

Submittal Comments

Item No: 233713.01
(CSI No:)

Item
Descript: Diffusers, Grilles, & Registers

Re: **Submittal** Comments
Cascade Science Lab Renovation
2008-046.CSL 8.3

Architecture
Engineering
Technology
Interior Design
Landscape Architecture

Wil-Fra-Mar Building
320 East Vermont Street
Indianapolis IN 46204-1640
317.263.6226
317.263.6224 (fax)
www.schmidt-arch.com

Reviewed and checked only for conformance with design concepts and with the information given in the Contract Documents. Approval does not release the Contractor from the responsibility to provide appropriate quantities, field measurements, dimensional stability, installation, anchorage, and coordination with other trades or release the Contractor from responsibility for deviations from the requirements of the Contract Documents or from responsibility for errors and omissions contained thereon.

	Reviewed as Submitted - No Resubmittal Required.
XX	Reviewed as Noted - No Resubmittal Required.
	Reviewed as Noted - Revise and Resubmit.
	Rejected - Revise and Resubmit.
	Not Required for Review - Returned.
By: Lennie Brim	
Date: May 6, 2009	

Comments

1. Supply diffusers, provide accessories as specified:
 - a. Plaster ring
 - b. Safety chain
 - c. Sectorizing baffles

Copy: File



Submittal Data

April 1, 2009

JOB: Cascade Science Lab BASE

CUSTOMER: MISSION MECHANICAL CORP.
INDIANAPOLIS, IN.

SUBMITTED BY: L. J. Fiesel Company, Inc.
RON BOSTON
317-844-4110
317-848-0810 (FAX)

L. J. Fiesel Company, Inc.

April 1, 2009

PC v4.06.39

BRAND: TITUS

DIFFUSERS

Model:

OMNI

Actual Size

BORDER:

3 - LAY-IN

FINISH:

26 - WHITE

DAMPER MODEL:

0 - NONE

ACCESSORY 1:

NONE

ACCESSORY 2:

NONE

ACCESSORY 3:

NONE

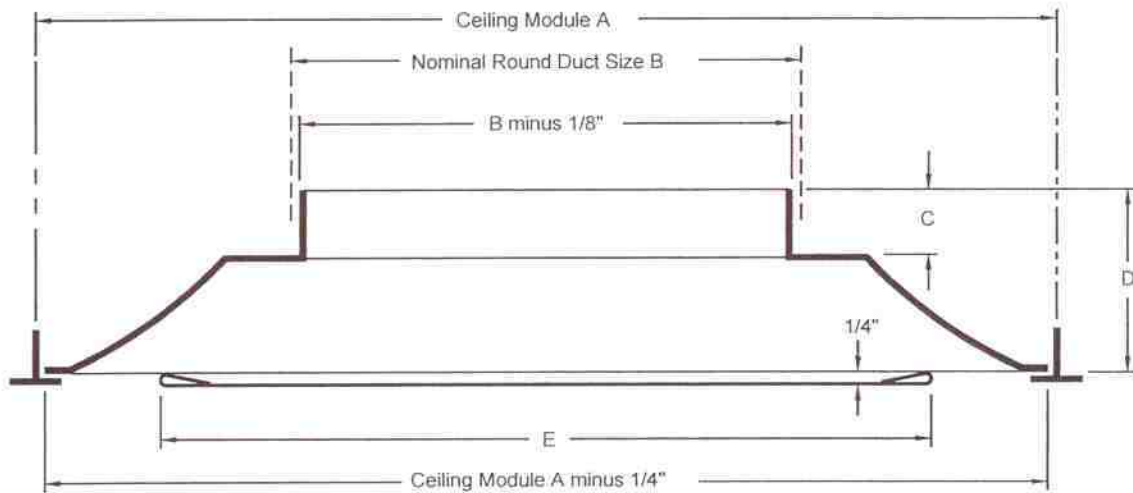
QTY	WIDTH	HEIGHT	SYMBOL	TAG
10	8" DIAMETER	24X24		
12	10" DIAMETER	24X24		

Architectural Ceiling Diffusers

Steel • Architectural • Square Panel • Horizontal Air Pattern

Model: OMNI • Round Neck

Frame Type 3 (Lay-In) Full Face:



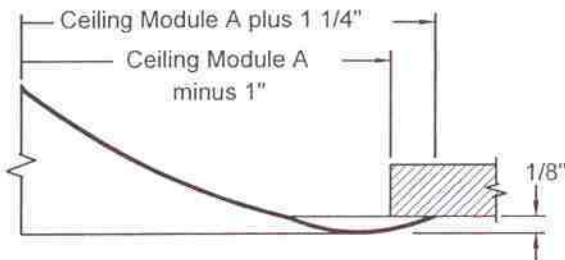
Ceiling Module A	Nominal Round Duct Sizes B	C	D	E
12 x 12	4, 5*	2 7/8	4	9
	6, 7	1 1/8	2 1/4	
	8	1 1/4	2 3/8	
24 x 24	6, 8	1 1/4	3 3/4	18
	10, 12, 14, 15	1 3/8	3 7/8	

Ceiling Module	Face Size	Nominal Round Duct Sizes	Frame Types
12 x 12	12 x 12	4, 5*, 6, 7, 8	1, 2, 3, 4
24 x 24	24 x 24	6, 8, 10, 12, 14, 15	1, 2, 3, 4, 4V, 4T

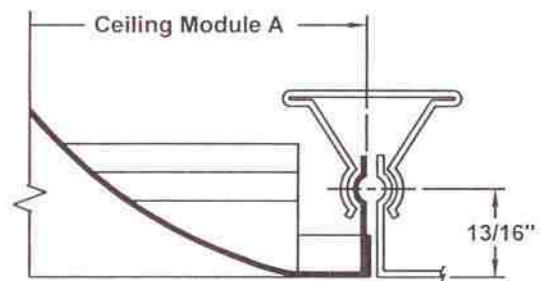
Note: *Adapter is provided for sizes 4 and 5.

* Adapter is provided for Sizes 4 and 5.

Frame Type 1 (Surface Mount) Full Face



Frame Type 2 (Snap-In) Full Face or Panel Mounted



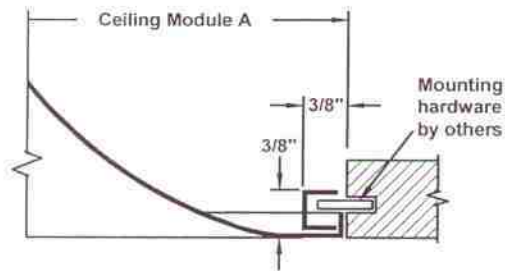
All dimensions are in inches.

(Please see reverse side.)

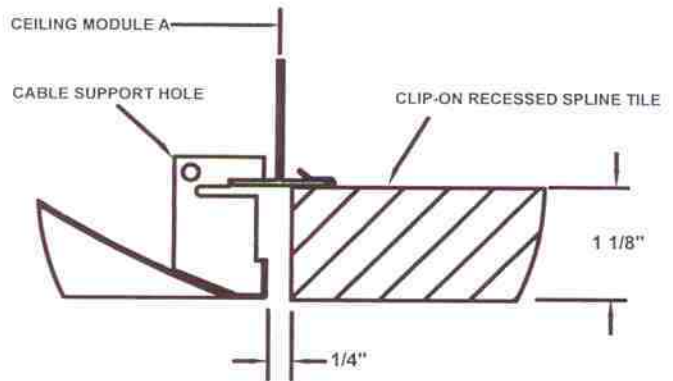
Other Available Border Types

Check selection

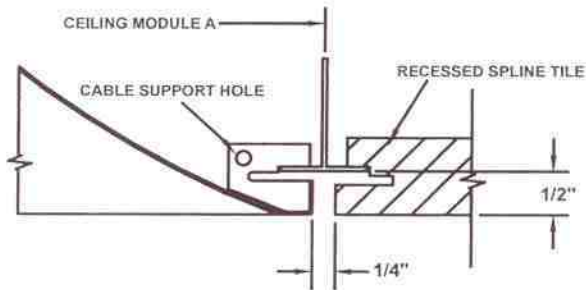
- Frame Type 4 (Spline)
Full Face or Panel Mounted



