

Submittal Records

Architect: Snyder Architects Inc.	Date: 2024-10-22
Attention: Amit Patel, Anil Gokarn, Avinash Garde, Mike Wilding, Jamie Leach, Shakil Manashiya, Jake Graham	Project: Gymnasium Addition at Glenview PS
Subcontractor: Kirk Mechanical	Shop Drawings – Mechanical –FAN-R1

Copies	Title /Description	# Pages
1	FAN	9

Method of Delivery: Electronic

The Architects review is for the sole purpose of ascertaining conformance with the general design concept and for the general arrangement. This review shall not mean approval of the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor and such review shall not relieve the Contractor of their responsibility for errors or omissions in the shop drawings or of their responsibility for meeting all requirements of the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to fabrication processes, quantities or to techniques of construction and installation and for coordination of related work.

SN	/der
arch	nitects

Date_	Dec 13 2024	
Ву		
	_{0.} 2314	
	eptions taken	
Compl	, with notations	
Revise	& Resubmit	
Not rev	iewed	

G.S. SHEET METAL

1800 Barton St. East Hamilton, ON. L8H 2Y6



Shop Drawing Submittal

PREVIOUS SUBMISSION/REVIEW

Project Manager: Shawn Soyka

Date Submitted: Oct 22, 2024

,	Decision		Time		Re-submitted
,	Decision				
,	Decision				
		Com	nments	•	
	Approved				
	Approved as noted				
Additiona	Revise and resubmit				
	al Comments				
				D	ET Consulting Engineers ∩ In
					CHANICAL ELECTRICAL AQUATIC
			c ti d	conformance with the go hat DEI & Associates Ind drawings, responsibility	ociates Inc. is for the sole purpose of ascertainir eneral design concept. This review shall not me approves the detail design inherent in the sho for which shall remain with the contractor subm
Reviewed	d by: Shawn Soyka	a	e	errors or omissions in th	hall not relieve the contractor of his responsibility for meetin struction and contract documents. Reviewed As Noted
WEREN'T AN				X Not Revie	=

REVIEWED

REVISED3:54 pm, Oct 22, 2024

By KIRK MECHANICAL LIMITED at 3:55 pm, Oct 22, 2024



> Mark: EF-1 Model: G-095-VG

Model: G-095-VG

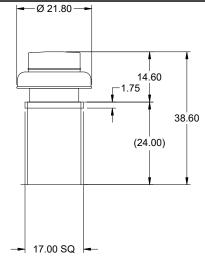
Direct Drive Centrifugal Roof Exhaust Fan

Dimensional					
Quantity	1				
Weight w/o Acc's (lb)	28				
Weight w/ Acc's (lb)	34				
Weight w/ Acc's and Curb (lb)	61				
Standard Curb Cap Size (in.)	17 x 17				
Optional Damper (in.)	10 x 10				
Roof Opening (in.)	13.5 x 13.5				

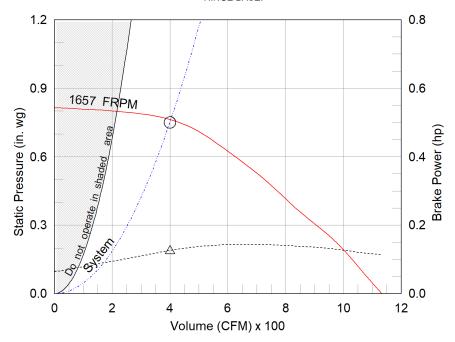
Performance	ce
Requested Volume (CFM)	400
Actual Volume (CFM)	400
Total External SP (in. wg)	0.75
Fan RPM	1657
Operating Power (hp)	0.12
Elevation (ft)	568
Airstream Temp.(F)	70
Air Density (lb/ft3)	0.073
Tip Speed (ft/min)	4,719
Static Eff. (%)	38

Misc Fan Data						
Fan Energy Index (FEI)	-					
Outlet Velocity (ft/min)	345					

Motor	
Motor Mounted	Yes
Size (hp)	1/6
Voltage/Cycle/Phase	115/60/1
Enclosure	TENV
Motor RPM	1725
Efficiency Rating	High
Windings	1
FLA (Amps)	2.2
Min. Circuit Ampacity (MCA)	3
Max. Overcurrent Protection (MOP)	15
Short Circuit Current Rtg (SCCR)	5 kA



OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR HINGE BASE.



