GLENSTORMS

MADE IN INDIA

INNOVATION
IS HERE

ABOUT US

With rapid globalization the buildings and HVAC systems have become more complex and energy intensive thus raising concerns about efficiency of the systems and environment safety in general. Glenstorms have come up into products which control and monitor the air distribution system using optimum sources efficiency.

Taking roots from design and manufacturing of HVAC products with objective of specialization in Air Movement and control for central and unitary air conditioning systems.With changing concepts of fire safety, smoke control and general air quality within the HVAC systems design consultants in the country to introduced newer, better and efficient systems that addressed these needs. With an uncompromising approach towards quality and unflinching commitment to perfection, the company successfully established it's a brand GLENSTORMS, in the segment.

Today, Glenstorms offers a number of products and solutions to help you meet your goals of optimal indoor air quality at reduced energy costs.

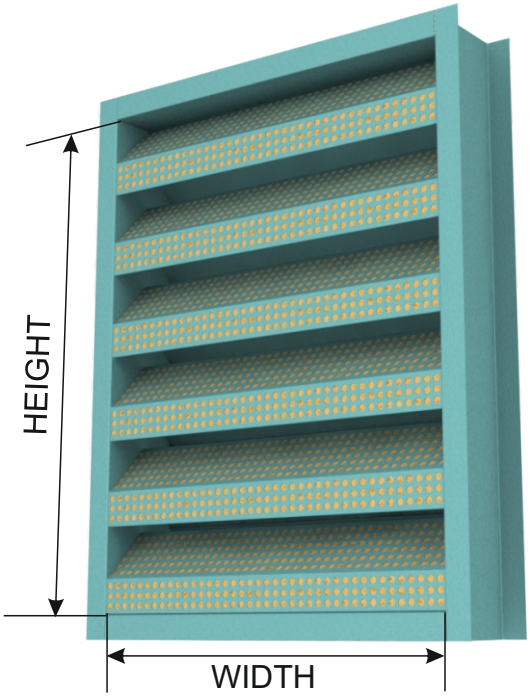
GLENSTORMS

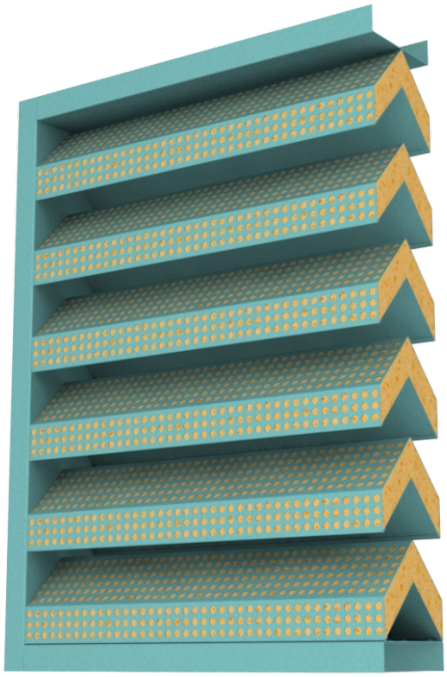
ARCHITECTURAL LOUVERS
Standard Acoustic Louver

Model : G-AL-AFJ-SP
Type : Sight-proof blades

Application and Design

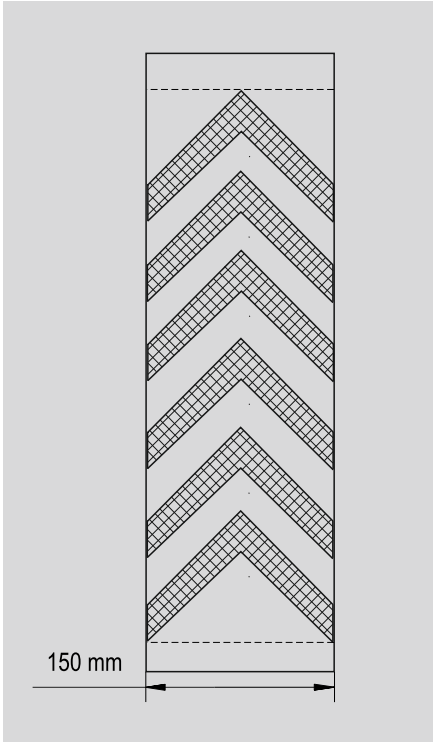
This is a acoustic weathers louvers are designed to protect air intake and exhaust opening in building exterior walls incorporating insulated acoustical blades with high free area to provide maximum resistance to sound transmission, rain and weather while providing minimum resistance to airflow.





Standard Construction

Frame	:	16 gauge, Aluminium sheet
Blade	:	Sightproof style, 18 gauge formed Aluminium, nominal wall thickness, positioned at 45° on approximately 5 in. centers
Construction	:	Mechanically fastened
Acoustical Insulation	:	Fiberglass insulation
Finish	:	Mill
Minimum Size	:	12 in. W x 15 in. H
Maximum single section size	:	60 in. W x 120 in. H
Water penetration (Beginning point)	:	700 fpm free area velocity.



ARCHITECTURAL LOUVERS
Standard Acoustic Louver

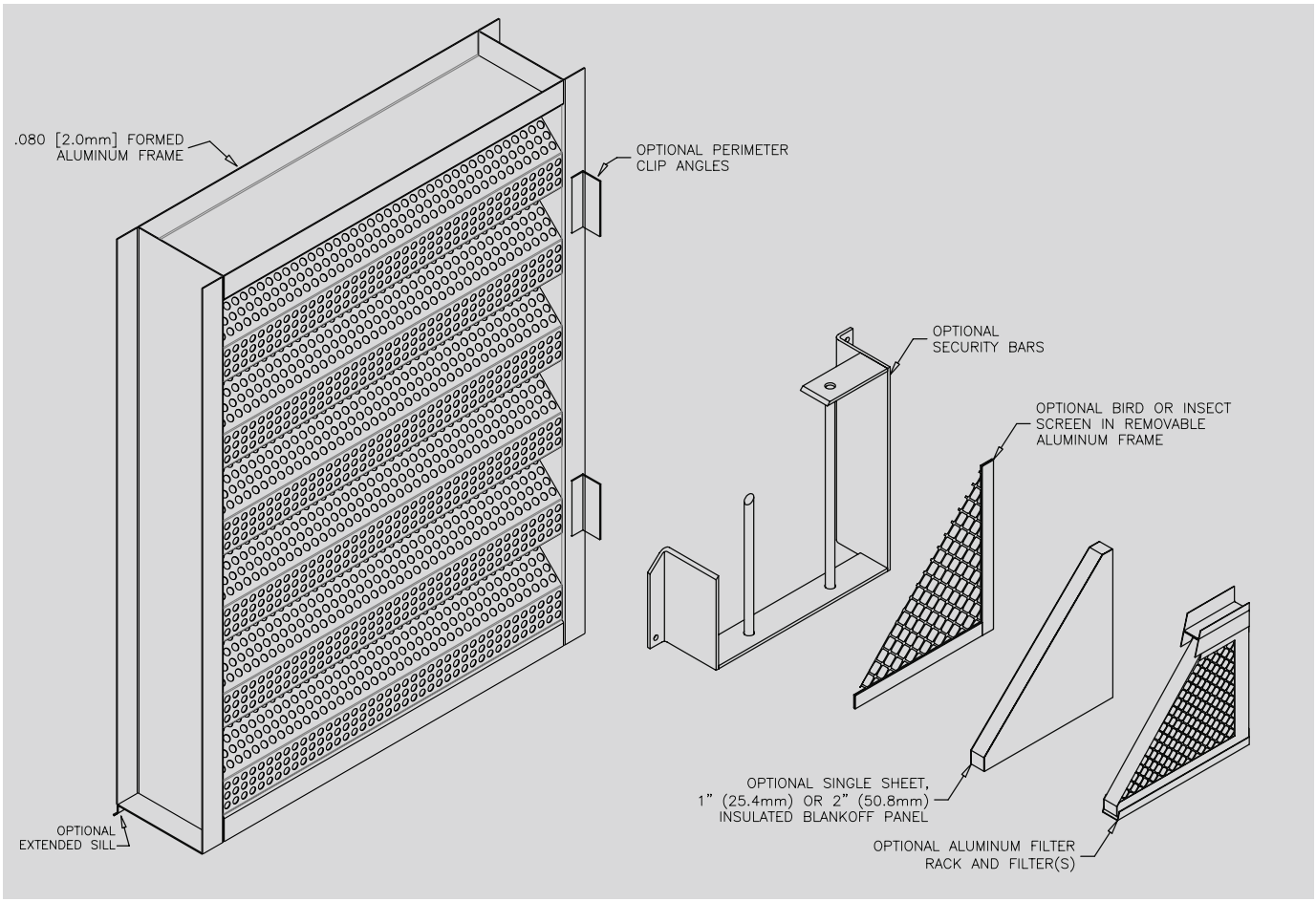
GLENSTORMS

Model : G-AL-AFJ-SP
Type : Sight-proof blades

Options *(at additional cost)*

- A variety of bird and insect screens.
- Blank off panels
- Clip angles
- Filter racks
- Galvanized steel frame and blade
- Security bars
- Powder Coated.

OPTION DRAWINGS



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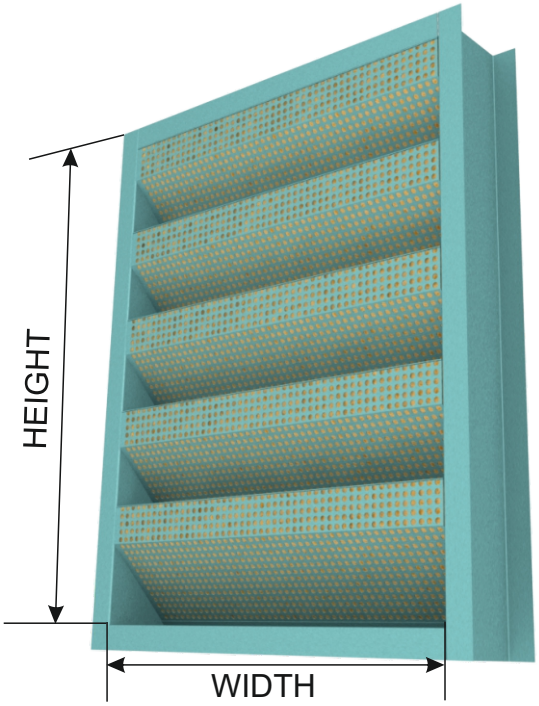
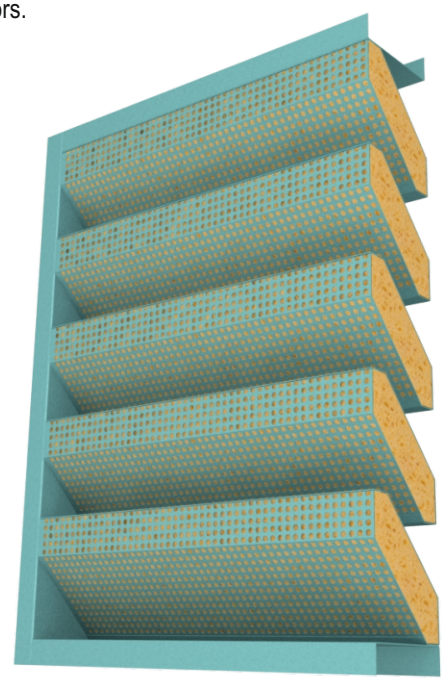
ARCHITECTURAL LOUVERS
Standard Acoustic Louver

Model : G-AL-AFJ

Application and Design

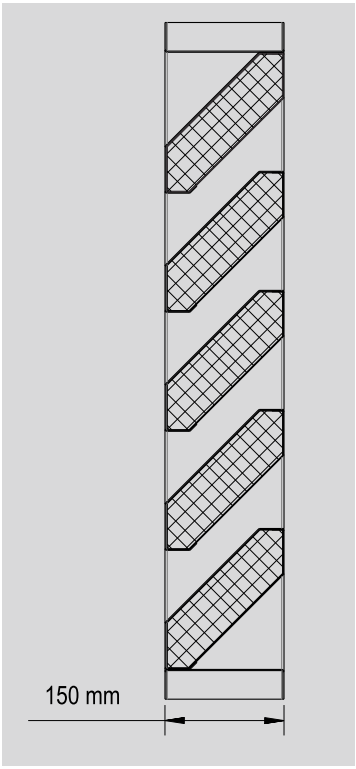
Commonly used to protect air intake and exhaust openings where high free area and low airflow resistance is required with sound absorption from escaping air.
Design incorporates steel fabricated C type frame for easy installation and insulated double skin stationary 6 inch deep horizontal louver which makes this product ideal for installation into standard walls, air handler, windows, or doors.





Standard Construction

Frame	:	18 gauge, Galvanised steel.
Blade	:	J style, 20 gauge Galvanised Steel, nominal wall thickness, positioned at 45° on approximately 5 in. centers
Construction	:	Mechanically fastened
Acoustical Insulation	:	Fiberglass insulation
Finish	:	Powder coated (RAL 9010)
Minimum Size	:	12 in. W x 15 in. H
Maximum single section size	:	96 in. W x 96 in. H
Water penetration (Beginning point)	:	700 fpm free area velocity.



