



Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.
P.O. Box 16620
Little Rock, AR 72231
Phone 501-834-3320
Fax 501-834-5416

Date: 2/4/2025

Return Request: 2/14/2025

Project: City Of Sherwood Public Works (Maintenance Building)

Supplier: Dollar Sheet Metal

Manufacturer: Various

Submittal: Air Outlets & Inlets

Submittal Number: 23 37 00-01

Drawing # and Installation: Mechanical Drawings

ARCHITECT

Cromwell
1300 East 6th Street
Little Rock, AR 72202
501-372-2900

ENGINEER

Cromwell
1300 East 6th Street
Little Rock, AR 72202
501-372-2900

GENERAL CONTRACTOR

Baldwin & Shell
1000 W. Capitol Ave.
Little Rock, AR 72201
501-374-8677

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc.
9924 Landers Rd.
N. Little Rock, AR 72117
501-834-3320

Notes:

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CSUSA PROJECT NO.

24-6084

sean@comfortar.com

9924 Landers Rd.
No. Little Rock, AR 72117



Grilles/Registers/Diffusers Submittals

Job Name: CITY OF SHERWOOD - PUBLIC WORKS
Date Printed: 12/10/2024
Spec Section: 15 - HVAC

Contact: 7631 Northshore Place
N. Little Rock, AR 72118



All-In-One
Detailed Submittal Schedule
Grilles/Registers/Diffusers

#	Qty	Model	Tag	Building	Unit Sz.	Inlet Sz.	Border	Face Sz.	Finish	NC	Accessories
13	7	SR		MAIN	8			22, 22	MILL	N/A	
14	3	SR		MAIN	10			22, 22	MILL	N/A	
15	2	SR		MAIN	12			22, 22	MILL	N/A	
11	6	ASPD	A10	MAIN	10	10	31	24, 24	B12	N/A	
31 - 15/16" T-Bar Lay-In or Surface Mount Application B12 - Standard White											
9	16	ASPD	A6	MAIN	6	6	31	24, 24	B12	N/A	
31 - 15/16" T-Bar Lay-In or Surface Mount Application B12 - Standard White											
10	11	ASPD	A8	MAIN	8	8	31	24, 24	B12	N/A	
31 - 15/16" T-Bar Lay-In or Surface Mount Application B12 - Standard White											
12	12	80	I2	MAIN	22.000, 22.000		F		B12	N/A	LI
F - 1 1/4" (32) Flat Frame B12 - Standard White LI - T-Bar Lay-In											

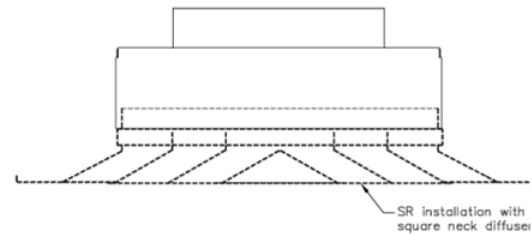
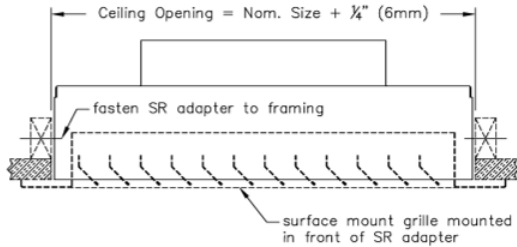
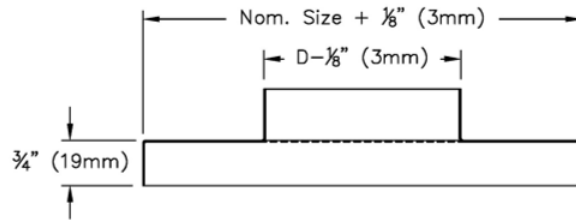
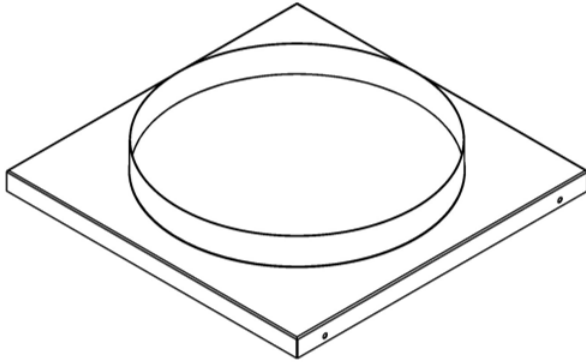