 \triangle Operating Bhp point

Operating point at Total External SP

— Fan curve

System curve

----- Brake horsepower curve

Notes:

All dimensions shown are in units of in.

*NEC FLA, MCA and MOP are for reference only – based on tables 430.248 or 430.25 of National Electric Code 2020. Actual motor FLA may vary, for sizing thermal overload, consult factory. MCA and MOP values shown only account for the motor, not accessories (damper actuator, field supplied VFD, etc).

LwA - A weighted sound power level, based on ANSI S1.4 dBA - A weighted sound pressure level, based on 11.5 dB attenuation per Octave band at 5 ft - dBA levels are not licensed by AMCA International

Sones - calculated using ANSI/AMCA 301 at 5 ft



Sound Power by Octave Band

Sound Data	62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
Inlet	83	81	72	66	65	58	46	52	71	59	10.7



Mark: EF-1 Model: G-095-VG

Model: G-095-VG

Direct Drive Centrifugal Roof Exhaust Fan

Standard Construction Features:

- Aluminum housing - Backward inclined composite (sizes 60-95) or aluminum (sizes 97-300) wheel - Aluminum curb cap with prepunched mounting holes -Birdscreen - Ball bearing motors (sizes 85-300 and all Vari Green), sleeve bearing motors (sizes 60-80) - Motor isolated on shock mounts - Corrosion resistant fasteners

Selected Options & Accessories:

Motor - Vari-Green EC motor Control - Dial for balancing Standard Curb Cap Size - 17 Square UL/cUL 705 Listed - "Power Ventilators" Switch, NEMA-1, Toggle,

Junction Box Mounted & Wired in weather-protected motor compartment

Birdscreen: Galvanized, nom. 84% Free Area

Composite Wheel Material Conduit Chase Qtv 1 Unit Warranty: 1 Yr (Standard)

Damper Shipped Loose, BD-100-PB-10X10, Gravity Operated, Not Coated,

Nominal Size

Selected Sub Marks

See individual submittals for full details GPI-17-G24

The Vari-Green Motor included in this order has a 'Multi-Voltage' ability. The red wire on the motor is called a 'Voltage Doubler', and when it is connected the motor can be powered by 115V.

If the Red wire is disconnected, then the motor can be powered with 208-230/277V. The motor will leave the factory with the voltage doubler wired per the order.



Mark: EF-1 Model: G-095-VG

Vari-Green

Motor & Control Options

An EC motor that uses AC input power and internally converts it to DC power. Potentiometer (dial) mounted on the motor enclosure adjusts the speed (RPM) down 80%. Vari-Green motors feature a soft-start and inherent thermal and current protection built into each unit. Inrush current at start up is eliminated and the motor will automatically reduce speed or turn off if overloaded or it becomes too hot.

Motor Configuration

Input Voltage: 115

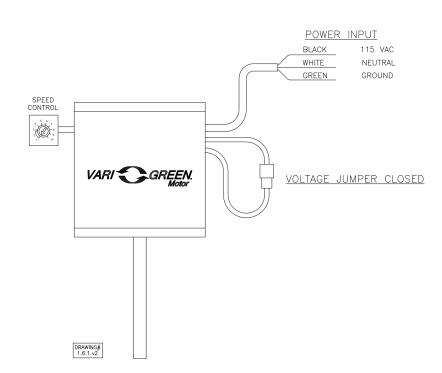
Speed Reference: Dial on Motor

Permanent Dial: Yes

Control Configuration

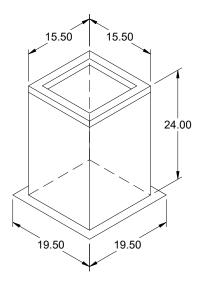
Control Type: Dial on Motor

Transformer: None





> Mark: EF-1 Model: GPI-17-G24



Model: GPI

Roof Curb

Standard Construction Features:

- Roof Curb fits between the building roof and the fan mounted directly to the roof support structure - Constructed of either 18 ga galvanized steel or 0.064 in. aluminum - Straight Sided without a cant - 2 in. mounting flange - 3 lb density insulation - Height - Available from 12 in. to 42 in. as specified in 0.5 in. increments. Notes: - The maximum roof opening dimension should not be greater than the "Actual" top outside dimension minus 2 in... - The minimum roof opening dimension should be at least 2.5 in. more than the damper dimension or recommended duct size. - The Roof Opening Dimension may or may not be the same as the Structural Opening Dimension. - Damper Tray is optional and must be specified. Tray size is same as damper size. - Security bars are optional and must be specified. Frames and gridwork are all 12 ga steel.

