


SUBMITTAL COVER SHEET #6

PROJECT NAME: Boone County Ignite Institute Renovations
 DATE: 4/29/24
 ARCHITECT: REH&A
 BUILDER: ASHLEY CONSTRUCTION INC.
 SUPPLIER: Bison
 MANUFACTURER (S): PennBarry
 SPEC SECTION: 233423
 SECTION NAME: Power Ventilators

Ashley Construction Inc.

This submittal has been checked to verify measurements, coordination requirements between sub-contractors, model numbers and performance characteristics, and this submittal conforms to the requirements of the drawings and specifications and reflects any special requirements of the job conditions.

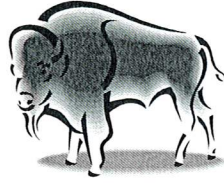
SIGNED:  DATE 4/29/24

ARCHITECT'S APPROVAL

SHOP DRAWING REVIEW	
ENGINEER'S REVIEW	RESPONSE REQUIRED OF CONTRACTOR
<input type="checkbox"/> No Exceptions Taken <input type="checkbox"/> Rejected <input checked="" type="checkbox"/> Note Markings <input type="checkbox"/> Comments Attached	<input type="checkbox"/> Confirm <input type="checkbox"/> Resubmit
Engineer's review is for general conformance with the design concept as it relates to Engineer's scope of services. Contractor shall remain responsible for compliance with the project's contract documents and specifications. Markings, comments or lack of any notation shall not be construed as relieving the Contractor from this responsibility. Under no circumstances shall submittal and review of shop drawings be interpreted as acceptance of a modification or change to the contract documents. The Contractor remains responsible for details and accuracy, for confirming and correlating all quantities and dimensions, and for performing its work in a safe manner.	
SHROUT TATE WILSON CONSULTING ENGINEERS By: <u>Matthew McDaniel</u> Date: <u>06/03/24</u>	

PROVIDE WIRING DIAGRAMS:
FOR POWER, SIGNAL, AND
CONTROL WIRING.

Bison Services LLC



7152 N. AA Hwy
Foster, KY 41043
Phone 606-747-0322 / Fax 606-747-0324

March 27,2024

Project: Ignite Institue Renovation

Contractor: Ashley Construction

Engineer/Consultant: Shrout Tate and Wilson

Submittals: Fans

Spec Section: 23-34-23

Current Lead Time is 4 to 6 Weeks

Respectfully Submitted,

Jason Meloche

Bison Services, LLC

Ph# 606-747-0322

Fax# 606-747-0324

HABEGGER

Fabrication Division

925 Redna Terrace, Cincinnati, Ohio 45215

(513) 761-0383/1293 (Fax)

Submittals

Prepared By: Habegger Fabrication Division
925 Redna Terrace
Cincinnati, Ohio, 45215
Chalk Fry III

Contractor: **Bison Services**

Job: Ignite Institute Reno- Boone Co BOE

Date: 3/27/2024

Submittal Table of Contents

PennBarry Submittal

Project: Ignite Institute Reno- Boone Co. BOE

PENNBARRY

SUBMITTAL PACKAGE

Roof & Wall Exhaust

FX -

ID#	Tag	Qty
FX-1	EF-K1	1

Note:

- Quantities and Sizes listed are for submittal purposes only, to be verified prior to order.
- Submittal information is deemed correct at time of printing, however in the interest of product improvement pennbarry reserves the right to make changes without notice.

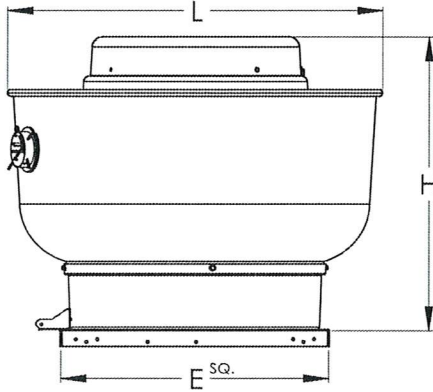
FX08B

Roof Mounted Upblast Spun **Aluminum Exhaust Fan**

Quantity: 1

Special: None

Dimensions



Unit Size	E sq	H	L	Ro
08	24.75	28.75	35	16

Weight

96

Standard Construction Features

- Two (2) patented wheel designs
- Unique internal bracing design transfers weight directly to curb; no spun parts supply structural support
- Welded curb cap available as either galvanized or aluminum
- Popular **direct drive** sizes use multi-speed motors for maximum flexibility
- **Direct drive** (Open/TE) motors include overload protection as standard
- Plug-Disconnect and pre-wired junction box (1-speed ODP motors up to 3/4 HP) - Only Direct Drive models.