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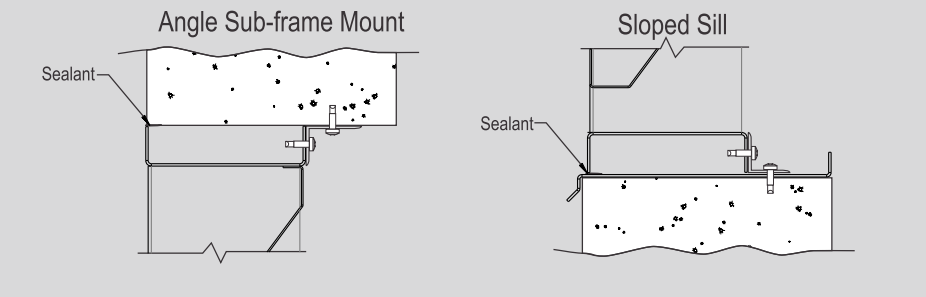
Model : G-AL-AFJ

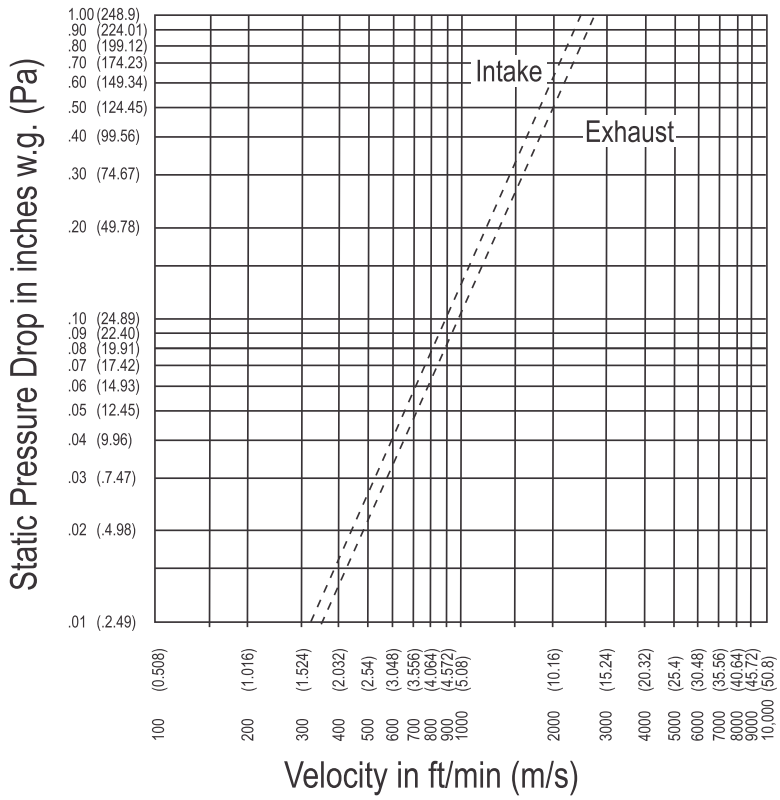
Options *(at additional cost)*

- A variety of bird and insect screens.
- Blank off panels
- Clip angles
- Filter racks
- Galvanized steel frame and blade
- Security bars
- Powder Coated.

Typical Installation Detail



Pressure Drop Chart.



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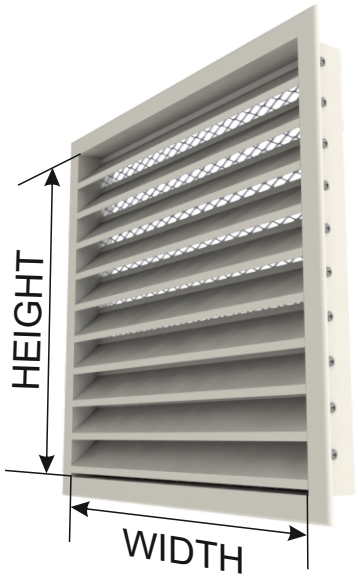
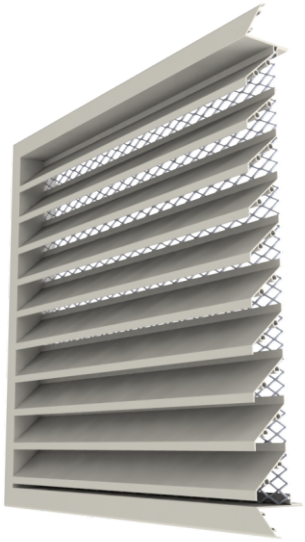
ARCHITECTURAL LOUVERS
Extruded Aluminium Thin Line Louver

Model : G-AL-TL

Application and Design

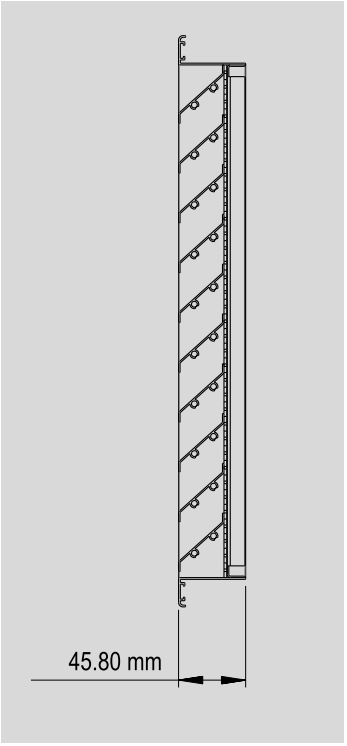
This type of Louver commonly used to protect air intake and exhaust openings in building interior or exterior where high free area and low airflow resistance is required.
Design incorporates extruded Aluminium one side flange frame for easy installation and stationary narrow profile horizontal louver which makes this product ideal for installation into curtain walls, windows doors, or as air conditioning grilles.





Standard Construction

Frame	:	Heavy gauge extruded 6063T5 aluminum, 1.8 in. x 0.063 in. nominal wall thickness
Blades	:	Thin-line style, heavy gauge extruded 6063T5 aluminum, 0.063 in. nominal wall thickness, positioned at 40º angles on approximately ¾ in. centers
Bird-screen	:	3/4 in. x 0.051 in. flattened expanded aluminum, inside mount (rear)
Finish	:	Powder coated (RAL 9010)
Minimum Size	:	6 in. W x 6 in. H
Maximum Size	:	48 in. W x 96 in. H
Water Penetration *(beginning point)*	:	**670 fpm** free area velocity



ARCHITECTURAL LOUVERS
Extruded Aluminium Thin Line Louver

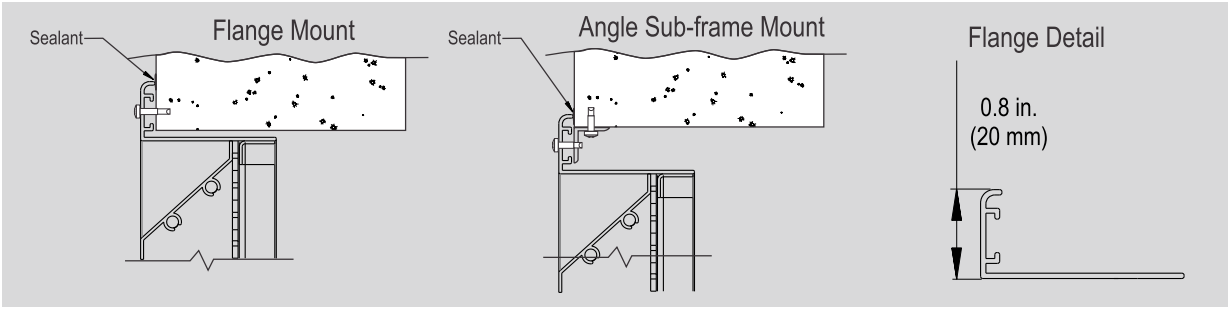
GLENSTORMS

Model : G-AL-TL

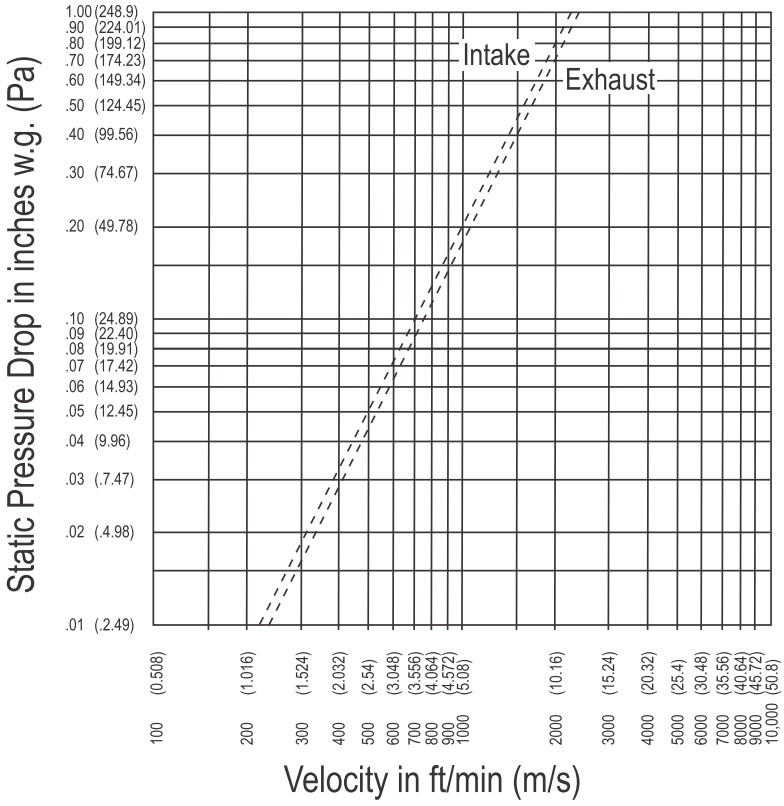
Options *(at additional cost)*

- A variety of bird and insect screens.
- Blank off panels
- Clip angles
- Filter racks
- Security bars

Typical Installation Detail



Pressure Drop Chart.



ARCHITECTURAL LOUVERS
Extruded Aluminium Wide Line Louver

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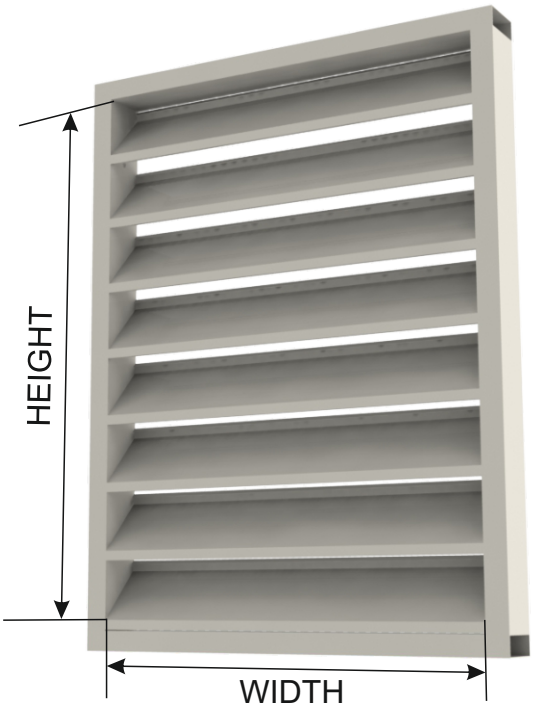
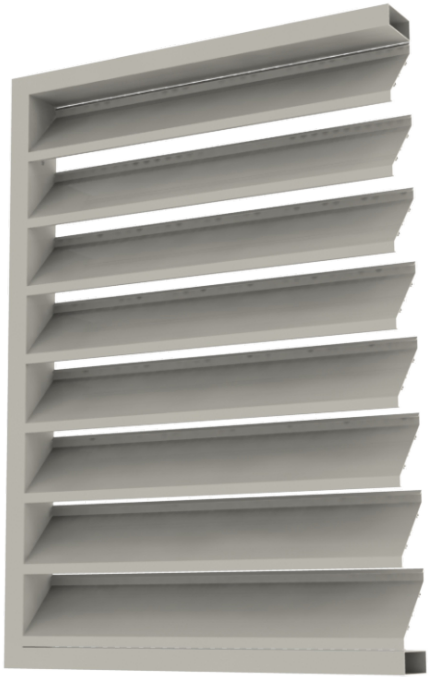
Model : G-AL-WL

Application and Design

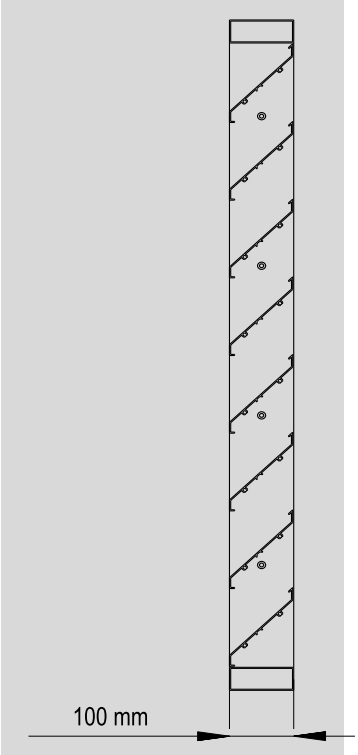
This type of Louver commonly used to protect air intake and exhaust openings in building interior or exterior where high free area and low airflow resistance is required.
Design incorporates extruded Aluminium one side flange frame for easy installation and stationary narrow profile horizontal louver which makes this product ideal for installation into curtain walls, windows doors, or as air conditioning grilles.