Performance Notes

Date Printed: 12/10/2024

1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets".
2. Throw data is based on the temperature differential (Dt), in degrees Fahrenheit (°F), between supply air temperature and room temperature.
3. Throw values, in feet (ft), are provided at terminal air velocities of 150 fpm, 100 fpm, and 50 fpm for supply applications.
4. The NC, sound pressure level, is based on a room absorption of 10dB re 10^{-12} Watts in each octave band.
5. Blanks (--) indicate an NC level below 15.
6. Air flow is in cubic feet per minute (cfm).
7. Static pressure (Ps), velocity pressure (Pv), and total pressure (Pt) are in inches of water (in. w.g.).

SR Square To Round Adapter



Notes:

- Fits square neck diffusers including SMD, SMDA, SMX, SMCD, AMD, AMDA, AMX, AMDE and AMCD
- May be installed with grilles in drywall ceiling by fastening to ceiling and framing and installing grille in front
- Factory tolerance $\pm 1/32$ "

Construction:

- Standard inlet neck

Material:

- Coated Steel

Finish:

- Mill finish



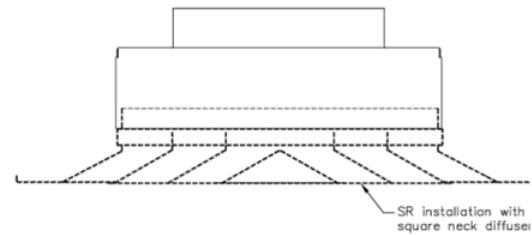
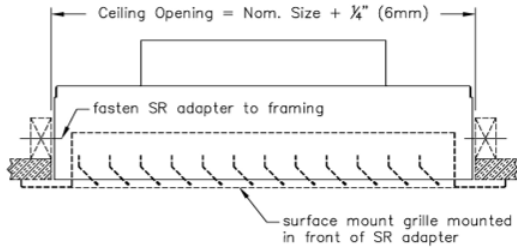
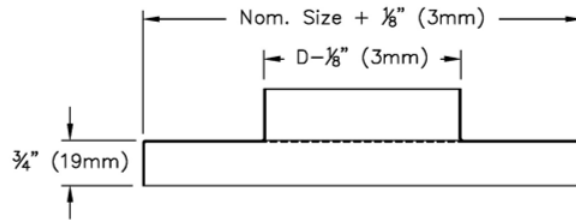
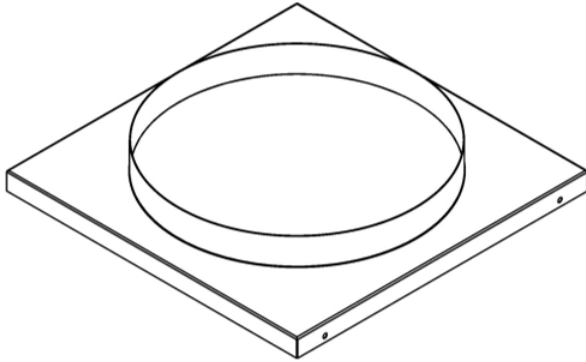
Scan for link to additional product information

PROJECT: CITY OF SHERWOOD - PUBLIC WORKS
ENGINEER:
DESCRIPTION: Square To Round Adapter
 SR-1-1//IN/22/22/12//SHORT/STL/MILL

SUBMITTAL NO: 275210-0
CUSTOMER:

SUBMITTAL DATE: 12/10/2024

SR Square To Round Adapter



Notes:

- Fits square neck diffusers including SMD, SMDA, SMX, SMCD, AMD, AMDA, AMX, AMDE and AMCD
- May be installed with grilles in drywall ceiling by fastening to ceiling and framing and installing grille in front
- Factory tolerance $\pm 1/32$ "

Construction:

- Standard inlet neck

Material:

- Coated Steel

Finish:

