



54 Audia Court, Unit 2
Concord, ON L4K 3N5
(905)-738-1400

Submittal 25-009-001

PROJECT NAME

SDM 9688 - Kleinburg (Vaughan) - Interior Fit-out 25-009

PROJECT ADDRESS DATE SUBMITTED

Klienburg Vaughan Apr 21, 2025

TO

Nick Correia

COMPANY

FORTIS GROUP

EMAIL

nick.correia@fortisgroup.ca

ADDRESS

260 Edgeley Blvd, Suite 16 Vaughan, ON L4K 3YA

FROM

INZAMAN KHAN

COMPANY

Consult Mechanical Inc.

EMAIL

inzaman@consultmechanical.com

ADDRESS

54 Audia Court, Unit 2
Concord, ON L4K 3N5

Title

HVAC - Shops

Description

Please refer below

Package Items

SPEC	SUBSECTION	ITEM	TYPE
------	------------	------	------



Grilles, Registers, Diffusers Submittals

Job Name: SHOPPERS #9688 KLEINBURG 6520
MAJOR MACKENZIE

Project Number: TS2500634

Job Location:

Customer:

Date Printed: 2025-04-10

Spec Section: 15 - HVAC

Contact: Amanda Stennett
571 Chrislea Rd., Unit 3, Woodbridge ON,
L4L 8A2

Phone: 6479930711
Email: astennett@ehpricesales.com

Notes:



Price Select
Grilles, Registers, Diffusers

Job Name: SHOPPERS #9688 KLEINBURG 6520 MAJOR
MACKENZIE

Job Name

SHOPPERS #9688 KLEINBURG 6520
MAJOR MACKENZIE

Contractor

Entered By

Amanda Stennett

Engineer

Rep Job No

TS2500634

Sales Person

Amanda Stennett

Location

Units

Imperial

Customer

Model	Tag	Qty	Unit Size	Inlet Size	Border	Configuration	Air Pattern	Face Size	Damper	Accessories
80	E-1	1	10.000 x 6.000		F				VCS3	
80	E-2	4	11.000 x 11.000		NF			12 x 12		
80	E-3	2	24.000 x 12.000		F				VCS3	
80	E-4	2	23.000 x 23.000		NF			24 x 24		
80	R-1	3	7.000 x 7.000		NF			8 x 8		
80	R-1	4	9.000 x 5.000		NF			10 x 6		
80	R-2	4	24.000 x 6.000		CORE			24 x 6		
80	R-3	1	23.000 x 11.000		NF			24 x 12		
80	R-3	15	24.000 x 12.000		CORE			24 x 12		
80	R-4	2	24.000 x 24.000		CORE			24 x 24		
530	R-5	1	26.000 x 18.000		F	L				
90	R-6	1	28.000 x 16.000			L			VCS3	
CF	R-7	1	264.00		CMF		DPC			No-Acc
SPD	S-1	6	24 x 24	6	31			24 x 24		
SPD	S-2	4	24 x 24	8	31			24 x 24		
SPD	S-3	27	24 x 24	10	31			24 x 24		
SPD	S-3	2	24 x 24	10	31			24 x 24		
SPF	S-3	2	24 x 24							
SPD	S-4	9	24 x 24	12	31			24 x 24		
SPD	S-5	2	24 x 24	10	31			24 x 24		
620	S-6	5	16.000 x 8.000		F	S			VCS3	



Price Select
Grilles, Registers, Diffusers

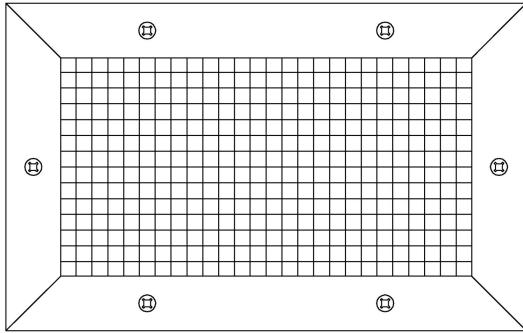
Job Name: SHOPPERS #9688 KLEINBURG 6520 MAJOR
MACKENZIE

Model	Tag	Qty	Unit Size	Inlet Size	Border	Configuration	Air Pattern	Face Size	Damper	Accessories
LBPH	S-7	2	48.000 x 2.500		1000				3	
HCD	S-8	1	72.000 x 12.000		F		1B		VCS5	VCS5

Performance Notes

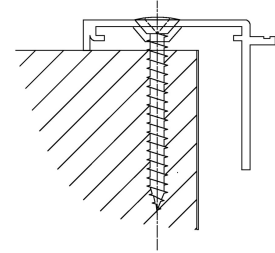
- 1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets".
- 2. The NC, sound pressure level, is based on a room absorption of 10dB re 10⁻¹² Watts in each octave band.
- 3. Blanks (--) indicate an NC level below 15.
- 4. Throw data is based on the temperature differential (Dt), in degrees Fahrenheit (°F), between supply air temperature and room temperature.
- 5. Throw values, in feet (ft), are provided at terminal air velocities of 150 fpm, 100 fpm, and 50 fpm for supply applications.
- 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.).

80 Egg Crate Register with Steel Damper – 1/2" x 1/2" x 1/2" Core



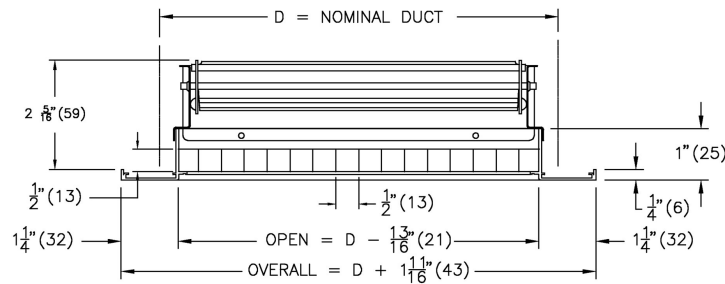
Fastening: A

Countersunk Screw Holes



Border: F

1 1/4" (32) Flat Frame



Material:

- Grille - Aluminum construction
- Damper - Steel construction

Finish:

- B12 - Standard White

Notes:

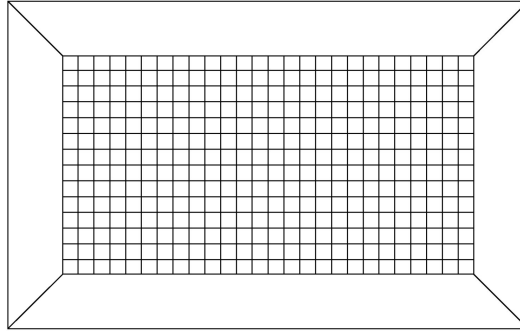
- 1/2" x 1/2" x 1/2" aluminum grid core
- Minimum duct size = 6" x 4" (152mm x 102mm)
- Maximum duct size without mullion = 48" x 24" (1219mm x 610mm)
- Maximum duct size with mullion = 96" x 48" (2438mm x 1219mm)
- Units with mullion supplied in one-piece frame construction
- Units over 96" x 48" (2438mm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