Standard Construction

Frame	:	Heavy gauge extruded 6063T5 aluminum, 4 in. x 0.063 in. nominal wall thickness
Blades	:	Wide-line style, heavy gauge extruded 6063T5 aluminum, 4in. X 0.063 in. nominal wall thickness, positioned at 45º angles on approximately 4 in. centers
Bird-screen	:	3/4 in. x 0.051 flattened expanded aluminum in removable frame, inside mount (rear)
Finish	:	Powder coated (RAL 9010)
Minimum Size	:	12 in. W x 12 in. H
Maximum Size	:	96 in. W x 96 in. H
Water Penetration *(beginning point)*	:	**700 fpm** free area velocity



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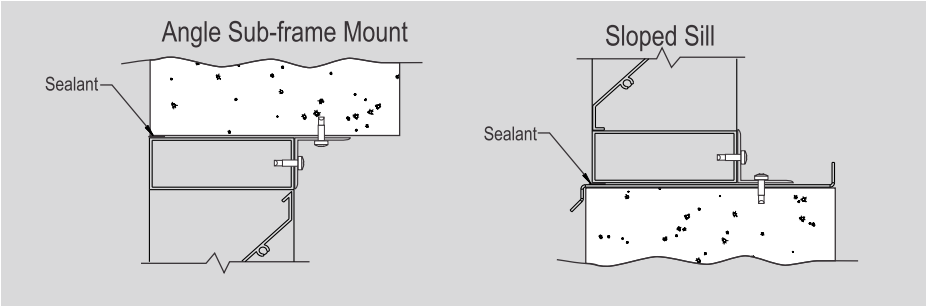
ARCHITECTURAL LOUVERS
Extruded Aluminium Wide Line Louver

Model : G-AL-WL

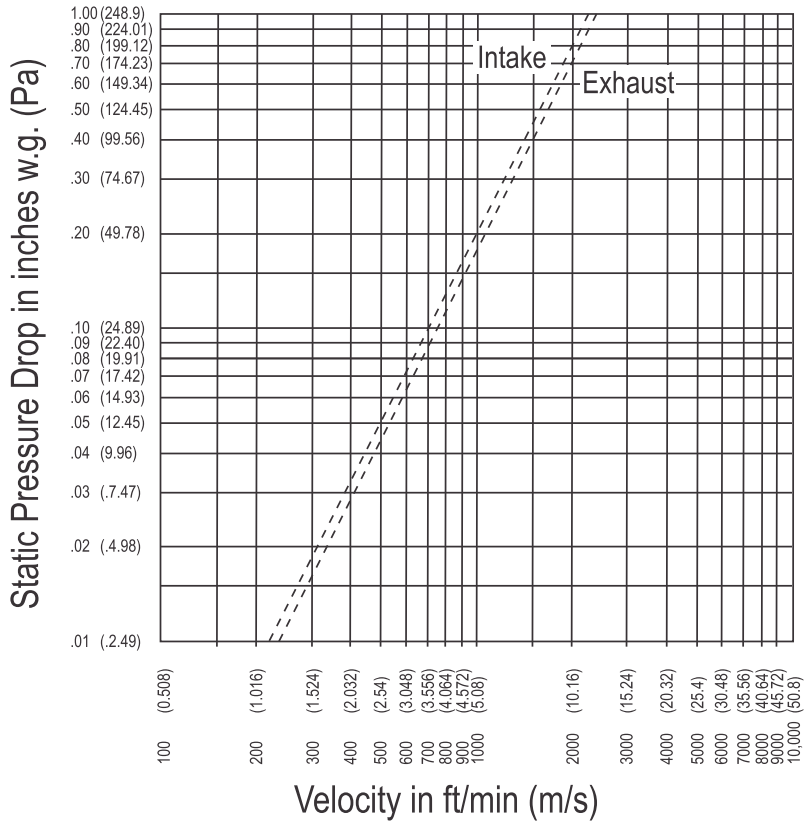
Options *(at additional cost)*

- A variety of bird and insect screens.
- Blank off panels
- Clip angles
- Filter racks
- Security bars

Typical Installation Detail



Pressure Drop Chart.



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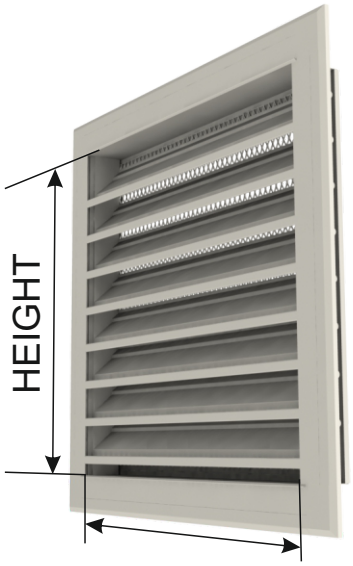
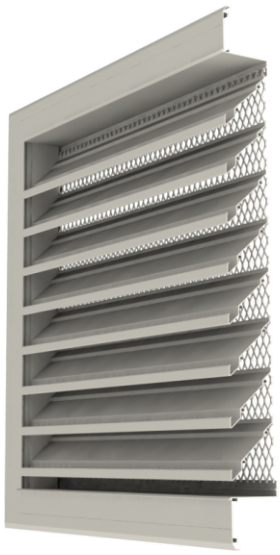
ARCHITECTURAL LOUVERS
Extruded Aluminium Drainable Louver

Model : G-AL-XD

Application and Design

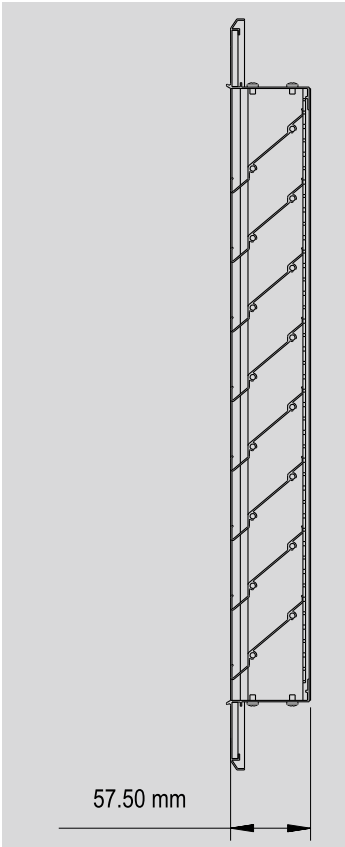
This type of Louver is specially designed weather louver to protect air intake and exhaust openings in building exterior walls where high free area and low airflow resistance is required with increased protection against water penetration.
Design incorporates extruded aluminium 2 inch deep drainable head member with one side flange and stationary horizontal louver to channel water to the jambs which guide the water through vertical down-spouts for escape at the sill.





Standard Construction

Frame	:	Slopped head & sill design, heavy gauge extruded 6063-T5 aluminum
Blades	:	Drain-able design, heavy gauge extruded 6063-T5 aluminum positioned at 38º angles
Bird-screen	:	3/4 in. x 0.051 in. flattened expanded aluminum in removable frame, inside mount (rear)
Finish	:	matt anodized.
Minimum Size	:	12 in. W x 12 in. H
Maximum Size	:	48 in. W x 96 in. H
Water Penetration *(beginning point)*	:	**1060 fpm** free area velocity



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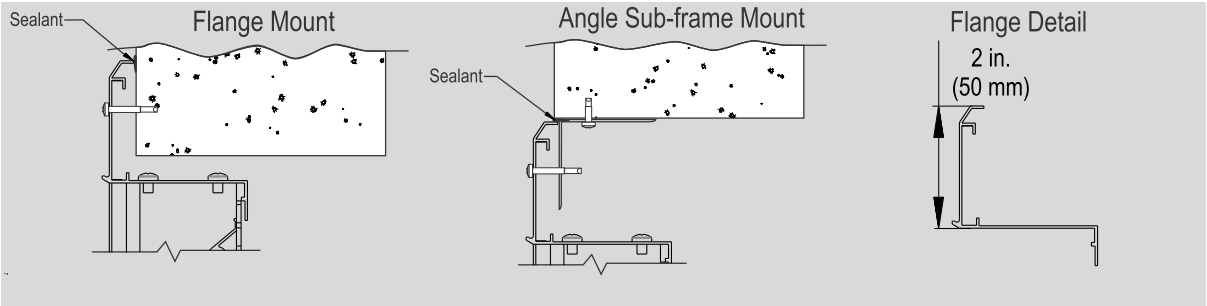
ARCHITECTURAL LOUVERS
Extruded Aluminium Drainable Louver

Model : G-AL-XD

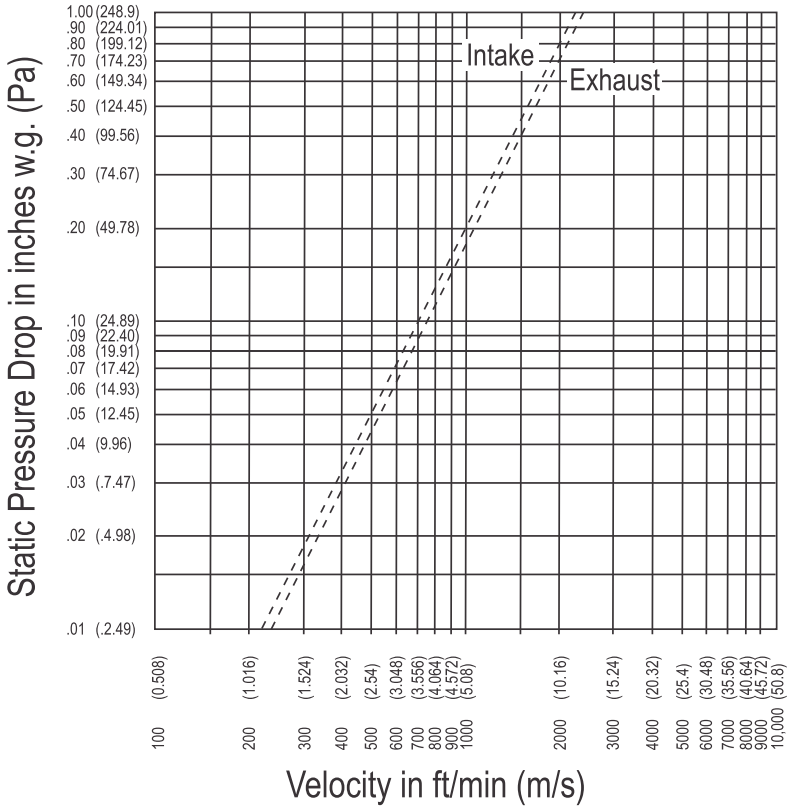
Options *(at additional cost)*

- A variety of bird and insect screens.
- Blank off panels
- Clip angles
- Filter racks
- Security bars
- Filter rack at additional cost
- Also available in powder coated (RAL 9010)

Typical Installation Detail



Pressure Drop Chart.



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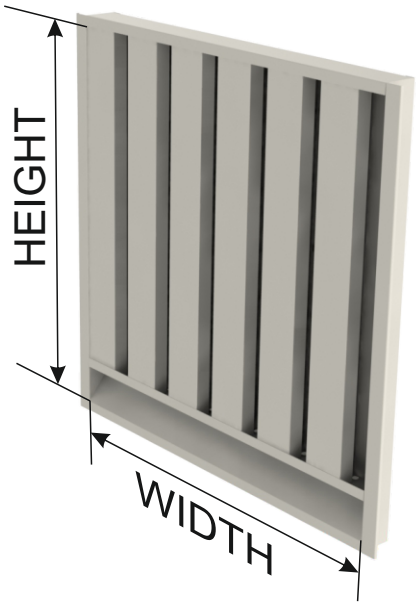
ARCHITECTURAL LOUVERS

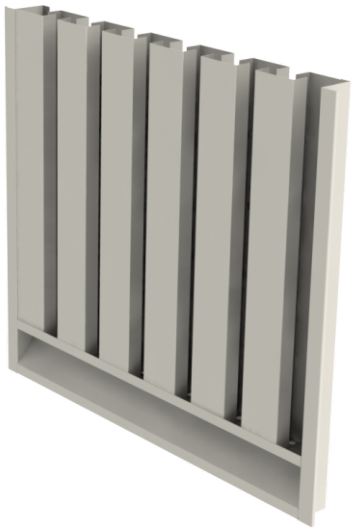
Sand Trap Louver.

Model : G-AL-SL

Application and Design

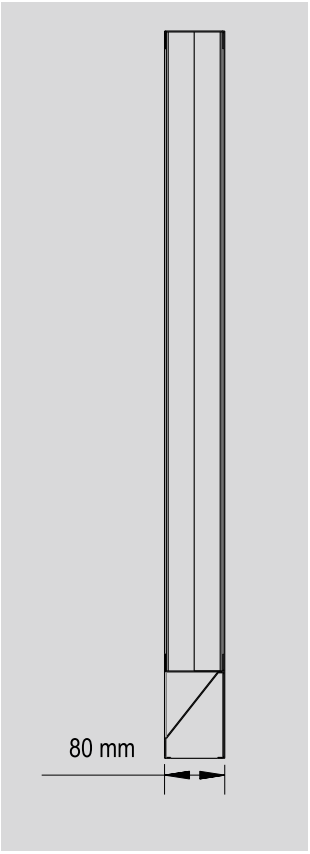
Sand trap louver are designed to protect air intake and exhaust openings in building exterior walls from wind driven sand.
Design incorporates vertical sightproof blades to separate sand from the air stream which is then channeled out at the sloped sill. This is not intended as a substitute for conventional air filters.





Standard Construction

Frame	:	75 mm x 16 gauge Aluminium sheet
Blades	:	Vertical sightproof style, 18 gauge Aluminium sheet.
Finish	:	Mill
Minimum Size	:	12 in. W x 12 in. H
Maximum Size	:	96 in. W x 96 in. H
Water penetration (Beginning point)	:	700 fpm free area velocity.



Options *(at additional cost)*

- A variety of bird and insect screens.
- Aluminium construction-limited to 60 in. high
- Blank off panels
- Clip angles
- Filter racks
- Flanged frame
- Heavier gauge blade and frame construction.

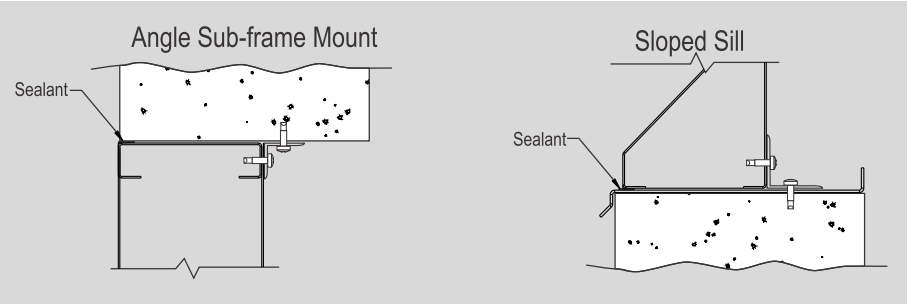
Sand Trap Louver.

