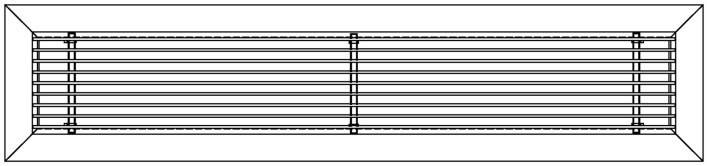
LBMH Linear Bar Grille - Extra Heavy Duty Mandrel Construction



Nom Length (in inches) : 24.000

Nom Width (in inches) : 3.000

End Conditions:

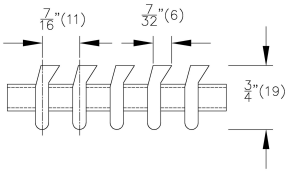
XX Both Mitred Ends

Finish:

AC Clear Anodized

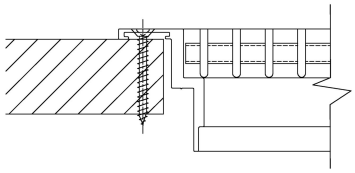
Core

26C 15° Deflection - 7/32" Bars - 7/16" On Center Spacing



Fastening

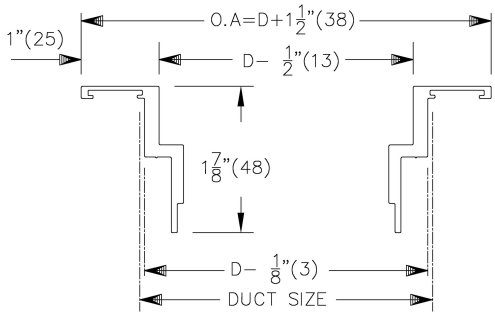
A Countersunk Screw holes



- For ceiling, wall, & sill application. Available with borders 1000, 1250.

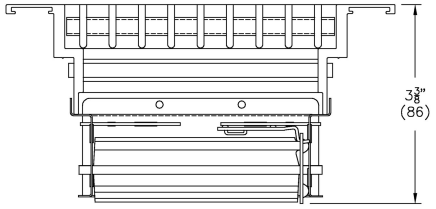
Border

1000 1" (25) Border



Accessories Included

VCS3



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

Notes

- Extruded aluminum construction
- Core fixed in place with core clips
- Sections can be joined for continuous appearance
- Factory tolerance: ± 1/32" (1) per grille section
- Units wider than 24" require additional structural support designed and installed by others
- Bars are parallel to the first dimension
- Maximum section length is 72"
- Screw mounting holes per factory standard
- Maximum single unit width is 48"
- LBMH is not designed to withstand loads from mechanical equipment such as carts, forklifts, etc.

PROJECT: Webster University - Interdisciplinary Science Building **SUBMITTAL NO:** 258173-E-1 **SUBMITTAL DATE:** 11/23/2016
ENGINEER: Cannon Design **CUSTOMER:**
DESCRIPTION: Heavy Duty Linear Bar Grille
LBMH//I/24.000/3.000/26C/1000///XX/3/A//AC

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All metric dimensions () are soft converted. Imperial dimensions are converted to metric and rounded to the nearest millimeter.
Information within this document is subject to change without notice.

