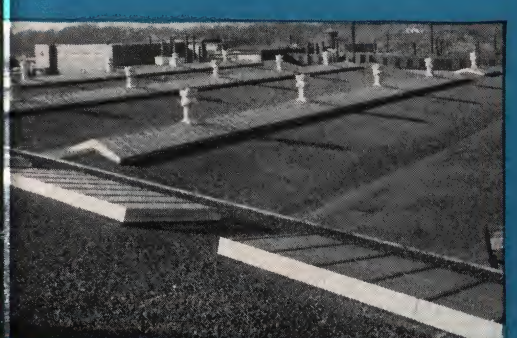
AMERICAN DAYLIGHTING PRODUCTS

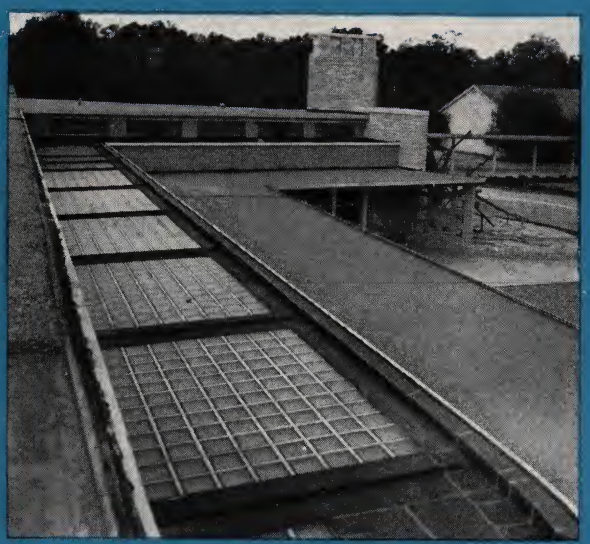
light-up . . . the American way

American Top Hung Sash, printing plant
Chicago, Illinois

Extruded Aluminum Skylights, factory
Hillside, Illinois



American P-5 Skylights, daylight a metal fabricating plant—Aurora, Illinois



Rooflights used at zoo—Houston, Texas

Rooflights daylighting elementary classroom—Yonkers, New York

PRODUCTS

Stationary Skylights

Ventilating Skylights

Top Hung Sash

Stage Ventilators

Automatic Fire Ventilators

Automatic Fire Doors

Sidewalk Lights

Floor Lights

Roof Lights

Top-Lights

AMERICAN 3 WAY-LUXFER PRISM COMPANY

431 South Dearborn Street, Chicago 5, Illinois

VENTILATING SKYLIGHTS

Rack and Pinion Operators; Manual or electrical control.

AMERICAN TYPE J— pressed metal shapes

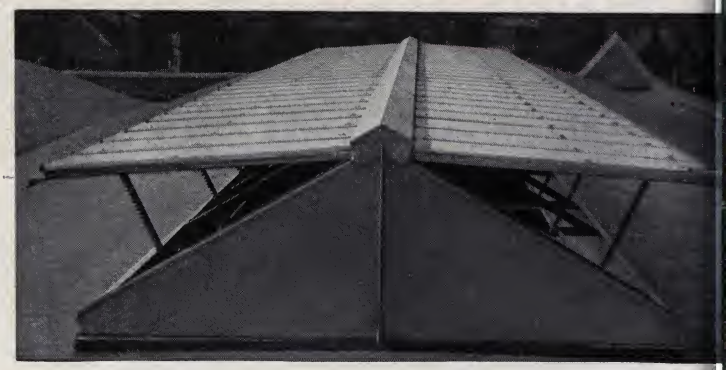
All sash members, ridge, gable ends, and curb aprons, shall be formed of galvanized steel, or aluminum, or copper. The sash shall be assembled by cleating the bars to the top and bottom rails in such manner so as not to expose the cleats to the weathering surface. Provision shall be made for carrying away condensation which may be delivered from the underside of the glass. The sash shall be supported on steel trusses, designed for the span involved and spaced approximately six feet on centers. All ferrous metal parts shall be given a coat of specially prepared paint at the factory.

Glazing (specify type of glass desired). The glass shall be bedded in a good grade of steel sash putty protected with a cap secured to the glazing bar with studs and brass cap nuts. (If puttyless glazing is desired, specify that glass shall be set between asphalt impregnated felt.)