GLENSTORMS

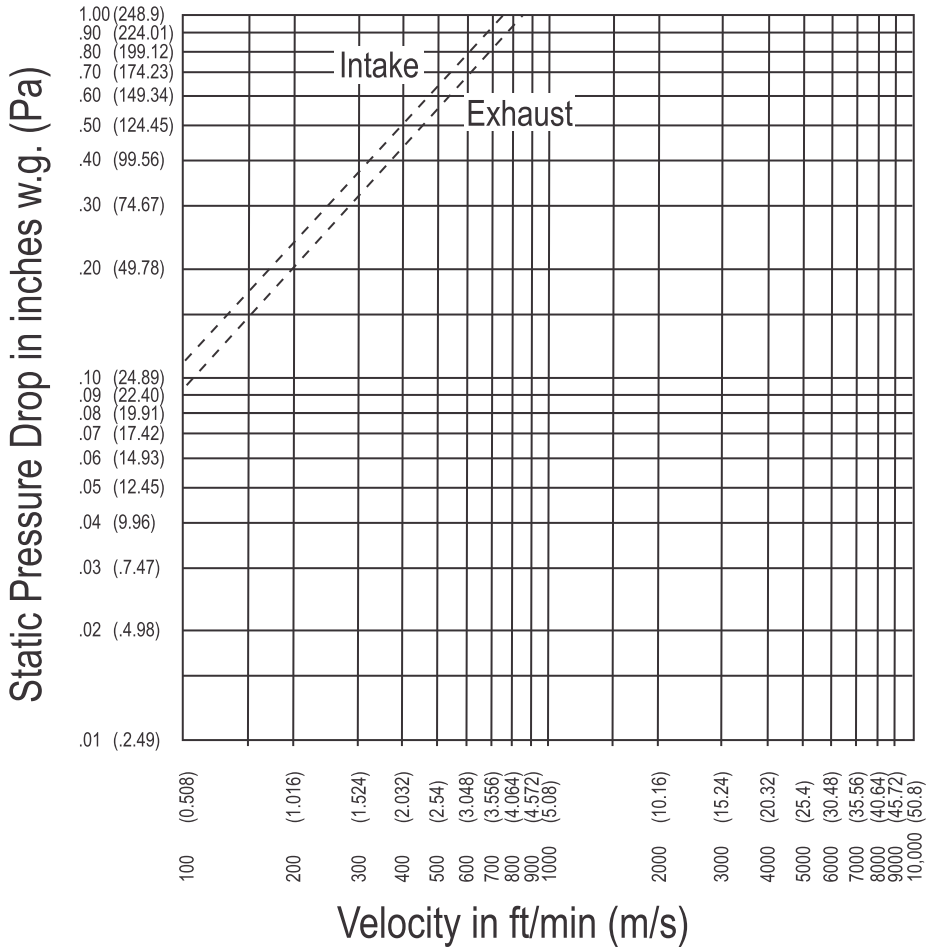
Model : G-AL-SL

- Hinged frame
- Security bars
- Bird screen $^{1}/_{2}$ in. $^{1}/_{2}$ in. mesh 19 gauge galvanised steel in removable frame, inside mount(rear)
- Powder Coated

Typical Installation Detail



Pressure Drop Chart.



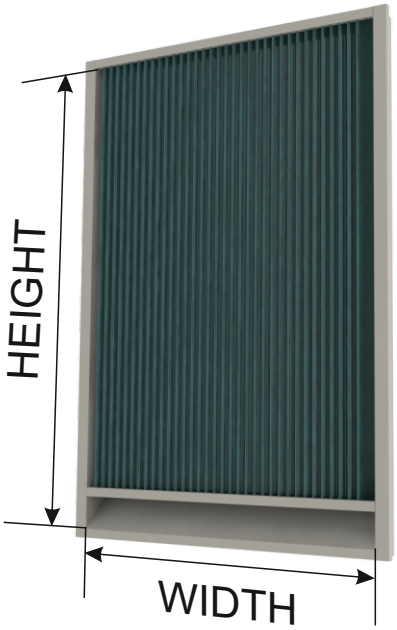
ARCHITECTURAL LOUVERS
Extruded Aluminium
Sight Proof Louver

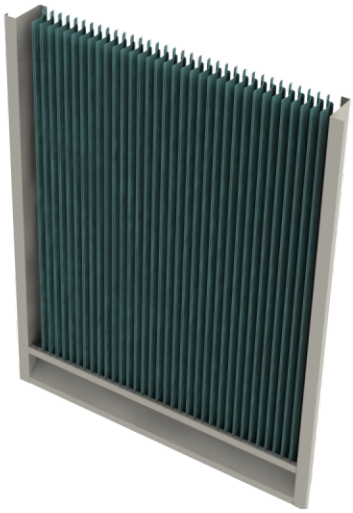
GLENSTORMS

Model : G-AL-SF-PVC

Application and Design

This type of Louver is used to protect air intake and exhaust openings in building exterior or interior where high free area and low airflow resistance is required.
Design incorporates steel fabricated one side flange frame for easy installation and extruded PVC stationary airfoil 3 inch deep horizontal louver which makes this product ideal for installation into standard walls, air handler, windows, doors, or as partition grilles.

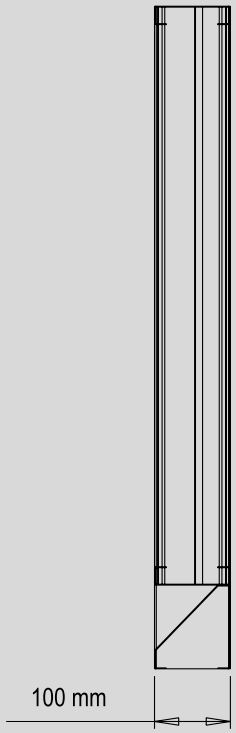




Sectional View

Standard Construction

Frame	:	3 in. x 18 gauge galvanized steel wall thickness
Blades	:	Sight-proof design, extruded PVC, vertically arranged louvers, provides maximum protection against wind driven rain
Bird-screen	:	3/4 in. x 0.051 in. flattened expanded aluminium inside rear mount
Finish	:	Powder coated (RAL 9010)
Minimum Size	:	12 in. W x 12 in. H
Maximum Size	:	96 in. W x 96 in. H
Water Penetration *(beginning point)*	:	**1250 fpm** free area velocity



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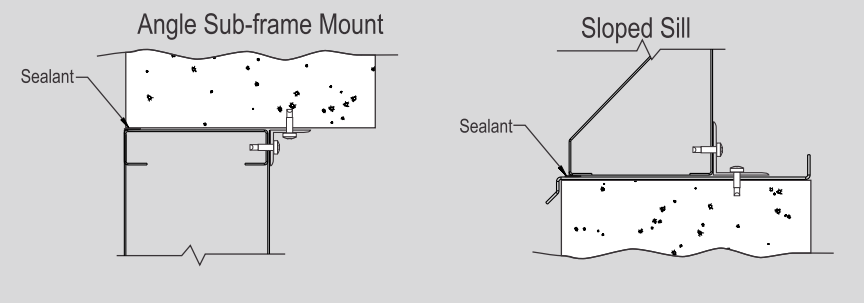
ARCHITECTURAL LOUVERS
Extruded Aluminium
Sight Proof Louver

Model : G-AL-SF-PVC

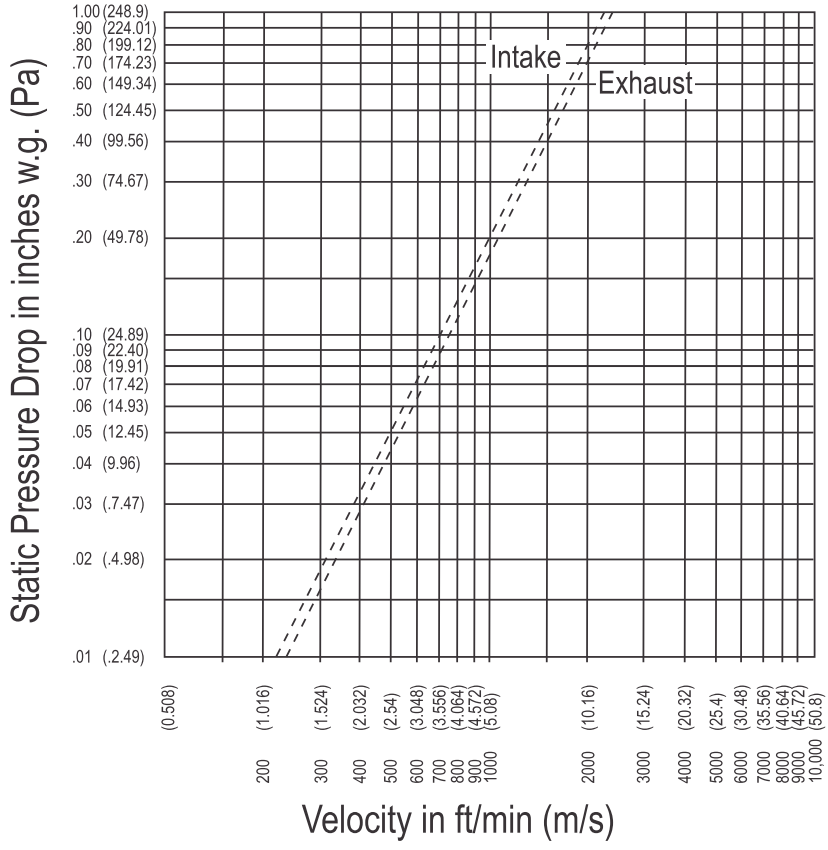
Options *(at additional cost)*

- A variety of bird and insect screens.
- Mil Finish
- Clip angles
- Filter racks
- Security bars

Typical Installation Detail



Pressure Drop Chart.



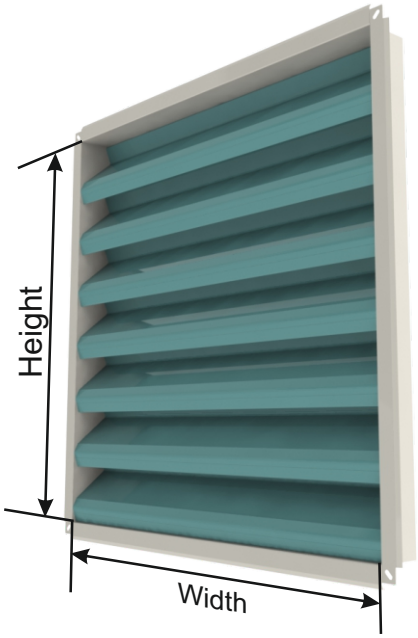
GLENSTORMS

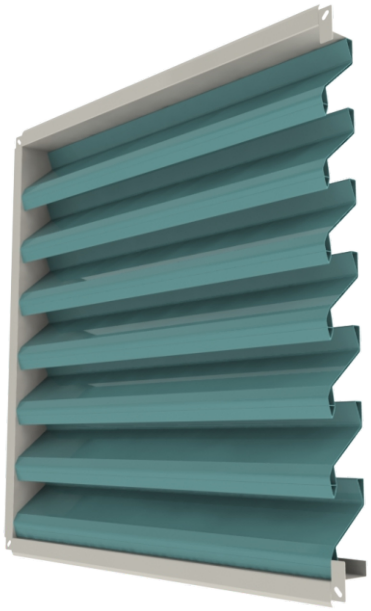
ARCHITECTURAL LOUVERS
Extruded PVC
Standard Louver.

Model : G-AL-Z-PVC

Application and Design

This type of Louver commonly used to protect air intake and exhaust openings in building exterior or interior where high free area and low airflow resistance is required.
Design incorporates steel fabricated one side flange frame for easy installation and extruded PVC stationary airfoil 3 inch deep horizontal louver which makes this product ideal for installation into standard walls, air handler, windows, doors, or as partition grilles.

