



*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 (Administration Building)

**Supplier:** Dollar Sheet Metal

**Manufacturer:** Price

**Submittal:** Air Outlets & Inlets

**Submittal Number:** 23 37 00-01

**Drawing # and Installation:** Mechanical Drawings

**ARCHITECT**

Cromwell  
1300 East 6<sup>th</sup> Street  
Little Rock, AR 72202  
501-372-2900

**ENGINEER**

Cromwell  
1300 East 6<sup>th</sup> 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](mailto: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
16	3	SR		ADMIN	16			22, 22	MILL	N/A	
17	6	SR		ADMIN	8			10, 10	MILL	N/A	
3	10	ASPD	A10	ADMIN	10	10	31	24, 24	B12	N/A	
31 - 15/16" T-Bar Lay-In or Surface Mount Application   B12 - Standard White											
4	4	ASPD	A12	ADMIN	12	12	31	24, 24	B12	N/A	
31 - 15/16" T-Bar Lay-In or Surface Mount Application   B12 - Standard White											
1	5	ASPD	A6	ADMIN	6	6	31	24, 24	B12	N/A	
31 - 15/16" T-Bar Lay-In or Surface Mount Application   B12 - Standard White											
2	11	ASPD	A8	ADMIN	8	8	31	24, 24	B12	N/A	
31 - 15/16" T-Bar Lay-In or Surface Mount Application   B12 - Standard White											
5	7	ASPD	B6	ADMIN	6	6	31	12, 12	B12	N/A	
31 - 15/16" T-Bar Lay-In or Surface Mount Application   B12 - Standard White											
7	6	80	H	ADMIN	10.000, 10.000		F		B12	N/A	LI
F - 1 1/4" (32) Flat Frame   B12 - Standard White   LI - T-Bar Lay-In											
6	17	80	I3	ADMIN	22.000, 22.000		F		B12	N/A	LI
F - 1 1/4" (32) Flat Frame   B12 - Standard White   LI - T-Bar Lay-In											

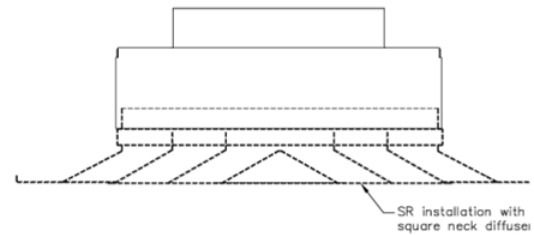
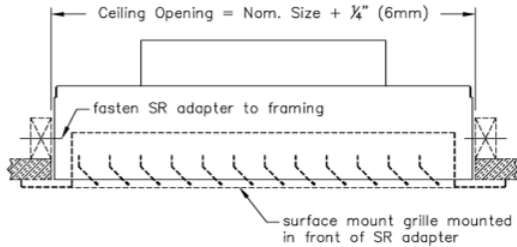
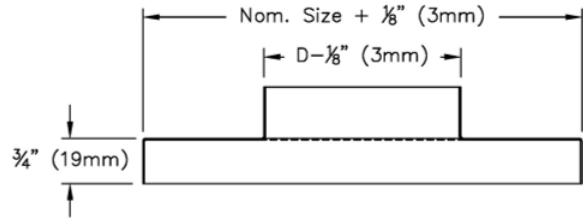
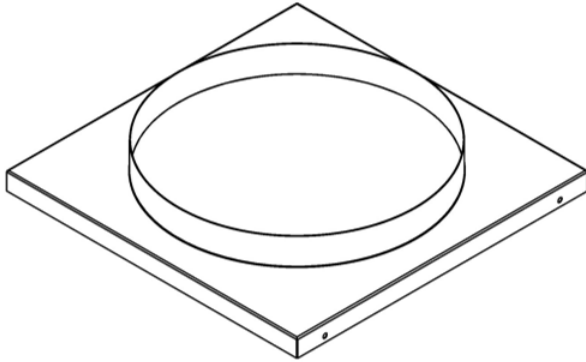