STANDARD SIZES: Any length, to even feet if possible and

5 ft. wide each sash raises 15"	10 ft. wide each sash raises 30"
6 ft. wide each sash raises 18"	12 ft. wide each sash raises 36"
8 ft. wide each sash raises 24"	

The table at the right indicates weights of material used for various sheet metal parts:



Material	Gauge of Bar	Gauge of Ridge and Gable Ends	Gauge of Curb Flashing
Galvanized Iron	18 gauge	18 gauge	24 gauge
Aluminum	14 gauge	18 gauge	20 gauge
Copper	32 ounce	20 ounce	16 ounce

Also available with aluminum extruded shapes

AMERICAN TYPE XJ-56— extruded aluminum shapes

The ridge and sash members shall be extruded aluminum sections. The sash bars, spaced 24" on centers, designed to provide condensation gutters draining through bottom rail to outside. Sash members shall be riveted and bolted together using ¼" aluminum rivets and ⅜"-16 aluminum cap screws. The top rails shall be designed to provide a continuous hinge in combination with the ridge. Curb apron, panels and gable ends shall be formed of sheet aluminum. The sash shall be supported on steel trusses, painted aluminum, and designed for the span involved and spaced approximately six feet on centers.

Glazing (sash is designed to receive ¼" thick glass—specify type of glass wanted). The glass shall be set between layers of asphalt impregnated felt and held in place with aluminum glazing caps secured to the glazing bars with aluminum studs and #10-24 aluminum cap nuts.

STANDARD SIZES: Any length, to even feet if possible and

5 ft. wide each sash raises 15"	8 ft. wide each sash raises 24"
6 ft. wide each sash raises 18"	10 ft. wide each cash raises 30"

AMERICAN TOP HUNG SASH— extruded aluminum

American Top Hung Sash shown on the plan shall be manufactured by the American 3 Way-Luxfer Prism Company and shall be formed of aluminum sections.

Sash bars, top and bottom rails shall be extruded aluminum shapes, the sash bars formed to provide condensation gutters draining through bottom rail to outside. Sash members shall be bolted together using ⅜" aluminum cap screws. The top rails shall be so formed as to provide a continuous hinge in combination with the hinge plate. The sash bars shall be spaced 24" on centers and shall be provided with glazing caps formed of #18 gauge aluminum secured to the bars with #10-24 round head aluminum machine screws. All flashing and panels shall be formed of sheet aluminum as shown on details using gauges noted. All ferrous metal parts shall be given a shop coat of paint at the factory.

The ventilating sections shall be equipped with rack and pinion type operating mechanism using solid hexagonal steel shafting and roller type pinions. Provide brass ball race with hardened steel ball bearings contained in dust tight brass housings at 4'0" centers. Racks shall be steel tee sections and shall be held in close contact with the pinions by roller guides.

Operators shall be "3-Way" brake and release type, one for each ventilating section, controlled from the floor with detachable crank handle.

(Same operator with endless chain control optional.) All pinions shall use hardened steel rollers.

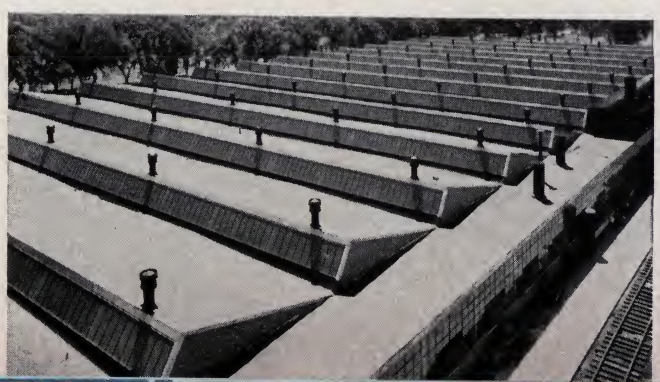
Manual or electrical control as desired.

All ferrous metal parts shall be given a shop coat of paint at the factory.

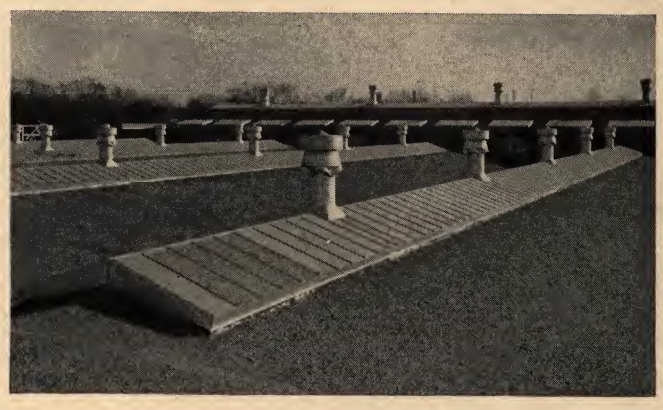
Sash shall be glazed with (specify type of glass desired). The glass shall be bedded in a mastic cushion as shown. This material shall be protected with a cap secured to the glazing bar with aluminum machine screws. Furnish an asphalt impregnated felt strip under the glazing cap.