PROJECT: SHOPPERS #9688 KLEINBURG 6520 MAJOR MACKENZIE
ENGINEER:
DESCRIPTION: Egg Crate Grille, 1/2" X 1/2" X 1/2"
80//10.000,24.000/6.000,12.000//SW/F////////A////////VCS3/B12

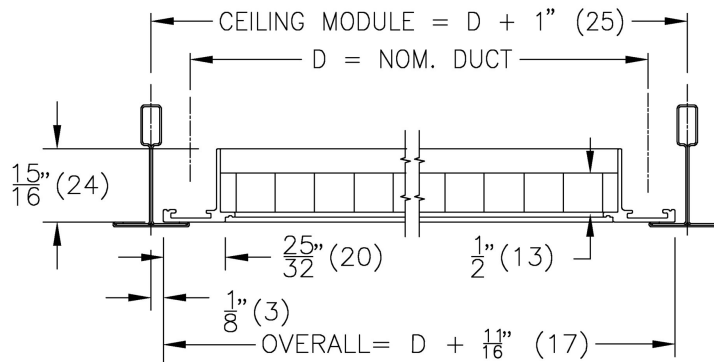
SUBMITTAL NO: 259683-E
CUSTOMER:

SUBMITTAL DATE: 4/10/2025

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



Border: NF
3/4" (19) Narrow Flat Frame



Material:

- Grille - Aluminum construction

Finish:

- B12 - Standard White

Notes:

- 1/2" x 1/2" x 1/2" aluminum grid core
- 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
- NF frame minimum duct size = 6" x 3" (152mm x 76mm)
- Factory tolerance $\pm 1/32"$ (1mm)

PROJECT: SHOPPERS #9688 KLEINBURG 6520 MAJOR MACKENZIE

ENGINEER:

DESCRIPTION: Egg Crate Grille, 1/2" X 1/2" X 1/2"

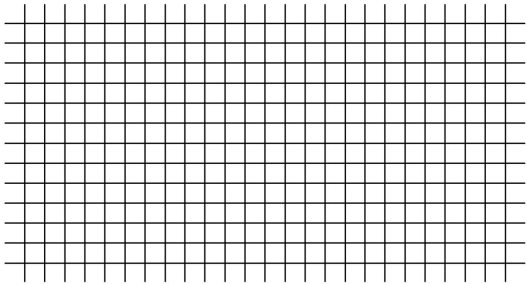
80//11.000,23.000,7.000,9.000/11.000,23.000,7.000,5.000//LI/NF/////12,24,8,10/12,24,8,6//0/////B12

CUSTOMER:

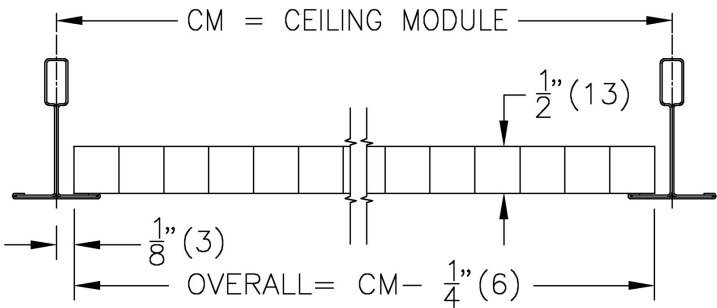
SUBMITTAL DATE: 4/10/2025

80

Egg Crate Grid Core Only – 1/2" x 1/2" x 1/2"



Border: CORE Core only



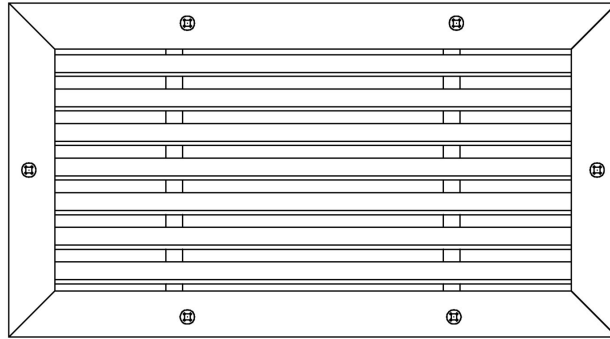
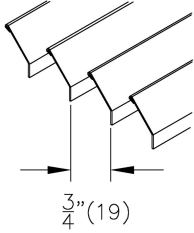
- Material:
- Grille - Aluminum construction
- Finish:
- B12 - Standard White

- Notes:
- 1/2" x 1/2" x 1/2" aluminum grid core
 - Minimum duct size = 6" x 4" (152mm x 102mm)
 - CORE units maximum duct size = 48" x 24" (1219mm x 610mm)
 - Factory tolerance ±1/32" (1mm)

530 Louvered Steel Return Grille – 3/4" Blade Spacing, 45° Single Deflection

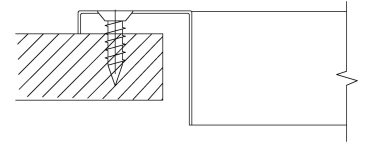
Core Style:

Single Deflection



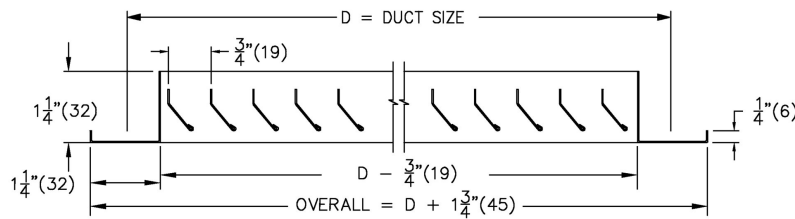
Fastening:

A: Countersunk Screwholes with Screws



Border: F

1 1/4" (32) Flat Frame



Material:

- Steel

Finish:

- B12 - Standard White

Notes:

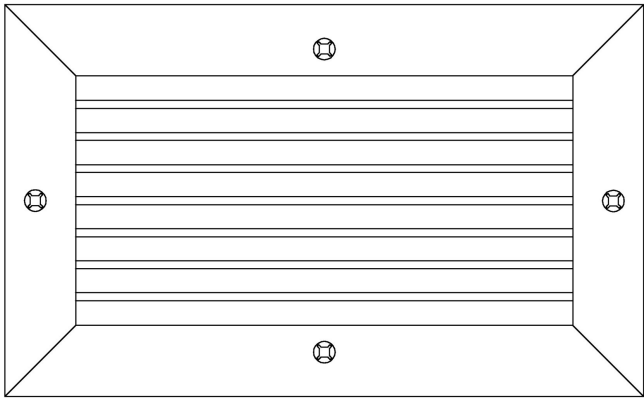
- Blades parallel to Long dimension
- 45° Deflection roll formed blades on 3/4" (19) centers
- Factory tolerance $\pm 1/32"$ (1)