General

			Sizing	Undersizing	Weight	Shipped	
Tag	Qty	Model	Method	(in.)	(lb)	Assembled	Union Label
	1	GPI-17	Nominal	1.5	27	Yes	No Preference

Dimensions

	Nominal	Nominal	Actual	Actual	Actual	Actual	Hinge	Hinge
Curb	Outside	Outside	Outside	Outside	Inside	Inside	Base	Base
Height	Width	Length	Width	Length	Width	Length	Width*	Length*
(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)
24	17	17	15.5	15.5	12	12	16	16
*May not be applicable								

Accessories

	Security		Insulation	Insulation
Material	Bars	Liner	(in.)	R Value
Galvanized	No	No	1	R4.3



> Mark: EF-3 Model: SP-A110

Model: SP-A110

Ceiling Exhaust Fan

Standard Construction Features:

- Corrosion resistant galvanized steel scroll and housing - Sound absorbing insulation - White designer non-yellowing grille - Outlet duct collar with integral spring loaded backdraft damper - Double inlet forward curved wheel - Plug type disconnect - Adjustable mounting brackets - Field rotatable discharge

Selected Options & Accessories:

Motor rated for continuous use Motor with Thermal Overload Motor with CSA Approval

Motor with 40 Degree C Ambient Temperature

UL/cUL 507 Listed - Electric Fan

Isolation Kit, (PN: VI KIT-SP/CSP), Shipped Loose

Adjustable easy installation mounting bracket

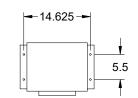
Energy Star Certified

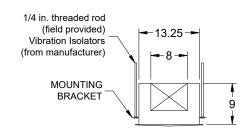
Aluminum Grille, (PN: 486005) Shipped Loose

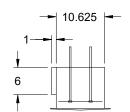
Polypropylene Wheel Material

Can Be Used to Comply with: ASHRAE 62.2, California Title 24, and Washington

State Energy Code





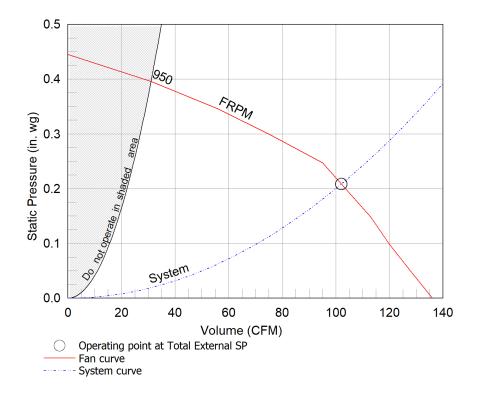


Dimensional					
Quantity	1				
Weight w/o Acc's (lb)	17				
Weight w/ Acc's (lb)	19				

Performance						
Requested Volume (CFM)	100					
Actual Volume (CFM)	102					
Total External SP (in. wg)	0.208					
Fan RPM	950					
* FLA (A)	0.19					
Elevation (ft)	568					
Airstream Temp.(F)	70					
Air Density (lb/ft3)	0.073					
Sones	0.5					

Motor	
Motor Mounted	Yes
** Input Watts (W)	18
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP

Sound Power by Octave Band



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.





