

### 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: 10/6/2022 Return Request: 10/16/2022 Project: ATU – Jones Hall Supplier: Knight & Wilson Manufacturer: Titus Submittal: Air Inlets & Outlets Submittal Number: 23 37 00-01 Drawing # and Installation: Mechanical Drawings

#### **ARCHITECT**

SCM Architects 1400 Kirk Rd. Suite 220 Little Rock, AR 72223 501-224-3055

#### **GENERAL CONTRACTOR**

Alessi Keyes Construction 10623 Maumelle Blvd. N. Little Rock, AR 72113 501-225-6699

Notes:

#### ENGINEER

Pettit & Pettit 201 E. Markham, Suite 400 Little Rock, AR 72201 501-374-3731

#### **MECHANICAL SUBCONTRACTOR**

Comfort Systems USA (Arkansas), Inc. 9924 Landers Rd. N. Little Rock, AR 72117 501-834-3320

CSUSA PROJECT NO. 22-620 sean@comfortar.com

ALESSI KEYES CONSTRUCTION REVIEWED FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS Charley Dawson 10/11/2022

> 9924 Landers Rd. No. Little Rock, AR 72117



BUILDING HVAC, CONTROLS, & SERVICE

# IOM

**ATU - Jones Hall** 

Powers of Arkansas 5440 Northshore Drive North Little Rock, AR 72118

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Powers of Arkansas 5440 Northshore Drive North Little Rock, AR 72118



# IOM

PRODUCT	Gravity Roof Ventilator GV-1 ALT
MANUFACTURER	Loren Cook
JOB NAME	ATU - Jones Hall
LOCATION	Russellville, AR
ENGINEER	Pettit & Pettit
CONTRACTOR	Knight & Wilson
DATE	12/11/2023
SUBMITTED BY	Chris Atwood

5440 Northshore Drive - North Little Rock, Arkansas 72118 - Tel: 501.374.5420 Fax: 501.370.9298



## INSTALLATION, OPERATION AND MAINTENANCE MANUAL

This publication contains the installation, operation and maintenance instructions for standard units of the *GI/GR: Gravity Ventilators.* 



# Carefully read this publication and any supplemental documents prior to any installation or maintenance procedure.

Loren Cook catalog, *Gravity Ventilation*, provides additional information describing the equipment, unit performance, available accessories and specification data.

For additional safety information, refer to AMCA Publication 410-96, *Safety Practices for Users and Installers of Industrial and Commercial Fans.* 

All of the publications listed above can be obtained from:

- lorencook.com
- info@lorencook.com
- 417-869-6474 ext. 166

For information and instructions on special equipment, contact Loren Cook Company at 417-869-6474.

## **Receiving and Inspection**

Immediately upon receipt of a GI/GR unit, carefully inspect it for damage and shortage.

- Check dampers (if supplied) for free operation of moving parts.
- Record on the Delivery Receipt any visible sign of damage.

### Handling

Lift the unit by the lifting lugs (refer to *Figure 4*). **NOTICE! Never lift by the hood or end panels.** 

## Storage

If the unit is stored for any length of time prior to installation, store it in its original shipping crate and protect it from dust, debris and the weather.

## **Installation**

### **Standard Units**

Standard units not requiring knock down are shipped fully assembled and ready for installation.



## 

**GI/GR** 

Gravity Vents

The attachment of roof mounted fans to the roof curb as well as the attachment of roof curbs to the building structure must exceed the structural requirements based on the environmental loading derived from the applicable building code for the site. The local code official may require variations from the recognized code based on local data. The licensed engineer of record will be responsible for prescribing the correct attachment based on construction materials, code requirements and environmental effects specific to the installation.

Failure to follow these instructions could result in death or serious injury.

### **Knockdown Units**

All knocked down units are factory pre-assembled and then disassembled for shipping. Reassemble by aligning holes and bolting together. Parts are marked as to allow for ease of reassembly.