## Performance Notes

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



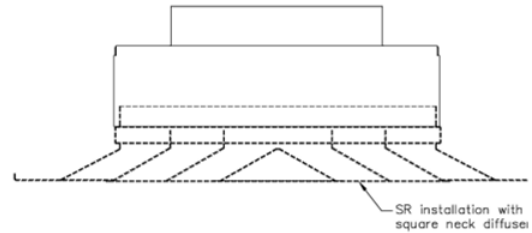
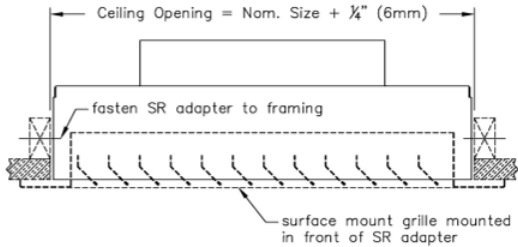
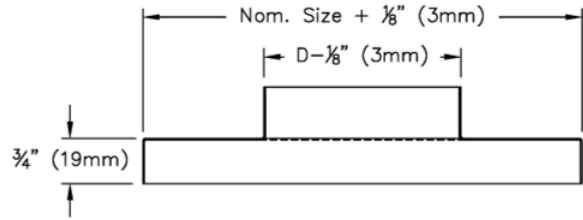
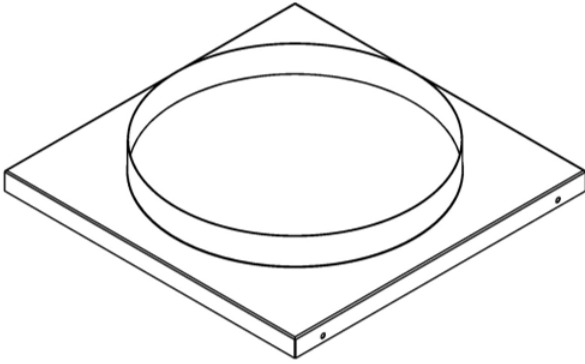
Scan for link to additional product information

**PROJECT:** CITY OF SHERWOOD - PUBLIC WORKS  
**ENGINEER:**  
**DESCRIPTION:** Square To Round Adapter  
 SR-1-1//IN/22/22/16//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



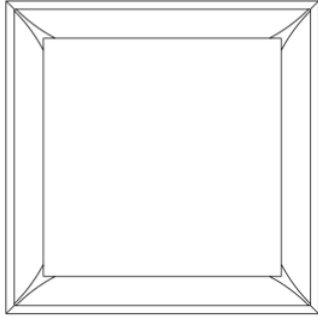
Scan for link to additional product information

**PROJECT:** CITY OF SHERWOOD - PUBLIC WORKS  
**ENGINEER:**  
**DESCRIPTION:** Square To Round Adapter  
 SR-1-1//IN/10/10/8//SHORT/STL/MILL

**SUBMITTAL NO:** 275210-0  
**CUSTOMER:**

**SUBMITTAL DATE:** 12/10/2024

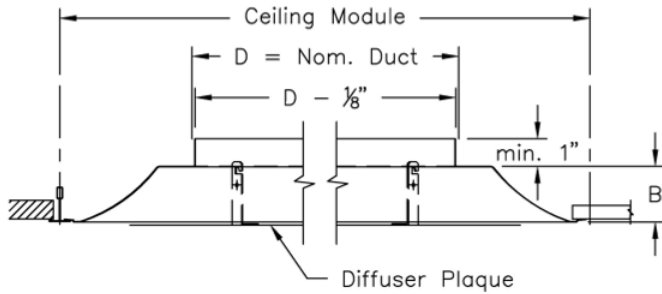
**ASPD Aluminum Square Plaque Diffuser**



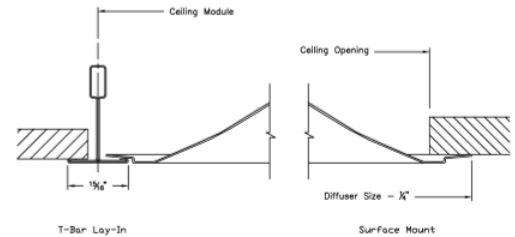
**Duct Diameter:** 10"  
**Backpan Height (B):** 2 1/2"  
**Ceiling Module:** 24" x 24"  
**Ceiling Opening:** 22" x 22"  
**(Surface Mount)**