Sound



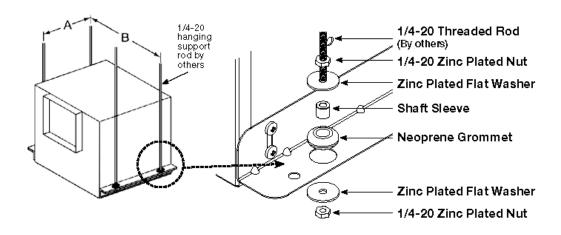
> Mark: EF-3 Model: SP-A110

Isolation Kit

Type: Hanging

Standard Construction Features:

- Neoprene vibration isolation for hanging installation - Kit includes four isolators and all hardware necessary for mounting one unit except for the 0.25 in. x 20 in. threaded rod to be supplied by others - Fan mounting brackets include prepunched mounting holes for ease of installation



Unit Size	Α	В
B50-B200	4 1/2 (114)	15 5/8 (397)
A50-A190	5 1/2 (140)	14 5/8 (371)
A200-A390	6 3/4 (171)	15 1/2 (394)
A410, A510, A710, A780	9 1/4 (235)	19 5/8 (498)
A700	5 1/2 (140)	25 1/8 (638)
A900 - A1050, A1410 - A1550	9 1/4 (235)	25 3/8 (<i>645</i>)
A1750, A2150	9 1/4 (235)	36 3/4 (933)
A3600	9 1/4 (235)	48 5/8 (1235)
All dimensions shown in inches		

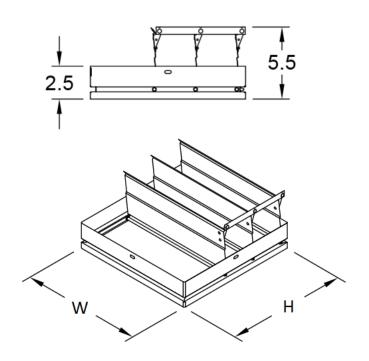
Description	Qty
Neoprene Grommets	4
1 x 32 Zinc Plated Nuts	8
Zinc Plated Flat Washers	8
3/8 x 3/16 Shaft Sleeves	4

(millimeters).



Horizontal Mount Exhaust Damper

Model: BD-100



Standard Construction Features:

- Model BD-100 is a horizontal mount exhaust damper (air flow up) and is constructed of 24 ga galvanized steel with pre-punched mounting holes - Damper blades are 0.016 in. roll formed aluminum with vinyl seals on the closing edge, and spring assisted for ease of opening - Axle/bearing is constructed of fiberglass reinforced nylon



Greenheck Fan Corporation certifies that the models BD-100 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to Air Leakage and Air Performance Ratings.

Damper Configuration:

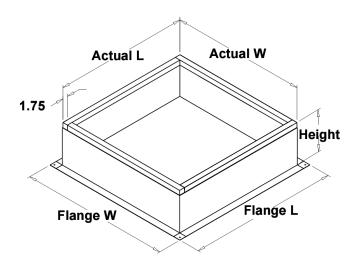
ID #:	Tag:	Quantity:	W (in.):	H (in.):	Act Qty:	Actuator Model:
2	EF-1	1	10	10	0	

Notes: All dimensions shown are in units of in. Width And height furnished approximately 0.25 in. undersize



Roof Curb

Model: GPI



Standard Construction Features:

- Roof Curb fits between the building roof and the fan mounted directly to the roof support structure - Constructed of either 18 ga galvanized steel or 0.064 in. aluminum - Straight Sided without a cant - 2 in. mounting flange - 3 lb density insulation - Height - Available from 12 in. to 42 in. as specified in 0.5 in. increments.

Notes:

- The maximum roof opening dimension should not be greater than the "Actual" top outside dimension minus 2 in..
- The minimum roof opening dimension should be at least 2.5 in. more than the damper dimension or recommended duct size
- The Roof Opening Dimension may or may not be the same as the Structural Opening Dimension.
- Damper Tray is optional and must be specified. Tray size is same as damper size.
- Security bars are optional and must be specified. Frames and gridwork are all 12 ga steel.

Roof Curb Configuration:

ID #:	Tag:	Qty:	Curb Cap W x L:	Actual W x L:	Flange W:	Flange L:	Height:	Step Hgt:	Damper Tray W x L:
2	EF-1	1	17 x 17	15.5 x 15.5	19.5	19.5	24	N/A	Х

Notes: All dimensions shown are in units of in.