PROJECT: SHOPPERS #9688 KLEINBURG 6520 MAJOR MACKENZIE
ENGINEER:
DESCRIPTION: Steel Return Grille, 45 Deg Blades, 3/4" Spacing
530//I/26.000/18.000/F/L//A//SW/B12

SUBMITTAL NO: 258306
CUSTOMER:

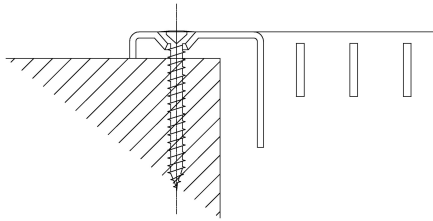
SUBMITTAL DATE: 4/10/2025

90 Steel Gymnasium Grille – 0° Deflection, 3/8" Blade Spacing

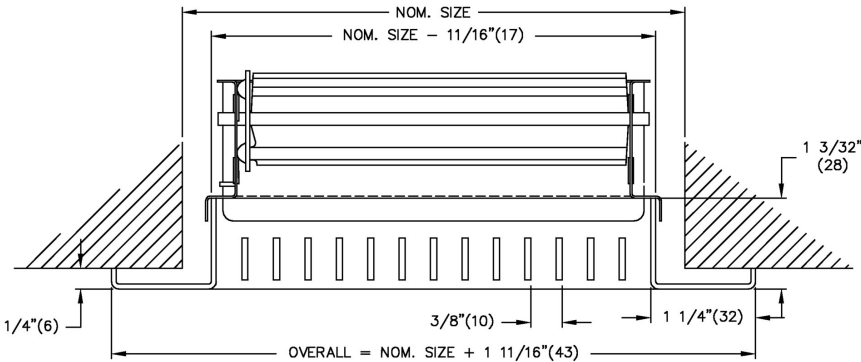


Fastening:

A: Countersunk screwholes with standard screws



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



Notes:

- Louver blades are parallel to the long dimension
- Louver blades are fixed
- 0° deflection blades on 3/8" centers
- VCS3: Steel opposed blade damper
- Factory tolerance ± 1/32" (1)

Material:

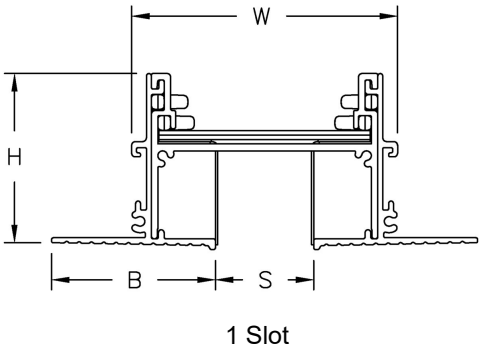
- Frame: 16 Gauge Steel
- Blades: 14 Gauge Steel
- Mullions: 20 Gauge Steel
- Mullion Pins: 1/8" (3) Steel
- Damper: Coated Steel

Finish:

- B12: Standard White

CF

Custom Flow



Slot Qty	S	B	H	W	Opening Width*
1	1"	1 11/16"	1 3/4"	2 3/4"	3 3/8"

* Opening width is outside dimension of field built plenum with hemmed edges. If no plenum is used, opening width may be additionally reduced by up to 1/4" (6mm).

Style:JS - Jet Slot

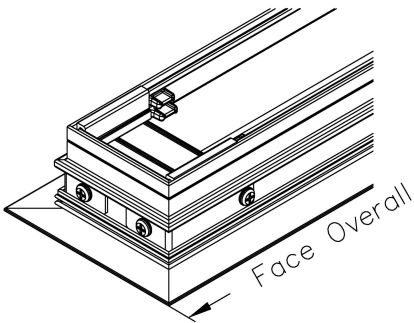
Ordered Size:264.00"

Frame Style:CMF - Concealed Mud Frame

Endcaps

XX

Mitered Endcaps

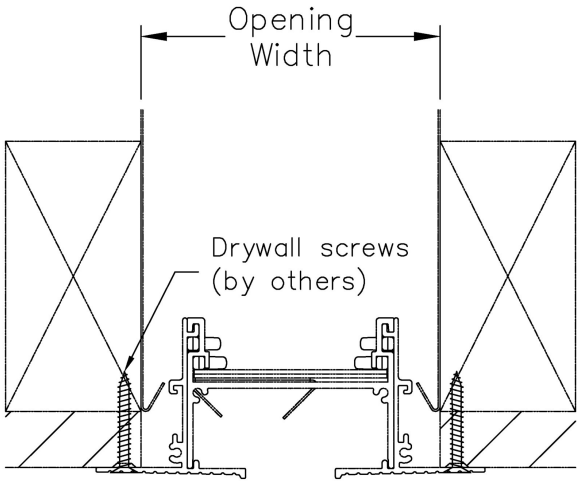


End Condition	Face Overall Length
XX	Ordered + 1 1/16"

Mounting:

A

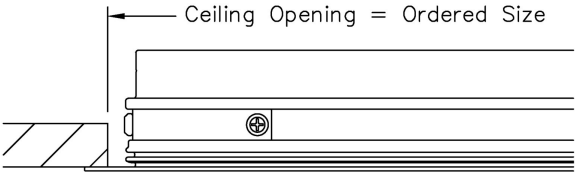
Countersunk Holes



Application

SM

Surface Mount



Material

- Extruded aluminum frame & spacers
- Steel pattern controllers
- Plastic locking pins
- Coated steel fasteners

Finish

- Diffuser face: PA - Prepared Aluminum - Mill Finish Factory Cleaned
- CMF outer frames come with a PA finish. On 2 slot variations, only center tee will be painted.
- Interior surface: NO-BFR - upper frame to match diffuser face finish (JS)
- Pattern controllers - B17 black

Notes

- Minimum length 12" (305mm)
- Maximum section length 120" (3048mm)
- Sizes over maximum section length will be provided in multiple sections
- For installation instructions, instructions for drywall finishing, or instructions for field trimming, please see the CF installation manual
- Taping and plaster finishing by others
- Field trimming not recommended for X ends
- Replacement parts can be ordered through CFK or GRD-PARTS models
- For use with model CFP, UP, and UPL plenums
- Factory tolerance $\pm 1/32"$ (1mm)

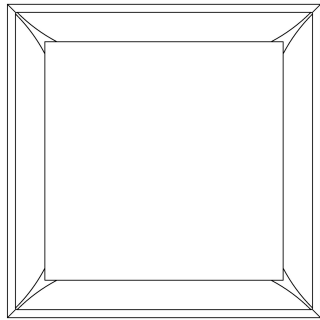


Scan for link to additional product information and installation instructions.

