

GRAVITY VENTILATORS

Low Profile - Formed Steel

STANDARD CONSTRUCTION

MATERIAL

Hood, throat, and curb cap are of 18 gauge galvanized steel. All internal bracing consists of steel angle 1-1/4" x 1-1/4" x 1/8".

ASSEMBLY

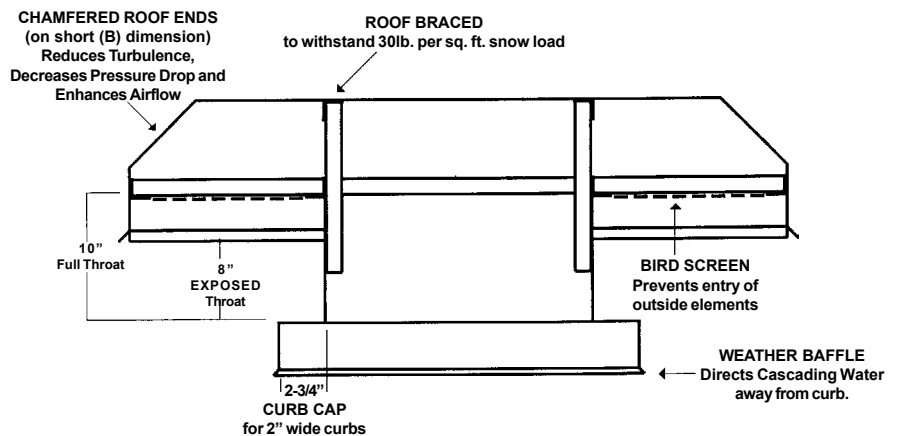
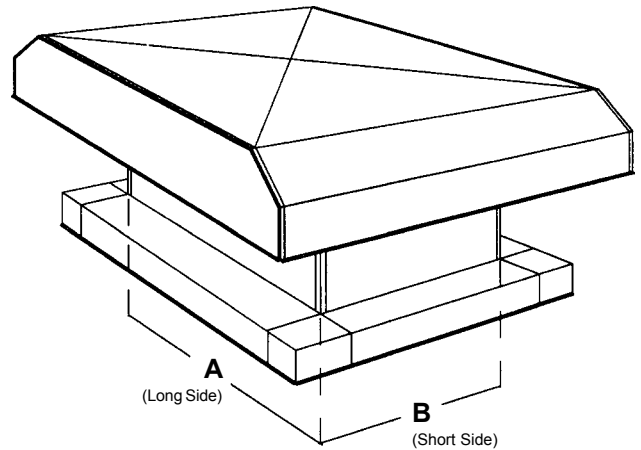
Hood is mechanically fastened to throat for ease in removal, All throat joints are seam welded and caulked. Bracing is solid welded throughout. Curb cap joints are solid seal welded to prevent leakage.

SCREEN

1/2" bird screen mechanically fastened to underside of hood.

FINISH

Mill finish.



FREE AREA AND MODELS	
100% (1:1)	200% (2:1)
Exhaust	Intake
ESV	ISV

Qty.	Model	'A'	'B'	Options / Accessories	Tag

PROJECT: _____

LOCATION: _____

ARCHITECT: _____

ENGINEER: _____

CONTRACTOR: _____

PO NUMBER: _____

DATE: _____

STATIC PRESSURE LOSS (in. wg.)

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)

Throat Velocity (FPM) ÷ 1 (100% Free Area)
 1.5 (150% Free Area)
 2 (200% Free Area)

2. Throat Velocity (fpm)

Hood Velocity (FPM) ÷ 1 (100% Free Area)
 1.5 (150% Free Area)
 2 (200% Free Area)

3. Throat Size (Square Feet)

Air Flow (CFM) ÷ 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

Various gauges of galvanized, galvaneal, or stainless steel on throat or hood or both.

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 8" (10" total) 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 underside of the hood, or insulation (1" or 2") can be installed in either the hood or the throat.

ACCESS PANELS

To provide a passageway to internal equipment, an access panel can be cut into the throat and lined with a protective vinyl edge seal.

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 miles per hour.

DAMPER MOUNT

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

SECURITY BARS

Selections of bar diameters, frame styles, and spacing.

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 are available, including baked enamel, epoxy, and prime coat.