Reassembling the hood is best done from the underneath side. To work on the hood it is recommended to turn the hood upside down on two wooden four by fours, this will prevent it from rocking during assembly. Attach the hood sections together by the overlapping joining seams (see *Figure 5*). Make sure the upper sean is overlapping the lower seam along their entire length. A slight tap with a rubber mallet or dead blow hammer maybe required. Align holes and use the provided section rail splice and bolts to secure the hood section(s) together (see *Figure 3*).

For units with birdscreen, first completely assemble the hood. Then fasten birdscreen securely to the inside of the section rail, (see *Figure 1*), using speed screws (A) and washer (B) stretching the birdscreen (C) as tight as possible. For units with aluminum birdscreen, the washers are replaced with 1" aluminum strips at the factory. On units with filters and birdscreen, the bird screen should extend across the throat, not hindering the filter placement (see *Figure 4*).

For units with a two piece mounting channel, insert the mounting channel splice between the two pieces of the mounting channel, aligning the holes (see *Figure 3*). Fasten the three pieces of the mounting channel assembly to the base using the bolts and nuts provided.

For units with multiple base sections: securely fasten the base sections through the base section splice brackets welded to the base sections using the bolts and nuts provided (see *Figure 3*). To eliminate the possible egress of water through the base splices, caulking is recommended.

To attach the base and hood sections: set the assembled hood on the assembled base, aligning the mounting bracket holes with the holes in the section rails. Units with support angles require the support angles to be bolted to the base, using the bolts and nuts provided.

#### Figure 1



## **Maintenance**

### Hood Access

To access the throat of the unit, take the entire hood off by removing the bolts and attaching the mounting bracket to the mounting channels (see *Figure 4*). GR units with less than a 73" throat length and GI units with less than a 61" throat length can be hinged. Hinging is accomplished by removing the bolts on one side and loosening the two bolts (refer to *Figure 2*) on the other side. Care should be taken when hinging the hood, especially in high wind conditions.



### Filters

Filters are installed between the base and the hood panels (see Figure 4). The filters should come in two sizes. One size fits between the end panel and the base. The other size is mounted between the base and the section rail. Filter inspection and cleaning intervals can vary from once a week to twice per year depending on contaminant present and acceptable pressure drops across the filter. Under most conditions filters may be cleaned with hot water and a mild soap solution (such as dish washing liquid) or steam. Some caustic cleaners will damage the filter. If in doubt, please consult the factory for a compatibility list. High pressure spray washers should be limited to 2,000 PSI operating pressure. Every attempt should be made to remove the contaminants from the filter in a "backwash" flow (NOTE: airflow arrow on the filter frame). Once the filter is dry, it may be returned to the appropriate filter racks in the same orientation (airflow direction) as they were removed.





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2 3

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А

В

С



### Limited Warranty

Loren Cook Company warrants that your Loren Cook fan was manufactured free of defects in materials and workmanship, to the extent stated herein. For a period of five (5) years after date of shipment, we will replace any parts found to be defective without charge, except for shipping costs which will be paid by you. This warranty is granted only to the original purchaser placing the fan in service. This warranty is void if the fan or any part thereof has been altered or modified from its original design or has been abused, misused, damaged or is in worn condition or if the fan has been used other than for the uses described in the company manual. This warranty does not cover defects resulting from normal wear and tear. To make a warranty claim, notify Loren Cook Company, General Offices, 2015 East Dale Street, Springfield, Missouri 65803-4637, explaining in writing, in detail, your complaint and referring to the specific model and serial numbers of your fan. Upon receipt by Loren Cook Company of your written complaint, you will be notified, within thirty (30) days of our receipt of your complaint, in writing, as to the manner in which your claim will be handled. If you are entitled to warranty relief, a warranty adjustment will be completed within sixty (60) business days of the receipt of your written complaint by Loren Cook Company. This warranty gives only the original purchaser placing the fan in service specifically the right. You may have other legal rights which vary from state to state.