STANDARD SIZES: Any length to even feet if possible.
Any height to 6'0".

3 ft. high sash raises 60 lineal feet.
4 ft. high sash raises 54 lineal feet.
5 ft. high sash raises 50 lineal feet.
6 ft. high sash raises 44 lineal feet.



AMERICAN P-5— structural puttyless skylights



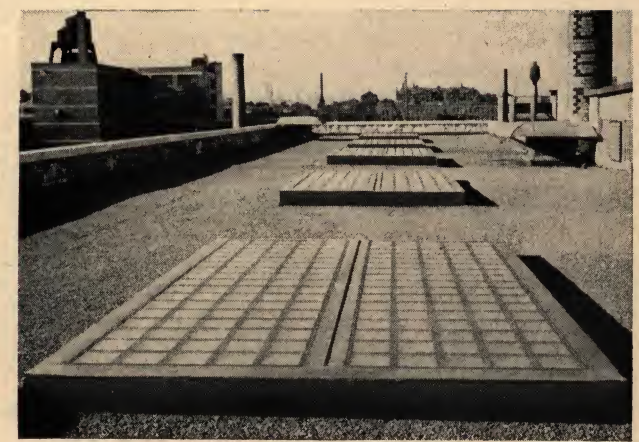
A winning combination! Strong steel supporting rafters, plus enduring metal trim make P-5 Structural Puttyless Skylights the engineers' choice after deciding upon stationary metal skylights for daylighting a modern industrial plant. This construction is also giving excellent service on schools, art museums, gymnasiums, field houses and other types of of public buildings. Various accessories such as syphon or fan ventilators or continuous ridge ventilators may be easily incorporated. Metal trim is available formed of galvanized iron, of aluminum or of copper. Sash is arranged for puttyless glazing (single or double).

The structural rafter bars which support the glass are spaced at 2'0" centers; they are rolled steel sections, channels or angles, of sufficient strength to carry a combined live and dead load of 40 pounds per square foot without exceeding a deflection in any member of 1/30th inch per lineal foot of span.

As no built up trusses or cross ties are required, American P-5 Skylights are particularly adaptable to modern streamlined rigid frame structures.

Skylights illustrated in the foreground are centered along the ridge of 60'0" wide bays running East and West. The skylights were glazed with ¼" frosted hammered wire glass giving excellent distribution of daylight over the working area. Consult our Sales Engineering Department for better results in plant daylighting.

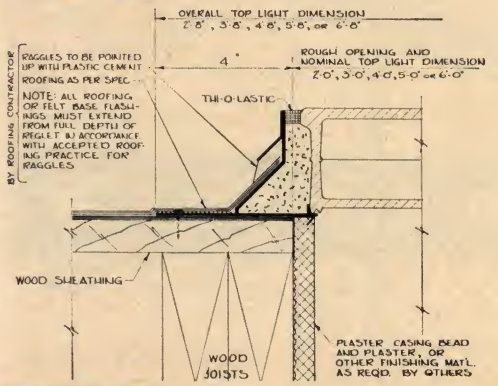
AMERICAN ROOF LIGHTS



American Glass Block Rooflights use specially designed semi-vacuum glass blocks approximately 9" square, 2½" thick, set in a 3⅞" thick reinforced concrete grid. Each glass block is sealed in place with permanent Tee-Ess compound applied in fluid form at approximately 280° F., insuring a homogenous, weatherproof seal. Non-ferrous metal reglets are set and anchored in the reinforced concrete grids around the outer rows of glass blocks. The reglets provide arrangements for weather-tight flashing connections with any type of roofing as per standard flashing detail. When all expansion joints between panels, as well as the borders on margins of panels, have been properly flashed as directed, there are no concrete surfaces exposed to the elements; the entire rooflight area becomes weatherproof, dustproof, and air-tight. The panels will support ordinary roof loads and may be walked upon to clean the glass. Non-ferrous cover plates may be furnished as shown. Where extreme conditions warrant or require them, special insulating materials can be incorporated. Contact our Sales Engineering Department for information concerning your particular problem.