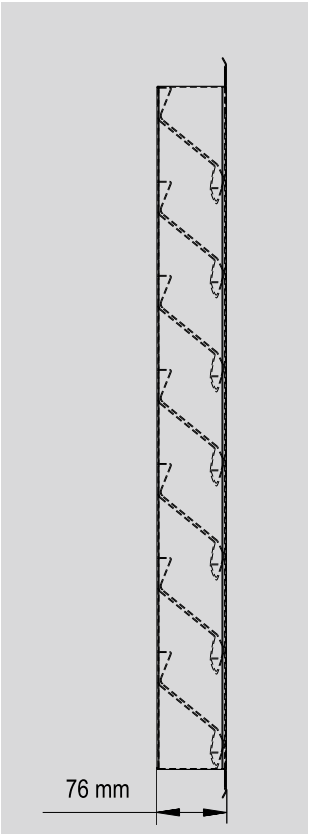




Sectional View

Standard Construction

Frame	:	3 in. x 18 gauge galvanized steel wall thickness
Blades	:	Airfoil design, extruded PVC, positioned at 38º on approximately 4 in. centers
Bird-screen	:	3/4 in. x 0.051 in. flattened expanded aluminium inside rear mount
Finish	:	Powder coated (RAL 9010)
Minimum Size	:	12 in. W x 12 in. H
Maximum Size	:	96 in. W x 96 in. H
Water Penetration *(beginning point)*	:	**800 fpm** free area velocity

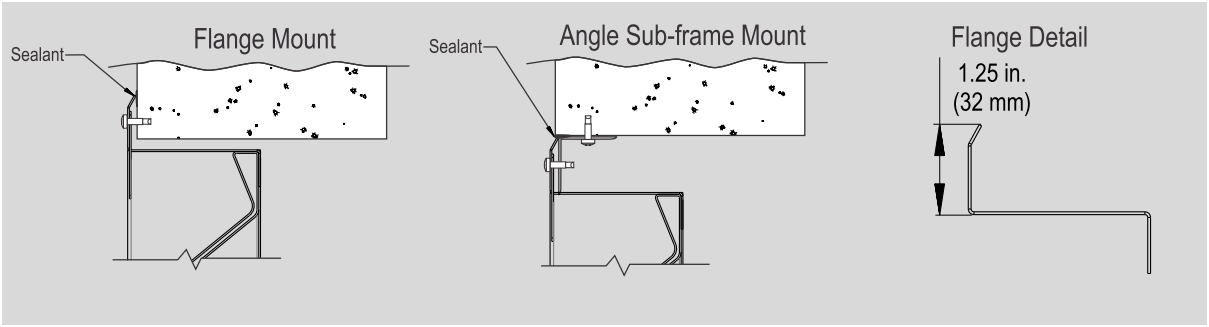


GLENSTORMS

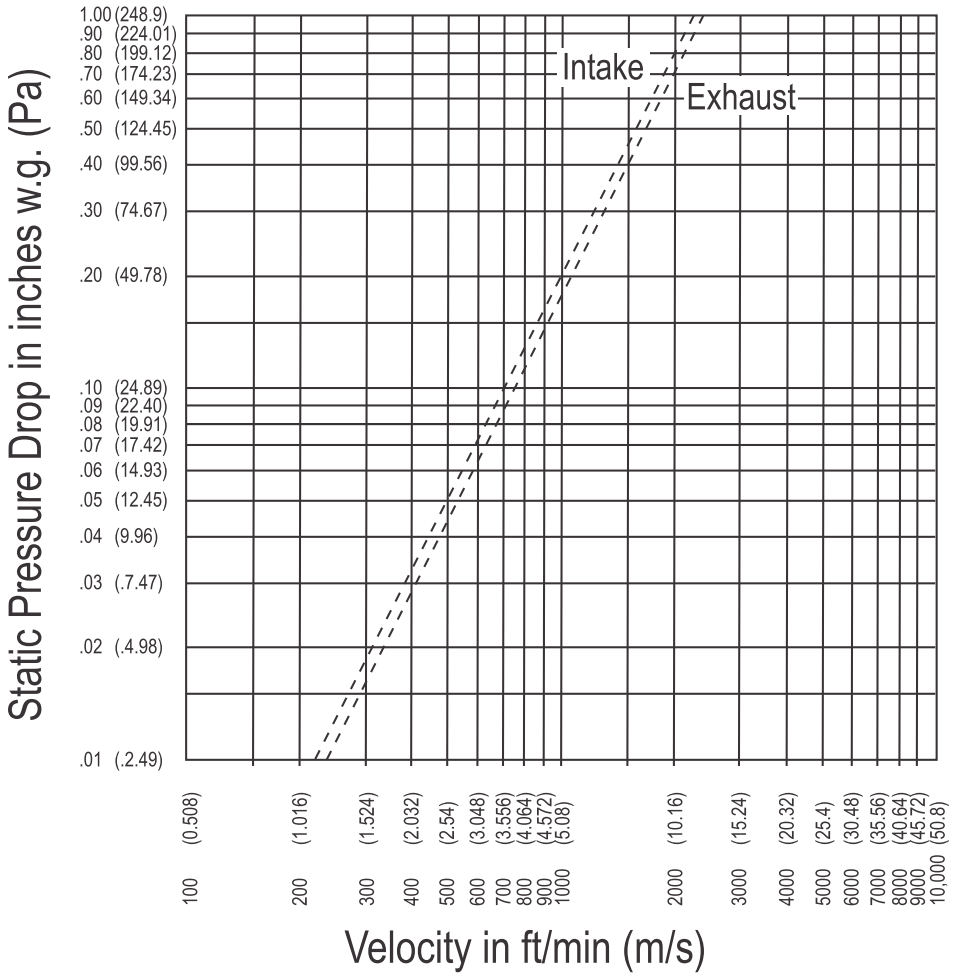
ARCHITECTURAL LOUVERS
Extruded PVC
Standard Louver.

Model : G-AL-Z-PVC

Typical Installation Detail



Pressure Drop Chart.



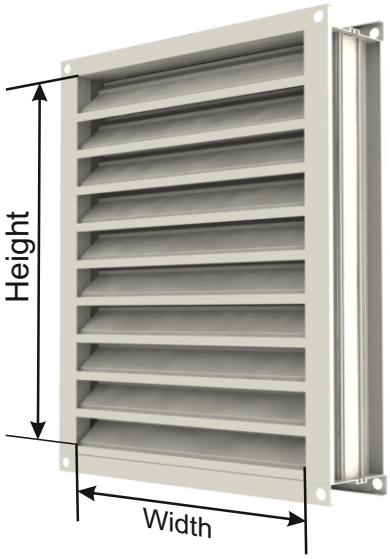
GLENSTORMS

ARCHITECTURAL LOUVERS
Gravity Exhaust Backdraft Damper Combined Louver.

Model : G-AL-CG-E

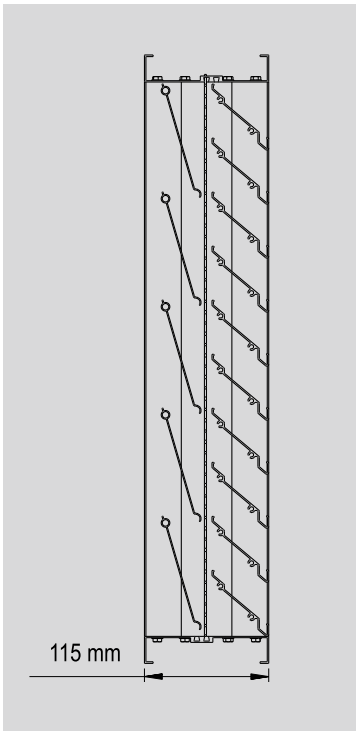
Application and Design

This type of Combined Louver has a stationary front louver that provides added weather protection and secondary gravity exhaust backdraft damper. Design incorporates extruded aluminium 4.5 inch. deep drainable head member with both side flange, primary stationary horizontal louvers to channel water to the jambs which guides the water through vertical down-spouts for escape at the sill, and secondary gravity louver blades. These louvers are ideal for situation where airflow is required in one direction with protection against water penetration.



Standard Construction

Frame	:	Heavy gauge extruded aluminium, C Section, 4.5 in.
Blades	:	**Primary stationary** Drainable design, 16 gauge Aluminium sheet, nominal wall thickness, positioned at 38˚angles on approximately 2.3 in. centers. **Secondary moveable** Aluminium, gravity louvers
Seals	:	EPDM blade edge seals
Axle	:	8 mm plated steel pin
Bird-screen	:	3/4 in. x 0.051 in. flattened expanded aluminum in removable frame, inside mount (rear)
Finish	:	anodized aluminium
Minimum Size	:	12 in. W x 12 in. H
Maximum Size	:	48 in. W x 96 in. H
Water Penetration *(beginning point)*	:	**1060 fpm** free area velocity



GLENSTORMS

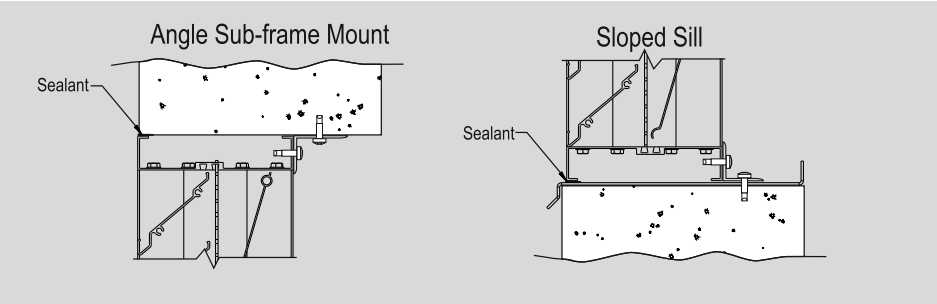
ARCHITECTURAL LOUVERS
Gravity Exhaust Backdraft Damper Combined Louver.

Model : G-AL-CG-E

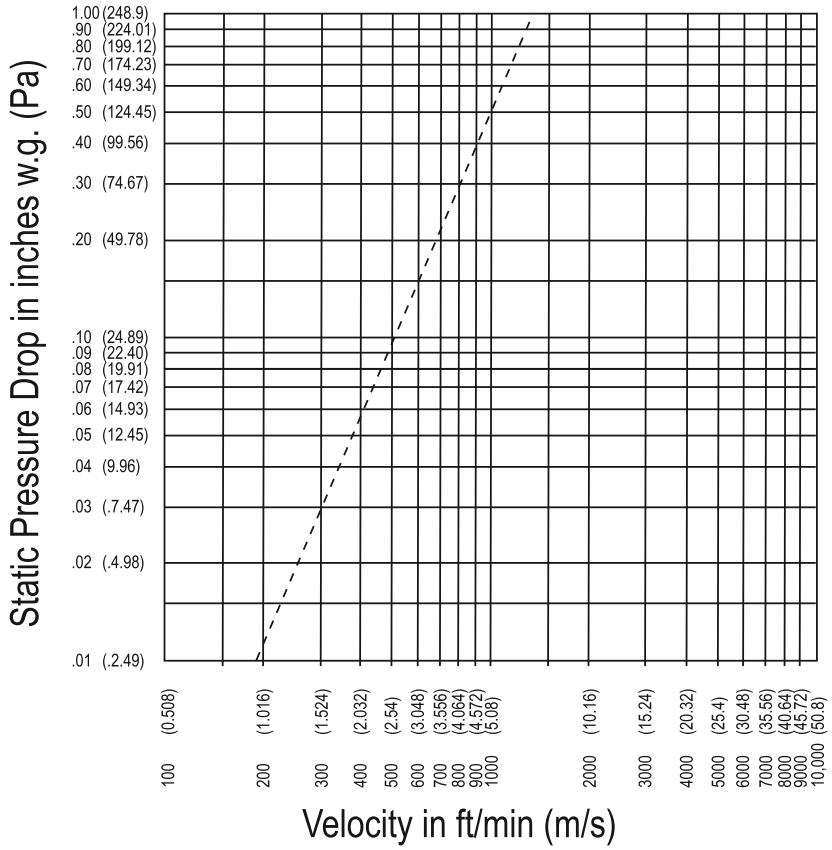
Options *(at additional cost)*

- A variety of bird and insect screens.
- Blank off panels
- Clip angles
- Filter racks
- Also available in Aluminium frame
- Security bars

Typical Installation Detail



Pressure Drop Chart.



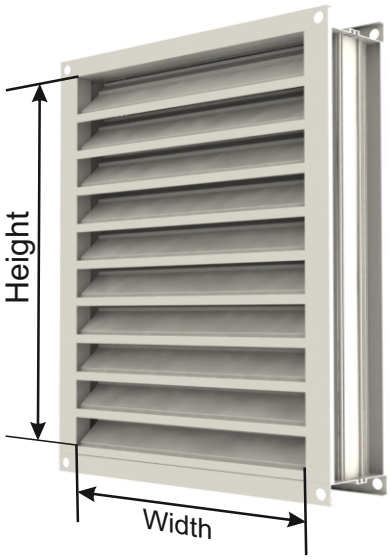
ARCHITECTURAL LOUVERS
Gravity Intake Backdraft Damper Combined Louver.

GLENSTORMS

Model : G-AL-CG-I

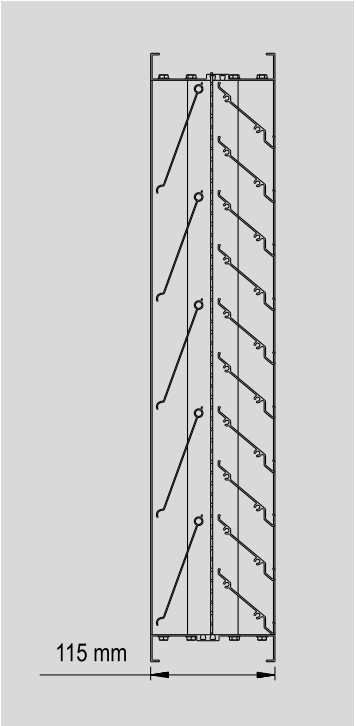
Application and Design

This type of Combined Louver of stationary front louver that provides added weather protection and secondary gravity intake backdraft damper. Design incorporates extruded aluminium 4.5 inch. deep drainable head member with both side flange, primary stationary horizontal louvers to channel water to the jambs which guides the water through vertical down-spouts for escape at the sill, and secondary gravity louver blades. These louvers are ideal for situation where airflow is required in one direction with protection against water penetration.



Standard Construction

Frame	:	Heavy gauge extruded aluminium, C Section, 4.5 in.
Blades	:	**Primary stationary** Drainable design, 16 gauge Aluminium sheet, nominal wall thickness, positioned at 38˚angles on approximately 2.3 in. centers.
		Secondary moveable Aluminium, gravity louvers
Seals	:	EPDM blade edge seals
Axle	:	8 mm plated steel pin
Bird-screen	:	3/4 in. x 0.051 in. flattened expanded aluminum in removable frame, inside mount (rear)
Finish	:	anodized aluminium
Minimum Size	:	12 in. W x 12 in. H
Maximum Size	:	48 in. W x 96 in. H



GLENSTORMS

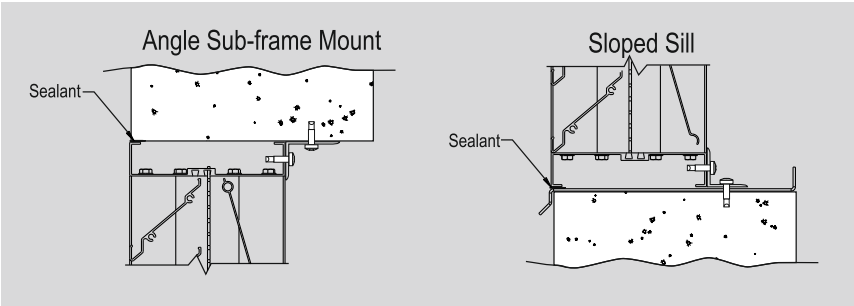
ARCHITECTURAL LOUVERS
Gravity Intake Backdraft Damper Combined Louver.