PROJECT: SHOPPERS #9688 KLEINBURG 6520 MAJOR MACKENZIE
ENGINEER:
DESCRIPTION: Custom Flow
CF-1-2//I/IN/264.00/Multi-120/JS/1.0/1/SM/CMF/A/XX/DPC/No-BFR/No-Acc//No-CT/PA

SUBMITTAL NO: 267998-N
CUSTOMER:
SUBMITTAL DATE: 4/10/2025

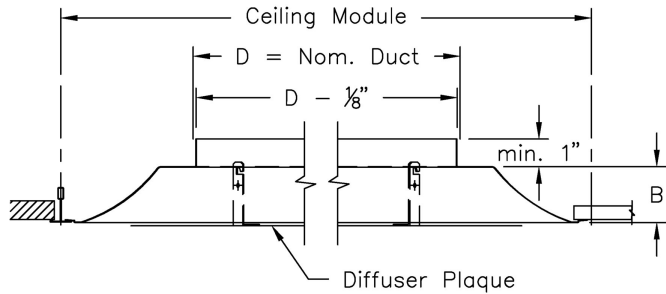
SPD Square Plaque Diffuser



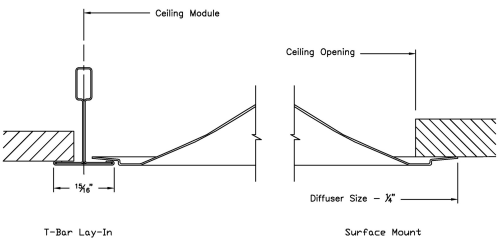
Duct Diameter: 6"
Backpan Height (B): 2 1/2"
Ceiling Module: 24" x24"
Ceiling Opening:
(Surface Mount App) 22" x 22"

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

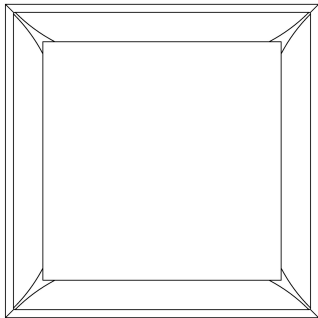
Material:

- Diffuser: Steel

Finish:

- B12 - Standard White

SPD Square Plaque Diffuser



Duct Diameter: 8"

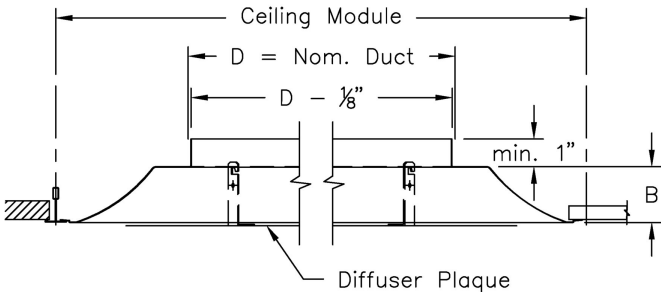
Backpan Height (B): 2 1/2"

Ceiling Module: 24" x24"

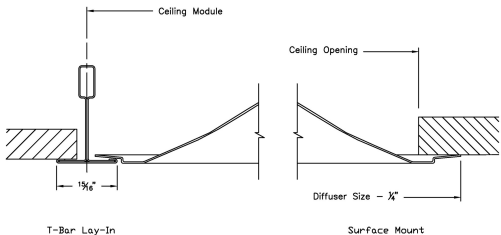
Ceiling Opening:
(Surface Mount App) 22" x 22"

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

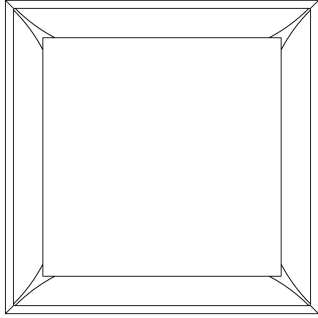
Material:

- Diffuser: Steel

Finish:

- B12 - Standard White

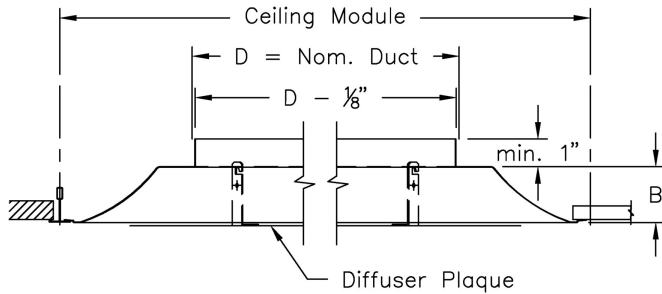
SPD Square Plaque Diffuser



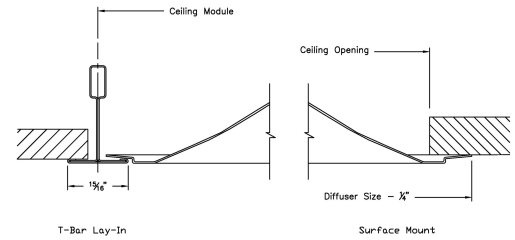
Duct Diameter: 10"
Backpan Height (B): 2 1/2"
Ceiling Module: 24" x 24"
Ceiling Opening: 22" x 22"
(Surface Mount App)

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: Steel

Finish:

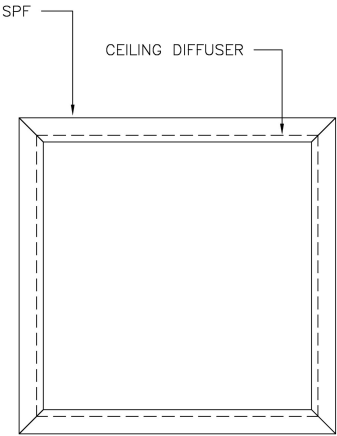
- B12 - Standard White

PROJECT: SHOPPERS #9688 KLEINBURG 6520 MAJOR MACKENZIE
ENGINEER:
DESCRIPTION: Square Plaque Diffuser
SPD-1-2//10//24/24/31/////B12

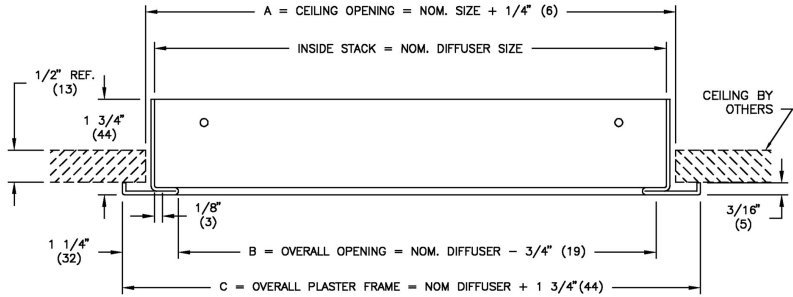
SUBMITTAL NO: 258503-F
CUSTOMER:

SUBMITTAL DATE: 4/10/2025

SPF Steel Plaster Frame



Nom. Diffuser Size	A	B	C
24 x 24	24 1/4 x 24 1/4	23 1/4 x 23 1/4	25 3/4 x 25 3/4



Notes:

- Factory Tolerance ± 1/32" (1)

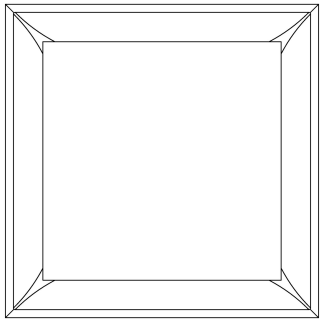
Material:

- Heavy Gauge Steel

Finish:

- B12: Standard White

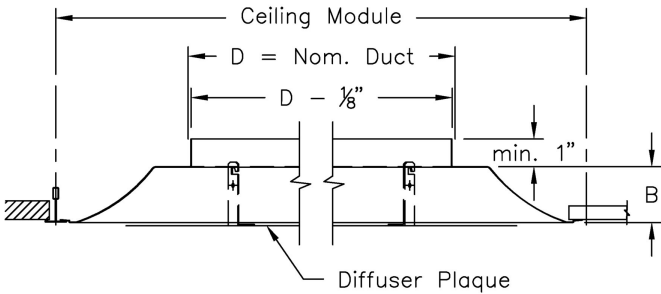
SPD Square Plaque Diffuser



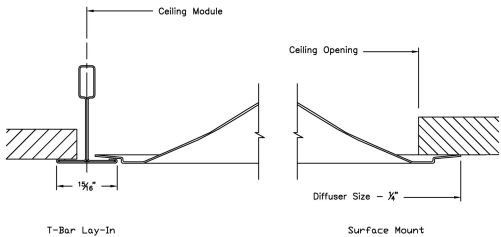
Duct Diameter:	12"
Backpan Height (B):	2 1/2"
Ceiling Module:	24" x24"
Ceiling Opening: (Surface Mount App)	22" x 22"

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: Steel

Finish:

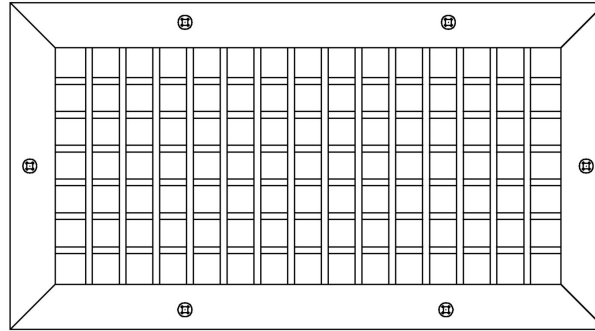
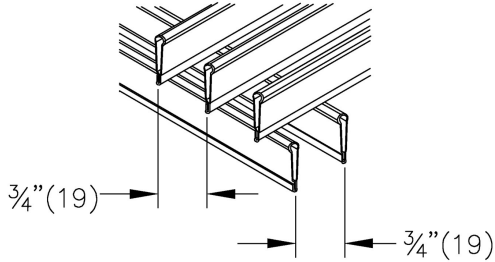
- B12 - Standard White

PROJECT: SHOPPERS #9688 KLEINBURG 6520 MAJOR MACKENZIE	SUBMITTAL NO: 258503-F	SUBMITTAL DATE: 4/10/2025
ENGINEER:	CUSTOMER:	
DESCRIPTION: Square Plaque Diffuser		
SPD-1-2//12//24/24/31/////B12		

620-1-2 Aluminum Supply Grille - Double Deflection

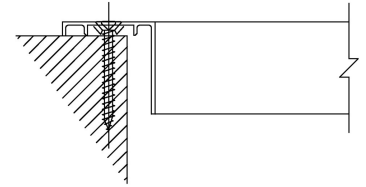
Core Style:

Double Deflection

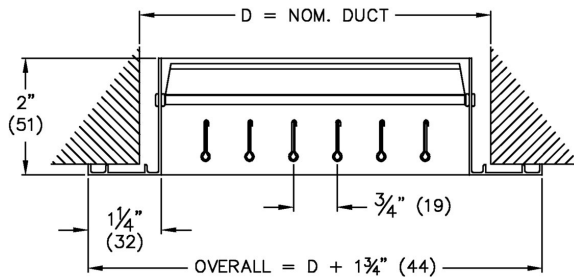


Fastening:

A: Countersunk Screwholes
c/w Screws



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



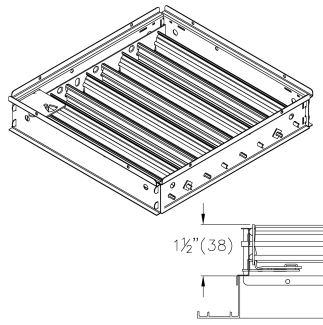
Material:

- Aluminum

Finish:

- B12 - Standard White

Damper: VCS3 Coated Steel Opposed Blade Damper (Mill Finish)



Notes:

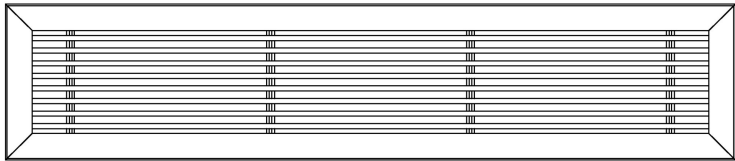
- Front blades parallel to Short dimension
- Individually adjustable roll formed blades on 3/4" (19) centers
- VCS3 opposed blade damper, coated steel
- Factory tolerance $\pm 1/32$ " (1)
- Visible mullions are included when blades are parallel to nominal size dimension larger than 24" (610).