Submittal Records

Architect: Snyder Architects Inc.	Date: 2024-10-22
Attention: Amit Patel, Anil Gokarn, Avinash Garde, Mike Wilding, Jamie Leach, Shakil Manashiya, Jake Graham	Project: Gymnasium Addition at Glenview PS
Subcontractor: Kirk Mechanical	Shop Drawings – Mechanical –GRD-R1

Copies	Title /Description	# Pages
1	GRD	6

Method of Delivery: Electronic

G.S. SHEET METAL

1800 Barton St. East Hamilton, ON. L8H 2Y6



Shop Drawing Submittal

Project Name:	Glenview
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Project Manager: Shawn Soyka

Date Submitted: Oct 22, 2024

Submittal		Lead Time	Spec No.	Status		
GRD's				Re-submitted		
Check Decision Comm		ments				
	Approved as noted					
	Revise and resubmit					
Addition	nal Comments					
			con that	review by DEI & Asso formance with the gel DEI & Associates Inc.	ET Consulting Engineers HANICAL ELECTRICAL AQUATIC sciates Inc. is for the sole purpose of ascerta neral design concept. This review shall not approves the detail design inherent in the province of the sole purpose of ascerta	mean shop
Reviewed by: Shawn Soyka		erro	ors or omissions in the uirements of the constant	all not relieve the contractor of his respons shop drawings or his responsibility for mee truction and contract documents. Reviewed As Not	eting all	
			、 ∐	Not Review	wed Revise and Resub	mit

ONLY REQUESTED RESUBMITS HAVE BEEN REVIEWED. CONTRACTOR RESPONSIBLE TO COMPILE COMPLETE SUBMISSION FOR INCLUSION IN CLOSEOUT DOCUMENTS REVIEWED

By KIRK MECHANICAL LIMITED at 3:52 pm, Oct 22, 2024

REVISED3:52 pm, Oct 22, 2024



Grilles/Registers/Diffusers Submittals

Job Name: GLENVIEW PS GYM ADD

Date Printed: 10/18/2024 **Spec Section:** 15 - HVAC

Contact: 70 UNSWORTH DRIVE

UNIT #11

Hamilton, ON L8W 3K4



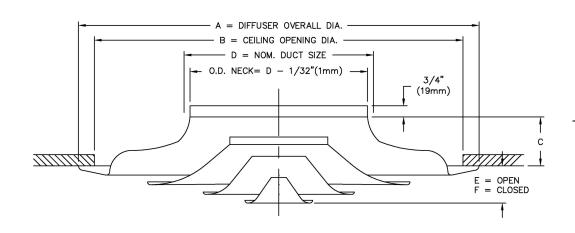
Performance Notes

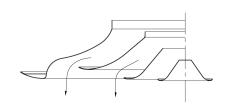
- Date Printed: 10/18/2024
- 1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets".
- 2. Throw data is based on the temperature differential (Dt), in degrees Fahrenheit (°F), between supply air temperature and room temperature.
- 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.).



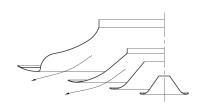
RCD Steel Round Cone Diffuser, 3 Position Adjustable

Vertical Airflow

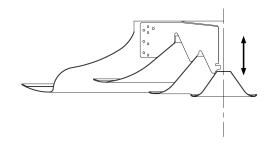




Horizontal Airflow



Detail View:



Accessory:



Notes:

- Horizontal to vertical pattern adjustments, three position
- Tool free removal of inner cone
- · SC Safety Chain
- Factory Tolerance: ± 1/32" (1 mm)

Material:

· Heavy Gauge Spun Steel

Finish:

• B12: Standard White

Dimensions- inches						
Inlet Size	Α	В	С	D	E	F
8	18	16	2 1/8	8	2 3/16	1 3/16
10	22 1/2	20	2 5/8	10	2 11/16	1 7/16
16	36	32	4 1/4	16	4 1/4	2 1/4



Scan for link to additional product information and installation instructions

PROJECT: GLENVIEW PS GYM ADD

ENGINEER:

DESCRIPTION: Round Cone Diff-Ceiling W/3 Position Adjstmnt,Stl

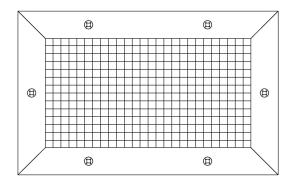
RCD//I/8,10,16///////B12

SUBMITTAL NO: 260677-A **CUSTOMER:**

SUBMITTAL DATE: 10/18/2024

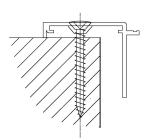


Egg Crate Grille - 1/2" x 1/2" x 1/2" Core 80



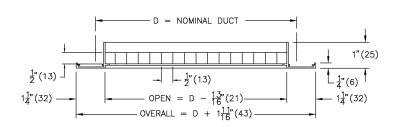
Fastening:

Countersunk Screw Holes



Border:

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 ±1/32" (1mm)

PROJECT: GLENVIEW PS GYM ADD

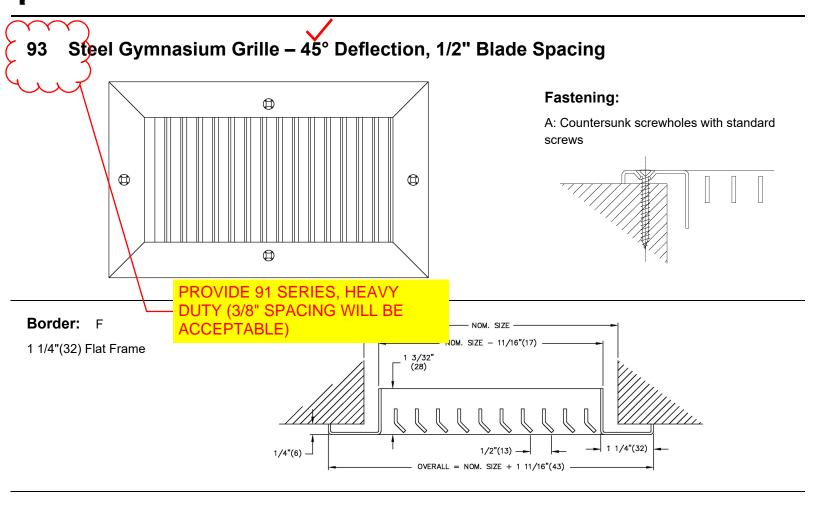
ENGINEER:

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

SUBMITTAL NO: 259683-E CUSTOMER:

SUBMITTAL DATE: 10/18/2024





Notes: Louver blades are parallel to the short dimension Louver blades are fixed

- 45° deflection blades on 1/2" centers
- Factory tolerance ± 1/32" (1)

PROVIDE HORIZONTAL FRONT BLADES

Material:

• Frame: 16 Gauge Steel

Blades: 14 Gauge Steel Mullions: 20 Gauge Steel

• Mullion Pins: 1/8" (3) Steel

Finish:

• B12: Standard White



PROJECT: GLENVIEW PS GYM ADD

ENGINEER:

DESCRIPTION: Steel Gym Grille, 45degree Angle, 1/2" Spacing

93//I/28.000/24.000//S////A//B12

SUBMITTAL NO: 260722-A

CUSTOMER:

SUBMITTAL DATE: 10/18/2024



Submittal Records

Architect: Snyder Architects Inc.	Date: 2024-10-22
Attention: Amit Patel, Anil Gokarn, Avinash Garde, Mike Wilding, Jamie Leach, Shakil Manashiya, Jake Graham	Project: Gymnasium Addition at Glenview PS
Subcontractor: Kirk Mechanical	Shop Drawings – Mechanical –Wire Guard-R1