# LOREN COOK COMPANY

Corporate Offices: 2015 E. Dale St. Springfield, MO 65803 Phone 417-869-6474 | Fax 417-862-3820 | lorencook.com



# IOM

PRODUCT	Cable Dampers
MANUFACTURER	Pottorff
JOB NAME	ATU - Jones Hall
LOCATION	Russellville, AR
ENGINEER	Pettit & Pettit
CONTRACTOR	Knight & Wilson
DATE	12/11/2023
SUBMITTED BY	Chris Atwood

5440 Northshore Drive - North Little Rock, Arkansas 72118 - Tel: 501.374.5420 Fax: 501.370.9298

# **POTTORFF**<sup>®</sup>

The following installation details apply to models RCS-10, RCS-10R, and RCS-42



- 1. Install damper in duct as required.
- 2. Untape RCS-10, 10R, or 42 Cable assembly. Place RCS-10, 10R, or 42 where it is going to be mounted.
- 3. Screw or nail the mounting bracket to ceiling stud. Set depth (D) at correct level for ceiling thickness.
- 4. Support cable sleeve with plastic clips as necessary to prevent twisting.
- 5. Cut drywall or tile to fit tight to <sup>15</sup>/<sub>16</sub>" plastic tubing.
- 6. Cover plastic tubing with finishing plug.
- 7. Caution do not cover operating assembly with any type of duct insulation.
- NOTE: RCS-10, 10R, or 42 comes completely assembled. Includes damper, cable and remote control assembly.

Remote Control Dampers IIRCS June 2008



# IOM

PRODUCT	Fire Dampers
MANUFACTURER	Pottorff
JOB NAME	ATU - Jones Hall
LOCATION	Russellville, AR
ENGINEER	Pettit & Pettit
CONTRACTOR	Knight & Wilson
DATE	12/11/2023
SUBMITTED BY	Chris Atwood

5440 Northshore Drive - North Little Rock, Arkansas 72118 - Tel: 501.374.5420 Fax: 501.370.9298

# **POTTORFF**<sup>®</sup>

#### **Maintenance**

Dampers do not typically require maintenance provided they are kept clean and dry. All moving parts are self-lubricating and additional lubrication is not required. If additional lubrication of multi-blade damper axle bearings, jackshaft bearings or jamb seals is desired, use a silicone or dry graphic lubricant. **Do not use petroleum-based lubricants or other lubricants that attract contaminants and collect dust.** 

Regular inspection and maintenance is essential to ensure that life-safety systems will perform as intended during emergencies. Dampers shall be cycled and tested in accordance with NFPA 90 recommendations and local codes.

#### **Operational Testing**

#### Simulated Fire Closure

• Non-Spring Assisted Dampers

Operate the damper by removing the fusible link (or by 'melting' the fusible link with a heat source) and allowing the blades to drop or close naturally. <u>CAUTION</u> - Avoid injury - keep clear of blade travel path. Lift the blade package to the top of the damper to reopen and replace the fusible link. Take care not to rack, deform or damage the blades while reopening.

• Dynamic Rated OR Spring Assisted Dampers

Due to spring assisted closure force, removing the fusible link is NOT recommended as a means of closure testing. Instead, when testing is required, 'melt' the fusible link with an appropriate heat source and allow the blades to close automatically. **CAUTION** - Avoid injury - Keep clear of blade travel path. Lift the blade package to the top of the damper to reopen and replace the fusible link. Take care not to rack, deform or damage the blades when reopening.

Reopening Spring Assisted OR Dynamic Rated Fire Dampers may be very difficult and in some cases impossible. If the damper is deemed impossible or impractical to test or reopen, then a thorough examination of the blade travel path is required to insure that nothing will prevent the damper from closing. Common obstructions include: retaining angle installation screws, racked damper frames, construction debris and contaminants.