**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:**

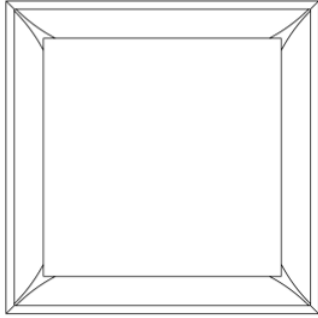
- B12 - Standard White

**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

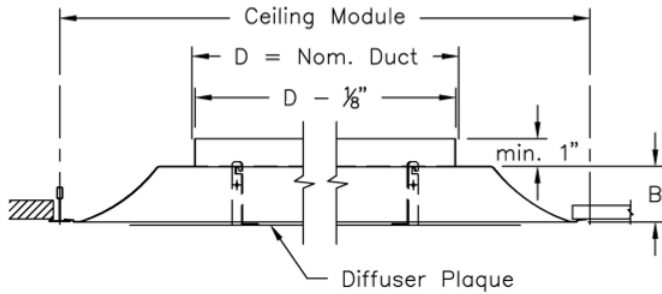
**ASPD Aluminum Square Plaque Diffuser**



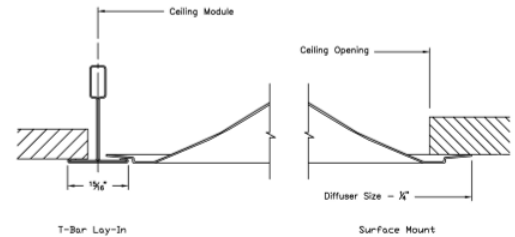
**Duct Diameter:** 12"  
**Backpan Height (B):** 2 1/2"  
**Ceiling Module:** 24" x 24"  
**Ceiling Opening:** 22" x 22"  
**(Surface Mount)**

**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:**

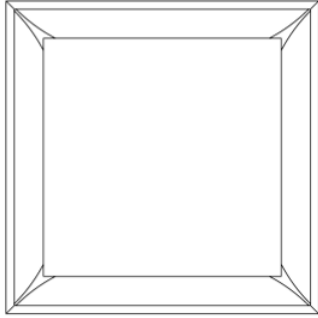
- B12 - Standard White

**PROJECT:** CITY OF SHERWOOD - PUBLIC WORKS  
**ENGINEER:**  
**DESCRIPTION:** Aluminum Square Plaque Diffuser  
ASPD-1-2//12/24/24/31/////B12

**SUBMITTAL NO:** 258503-F  
**CUSTOMER:**

**SUBMITTAL DATE:** 12/10/2024

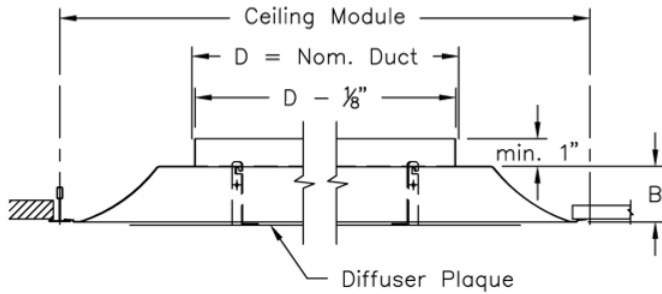
**ASPD Aluminum Square Plaque Diffuser**



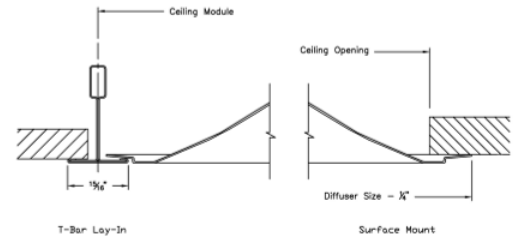
**Duct Diameter:** 6"  
**Backpan Height (B):** 2 1/2"  
**Ceiling Module:** 24" x 24"  
**Ceiling Opening:** 22" x 22"  
**(Surface Mount)**

**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:**

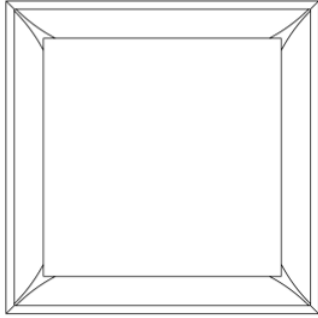
- B12 - Standard White

**PROJECT:** CITY OF SHERWOOD - PUBLIC WORKS  
**ENGINEER:**  
**DESCRIPTION:** Aluminum Square Plaque Diffuser  
ASPD-1-2/11/6/24/24/31/11111/B12