AMERICAN TOP-LIGHTS

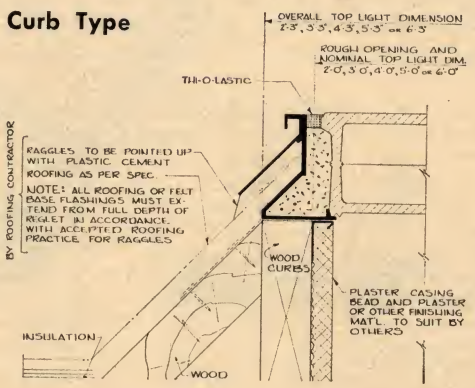
Flange Type



STANDARD SIZES

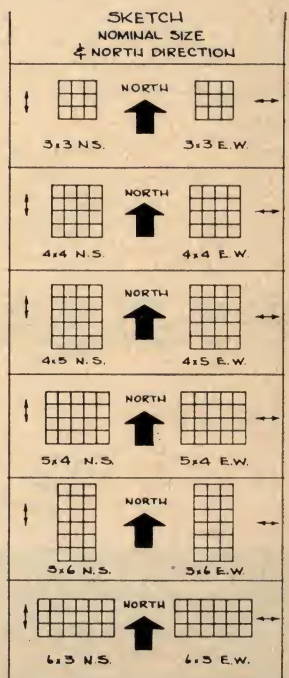
Code No.	Overall Dimensions	Approx. Wt. Lbs. Crated	Uncrated
F-33	3'8" x 3'8"	193	150
F-44	4'8" x 4'8"	317	255
F-45	4'8" x 5'8"	399	320
F-54	5'8" x 4'8"	399	320
F-36	3'8" x 6'8"	347	283
F-63	6'8" x 3'8"	347	283

Curb Type



STANDARD SIZES

Code No.	Overall Dimensions	Approx. Wt. Lbs. Crated	Uncrated
C-33	3'3" x 3'3"	183	152
C-44	4'3" x 4'3"	300	258
C-45	4'3" x 5'3"	378	325
C-54	5'3" x 4'3"	378	325
C-36	3'3" x 6'3"	330	288
C-63	6'3" x 3'3"	330	288

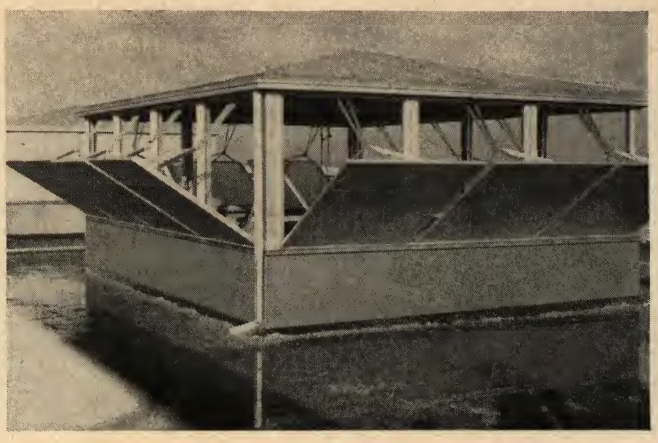


AMERICAN STAGE VENTILATOR No. 67-M

Automatic in case of fire. Provides exhaust for smoke and flames. Tends to prevent spreading of fire and danger of panic. Used on theatres, public, parochial and high schools, auditoriums, temples, etc.

Doors may be opened manually from the stage floor and will open instantly by pulling lever at control panel. In case of fire, fusible links in the control cables will release and doors will open automatically.

Louvers or other devices may be incorporated to provide ordinary ventilation. Automatic doors should be released only in an emergency or for testing purposes.



SPECIFICATIONS

American No. 67-M Stage Ventilators are manufactured by American 3 Way-Luxfer Prism Co. Ventilator opens automatically in case of fire. Sheet metal trim is #24 gauge galvanized steel, or 16 oz. cold rolled copper, or #20 gauge aluminum.