price®

All-In-One
Grilles/Registers/Diffusers

Tag	Model	Panel Size	Unit Size	Finish	Description
1	SPD	12, 12	6	B12 - White Powder Coat	Square Plaque Diffuser-Steel
2	SPD	12, 12	6	B12 - White Powder Coat	Square Plaque Diffuser-Steel
3	SPD	12, 12	8	B12 - White Powder Coat	Square Plaque Diffuser-Steel
4	SPD	24, 24	6	B12 - White Powder Coat	Square Plaque Diffuser-Steel
5	SPD	24, 24	8	B12 - White Powder Coat	Square Plaque Diffuser-Steel
6	SPD	24, 24	10	B12 - White Powder Coat	Square Plaque Diffuser-Steel
7	SPD	24, 24	12	B12 - White Powder Coat	Square Plaque Diffuser-Steel
8	SPD	24, 24	14	B12 - White Powder Coat	Square Plaque Diffuser-Steel
9	SPD	24, 24	15	B12 - White Powder Coat	Square Plaque Diffuser-Steel
10	SDS100	--	48.000, 1	B12 - White Powder Coat	Linear Slot Supply, 1" Slot
10 - Plenum	SDBI100	4x7 (6" Round Equivalent)	48, 1	--	Insulated Square Shoulder Plenum For SDS100
11	SDS100	--	48.000, 2	B12 - White Powder Coat	Linear Slot Supply, 1" Slot
11 - Plenum	SDBI100	4x10.125 (8" Round Equivalent	48, 2	--	Insulated Square Shoulder Plenum For SDS100
12	SDS100	--	48.000, 3	B12 - White Powder Coat	Linear Slot Supply, 1" Slot
12 - Plenum	SDBI100	10	48, 3	--	Insulated Square Shoulder Plenum For SDS100
13	SDS100	--	48.000, 4	B12 - White Powder Coat	Linear Slot Supply, 1" Slot
13 - Plenum	SDBI100	10	48, 4	--	Insulated Square Shoulder Plenum For SDS100
14 - Damper	520D	Unit Size + 1-1/4"	Per Plans	B12 - White Powder Coat	Louvered Steel Dbl Deflec Reg W/Damp, 3/4" Spacing
14 - No Damper	520	Unit Size + 1-1/4"	Per Plans	B12 - White Powder Coat	Louvered Steel Double Deflect Grille, 3/4" Spacing
15	620D	Unit Size + 1-1/4"	Per Plans	B12 - White Powder Coat	Louvered Alum Dbl Deflec Regis W/Damp,3/4" Spacing
16	LBMH	Unit Size + 1" Frame	24.000, 3.000	AC - Clear Anodized	Heavy Duty Linear Bar Grille
17	FRFDA	24, 24	10	B12 - White Powder Coat	Flush Face Radial Flow Diffuser
A	80	Unit Size + 1-1/4"	22.000, 10.000	B12 - White Powder Coat	Egg Crate Grille, 1/2" X 1/2" X 1/2"
B	80	Unit Size + 1-1/4"	22.000, 22.000	B12 - White Powder Coat	Egg Crate Grille, 1/2" X 1/2" X 1/2"
C	530D	Unit Size + 1-1/4"	Per Plans	B12 - White Powder Coat	Steel Return Regist W/Damp,45° Blades,3/4" Spacin
D	630D	Unit Size + 1-1/4"	Per Plans	B12 - White Powder Coat	Alum Return Grille W/Damp,45° Blades, 3/4" Spacing
E	530D	Unit Size + 1-1/4"	Per Plans	B12 - White Powder Coat	Steel Return Regist W/Damp,45° Blades,3/4" Spacin
F	530D	Unit Size + 1-1/4"	Per Plans	B12 - White Powder Coat	Steel Return Regist W/Damp,45° Blades,3/4" Spacin

WM TAO & ASSOCIATES
CONSULTING ENGINEERS

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: December 16, 2016

Attention: **stl-cac@cannondesign.com**

Contact Person / WTA Field Inspector: Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Mike Nolte

Project No. WT 14127.01

[ ] UPS [ ] Courier [X] **Email**

Copies	No.	Description
1 PDF	238800M08	(Submittal No.'s:) (~~R&B CxSRC~~)
		(Cannon #238800-11) - (Paric #15051-0370) – (WES #607)
		➢ **Air Distribution – Price Air Devices**

Submittal Review Comments

1. **Confirm device quantities.**
2. **Verify ceiling construction with frame types.**

c: **Kelvin Patel**
Kpatel@cannondesign.com

[ ] Furnish as Submitted [X] ***Furnish as Noted**

[ ] Rejected [ ] Revise & Resubmit

[ ] Reviewed [ ]

Corrections or comments made on shop drawings during this review do not relieve contractor from compliance with requirements of drawings and specifications. This check is only for review of general conformance with the design concept of project and general compliance with information given in contract documents. Contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

141270.01 - 238800 M08
MTN TO REVIEW
12/07/16

WTASHOP - Webster ISB - 23 8800-011

From: STL-CAC <STL-CAC@CANNONDESIGN.COM>
To: 'Patrick Garner' <pgarner@wmtao.com>, "WTASHOP (WTASHOP@wmtao.com)" <WTA...
Date: 12/7/2016 2:02 PM
Subject: Webster ISB - 23 8800-011
Cc: "Patel, Kelvin" <kpatel@CANNONDESIGN.COM>
Attachments: 238800-011 Air Distribution Devices Product Data.pdf

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Attached for review.