## <u>CAUTION</u> - Testing Spring Assisted OR Dynamic Rated Fire Dampers under airflow conditions is not recommended and may severely damage or destroy duct work.

### **Troubleshooting Guide**

Problem	Possible Cause	Solution
Damper does not open and/or close fully	Installation screws interfering with damper blade or linkage travel	Inspect and remove interfering screws or debris
	Frame is 'racked' causing blades to bind	Adjust frame to be square and plumb
	Contaminants on damper	Clean with compressed air, mild detergent or mild non-petroleum based solvent
Fusible link is separated	Excessive heat	Replace link. <u>Note:</u> If the damper is installed near a heat source (heat exchanger, burner, furnace, etc.) higher temperature links may be required to prevent unwanted closure.



## REVIEW OF MECHANICAL SUBMITTALS

Project:Arkansas Tech University – Jones HallLocation:Russellville, ArkansasDate of Receipt:Tuesday, October 11, 2022Date of Review:Thursday, October 20, 2022Reviewed by:Adam KellyEmail:akelly@pettitinc.com

P&P Job No. 21-108

Heam Keller Signed:

Checking is for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. The Contractor is responsible for dimensions to be confirmed and correlated at the job site; for information that pertains solely to the fabrication processes or to techniques of construction; and for coordination of the work of all trades.

Item	Approval Status		Comments
Section 23 37 00 – Air Duct Accessories	Approved as Corrected	0	<ul> <li>Contractor shall verify all sizes and quantities.</li> <li>Final finish shall be as per architect. Provide manufacture's color chip chart to architect for final color selection prior to ordering.</li> <li>Field fabricated plenums shall be continuously insulated and adequately tall for connection of duct sizes shown on plans.</li> <li>Contractor to provide continuous insulation blanket a top of all supply air and return air devices.</li> <li>Contractor shall coordinate exact placement with architect's plans.</li> <li>Coordinate proper air device selection for all locations with gyp-board ceiling.</li> <li>Contractor to coordinate with architectural RCP to verify the correct border and mounting type is provided.</li> <li>In reference to the note on page 6, the OBD may be omitted if the damper at the run out isn't readable accessible. i.e. for air device in crawlspace.</li> </ul>





# SUBMITTAL

Air Devices

Titus

MANUFACTURER

**JOB NAME** 

**LOCATION** 

**ENGINEER** 

CONTRACTOR

DATE

Knight & Wilson

Pettit & Pettit

ATU - Jones Hall

Russellville, AR

9/19/2022

Chris Atwood **SUBMITTED BY** 

5440 Northshore Drive - North Little Rock, Arkansas 72118 - Tel: 501.374.5420 Fax: 501.370.9298

Schedule



Date/Time: 09/16/2022 14:37:12 Job: ATU Jones Hall Renovs Project: Customer: Sales Person: Chris Atwood

Current Version: 2014.0.538 Modified Version: 2014.0.538 Created by: catwood@powersar.com

mments					
y Coi					
Accessor 3	NONE	NONE	NONE	NONE	
Accessory 2	NONE	NONE	NONE	NONE	
Accessory 1	NONE	NONE	NONE	NONE	
Damper/Miter Type	AG-35 - STEEL OBD	AG-35 - STEEL OBD	AG-35 - STEEL OBD	AG-35 - STEEL OBD	
Fastening/Throw	N - NO SCREW HOLES	N - NO SCREW HOLES	A - SCREW HOLES	A - SCREW HOLES	
Finish	95 - MEDIUM BRONZE ANODIZE	95 - MEDIUM BRONZE ANODIZE	26 - WHITE	26 - WHITE	
Border	FRAME 5	FRAME 5	BORDER 14 (WITHOUT C FASTENING)	BORDER 14 (WITHOUT C FASTENING)	
End Border/Module Width/Angle	XX - TWO END BORDERS	XX - TWO END BORDERS	XX - TWO END BORDERS	XX - TWO END BORDERS	
Slots/Width	ε	6	4	6	
Length	72	48	72	72	
Tag	2 LD-	2 2	- 1 4	4 LD	
Quantity	m	2	1	-	
Model	CT- PP-0	CT- PP-0	CT- PP-0	CT- PP-0	