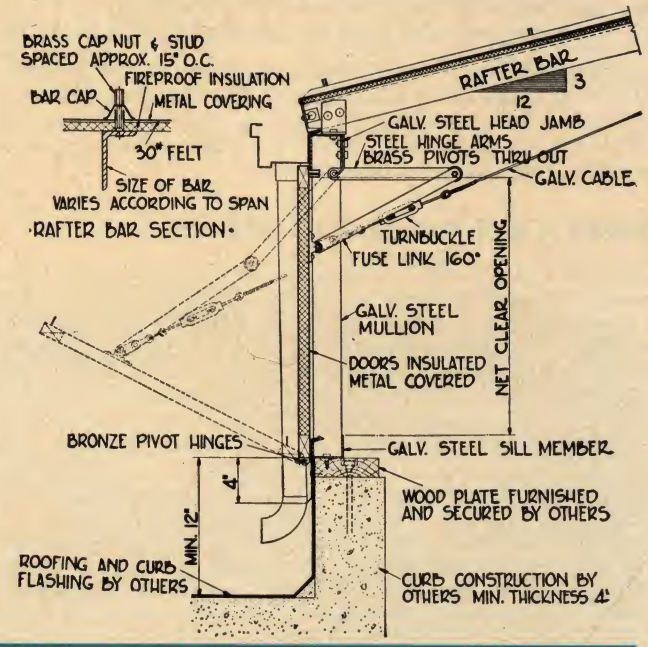
The sides of the ventilator have well constructed corners and mullions with openings fitted with metal ventilating doors. The doors are hinged at the bottom using brass or galvanized hinges, and swing out, leaving an absolutely unobstructed passage for gases, smoke and foul air.

Connecting the upper part of each door with head jamp, is a combined jack knife bracket and check arm which acts as a lever in thrusting doors outward and at the same time prevents the doors from opening outward beyond a certain point, also holds doors rigid against wind when open.

Doors are held in the closed position by flexible cables running over pulleys and attached to fusible links at the doors, the other ends of the cables being connected to one or more main control ropes. The main control ropes are carried down to a point where they can be quickly and conveniently released from the floor, using the "3 Way" control panel with lever arm release. Doors are insulated with 7/8" thick Celotex and are metal covered.

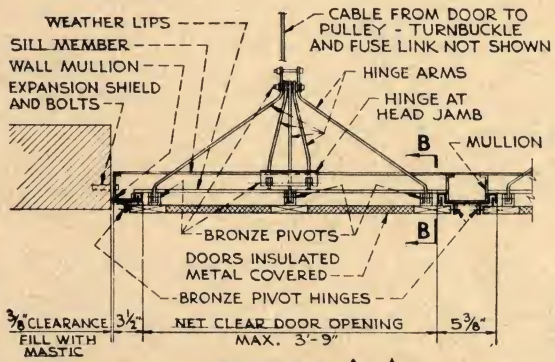
The roof of the ventilator is hip design of steel rafter bar construction. Roof is covered with a metal deck laid over 3/8" thick fireproof board insulation.

All ferrous metal parts are given one shop coat of mineral primer. Note curb construction.

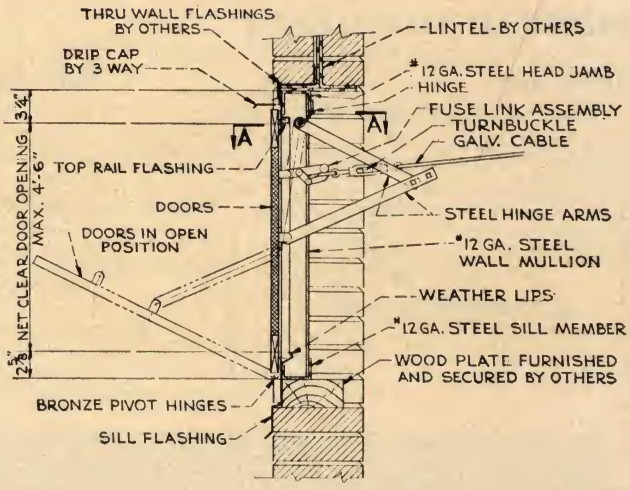


AMERICAN FIRE DOOR No. 67-FD

Series 67FD Fire Door set in masonry wall. Keep size of individual doors to not over 3'9" in width and 4'6" in height. If larger exhaust area is necessary use two or more doors. Choice of sheet metal trim #24 gauge galvanized iron, #20 gauge aluminum or 16 oz. C. R. Copper.



SECTION A-A



SECTION B-B

AMERICAN 3 WAY-LUXFER PRISM COMPANY

431 South Dearborn Street, Chicago 5, Illinois