Melissa Pirtle

CANNONDESIGN

1100 Clark Ave
St. Louis, Missouri 63102
T 314.425.8797
cannondesign.com

CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

Joe Voypick
SUBMITTED BY

238800-011
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

238800
SPECIFICATION SECTION / PARAGRAPH

Icon Mechanical
MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

◯ CRITICAL

ITEM BEING SUBMITTED (check only one)

- ◯ Shop Drawings
- ◯ Samples (_____ copies)
- ◯ LEED Submittal
- ◯ Certification / Qualifications
- ◯ Record Documents
- ◉ Product Data
- ◯ Coordination Drawing
- ◯ Calculations
- ◯ Schedules
- ◯ O&M Manuals
- ◯ Other _____

ITEM BEING SUBMITTED FOR (check only one)

◉ Action ◯ Information Only ◯ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)

PARIC

PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

Joe Voypick
REVIEWED BY

12/6/16
DATE

To be completed by Reviewer

23 8800-011
CANNON DESIGN SUBMITTAL NUMBER

12/6/16
RECEIVED DATE

- ◯ A. No Exceptions Taken
  No further review of submittal is required.
- ◯ B. Make Corrections Noted
  Incorporate corrections in work; resubmission is not required.
- ◯ C. Revise and Resubmit
  Revise as noted, and resubmit for review.
- ◯ D. Rejected
  Submittal is not in compliance with Contract Documents; provide new submittal.
- ◯ E. For Record / Information Only
  Submittal was reviewed for Record / Information purposes only.
- ◯ F. Not Required for Review
  Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS ◯ See attached sheet(s) for additional comments

REVIEWED BY

DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0370

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 12/06/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

Fax;
314-241-2203

RE: Air Distribution Devices Product Data

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☑ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	**SENT VIA:**	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☑ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		238800-011	1		12/06/2016	Air Distribution Devices Product Data	Submitted

NOTES:

CC:

Signed: _____

Devin Gates

Mechanical

LETTER OF TRANSMITTAL

TO: Paric Corporation
77 West Port Plaza #250
St. Louis, MO 63146

ATTN: Jason Szachnieski, Devin Gates

DATE: 12/1/16
JOB # : 5768
RE: Webster ISB

We are sending you
( ) Attached ( ) Under separate cover
(X) Shop drawings ( ) Prints ( ) Plans ( ) Samples ( ) Specifications
( ) Copy of letter ( ) Change order ( ) Other

COPIES	DATE	NO.	DESCRIPTION
1	12/1/16	238800-2.9	Air Distribution Devices

These are transmitted as checked below:

( ) For signature ( ) Approved as submitted ( ) Resubmit ( ) copies for approval
( ) For your use ( ) Approved as noted (X) Submit ( ) copies for distribution
( ) As requested ( ) Returned for corrections ( ) Return ( ) corrected prints
( ) For bids due ( ) Prints returned after loan to us
(X) For review and comment ( ) Other

Remarks: Please return by 12/13/16

Scheduled 5" and 7" have been adjusted to 6" and 8" as these are standard duct and air device sizes.

COPY TO: file

SIGNED: Alex Chambers

Webster University ISB
Webster Groves, MO

Submittal #:	238800-2.9
Submittal Description:	Air Distribution Devices
Return By:	12/13/16

Please Note: To avoid scheduling delays and equipment release delays, please submit by the "Return By" date.

CHECKED BY:

DESIGNER: X ENGINEER: X

X	NO EXCEPTION TAKEN		MAKE CORRECTIONS NOTED
	SUBMIT SPECIFIED ITEM		REVISE AND RESUBMIT
	REJECTED		

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Equipment supplier is responsible for: dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and satisfactory performance of his work.

Job #:	5768
Date:	12/1/16
By:	ARC

Grilles/Registers/Diffusers Submittals

Job Name: Webster University - Interdisciplinary Science Building
Job Location: St. Louis, MO
Engineer: Cannon Design
Contractor: icon Mechanical
Date Printed: 11/23/2016

Contact: Jake Norrenberns
13836 PARKS STEED DRIVE
EARTH CITY, MO 63045

Phone: 618-363-4441
Email: jake@kuhlmannsupply.com