Model : G-AL-CG-I

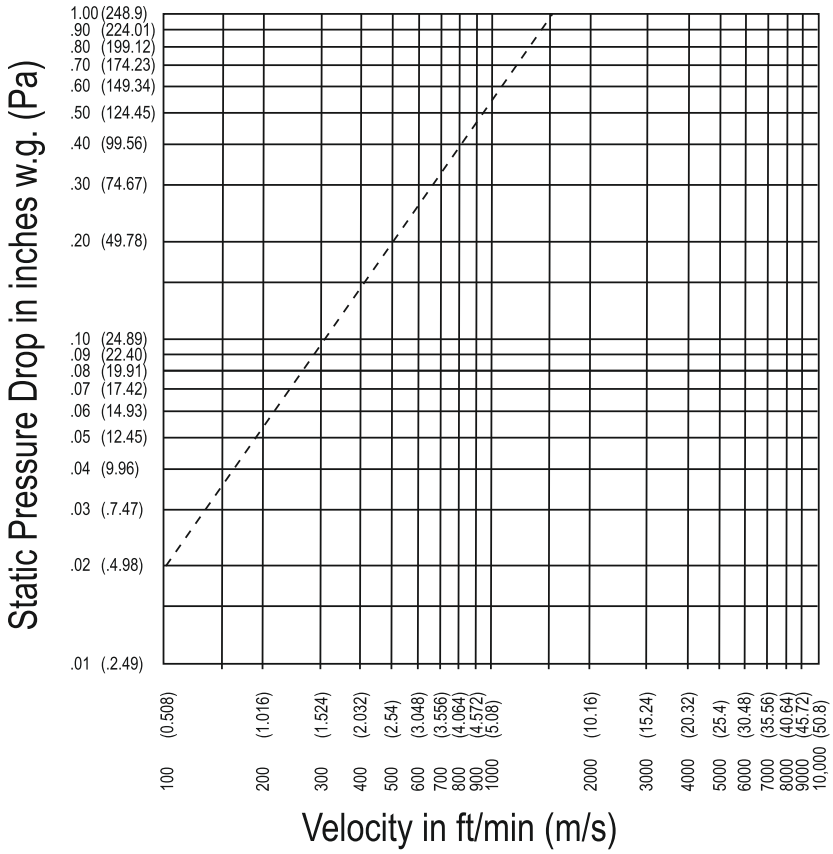
Options *(at additional cost)*

- A variety of bird and insect screens.
- Blank off panels
- Clip angles
- Filter racks
- Also available in Aluminium frame
- Security bars

Typical Installation Detail



Pressure Drop Chart.



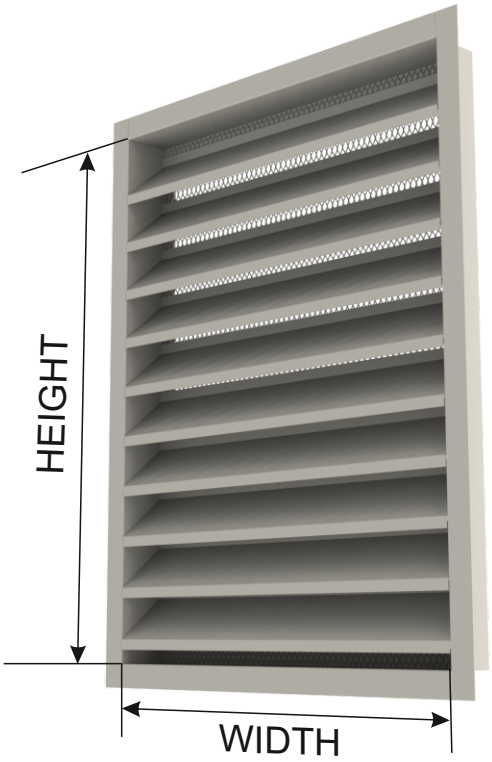
GLENSTORMS

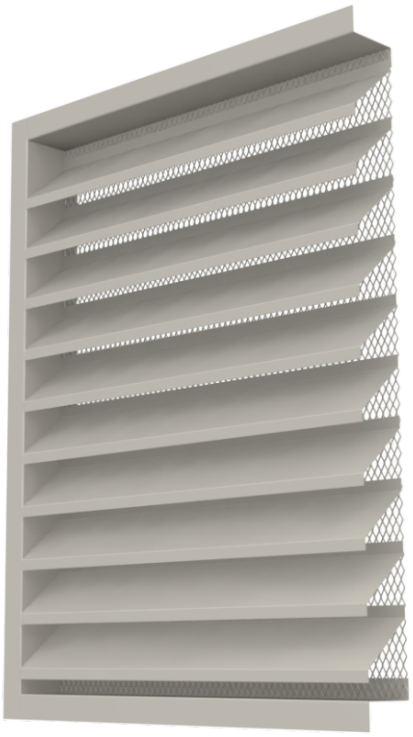
ARCHITECTURAL LOUVERS
Steel Fabricated Stationary Louver

Model : G-AL-F

Application and Design

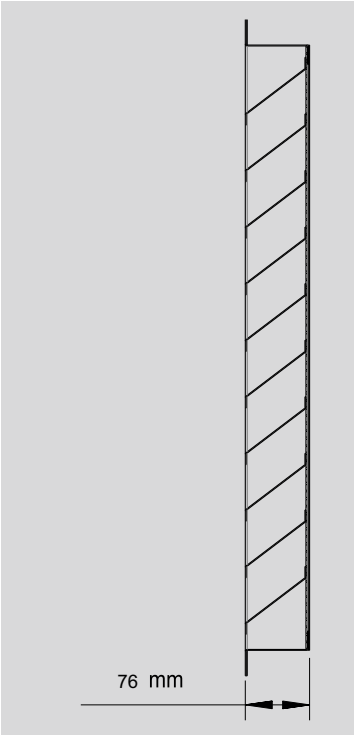
This is fabricated stationary Louver is designed to protect air intake and exhaust opening in building exterior walls.
Design incorporates a drainable head member and stationary drainable blades to channel water to the jambs which guides the water through vertical downspouts for escape at the sill.





Standard Construction

Frame	:	3 in. x 18 gauge galvanized steel wall thickness
Blades	:	Standard design, 20 gauge galvanized steel wall thickness, positioned at 45º on approximately 3 in. centers
Bird-screen	:	½ in. x ½ in. mesh 19 gauge galvanized steel inside mount (rear)
Finish	:	Powder coated (RAL 9010)
Minimum Size	:	12 in. W x 12 in. H
Maximum Size	:	96 in. W x 96 in. H
Water Penetration *(beginning point)*	:	**700 fpm** free area velocity



ARCHITECTURAL LOUVERS
Steel Fabricated Stationary Louver

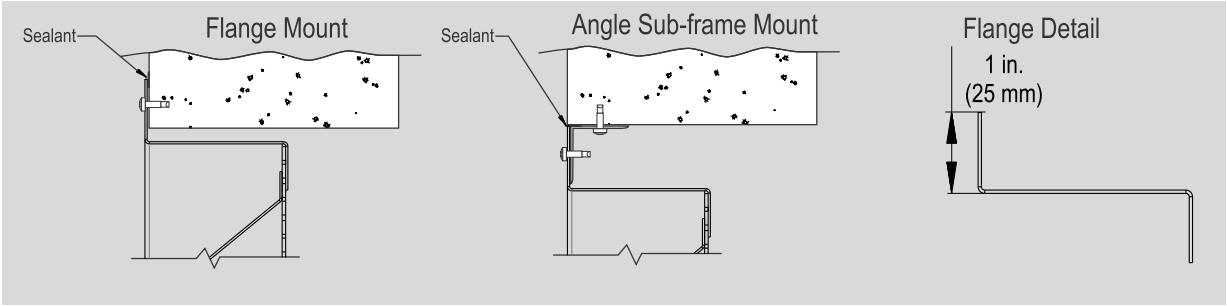
GLENSTORMS

Model : G-AL-F

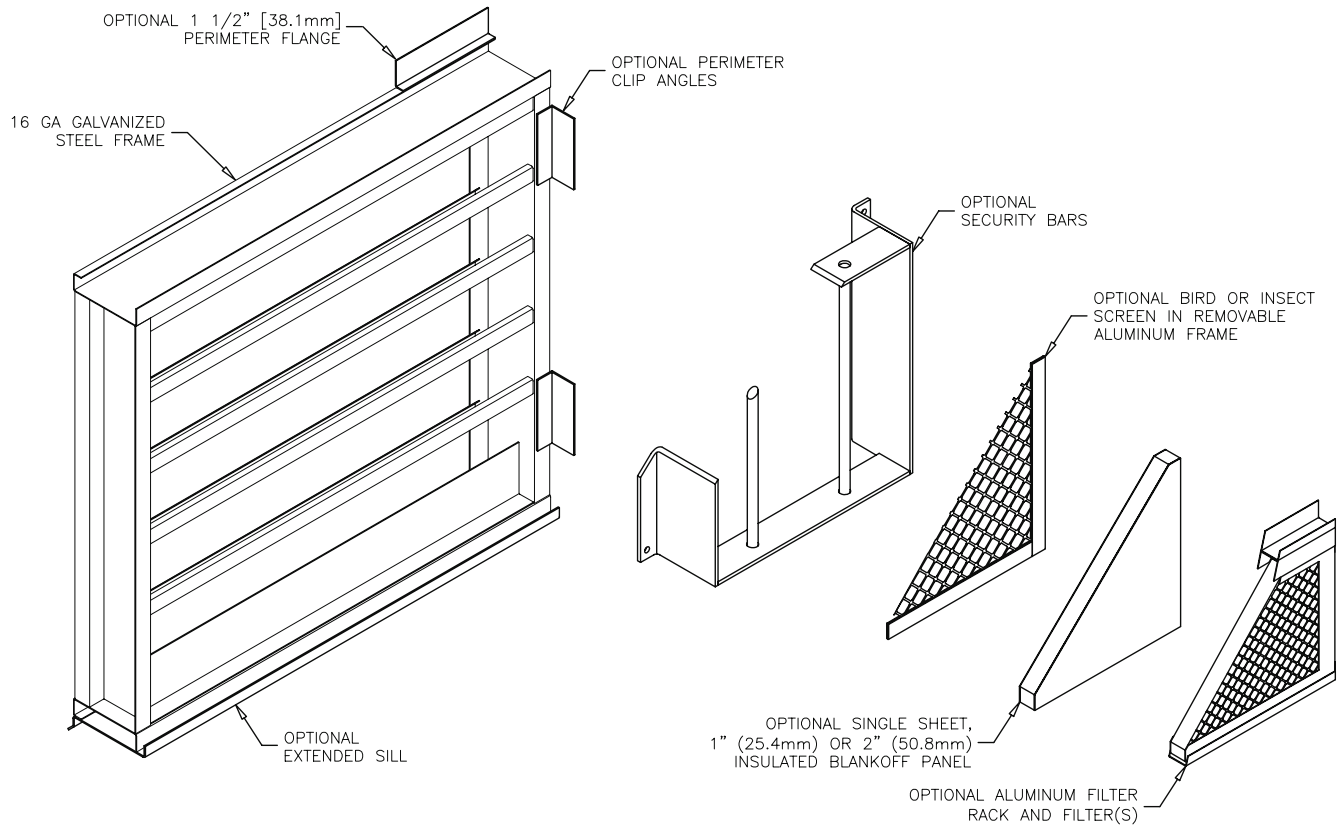
Options *(at additional cost)*

- A variety of bird and insect screens.
- Blank off panels
- Clip angles
- Filter racks
- Heavy gauge blade construction.
- Security bars
- Flanged frame.
- Stainless steel blade and frame
- Powder Coated

Typical Installation Detail



OPTION DRAWINGS

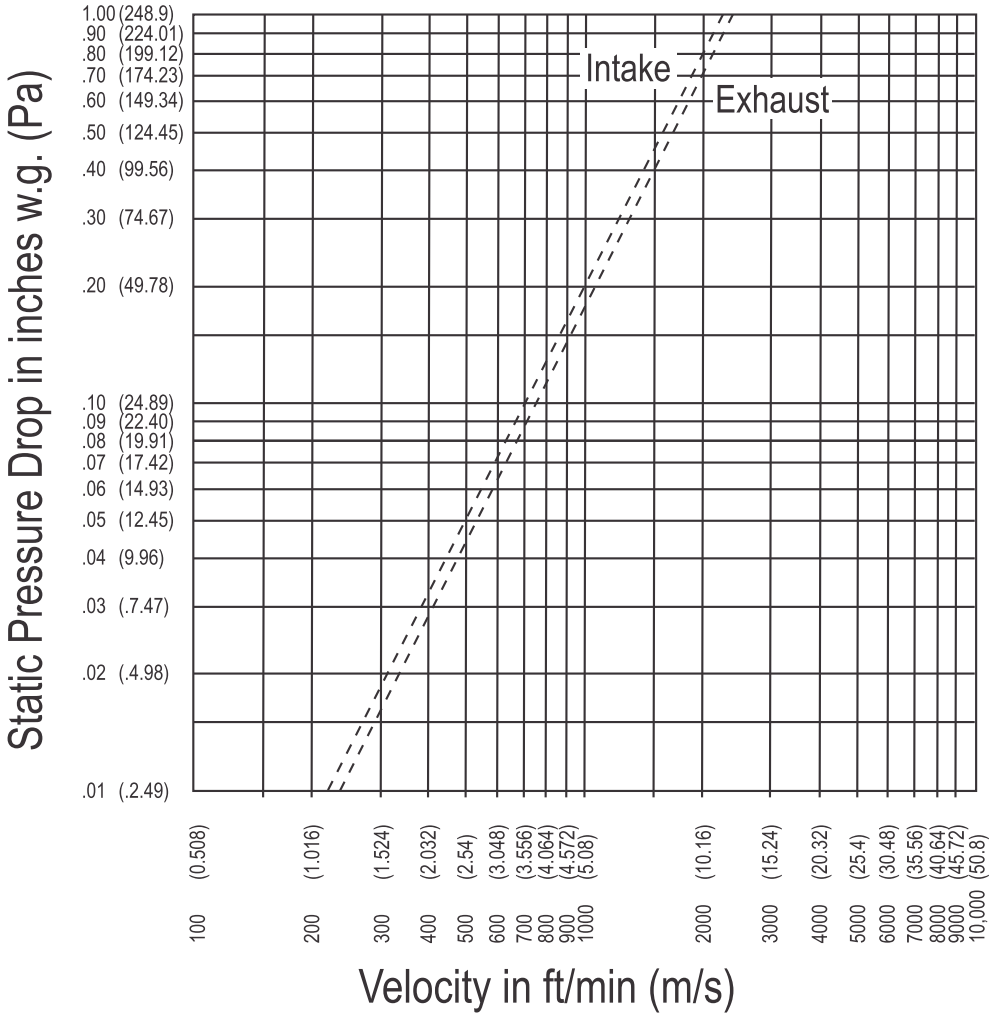


GLENSTORMS

ARCHITECTURAL LOUVERS
Steel Fabricated Stationary Louver

Model : G-AL-F

Pressure Drop Chart.