PROJECT: SHOPPERS #9688 KLEINBURG 6520 MAJOR MACKENZIE
ENGINEER:
DESCRIPTION: Aluminum Supply Grille - Double Deflection
620-1-2//I/16.000/8.000/SM/F///S/A/VCS3/B12

SUBMITTAL NO: 269136
CUSTOMER:

SUBMITTAL DATE: 4/10/2025

LBPH Linear Bar Grille - Heavy Duty



End Conditions:

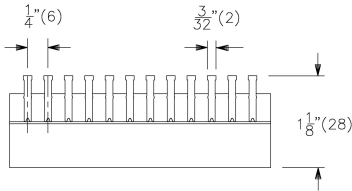
XX Both Mitred Ends

Finish:

B12 Standard White

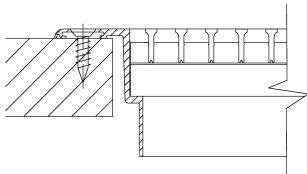
Core

15A 0° Deflection - 3/32" Bars - 1/4" On Center Spacing



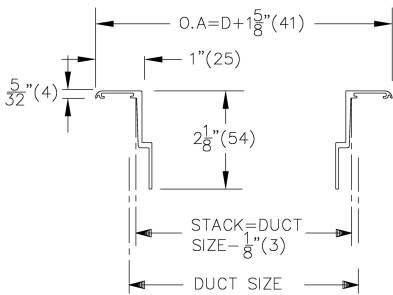
Fastening

A Countersunk Screw Holes



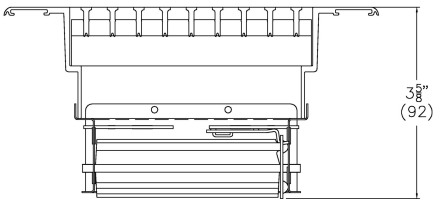
Border

1000 1" (25) Border



Accessories Included

VCS3

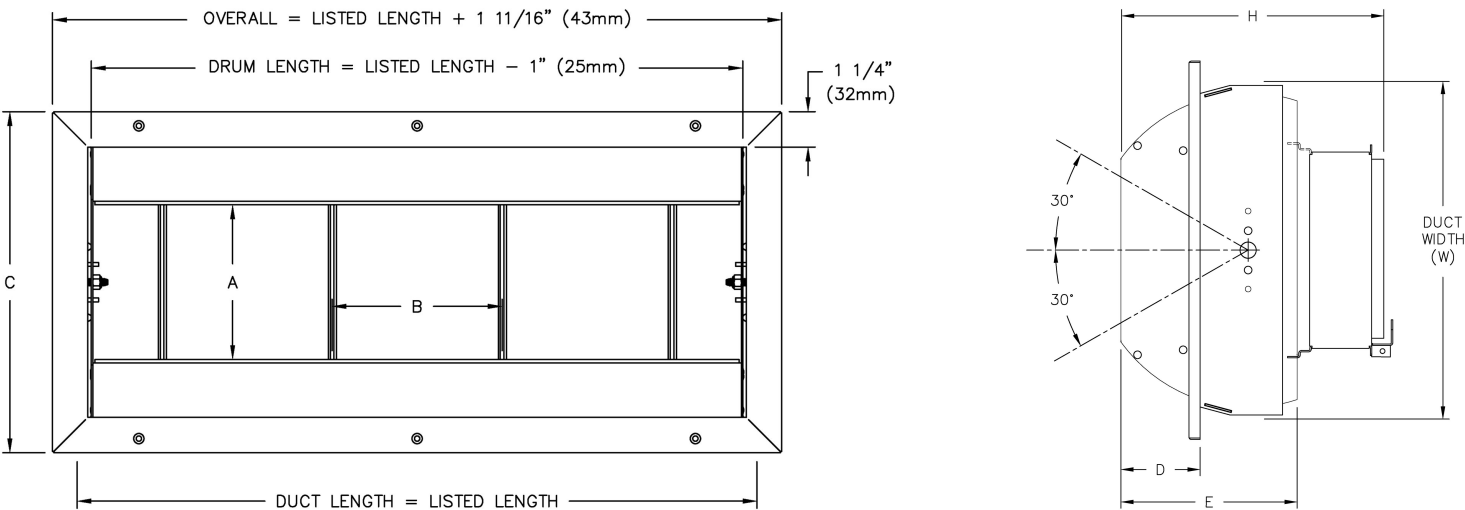


VCS3 opposed blade damper
Min. nom. width = 2.5" (64)

Notes

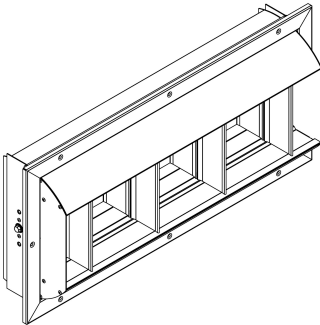
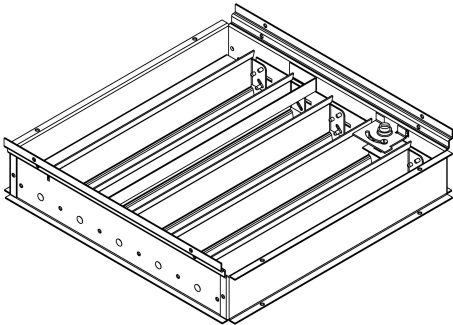
- For sidewall application
- Bars are parallel to the first dimension
- Weld build-up max. 1/16" (2) at corners
- Factory tolerance: ± 1/32" (1) per grille section
- Units wider than 24" are supplied in multiple sections with mounting channel(s)
- Extruded aluminum construction
- Sections can be joined for continuous appearance
- Screw mounting holes per factory standard
- Maximum length for one piece construction = 72"
- Removeable Core held in place with clips

HCD High Capacity Drum Diffuser



Listed Width	Duct Width (W)	A	B	C	D	E	H (VCS5)	Damper Width
12.000	12 1/2"	6 5/8"	6"	14 1/16"	3 1/4"	6 3/4"	8 11/16"	8"

Damper: VCS5 Heavy Duty Opposed Blade Damper (Steel) **Blade Type:** 1B Single blade



- Notes:**
- The drum can be rotated to 30° in either direction
 - Detents on the frame hold the drum in the desired position
 - VCS5 dampers will be provided up to a maximum length of 36" (914mm). On longer units dampers will be supplied in multiple sections
 - Factory Tolerance: ± 1/32" (1 mm)

- Material:**
- ST - Steel frame with aluminum blades and outer drum
- Finish:**
- Drum & Frame:
- B12: Standard White



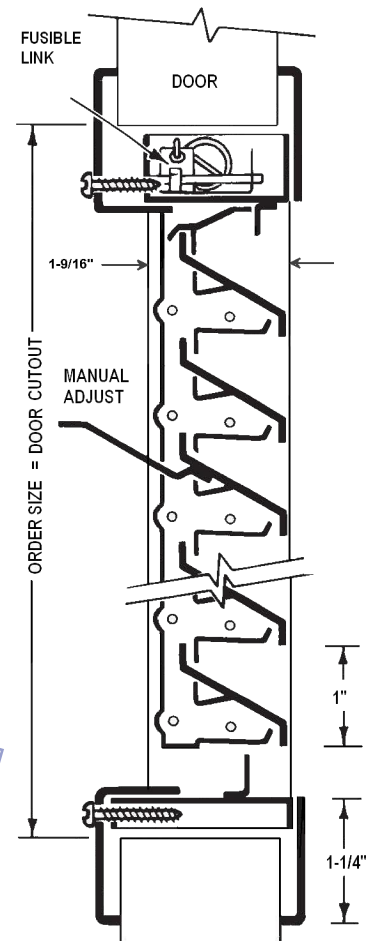
This Adjustable Z-Blade Louver with Fusible Link is Ideal for Use in Fire Doors up to 1-1/2 Hour Rating.
Ideal for Installation in Existing Door Cutouts.