Model	Quantity	Tag	Length	Slots/Width	End Border/Module Width/Angle	Border	Finish	Fastening/Throw	Damper/Miter Type	Accessory 1	Accessory 2	Accessory 3	Comments
ML- 39	10	3 ID-	59	7 SLOTS	XX - TWO END BORDERS	1B - DUCT MOUNT	26 - WHITE			NONE	NONE	NONE	
ML- 39	-	3 3	12	7 SLOTS	XX - TWO END BORDERS	1B - DUCT MOUNT	26 - WHITE			NONE	NONE	NONE	

Page 4 of 63

Page 1 of 3 M:\Air Distributic

Job Name: A. Jones Hall Renovs

3

Comments		
Accessory 3		
Accessory 2	STRAIGHT	STRAIGHT
Accessory 1 / Configuration	XX - TWO END BORDERS	XX - TWO END BORDERS
Damper	0 - NONE	0 - NONE
Finish		
Border	1B - DUCT MOUNT	IB - DUCT MOUNT
Module		
Plenum Inlet	00 - No Inlet	00 - No Ihlet
Width/Throw		
Slots	7LP - 7 SLOT LOW PROFILE	7LP - 7 SLOT LOW PROFILE
Length	60 INCHES	72 INCHES
Tag	3 ID-	3 LD-
Quantity	10	1
Model	MPI- 39	MPI- 39

MLR- 4 LR- 72 5 SLOTS XX - TWO 2A - 26 - 39 39 1 BORDERS MOUNT 2A - 26 - 72 10 CONCEALED WHITE	Model	Quantity	Tag	Length	Slots/Width	End Border/Module Width/Angle	Border	Finish	Fastening/Throw	Damper/Miter Type	Accessory 1	Accessory 2	Accessory 3	Comments
	MLR- 39	4	- LR-	72	S SLOTS	XX - TWO END BORDERS	2A - CONCEALED MOUNT	26 - WHITE			NONE	NONE	NONE	

e	Quantity	Tag	Width	Height	Module	Border	Fastening	Finish	Damper	Accessory - 1	Accessory - 2	Accessory - 3	Comments
	7	1 民	10	10	12X12	3 - LAY-IN	N - NO SCREW HOLES	26 - WHITE	AG-15 - STEEL OBD		NONE	NONE	
	38	ER- 1	10	10	12X12	3 - LAY-IN	N - NO SCREW HOLES	26 - WHITE	AG-15 - STEEL OBD		NONE	TRM - Rapid Mount Frame- Ahml	
1 L													
	Quantity	Tag	Width	Height	Module	Border	Fastening	Finish	Damper	Accesso - 1	ry Access	ory Accessory -3	Comments

63
of
5
8
Pa

NONE

NONE

NONE

AG-15 -STEEL OBD

26 -WHITE

A - SCREW HOLES

1 - SURFACE MOUNT

NONE

9

00

- <u>B</u>G

-

350RL

Page 2 of 3 M:\Air Distributic

Job Name: 1. J Jones Hall Renovs

E
ION
NONE
NONE
AG-15 - STEEL OBD
26 - WHITE
A - SCREW HOLES
1 - SURFACE MOUNT
NONE
9
10
EG-
-
350RL

\*\* Plenums for Floor and Sidewall grilles would need to be field fabricated. \*\* Linear Bar grilles (TAG: LBD-2, LBD-4) are furnished with OBD per schedule. The OBD may need to be omitted if the intent is for air balancing to be done via an additional remote damper regulator accessible from the face of these grilles. Page 6 of 63