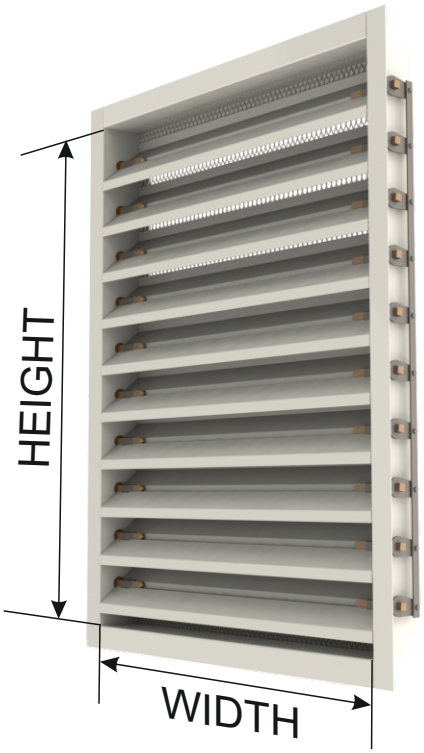
GLENSTORMS

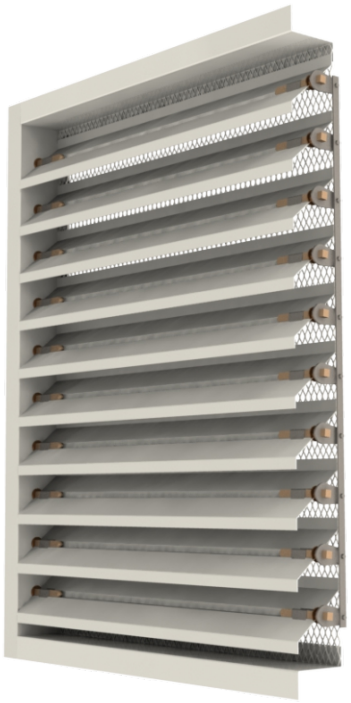
ARCHITECTURAL LOUVERS
Steel Fabricated Adjustble Louver

Model : G-AL-FA

Application and Design

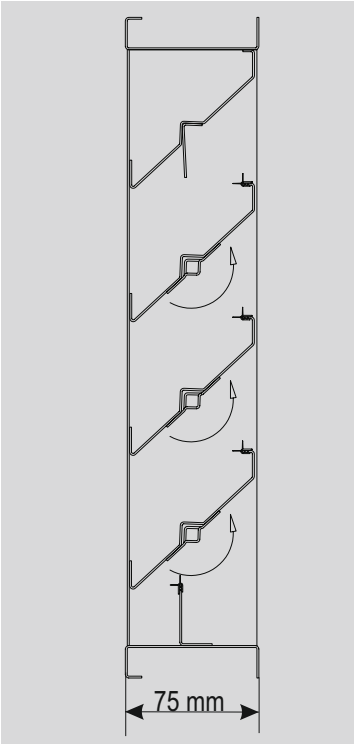
This is fabricated adjustable louver designed to protect air intake and exhaust opening in building exterior walls that requires tight air shut off. Design incorporates a drainable head member and adjustable drainable blades to channel water to the jambs which guides the water through vertical downspouts for escape at the sill.





Standard Construction

Frame	:	4 in. x 16 gauge galvanized steel wall thickness
Blades	:	Drainable design, 16 gauge galvanized steel wall thickness, positioned at 45 on approximately 4 in. centers.
Linkage	:	Side linkage out of air stream (concealed in frame
Bearings	:	Synthetic sleeve type
Construction	:	Mechanically fastened
Finish	:	Mill
Minimum Size	:	12 in. W x 12 in. H
Maximum Size	:	96 in. W x 96 in. H
Water penetration (Beginning point)	:	700 fpm free area velocity.



ARCHITECTURAL LOUVERS
Steel Fabricated Adjustble Louver

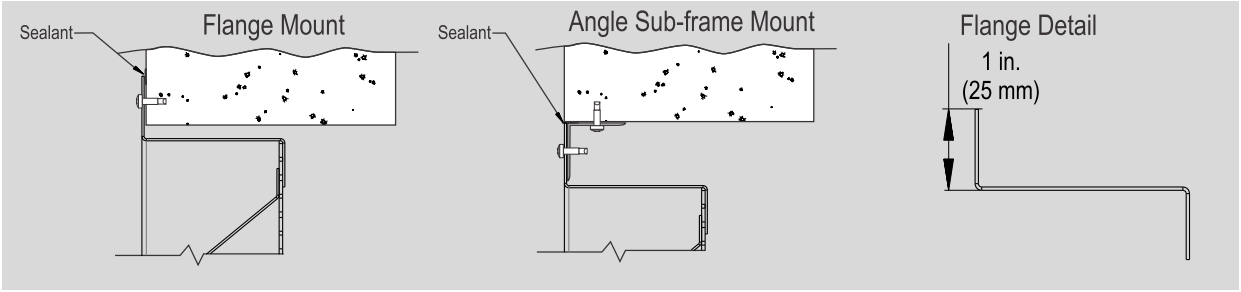
GLENSTORMS

Model : G-AL-FA

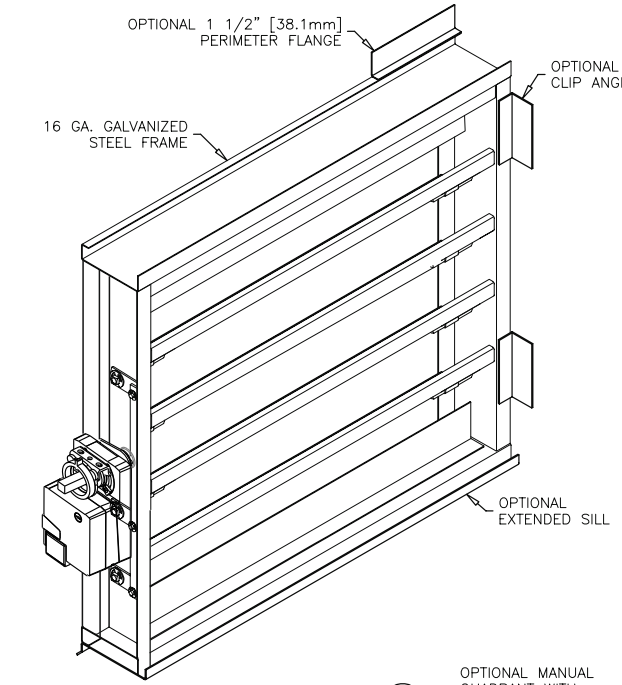
Options *(at additional cost)*

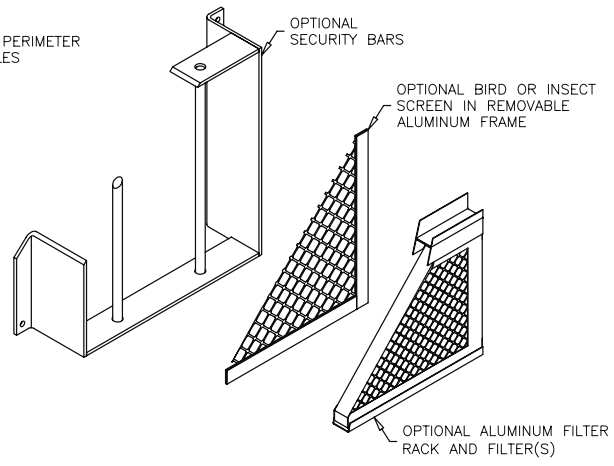
- A variety of bird and insect screens.
- A variety of electric, pneumatic or manual actuators.
- Extended sill
- Clip angles
- Filter racks
- Flanged frame
- Stainless steel blade and frame construction.
- Hinged frame
- Security bars
- Powder Coated

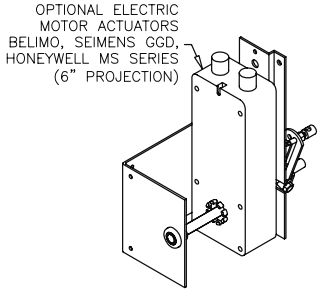
Typical Installation Detail



OPTION DRAWINGS





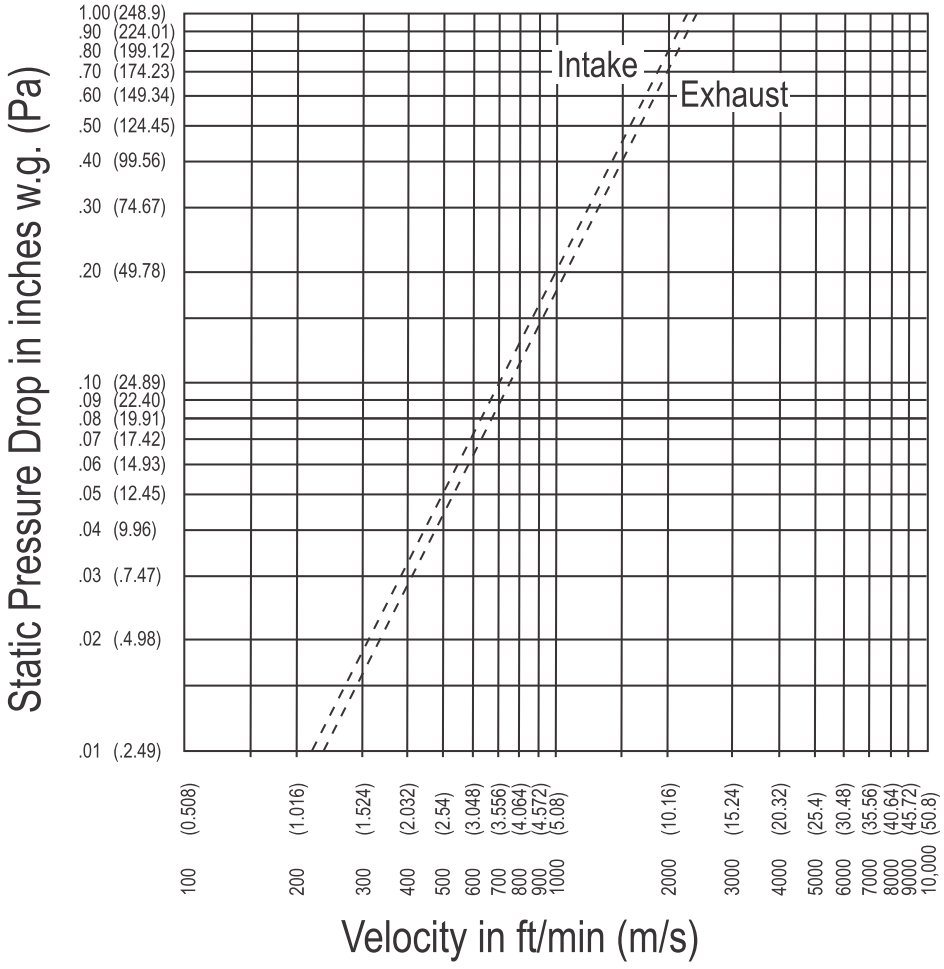


GLENSTORMS

ARCHITECTURAL LOUVERS
Steel Fabricated Adjustble Louver

Model : G-AL-FA

Pressure Drop Chart.



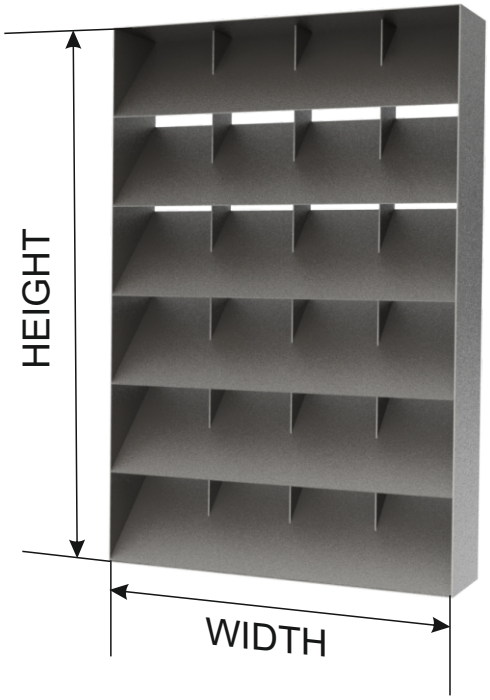
GLENSTORMS

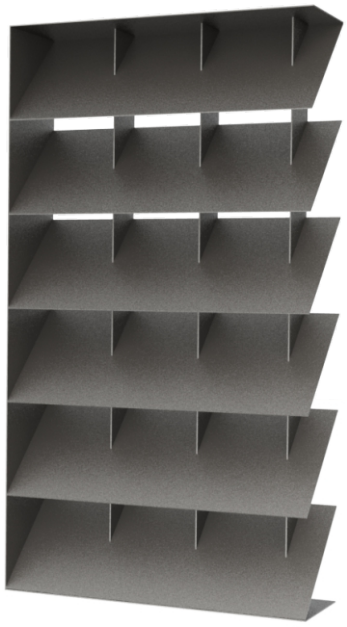
ARCHITECTURAL LOUVERS
Continuous Bar Grille.