Accessories

Temperature: 70

UL / ETL Listing: 1 - UL 705

Unit Size: 08

Application: E - Exhaust

Drive Type: B - Belt

Unit Material: A - Aluminum

Motor Efficiency: P - Premium

V-Belt Drive Kit: A - Adjustable Drive Kit

Service Switches: F - NEMA 3R - mounted

Internal Wiring: 3 - NEMA 3R

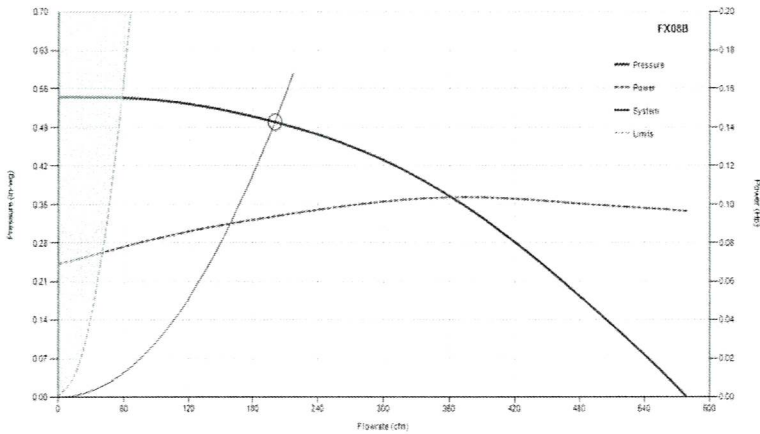
Damper Type: BD - Backdraft Damper

Spark Resistance Construction: C - AMCA C Spark Resistance

Curb Cap: A - Alum Curb Cap (Std)

(continued)

Performance



Operating Point

Volume (CFM)	200
Static Pressure (in. wg)	0.5
Fan RPM	974
Horse Power (BHP)	0.09
Elevation (ft)	0
Temperature (°F)	70
Drive Loss (%)	10
FEI	0.97

Motor Information

Motor HP	0.25 - 1/4 HP
Volt/Ph/Hz	115V /1/ 60
Enclosure	1 - TEFC
NEC FLA*	5.8
Weight+ (lbs)	30

* NEC FLA - based on tables 430.248 or 430.250 of National Electrical Code 2014. Actual motor FLA may vary depending on motor manufacturer.
+ Motor weight may vary depending on supplier

SOUND POWER

OCTAVE POWER CENTER FREQUENCY (hz)

63	125	250	500	1000	2000	4000	8000
72	74	66	59	55	48	43	40

LWA	dBA	Sones
63	51.9	6.38

LwA - Weighted sound power, based on ANSI S1.4, dBA - Weighted sound pressure, based on 11.5 dB attenuation per Octave band at 5 ft. Sones - calculated using AMCA 301 at 5 ft.



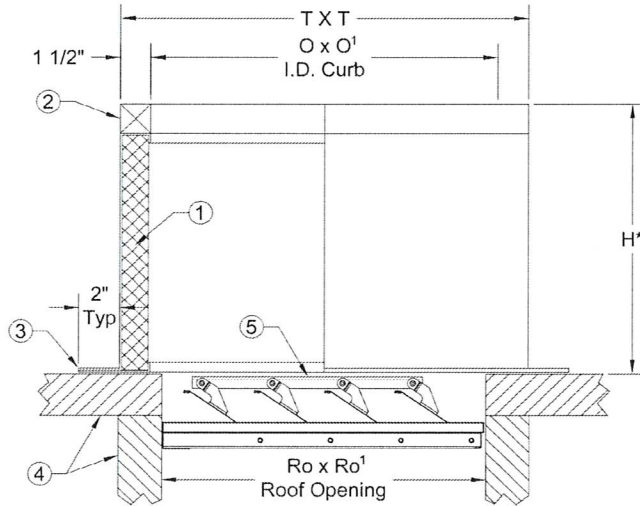
Roof Curb

Prefabricated Roof Curbs

Quantity: 1
Special: None

Product Image

Roof Curb



- Curb Model: UG14
- Heavy-gauge steel with welded corner seams shall cover 1-1/2" thick 3 lb. density fiberglass insulation.
- A 1-1/2" wide wood nailer (Unibeam) with top surface is provided for fan installation and/or roofing paper.
- Flat (single or double pitch optional) curb fastening flange shall be Cantless.
- Optional vented sides available without fiberglass insulation.

Model Parent	T	T'	O	O'	H	Ro	Ro'
FX08B	23.25	23.25	20.25	20.25	14	16	16

Options or Accessories Listing

Style F - Flat
Material G - Galvanized

Height 14
Wood Nailer W - Wooden Nailer

Schedule

ID	Quantity	Tag
1	1	EF-K1

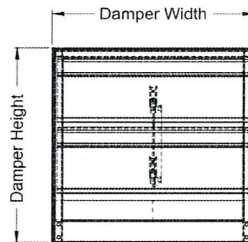
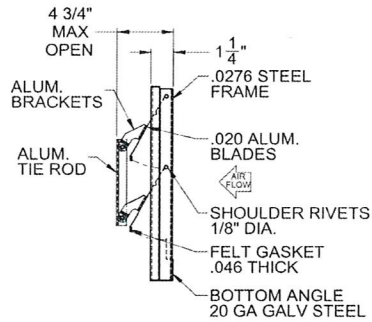
Damper

Quantity: 1
Special: None

Control or General with various blade type dampers

Product Image

Damper



- Sensitive and responsive to low velocities up to 1500 FPM range.
- Square galvanized steel frame,
- Multi-leaf, roll formed aluminum blades; with
- Nylon bearings; and
- Felt Edges for quiet operation

Model Parent	Size	Part Number	Height	Width	No Blades	No Sections
FX08B	19	25006-0	15.75	15.75	3	1

Options or Accessories Listing

Application E - Exhaust
Damper Type BD - Backdraft Damper
Damper Material A - Aluminum

Blade Action 1 - Parallel
Flange 0 - None
Coating 0 - None

Schedule

ID	Quantity	Tag
1	1	EF-K1