- Mill finish



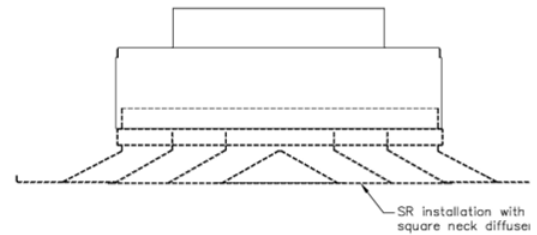
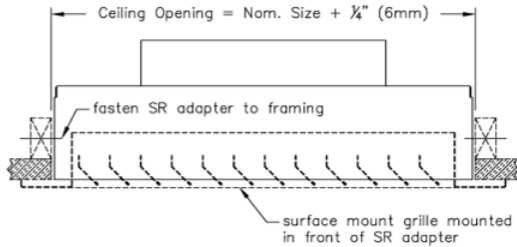
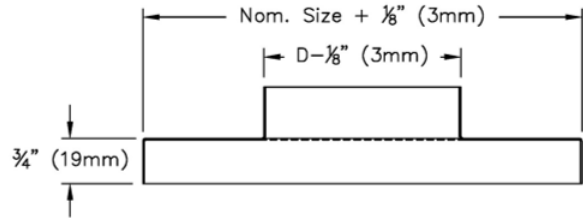
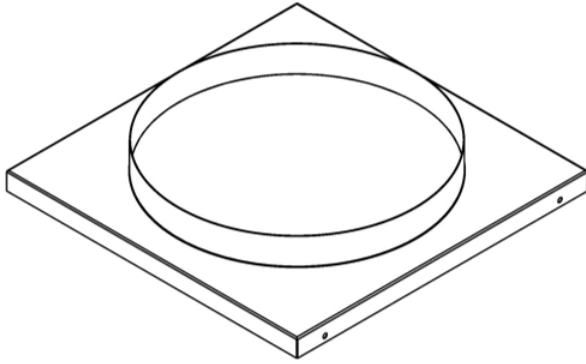
Scan for link to additional product information

PROJECT: CITY OF SHERWOOD - PUBLIC WORKS
ENGINEER:
DESCRIPTION: Square To Round Adapter
 SR-1-1//IN/22/22/10//SHORT/STL/MILL

SUBMITTAL NO: 275210-0
CUSTOMER:

SUBMITTAL DATE: 12/10/2024

SR Square To Round Adapter



Notes:

- Fits square neck diffusers including SMD, SMDA, SMX, SMCD, AMD, AMDA, AMX, AMDE and AMCD
- May be installed with grilles in drywall ceiling by fastening to ceiling and framing and installing grille in front
- Factory tolerance $\pm 1/32$ "

Construction:

- Standard inlet neck

Material:

- Coated Steel

Finish:

- Mill finish



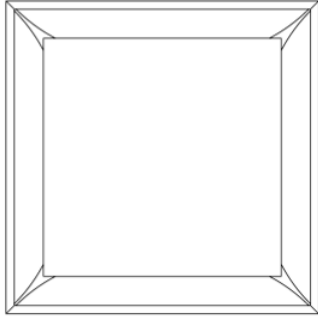
Scan for link to additional product information

PROJECT: CITY OF SHERWOOD - PUBLIC WORKS
ENGINEER:
DESCRIPTION: Square To Round Adapter
 SR-1-1//IN/22/22/8//SHORT/STL/MILL

SUBMITTAL NO: 275210-0
CUSTOMER:

SUBMITTAL DATE: 12/10/2024

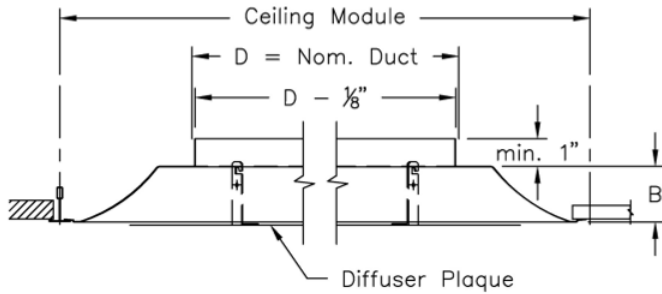
ASPD Aluminum Square Plaque Diffuser



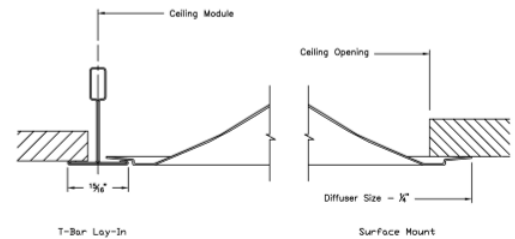
Duct Diameter: 10"
Backpan Height (B): 2 1/2"
Ceiling Module: 24" x 24"
Ceiling Opening: 22" x 22"
(Surface Mount)

Border: 31

15/16" T-Bar Lay-In or Surface Mount Application



Frame Detail:



Notes:

- 360° radial horizontal air pattern
- Removable face panel
- For 9/16" flat tee installation with style 31 frame, cross-tees must be firmly secured. Locking any unopposed cross tees to the main beam with clips such as Armstrong STAC is recommended. Corner clips from ceiling suppliers may also be used, or order 916 clip in GRD-PARTS (confirming fit with ceiling on site is recommended).
- Integral hanger loops
- Factory tolerance +/- 1/32"



Scan for link to additional product information

Material:

- Diffuser: Aluminum

Finish:

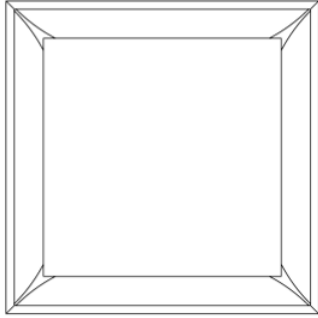
- B12 - Standard White

PROJECT: CITY OF SHERWOOD - PUBLIC WORKS
ENGINEER:
DESCRIPTION: Aluminum Square Plaque Diffuser
ASPD-1-2//10/24/24/31/////B12

SUBMITTAL NO: 258503-F
CUSTOMER:

SUBMITTAL DATE: 12/10/2024

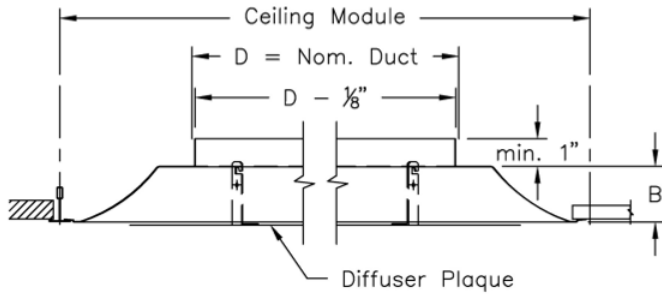
ASPD Aluminum Square Plaque Diffuser



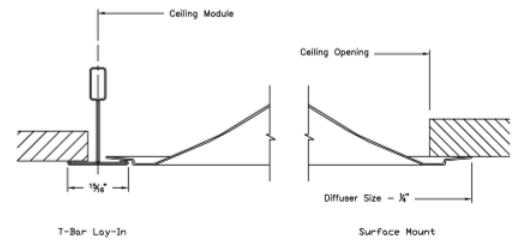
Duct Diameter: 6"
Backpan Height (B): 2 1/2"
Ceiling Module: 24" x 24"
Ceiling Opening: 22" x 22"
(Surface Mount)

Border: 31

15/16" T-Bar Lay-In or Surface Mount Application



Frame Detail:



Notes:

- 360° radial horizontal air pattern
- Removable face panel
- For 9/16" flat tee installation with style 31 frame, cross-tees must be firmly secured. Locking any unopposed cross tees to the main beam with clips such as Armstrong STAC is recommended. Corner clips from ceiling suppliers may also be used, or order 916 clip in GRD-PARTS (confirming fit with ceiling on site is recommended).
- Integral hanger loops
- Factory tolerance +/- 1/32"



Scan for link to additional product information

Material:

- Diffuser: Aluminum

Finish:

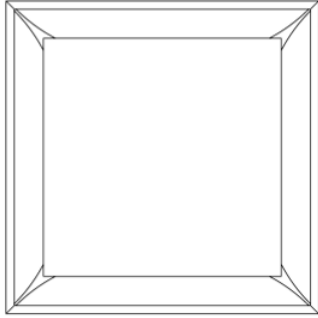
- B12 - Standard White

PROJECT: CITY OF SHERWOOD - PUBLIC WORKS
ENGINEER:
DESCRIPTION: Aluminum Square Plaque Diffuser
ASPD-1-2/11/6/24/24/31/1111/B12

SUBMITTAL NO: 258503-F
CUSTOMER:

SUBMITTAL DATE: 12/10/2024

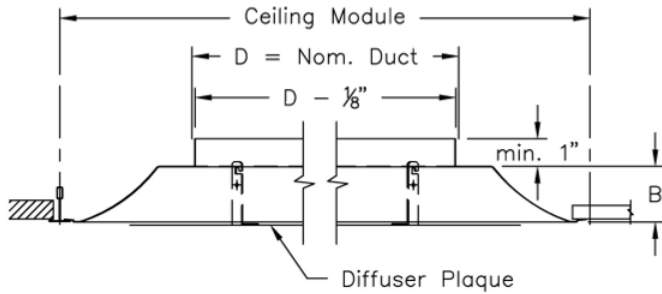
ASPD Aluminum Square Plaque Diffuser



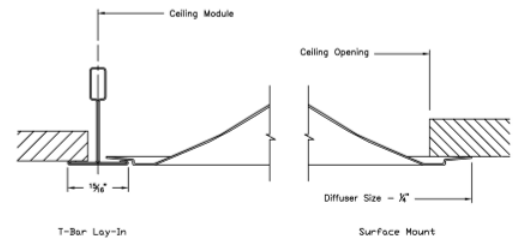
Duct Diameter: 8"
Backpan Height (B): 2 1/2"
Ceiling Module: 24" x 24"
Ceiling Opening: 22" x 22"
(Surface Mount)

Border: 31

15/16" T-Bar Lay-In or Surface Mount Application



Frame Detail:



Notes:

- 360° radial horizontal air pattern
- Removable face panel
- For 9/16" flat tee installation with style 31 frame, cross-tees must be firmly secured. Locking any unopposed cross tees to the main beam with clips such as Armstrong STAC is recommended. Corner clips from ceiling suppliers may also be used, or order 916 clip in GRD-PARTS (confirming fit with ceiling on site is recommended).
- Integral hanger loops
- Factory tolerance +/- 1/32"



Scan for link to additional product information

Material:

- Diffuser: Aluminum

Finish:

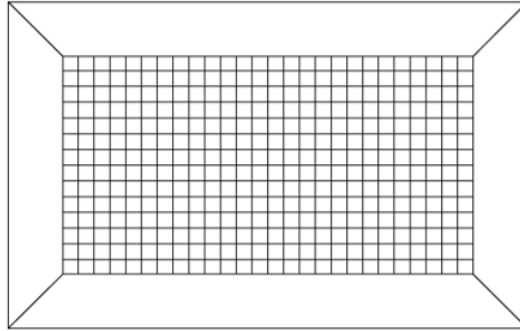
- B12 - Standard White

PROJECT: CITY OF SHERWOOD - PUBLIC WORKS
ENGINEER:
DESCRIPTION: Aluminum Square Plaque Diffuser
ASPD-1-2//1/8/24/24/31/////B12

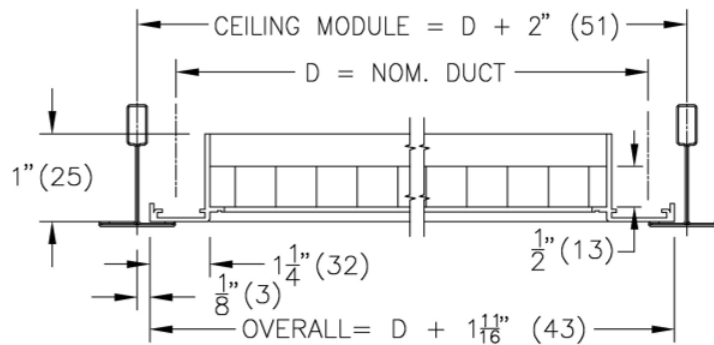
SUBMITTAL NO: 258503-F
CUSTOMER:

SUBMITTAL DATE: 12/10/2024

80 Egg Crate Grille – 1/2" x 1/2" x 1/2" Core



Border: F
1 1/4" (32) Flat Frame



Material:

- Grille - Aluminum construction

Finish:

- B12 - Standard White

Notes:

- 1/2" x 1/2" x 1/2" aluminum grid core
- Minimum duct size = 6" x 4" (152mm x 102mm)
- Maximum duct size without mullion = 48" x 24" (1219mm x 610mm)
- Maximum duct size with mullion = 96" x 48" (2438mm x 1219mm)
- Units with mullion supplied in one-piece frame construction
- Units over 96" x 48" (2438mm x 1219mm) supplied in sections c/w Duct Mounting Channel
- Factory tolerance $\pm 1/32"$ (1mm)

PROJECT: CITY OF SHERWOOD - PUBLIC WORKS
ENGINEER:
DESCRIPTION: Egg Crate Grille, 1/2" X 1/2" X 1/2"
80//I/22.000/22.000//LI/F/////24/24//O/////B12

SUBMITTAL NO: 259683-E
CUSTOMER:

SUBMITTAL DATE: 12/10/2024

EHH-601 6 in. Frame

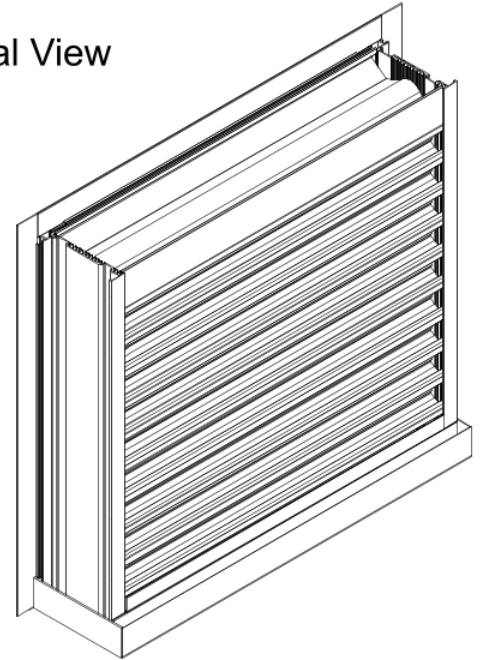
APPLICATION & DESIGN

EHH-601 is a Wind-Driven Rain louver designed to protect air intake and exhaust openings in building exterior walls that are sensitive to direct water penetration. Design incorporates a drainable head member and horizontal rain resistant blades to provide maximum resistance to wind driven rain in even the most extreme weather conditions. The EHH-601 is an extremely efficient louver with AMCA licensed performance data enabling designers to select and apply with confidence.

PRODUCT DETAILS

Frame: 6 in. x 0.081 in. Frame Thickness
Frame Type: Flanged, 1.5 in., Exterior
Blades: 0.081 in. Fixed Blade Thickness
Material: Aluminum
Sizing: 1/4 Inch Under
Shape: Rectangular
Construction: Mechanically Fastened

Internal View



OPTIONS & ACCESSORIES

Finish: Primer
Bird Screen: 0.75 in. x 0.05 in., Flat Expanded Aluminum, Internal, Mill Finish
Insect Screen: Aluminum, Internal, Mill Finish
Sills: Aluminum, With End Dams
Union Label: No Preference
Warranty: 1 year Standard Product Warranty

** Overall louver width undersized an additional 0.25 in. to account for the sill pan.*

SUMMARY

ID #	TAG	QTY.	W (in.)	H (in.)	EXT. SILL DIM. (in.)	FREE AREA (ft2)	FREE AREA (%)	SECT. WIDE	SECT. HIGH	SHIP SECT.
3-1		1	20	16	6.75	0.73	33.7	1	1	1

Total Louver Qty: 1 **Total Weight (lb):** 16 **Louver Area (ft2):** 2
Total Ship Sect.: 1