SPECIFICATIONS:

Material:	18 gauge (.048") CRS frame. Min size 10" x 6", Max 24" x 24".
Construction:	Louver: Z-blade louvers riveted to operating bar and frame at 1" intervals to welded 1-9/16" deep frame. Mechanical stop 5/8" x 3/8" x 16 ga. (.048") holds blades open. Frame: Mitered and welded corners; screws fastened through prepared frame into louver core leaving corridor side of frame free of fasteners.
Operation:	Adjustable blades of 16 gauge (.059") CRS pivot on cadmium-plated steel rivets. The blades are operated by a manual adjusting lever. A spring loaded fusible link mechanism is incorporated into the design. Upon melting of the link at 165° F, the action bar is actuated, thereby closing and locking all of the blades.
Door :	For 1-3/4" steel or composite doors. Door cutout = order size.
Fasteners:	#8 x 3/4" Phillips flathead screws to match finish.
Powder Coat Finishes:	<div> <div> (B) Mineral Bronze (standard color) (G) Gray (W) White (S) Sand </div> <div> (BK) Black (SB) SC Beige (AB) AMS Beige </div> <div> (FBK) Flat Black (SI) Silver (BRA) Brass </div> </div>
Free Flow Area:	45% free area.

SELF-ATTACHING FRAME



OPTIONAL FEATURES AT AN ADDITIONAL COST:

Finishes & Materials:	___ (E) Electro Galvanized for corrosion resistance & exterior use.
Fasteners:	___ Torx ___ Other: _____
Screen:	___ Insect Screen: Attached to the Corridor Side. <div> aluminum bronze fiberglass stainless </div> ___ Bird Screen: Attached to the Corridor Side.
Custom:	Custom sizes—contact customer service.

Order Format: 1900A ___
Example: 1900A 1212B Option E W H Color

LISTINGS & RATINGS:



Fire Ratings with UL & WHI Classification Marks
 Tested & Listed for UL10C, and classified in accordance with UBC7-2-94, ASTM E152, CAN/ULC S104, NFPA 252. Install in accordance with NFPA80.

Model 1900A is Rated for use in fire doors up to 1-1/2 hour rating. Louver size shall not exceed maximum of 576 sq. inches, 24"W and 24" H. The minimum width and height shall not be less than 10" and 6", respectively. Louvers may be provided for classified hollow metal type and composite type fire doors.

Consult with the Local Authority Having Jurisdiction (AHJ) to determine appropriate standards. Louver frame will be labeled with Listing mark.

STOCK ITEM— SEVERAL SIZES OF 1900A IN STOCK FOR NEXT DAY SHIPMENT FROM MANY OF OUR WAREHOUSES



Distributor:	Width: ___ x Height: ___
Architect:	Quantity:
Contractor:	Model:
Project:	Date: Version: ALPDS1901

800-554-6077 QUOTES@ACTIVARCPG.COM ORDERS@ACTIVARCPG.COM SALES@ACTIVARCPG.COM FAX: 952-835-2218

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SUBMITTAL

Job Name: **SHOPPERS #9688 KLEINBURG 6520 MAJOR
MACKENZIE**

Elevation: (ft) 568

Date: 4/14/2025

Submitted By: Amanda Stennett

Email: astennett@ehpricesales.com

Phone: (905)660-0066

E H PRICE LIMITED

571 CHRISLEA ROAD UNIT 3

WOODBIDGE, ON L4L 8A2

CA

Phone: (905)669-8988

Fax: (905)660-9121

Email Address: astennett@ehpricesales.com



P.O. Box 410 Schofield, WI 54476 (715) 359-6171 FAX (715) 355-2399 www.greenheck.com

Model: CSP-A200

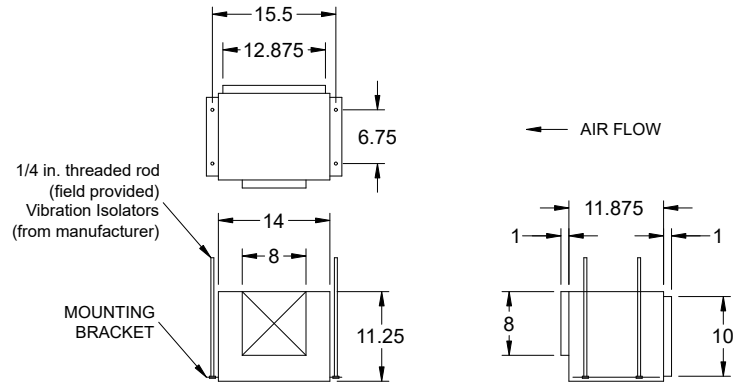
Inline Cabinet Fan

Standard Construction Features:

- Corrosion resistant galvanized steel scroll and housing - Sound absorbing insulation - Rectangular inlet and outlet duct collar - Outlet with integral spring loaded back draft damper - Double inlet forward curved wheel - Plug type disconnect - Adjustable mounting brackets - Field rotatable discharge

Selected Options & Accessories:

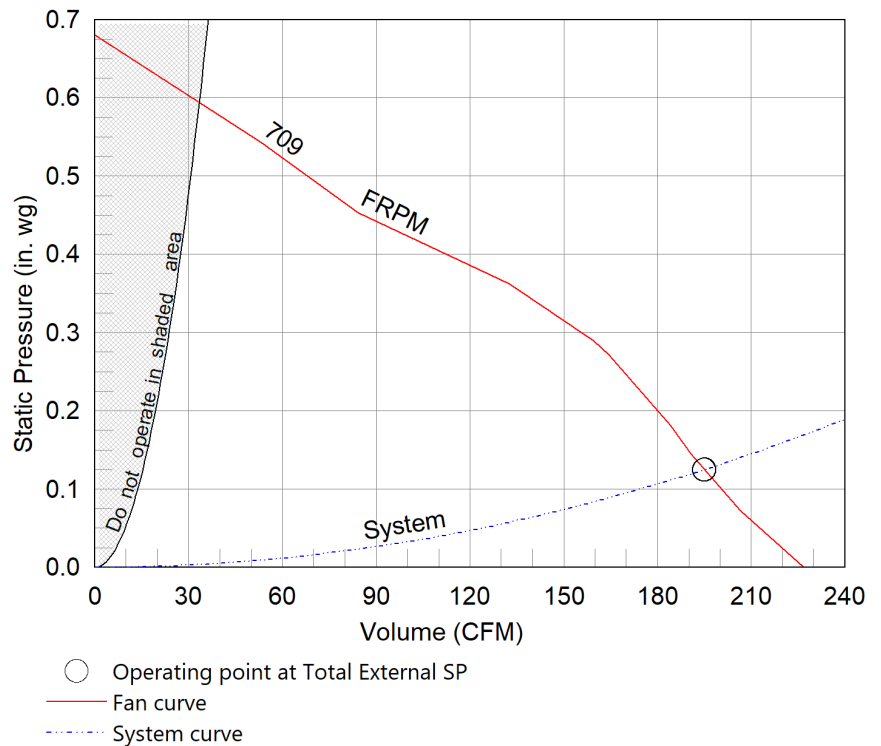
Motor with Thermal Overload
Motor with CSA Approval
Motor with 40 Degree C Ambient Temperature
UL/cUL 507 Listed - Electric Fan
Solid State Speed Control, 6 Amp, Shipped Loose
Isolation Kit, (PN: VI KIT-SP/CSP), Shipped Loose
Adjustable easy installation mounting bracket
Energy Star Certified
Polypropylene Wheel Material
Can Be Used to Comply with: ASHRAE 62.2, California Title 24, and Washington State Energy Code