Copies	Title /Description	# Pages
1	GRD's Wire Guard	4

Method of Delivery: Electronic

G.S. SHEET METAL

1800 Barton St. East Hamilton, ON. L8H 2Y6



Shop Drawing Submittal

Project Name: Glenview

Project Manager: Shawn Soyka

Date Submitted: Oct 22, 2024

Submittal	Lead Time	Spec No.	Status
Wire Guard			Re-submitted

Check	Decision	Comments
	Approved	
	Approved as noted	
	Revise and resubmit	

Additional Comments		

Reviewed by: Shawn Soyka

REVIEWED

By KIRK MECHANICAL LIMITED at 3:53 pm, Oct 22, 2024

REVISED 3:53 pm, Oct 22, 2024



Grilles/Registers/Diffusers Submittals

Job Name: GLENVIEW PS GYM ADD

Date Printed: 10/18/2024 **Spec Section:** 15 - HVAC

Contact: 70 UNSWORTH DRIVE

UNIT #11

Hamilton, ON L8W 3K4

Date Printed: 10/18/2024 Job Name: GLENVIEW PS GYM ADD



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

#	Qty	Model	Tag	Unit Size	Pattern	Line Instructions
						WIRE GUARD PN # 025801-005
						ONLY WITH HARDWARE, TO SUIT
						RCD
						PRICE IS QUANTITY SENSITIVE AT 8
						# OF UNITS. ANY CHANGES WILL
						REQUIRE A REQUOTE AND LIST
						PRICE WILL BE SUBJECT TO
8	8	WG	D2	16	RCD	CHANGE.
RCD - Round Cone Diffuser						



CORRECT QUANTITIES, AND/OR SIZES AND DIMENSIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR



Performance Notes

- Date Printed: 10/18/2024
- 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.).



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Subcontractor: Kirk Mechanical	Shop Drawings – Mechanical –LOUVER-R1

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1	LOUVER	3

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Shop Drawing Submittal

Project	Name:	Glenview
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Project Manager: Shawn Soyka

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Submittal	Lead Time	Spec No.	Status
Louvers			Re-submitted

Check	Decision	Comments
	Approved	
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	Revise and resubmit	

Additional Comments		

Reviewed by: Shawn Soyka

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Contact: 70 UNSWORTH DRIVE

UNIT #11

Hamilton, ON L8W 3K4

DE439 FIXED BLADE LOUVER

STANDARD CONSTRUCTION

CONSTRUCTION

ALL WELDED

FRAME

• 4.00in x .081in [102mm x 2.1mm] EXTRUDED ALUMINUM (6063-T5) CHANNEL FRAME

BLADES

 DRAINABLE STYLE BLADES, .081in[2.1mm] EXTRUDED ALUMINUM (6063-T5) 39° BLADE ANGLE, 4.00in[102mm] BLADE SPACING

FINISH

• MILL

MINIMUM SECTION SIZE

• 9.00in W x 9.50in H [229mm x 241mm]

MAXIMUM SECTION SIZE

- ONE PIECE CONSTRUCTION 72in W x 120in H [1829mm x 3048mm] OR 120in W x 72in H [3048mm x 1829mm]
- · LARGER LOUVERS WILL REQUIRE FIELD ASSEMBLY OF MULTIPLE SECTIONS BY OTHERS

AVAILABLE OPTIONS

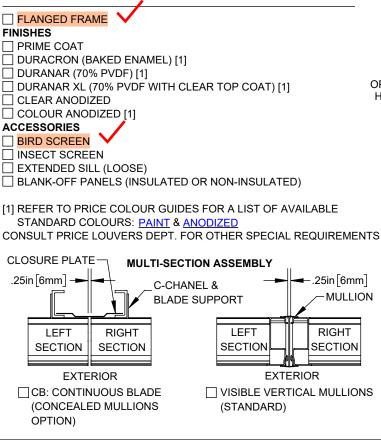
- · LARGER LOUVERS MAY REQUIRE STRUCTURAL SUPPORT BY **OTHERS**
- MAXIMUM SECTION SIZE MAY VARY FOR ANODIZED FINISH

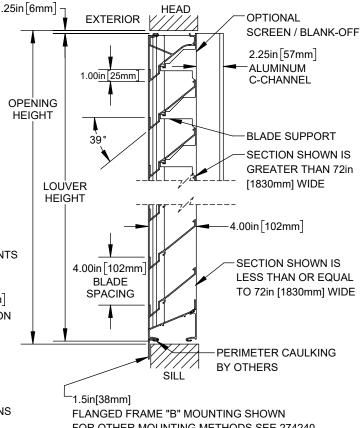


Price Industries certifies that the DE439 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program The AMCA Certified Seal applies to air performance ratings.



CHANNEL FRAME "A" MOUNTING SHOWN FOR OTHER MOUNTING METHODS SEE 274240





Not Reviewed

