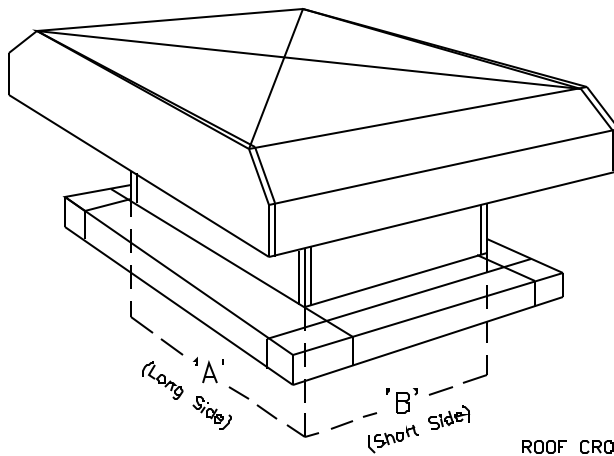




Low Profile
Formed Aluminum

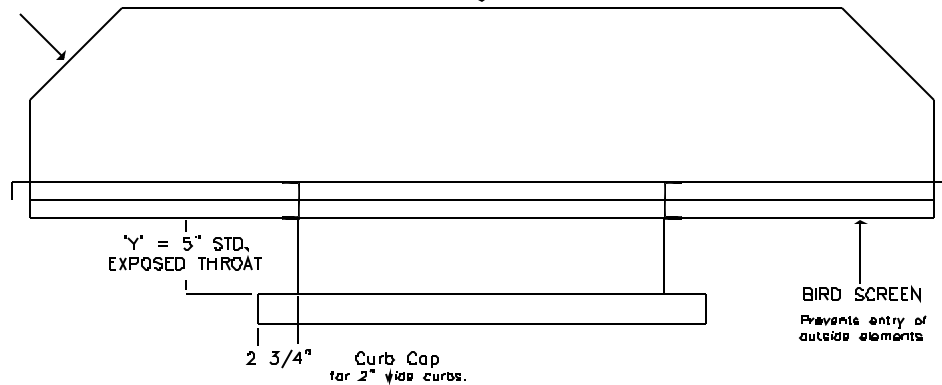
FREE AREA and MODELS

EHA
100% (1:1)
Exhaust

IHA
200% (2:1)
Intake

CHAMFERED ROOF ENDS
(on short(B) dimension)
Reduces Turbulence
Decreases Pressure Drop and
Enhances Airflow

ROOF CROSS BROKE
for Element Run Off



SCHEDULE

ITEM	QTY	MODEL		SIZE						ACCESSORIES		IDENTIFICATION
		EHA	IHA	THROAT WIDTH 'A'	THROAT WIDTH 'B'	HOOD SIZE			THROAT HEIGHT 'Y'	INSULATED ROOF	HINGED HOOD	
						'E'	'F'	'C'				

NOTES

1. ADDITIONAL SUPPORT BRACING IS ADDED WHEN EITHER HOOD DIMENSION EXCEEDS 47". HOODS BUILT IN SECTIONS ARE OF .063" ALUMINUM AND INCLUDE ADEQUATE ADDITIONAL SUPPORT BRACING.

SPECIFICATIONS

HOOD

.050 ALUMINUM

THROAT AND CURB CAP

.080-6063-T5
EXTRUDED ALUMINUM

INTERNAL SUPPORT BRACING

1" x 2" x 1" EXTRUDED
ALUMINUM CHANNEL

ASSEMBLY

ALL HOODS ARE MECHANICALLY FASTENED TO THE THROAT.
BRACING IS SOLID WELDED THROUGH OUT. CURB CAP JOINTS ARE SOLID SEAL WELDED TO PREVENT LEAKAGE.

SCREEN

1/2" BIRD SCREEN MECHANICALLY FASTENED TO UNDERSIDE OF HOOD,

FINISH

MILL

PROJECT / LOCATION

ARCHITECT / ENGINEER

CONTRACTOR

SALES ENGINEER



GRAVITY VENTILATOR ALUMINUM - MODEL EHA/IHA

Drawn
BOB
Date
01-14-02

Drawing No.

F451-305

STATIC PRESSURE LOSS (inches w.g.)

Throat Velocity	100%	200%	
	EXHAUST	INTAKE	EXHAUST
300 fpm	.012"	.018"	.008"
400 fpm	.021"	.031"	.013"
500 fpm	.033"	.049"	.021"
600 fpm	.048"	.071"	.030"
700 fpm	.065"	.096"	.041"
800 fpm	.085"	.126"	.053"
900 fpm	.108"	.159"	.068"
1000 fpm	.133"	.196"	.084"
1100 fpm	.161"	.237"	.101"
1200 fpm	.192"	.282"	.120"

FORMULAS

1) HOOD VELOCITY (fpm)

$$\text{Throat Velocity (FPM)} \div \begin{matrix} 1 & (100\% \text{ Free Area}) \\ 2 & (200\% \text{ Free Area}) \end{matrix}$$

2) THROAT VELOCITY (fpm)

$$\text{Hood Velocity (FPM)} \times \begin{matrix} 1 & (100\% \text{ Free Area}) \\ 2 & (200\% \text{ Free Area}) \end{matrix}$$

3) THROAT SIZE (square feet)

$$\text{Air Flow (CFM)} \div \text{Throat Velocity (FPM)}$$

4) THROAT PERIMETER (inches)

$$A + A + B + B$$

SIZING RECOMMENDATIONS

- 1) On **INTAKE** Gravity Ventilators, the **Hood Velocity should not exceed 600 fpm**.
- 2) To size a **2" Curb** using the standard gravity ventilator curb cap of 2 3/4", add **throat size + 4"** to allow for the curb cap distance from the throat with adequate installation allowance.

OPTIONS / ACCESSORIES

SCREENS

A wide variety of Bird or Insect screens are available in various gauges and mesh dimensions including a snow screen.

MATERIAL

Aluminum thickness in .063" or .081" on hood.

CURB CAP

Standard is 2 3/4" for 2" curbs, although by specifying, curb cap is available in any size.

THROAT OPTIONS

Standard exposed throat height of 5" can be extended to any selected height. Hoods (throat sizes up to 60" x 60") can be hinged to throat for swing open access from one side or split horizontally creating two sections for lift up access.

INSULATION/ANTI CONDENSATE

Mastic coating is available on the under-side of the hood or insulation (1" or 2") can be installed in the either the hood or the throat.

HEAVY CONSTRUCTION

For high wind area applications, our high wind loading option assures your gravity ventilator will remain intact under wind conditions up to 125 mile per hour.

DAMPER MOUNT

Dampers can be mounted horizontally in the throat or vertically around the inside perimeter of the hood.

FILTERS AND RACKS

1" or 2" filters and racks, available in Disposable or Washable (Note: disposable available on specific sizes only).

FINISHES

A wide selection of finishes including Baked Enamel, Epoxy and Prime Coat.