Dimensional	
Quantity	1
Weight w/o Acc's (lb)	23
Weight w/ Acc's (lb)	25

Performance	
Requested Volume (CFM)	195
Actual Volume (CFM)	195
Total External SP (in. wg)	0.125
Fan RPM	709
* FLA (A)	0.46
Elevation (ft)	568
Airstream Temp.(F)	70
Air Density (lb/ft3)	0.073
Sones	< 0.3

Motor	
Motor Mounted	Yes
** Input Watts (W)	86
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP



Sound Power by Octave Band

Sound Data	62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
Inlet	53	39	35	21	16	12	13	19	32	17	< 0.3

Notes:

All dimensions shown are in units of in.
*FLA is approximate and will vary slightly with the motor.
Sones - calculated using AMCA 301 at 5 ft
** Wattage is approximate and may vary between motors.



Model: CSP-A110

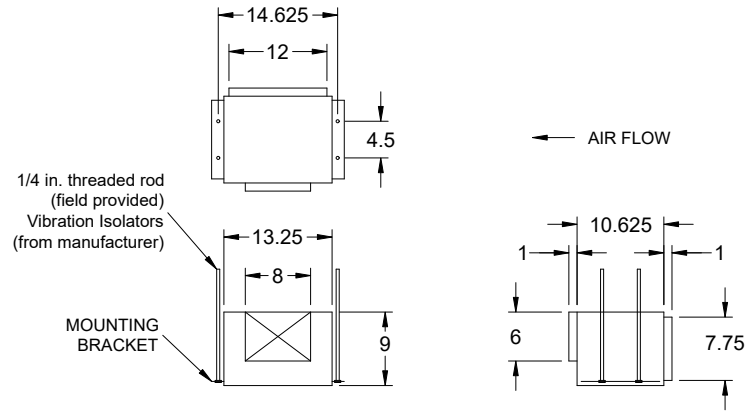
Inline Cabinet Fan

Standard Construction Features:

- Corrosion resistant galvanized steel scroll and housing - Sound absorbing insulation - Rectangular inlet and outlet duct collar - Outlet with integral spring loaded back draft damper - Double inlet forward curved wheel - Plug type disconnect - Adjustable mounting brackets - Field rotatable discharge

Selected Options & Accessories:

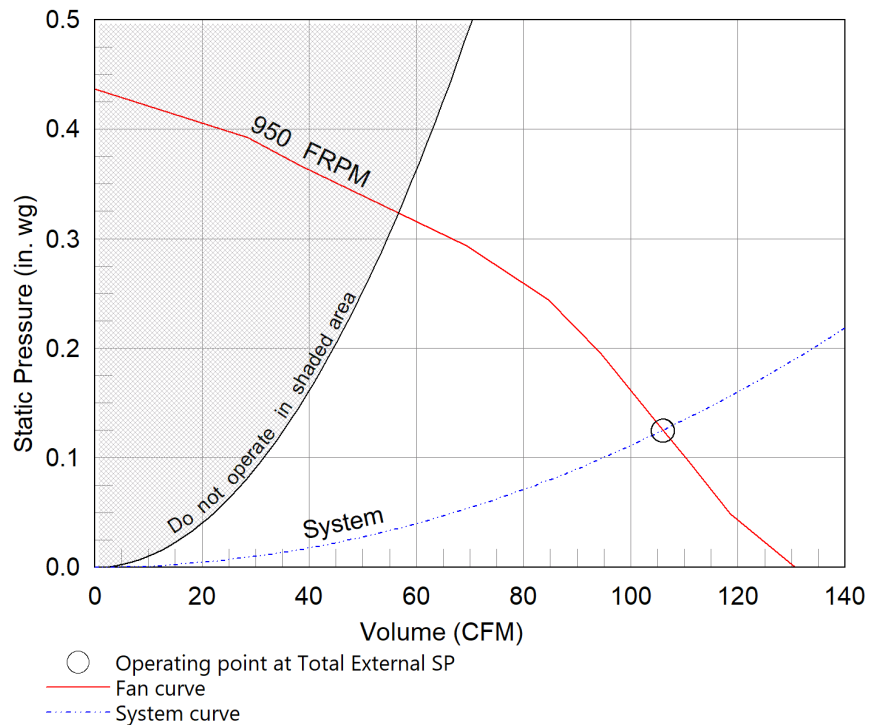
Motor with Thermal Overload
Motor with CSA Approval
Motor with 40 Degree C Ambient Temperature
UL/cUL 507 Listed - Electric Fan
Solid State Speed Control, 6 Amp, Shipped Loose
Isolation Kit, (PN: VI KIT-SP/CSP), Shipped Loose
Adjustable easy installation mounting bracket
Energy Star Certified
Polypropylene Wheel Material
Can Be Used to Comply with: ASHRAE 62.2, California Title 24, and Washington State Energy Code



Dimensional	
Quantity	1
Weight w/o Acc's (lb)	16
Weight w/ Acc's (lb)	18

Performance	
Requested Volume (CFM)	106
Actual Volume (CFM)	106
Total External SP (in. wg)	0.125
Fan RPM	950
* FLA (A)	0.19
Elevation (ft)	568
Airstream Temp.(F)	70
Air Density (lb/ft3)	0.073
Sones	< 0.3

Motor	
Motor Mounted	Yes
** Input Watts (W)	47
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP



Sound Power by Octave Band

Sound Data	62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
Inlet	38	29	32	18	13	6	11	21	27	12	< 0.3

Notes:

All dimensions shown are in units of in.
*FLA is approximate and will vary slightly with the motor.
Sones - calculated using AMCA 301 at 5 ft
** Wattage is approximate and may vary between motors.