****Weight shown is an estimate only based on the default base product configuration without options or accessories.**

Larger openings may require field assembly of multiple louver panels to make up the overall opening size. Individual louver panels are designed to withstand windloads up to a maximum of 25 PSF (size and configuration dependent). Design, materials and installation of structural reinforcement required to adequately support large sections or multiple section assemblies within a large opening are not provided by Greenheck. Options and accessories including, but not limited to, screens, filter racks, louver doors, and blankoff panels are not subject to structural analysis unless indicated otherwise by Greenheck. Unless specifically indicated, the following are NOT included in the quote provided: structural steel, installation hardware (anchors, angle clips, continuous angles, shims, fasteners, inserts, backer rod and sealant), field measuring and/or installation, miscellaneous flashing, trim or enclosures, blank off panels, mullion covers or mullion hardware, hinged frames or removable subframes, custom bird/insect screen, 3-coat, metallic and/or exotic paint finishes, bituminous paints for unlike metals, any applicable taxes, stamped and sealed structural calculations seismic calculations or job specific engineered submittal drawings.

ESD-635 6 in. Frame, 35 deg Blade

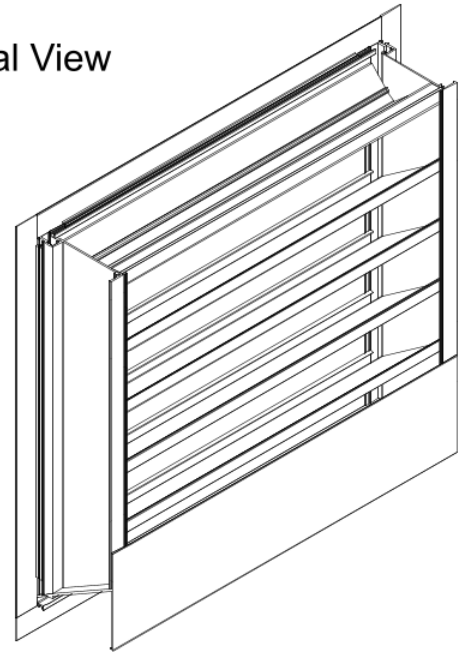
APPLICATION & DESIGN

ESD-635 is a weather louver designed to protect air intake and exhaust openings in building exterior walls. Design incorporates drain gutters in the head member and horizontal blades to channel water to the jambs where water is further channeled through vertical downspouts and out at the sloped sill. The ESD-635 is an extremely efficient louver with AMCA LICENSED PERFORMANCE DATA enabling designers to select and apply with confidence.

PRODUCT DETAILS

Frame: 6 in. x 0.081 in. Frame Thickness
Frame Type: Flanged, 1.5 in., Exterior
Blades: 0.081 in. Fixed Blade Thickness
Material: Aluminum
Sizing: 1/4 Inch Under
Shape: Rectangular
Construction: Mechanically Fastened

Internal View



OPTIONS & ACCESSORIES

Finish: Primer
Bird Screen: 0.75 in. x 0.05 in., Flat Expanded Aluminum, Internal, Mill Finish
Insect Screen: Aluminum, Internal, Mill Finish
Union Label: No Preference
Warranty: 1 year Standard Product Warranty

SUMMARY

ID #	TAG	QTY.	W (in.)	H (in.)	FREE AREA (ft2)	FREE AREA (%)	SECT. WIDE	SECT. HIGH	SHIP SECT.
4-1	L1	1	56	40	8.85	57.5	1	1	1
4-2	L2	1	56	36	7.74	55.9	1	1	1
4-3	L4	1	20	20	1.11	41	1	1	1
4-4	L5	1	14	14	0.35	26.7	1	1	1
4-5	L6	1	30	28	2.92	50.9	1	1	1

Total Louver Qty: 5 **Total Weight (lb):** 154 **Louver Area (ft2):** 40
Total Ship Sect.: 5

**Weight shown is an estimate only based on the default base product configuration without options or accessories.

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Louvers Prime Coat

Louvers and architectural products shall be cleaned, pre-treated and receive a prime coat finish suitable for field painting. Products must be thoroughly cleaned and prepared prior to field application of epoxy, urethane or other heavy-duty coatings. Greenheck does not recommend prime coat or field painting of louvers and architectural products. As such, Greenheck does not provide formal field cleaning, preparation or painting instructions or recommendations.