**SUBMITTAL NO:** 258503-F  
**CUSTOMER:**

**SUBMITTAL DATE:** 12/10/2024

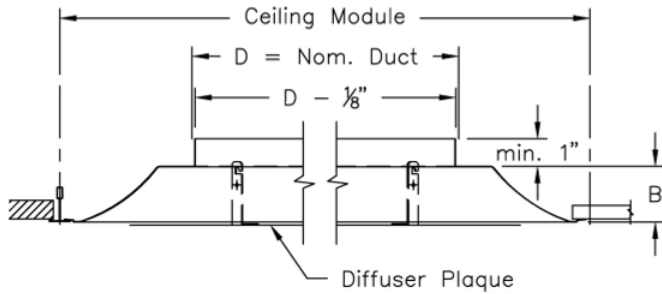
**ASPD Aluminum Square Plaque Diffuser**



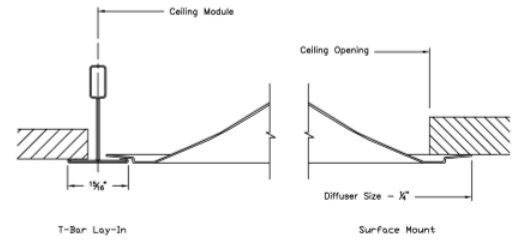
**Duct Diameter:** 8"  
**Backpan Height (B):** 2 1/2"  
**Ceiling Module:** 24" x 24"  
**Ceiling Opening:** 22" x 22"  
**(Surface Mount)**

**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:**

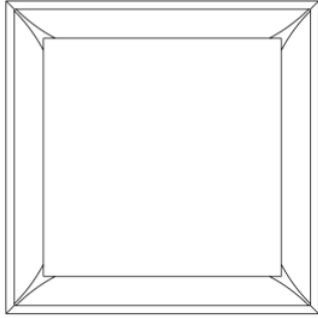
- B12 - Standard White

**PROJECT:** CITY OF SHERWOOD - PUBLIC WORKS  
**ENGINEER:**  
**DESCRIPTION:** Aluminum Square Plaque Diffuser  
ASPD-1-2/11/8/24/24/31/1111/B12

**SUBMITTAL NO:** 258503-F  
**CUSTOMER:**

**SUBMITTAL DATE:** 12/10/2024

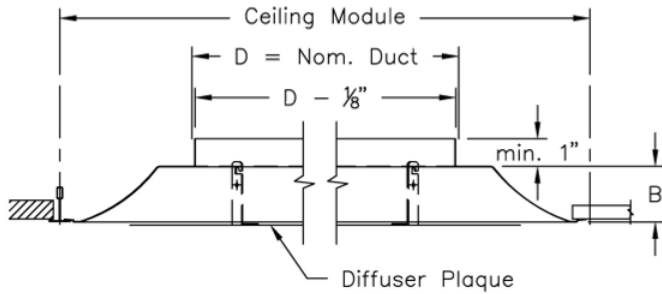
**ASPD Aluminum Square Plaque Diffuser**



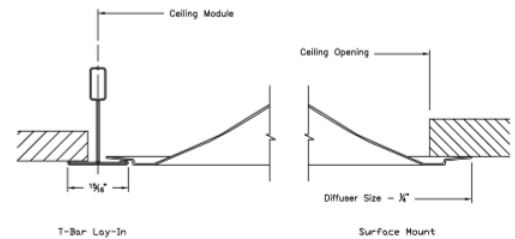
**Duct Diameter:** 6"  
**Backpan Height (B):** 1 1/8"  
**Ceiling Module:** 12" x 12"  
**Ceiling Opening:** 10 1/2" x 10 1/2"  
**(Surface Mount)**

**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:**

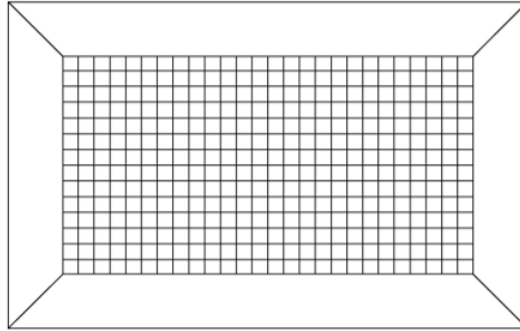
- B12 - Standard White

**PROJECT:** CITY OF SHERWOOD - PUBLIC WORKS  
**ENGINEER:**  
**DESCRIPTION:** Aluminum Square Plaque Diffuser  
ASPD-1-2//1/6/12/12/31/////B12