Project

Architect

Engineer

Contractor

**Designation LD-2** 

ATU Jones Hall Renovs

Date09/16/2022OfficePowers of ArkansasPreparerChris AtwoodVersion2014.0.538

# CT-PP-0

Linear bar diffuser, 7/16" bar spacing, 7/32" bars (pencil proof) 0 degree deflection, Aluminum



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Architect Engineer Contractor



Date 09/16/2022 Office Powers of Arkansas Preparer Chris Atwood Version 2014.0.538

CTPP0-1

CTPP0-1

Designation LD-2

Main	Product /	(continued)	
VICILI	Floudel	continueu)	

Duct Width (D)	Frame OA Width	Diffuser OA Width
3	4.625	2.625
6	7.625	5.625

#### **General Description**

TITUS linear bar diffusers are designed for both supply and return applications.

Standard lengths are 1, 2, 3, 4, 5 and 6 feet, furnished as complete, welded assemblies.

- Lengths greater than 6 feet are furnished in multiple sections, the number and size determined by the factory.

· Sections can be joined end-to-end for continuous appearance, using standard alignment strips or alignment pins.

All deflection bars are fixed and are parallel to the long dimension.

Fixed Bars are extruded aluminum.

ption Sch	edule	1.11			CTPP0-1
ID	Quantity	Tag	LINEAR LENGTH INCHES	WIDTH IN INCHES	
1	3	LD-2	72	3	
2	2	LD-2	48	6	

FINISH 95 - MEDIUM BRONZE ANODIZE FASTENING N - NO SCREW HOLES

ACCESSORY 2 NONE ACCESSORY 3 NONE



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Project

Architect

Engineer

Contractor

**Designation LD-3** 

ATU Jones Hall Renovs

 Date
 09/16/2022

 Office
 Powers of Arkansas

 Preparer
 Chris Atwood

 Version
 2014.0.538

## ML-39

ModuLinear supply diffuser with a 1" slot, Aluminum.



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#### **General Description**

- Standard Finish: #26 White border, Black pattern controllers.
- Standard lengths of diffuser sections are 12", 24", 36", 48", 60" and 72".
- Lengths greater than 72" are furnished in multiple sections, the number and size determined by the factory.
- · Pattern controllers change direction and volume of air flow. Maximum length is 36". · Pattern controllers are
- furnished in multiple sections for diffuser longer than 36".
- · Mounting frames are cut to length and assembled in the field.
- · Material is extruded aluminum with steel pattern controllers.

ption Sch	nedule			ML39-1
ID	Quantity	Tag	LINEAR LENGTH INCHES	
1	10	LD-3	59	
2	1	LD-3	71	
i	NO OF SLOTS	7 SLOTS XX - TWO ENI	DBORDERS	ACCESSORY 1 NONE ACCESSORY 2 NONE
ML FRAN	IE & BORDER	1B - DUCT MC	DUNT	ACCESSORY 3 NONE

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## **MPI-39**

Insulated plenum for a ModuLinear ML-39.



- Model MP modulinear plenums are tailored for field attachment to ML or MLR modulinear diffusers.
- End caps can be turned up to allow installing the MP on continuous runs of ML diffuser.
- Model MP can be used as supply or return.
- Material: Steel.

Project

Architect

Engineer

Contractor

**Designation** LD-3

ATU Jones Hall Renovs

tion Schedule							
ID	Quantity	Tag	PLENUM LENGTH				
1	10	LD-3	60 INCHES				
2	1	LD-3	72 INCHES				

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09/16/2022 Powers of Arkansas Chris Atwood 2014.0.538

MPI39-1

### **Option Schedule (continued)**

Project

Architect

Engineer

Contractor

Designation LD-3

END BORDER XX - TWO END BORDERS ACCESSORY 2 STRAIGHT

SLOTS/PLENUM HGT 7LP - 7 SLOT LOW PROFILE PLENUM INLET 00 - No Inlet

ML FRAME & BORDER 1B - DUCT MOUNT

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ATU Jones Hall Renovs

Project

Architect

Engineer

Contractor

**Designation LD-4** 

Date 09/16/2022 Office Powers of Arkansas Preparer Chris Atwood Version 2014.0.538