Model : G-CBG

Application and Design

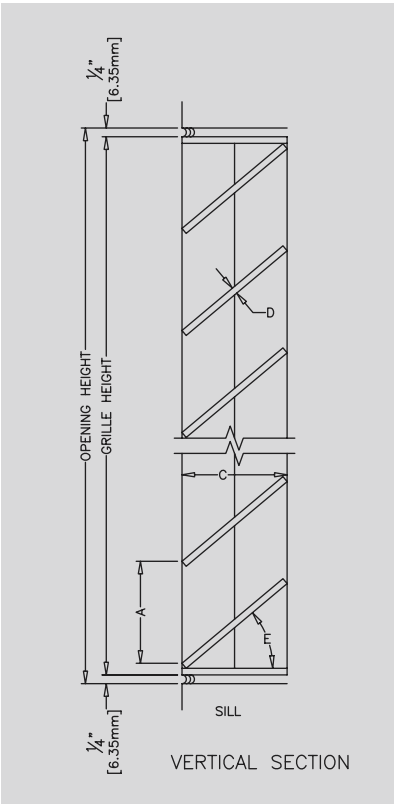
This continuous Bar Grilles are custom designed and manufactured to function as architectural accents or as entire facades to prevent sight or serve as solar screens or security barriers. Continuous Bar Grilles feature a rear-justified vertical elements that presents a unique grille profile dominated by its horizontal elements.





Standard Construction

Material	:	16 gauge, GI sheet
Material thickness	:	18 gauge, GI sheet
Grille Depth	:	50/100/150 mm
Perimeter Frame	:	GI
Horizontal Bar Angle	:	0 to 45°
Horizontal Bar Spacing	:	2 in. to 12 in. (50.8 to 304.8 mm)
Vertical Bar Spacing	:	2 in. to 12 in. (50.8 to 304.8 mm)
Minimum Dimension	:	10 in. (254 mm)
Maximum Dimension	:	120 in. (3048 mm)



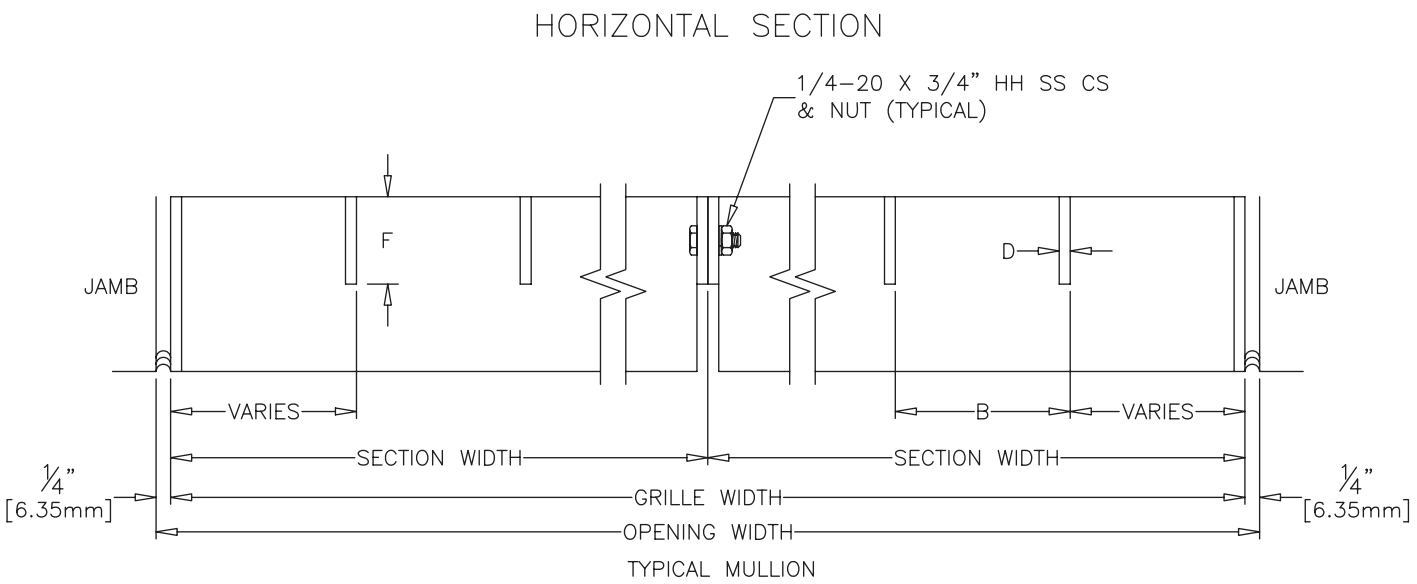
Options *(at additional cost)*

- Anchor clips
- A variety of bird and insect screens.
- Powder coated

GLENSTORMS

ARCHITECTURAL LOUVERS
Continuous Bar Grille.

Model : G-CBG



A - Horizontal Bar Spacing
Specify horizontal members on minimum 2 in. (50.8 mm) to maximum 12 in. (304.8 mm) center spacing.

B - Vertical Bar Spacing
Specify vertical members on minimum 2 in. (50.8 mm) to maximum 12 in. (304.8 mm) center spacing.

C - Grille Depth
Specify minimum 2 in. (50.8 mm) to maximum 6 in. (152.4 mm) depth.

D - Aluminum Thickness
Specify minimum 0.081 in. (2.06 mm) to maximum 0.250 in. (6.35 mm) Extruded Aluminum (alloy 6063T5) wall thickness.

E - Horizontal Bar Angle
Specify minimum 0 to maximum 45 degree angle.

F - Vertical Bar Depth
Specify minimum 1 in. (25.4mm) to maximum 6 in. (125.4m).

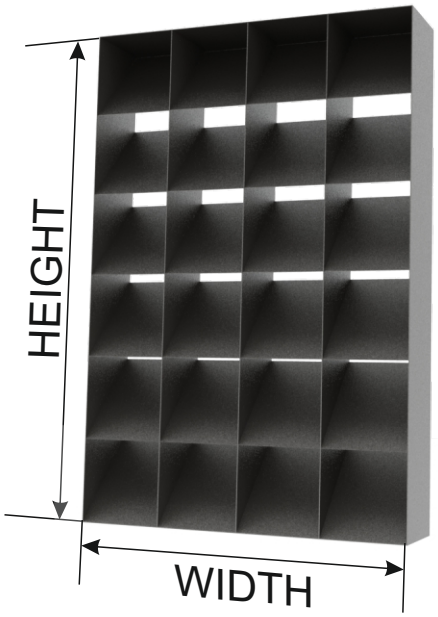
GLENSTORMS

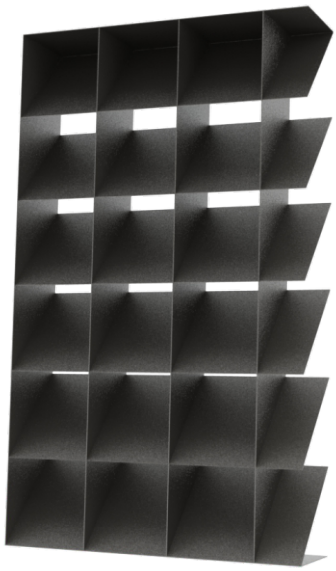
ARCHITECTURAL LOUVERS
Angular Bar Grille.

Model : G-ABG

Application and Design

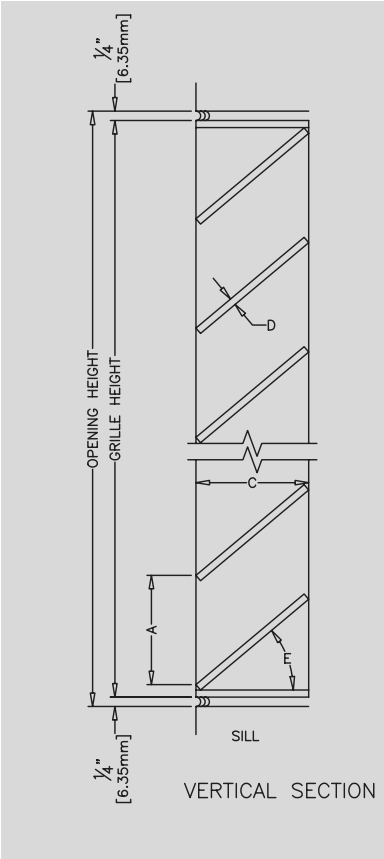
This Angular Bar Grilles are custom designed and manufactured to function as architectural accents or as entire facades to prevent sight or serve as solar screens or security barriers. The horizontal bar angle may vary from zero to 60 degrees and the horizontal and vertical bar members can be configured from minimum 2 in. (50.8 mm) to maximum 12 in. (304.8 mm) center spacing to achieve desired sight lines.





Standard Construction

Material	:	16 gauge, GI sheet
Material thickness	:	16 gauge, GI sheet
Grille Depth	:	50/100/150 mm
Perimeter Frame	:	Aluminium Bar, channel or tube
Horizontal Bar Angle	:	0 to 60°
Horizontal Bar Spacing	:	2 in. to 12 in. (50.8 to 304.8 mm)
Vertical Bar Spacing	:	2 in. to 12 in. (50.8 to 304.8 mm)
Minimum Dimension	:	8 in. (203 mm)
Maximum Dimension	:	120 in. (3048 mm)



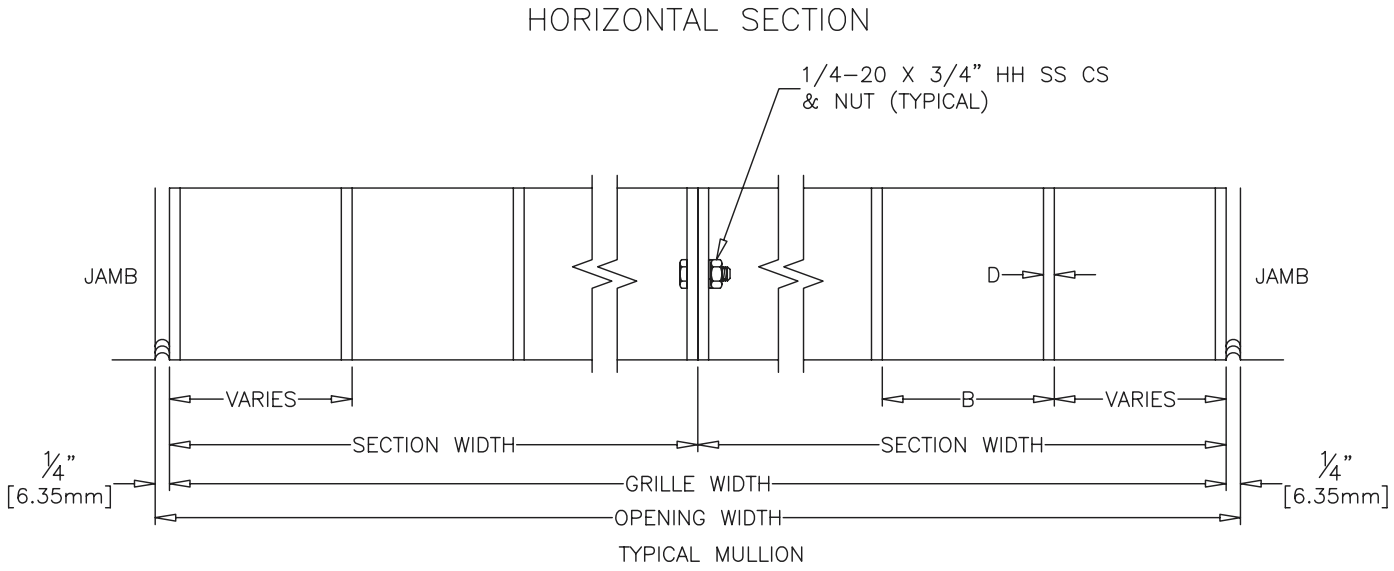
Options *(at additional cost)*

- Anchor clips
- A variety of bird and insect screens.
- Powder coated

GLENSTORMS

ARCHITECTURAL LOUVERS
Angular Bar Grille.

Model : G-ABG



A - Horizontal Bar Spacing
Specify horizontal members on minimum 2 in. (50.8 mm) to maximum 12 in. (304.8 mm) center spacing.

B - Vertical Bar Spacing
Specify vertical members on minimum 2 in. (50.8 mm) to maximum 12 in. (304.8 mm) center spacing.

C - Grille Depth
Specify minimum 2 in. (50.8 mm) to maximum 6 in. (152.4 mm) depth.

D - Aluminum Thickness
Specify minimum 0.081 in. (2.06 mm) to maximum 0.250 in. (6.35 mm) Extruded Aluminum (alloy 6063T5) wall thickness.

E - Horizontal Bar Angle
Specify minimum 0 to maximum 60 degree angle.

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GLENSTORMS

Kh. No. 28/2 Nangli Sakrawati
Najafgarh Near Kamal International
School, New Delhi 110043

+91 9911214199, 8585919596

www.glenstorms.com

info@glenstorms.com