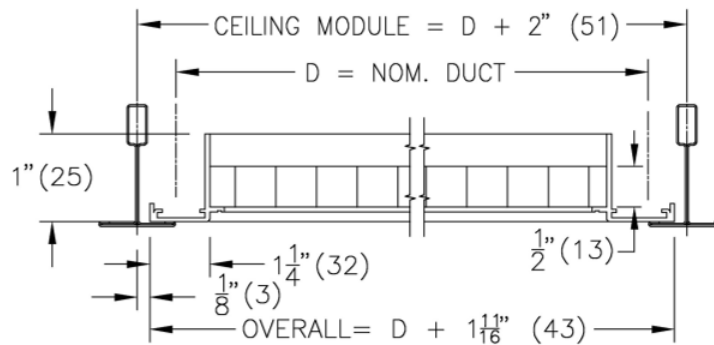
**SUBMITTAL NO:** 258503-F  
**CUSTOMER:**

**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/10.000,22.000/10.000,22.000//LI/F/////12,24/12,24//O/////B12

**SUBMITTAL NO:** 259683-E

**CUSTOMER:**

**SUBMITTAL DATE:** 12/10/2024

## ESD-635 6 in. Frame, 35 deg Blade

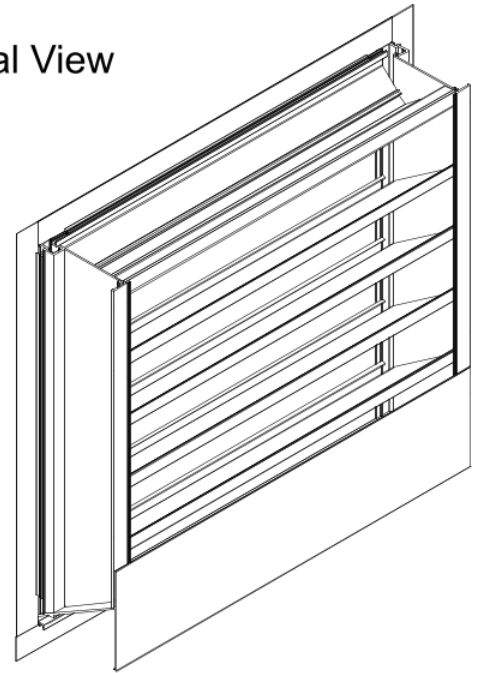
### APPLICATION & DESIGN

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
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.
1-1		1	20	20	1.11	41	1	1	1

Total Louver Qty: 1      Total Weight (lb): 11      Louver Area (ft2): 3

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.

## EHH-601 6 in. Frame

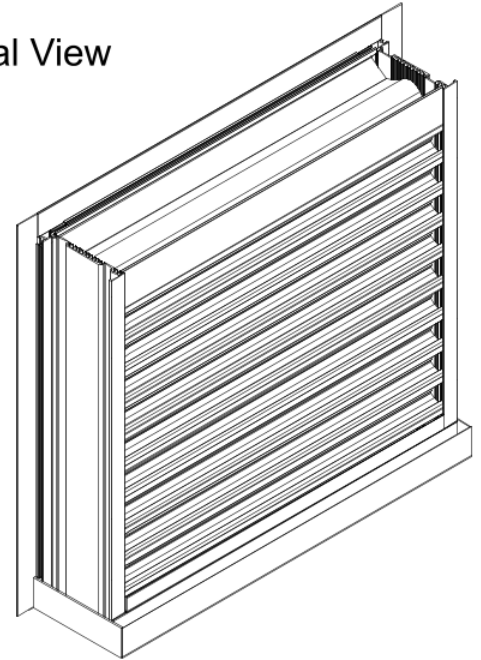
### APPLICATION & DESIGN

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, Match Louver 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.
2-1		1	56	12	6.75	1.31	28.7	1	1	1

**Total Louver Qty:** 1      **Total Weight (lb):** 35      **Louver Area (ft2):** 5  
**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.

## **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.