# CT-PP-0

Linear bar diffuser, 7/16" bar spacing, 7/32" bars (pencil proof) 0 degree deflection, Aluminum



**General Description** 

CTPP0-2

- TITUS linear bar diffusers are designed for both supply and return applications.
- Standard lengths are 1, 2, 3, 4, 5 and 6 feet, furnished as complete, welded assemblies.
- Lengths greater than 6 feet are furnished in multiple sections, the number and size determined by the factory.
- \* Sections can be joined end-to-end for continuous appearance, using standard alignment strips or alignment pins.
- <sup>3</sup> All deflection bars are fixed and are parallel to the long dimension.
- Fixed Bars are extruded aluminum.

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Architect Engineer Contractor Designation LD-4 Jones Hall Renovs



Date09/16/2022OfficePowers of ArkansasPreparerChris AtwoodVersion2014.0.538

**Option Schedule** CTPP0-2 ID Quantity LINEAR LENGTH INCHES WIDTH IN INCHES Tag 1 1 LD-4 72 4 2 1 LD-4 72 6 END BORDER XX - TWO END BORDERS DAMPER MODEL AG-35 - STEEL OBD CT FRAME & BORDER BORDER 14 (WITHOUT C FASTENING ACCESSORY 1 NONE FINISH 26 - WHITE ACCESSORY 2 NONE FASTENING A - SCREW HOLES ACCESSORY 3 NONE



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Architect Engineer Contractor Designation LR-1



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## **MLR-39**

ModuLinear Return with a 1" slot, Aluminum.



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Architect Engineer Contractor



Date09/16/2022OfficePowers of ArkansasPreparerChris AtwoodVersion2014.0.538

Designation LR-1

NO OF SLOTS     Cutout Width (D')     OA Diffuser Width (O')       5 SLOTS     9 1/2"     10 1/4"       1 Schedule     MLR39-1	Product (continue	i)		MLR39-1
5 SLOTS 9 1/2" 10 1/4" 1 Schedule MLR39-1	NO OF SLOTS	Cutout Width (	D') OA Diffuser Width (O')	
Schedule MLR39-1	5 SLOTS	9 1/2"	10 1/4"	
	Schedule	Tag		MLR39-1

NO OF SLOTS 5 SLOTS END BORDER XX - TWO END BORDERS ML FRAME & BORDER 2A - CONCEALED MOUNT FINISH 26 - WHITE ACCESSORY 1 NONE ACCESSORY 2 NONE ACCESSORY 3 NONE



 Date
 09/16/2022

 Office
 Powers of Arkansas

 Preparer
 Chris Atwood

 Version
 2014.0.538

50F-1

## 50F

## Eggcrate return, aluminum border and aluminum grid.



#### General Description

Project

Architect

Engineer

Contractor

**Designation ER-1** 

ATU Jones Hall Renovs

- · Insect and debris screens are not available when damper are fitted.
- #8 x 1 1/4" lg. Phillips flat head sheet metal screws painted white.
- All dimensions are ± 1/16"
- Material: Aluminum

n Sch	edule		Di la fai ne la		50F-1
D	Quantity	Tag	WIDTH IN INCHES	HEIGHT IN INCHES	7
1	7	ER-1	10	10	]
η	MODULE SIZE BORDER	12X12 3 - LAY-IN		DAMPER MODEL EGGCRATE CORE	L AG-15 - STEEL OBD E CORE A (BORDER 1 OR 3)
	FINISH	N - NO SCRE	EW HOLES	ACCESSORY 2 ACCESSORY 3	2 NONE 3 NONE
ID	Quantity	Tag	WIDTH IN INCHES	HEIGHT IN INCHES	
2	38	ER-1	10	10	

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Architect Engineer Contractor

Designation ER-1



Date09/16/2022OfficePowers of ArkansasPreparerChris AtwoodVersion2014.0.538

50F-1

**Option Schedule (continued)** 

MODULE SIZE 12X12 BORDER 3 - LAY-IN FINISH 26 - WHITE FASTENING N - NO SCREW HOLES

DAMPER MODEL AG-15 - STEEL OBD EGGCRATE CORE CORE A (BORDER 1 OR 3) ACCESSORY 2 NONE ACCESSORY 3 TRM - Rapid Mount Frame-AlumI



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Architect Engineer Contractor

**Designation ER-1** 



Date 09/16/2022 Office Powers of Arkansas Preparer Chris Atwood Version 2014.0.538

#### Accessories (continued)





 Date
 09/16/2022

 Office
 Powers of Arkansas

 Preparer
 Chris Atwood

 Version
 2014.0.538

350RL-1

## 350RL

Louvered Return Grille, 35º Deflection, 3/4" Spacing, blades parallel to long dimension,

Steel.



#### **General Description**

Project

Architect

Engineer

Contractor

**Designation EG-1** 

ATU Jones Hall Renovs

• Louvers are horizontal to width with 3/4" spacing at a 35 degree deflection.

10

- · Optional opposed blade damper has screwdriver adjustment accessible through face of register.
- Odd and fractional sizes are available at additional cost.
- Sizes larger than 48" x 48" are shipped in multiple sections with joining strips for field assembly.
- Srcew hole fastening includes #8 x 1 1/4" Ig. Phillip's flat head sheet metal screws painted color of grille.
- Wall or duct opening should be duct size ± 1/8".

EG-1

- All dimensions are ± 1/16"
- Material: Steel

1

Option Sch	edule				350RL-1
	Quantity	Tog			6
	Quantity	Tag	WIDTH IN INCHES	HEIGHT IN INCHES	
1	1	EG-1	8	6	

6

2

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Architect Engineer Contractor

**Designation EG-1** 

Redefine your comfort zone."

Date 09/16/2022 Office Preparer Version

Powers of Arkansas Chris Atwood 2014.0.538

350RL-1

**Option Schedule (continued)** 

MODULE SIZE NONE BORDER 1 - SURFACE MOUNT FINISH 26 - WHITE FASTENING A - SCREW HOLES

DAMPER MODEL AG-15 - STEEL OBD ACCESSORY 1 NONE ACCESSORY 2 NONE ACCESSORY 3 NONE

Damper: AG-15 common drawing, see above for selected material and finish	Accessories	350RL-1	
	Accessories Damper: AG-15 common drawing, see above for selected material and finish	350RL-1	

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# Dace Mfg.

SUBMITTAL SQUARE TO ROUND ADAPTOR **JAN 2015** 

MODEL: SRA

TAG: "ER-1"

# SQUARE TO ROUND

## PURPOSE DESCRIPTION

The SQUARE TO ROUND ADAPTOR is used to provide make high efficiency takeoffs on sheet metal duct.

## CONSTRUCTION

- 1. Standard body material is 28 gauge galvanized steel.
- 2. Body depth is in one inch increments, exact size.
- Collar height is 2 3/8" standard
   3" optional height
- 4 Nominal diameter is -1/8"-1/4".
- 3. The body and barrell are fastened with spotwelds and or mechanical locks.
- 4. The ring / collar has a cinching groove for optimal flex duct retention.

## MATERIAL OPTIONS

26, 24, 22 gauge galvanized steel Aluminum Stainless steel

## **PAINT OPTIONS**

Black or white baked enamel (high quality)



## SHOWN HERE: SRA 18 X 18 X 16— 2 (open corners)

STANDARD CONSTRUCTION 1" depth - open corners 2" depth—open corners 3" depth and greater— closed corners