- Frame Type 4T (Clip-On Recessed Spline)
Full Face



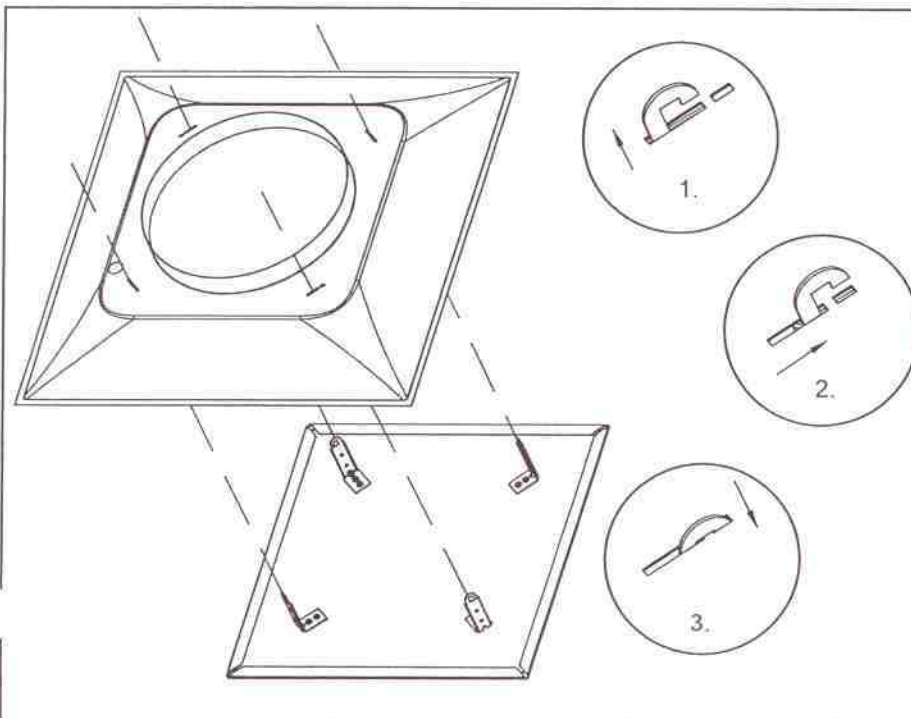
- Frame Type 4V (Recessed Spline)
Full Face



Note: If Border 4V is adjacent to a light fixture a gap will be visible above the backpan. A t-bar extender is available to fill this void, available from the ceiling manufacturer.

Borders 4V and 4T has four mounting clips. Two clips on opposed sides with holes to attach mounting wire from above.

Installing and Removing Face Panel • Adjusting Optional Damper



Installing Face Panel

1. Insert the hook brackets into the slots in the backpan.
2. Rotate the face panel clockwise until...
3. the hooks positively engage in the secondary slots in the backpan.

Removing Face Panel

1. Lift the faceplate towards the backpan to disengage the hook brackets from the backpan slots.
2. Rotate the faceplate counter-clockwise.
3. Lower the faceplate away from the backpan.

Adjusting Optional Damper

1. Remove face panel as above.
2. Use flat blade screwdriver to turn operator shaft at center of damper.
3. Replace face panel

Accessories (Optional)

Check if provided

Model D-75 Radial Opposed Blade Damper
 Model EG Equalizing Grid

1 1/2"

EG

D-75 Mounts on Neck

A

1 Model D-75 damper is available in duct sizes 6 thru 12 inches only.

Model AG-75 Radial Opposed Blade Damper
 Model EG Equalizing Grid

1 1/2"

EG

AG-75 Mounts Above Neck

A

1 1/2"

Size	B
6-12	1 1/2
14, 15	2 1/8

2 Model AG-75 damper is available in 6, 7, 8, 10, 12, 14, and 15 inch duct sizes only.

Model AG-85 Butterfly Damper
 Model EG Equalizing Grid

1 1/2"

EG

AG-85 Mounts Above Neck

A

1 5/8"

3

Model AG-65 Combination Damper and Equalizing Grid

Air Flow →

AG-65 Mounts Above Neck

A

1 1/2"

4

Model D-100 Radial Slide Blade Damper
 Model EG Equalizing Grid

1 1/2"

EG

D-100 Mounts on Neck

A

5 Model D-100 damper is available in duct sizes 6, 8, 10, 12 and 14 inch duct sizes only.

Model AG-100 Radial Sliding Blade Damper
 Model EG Equalizing Grid

1 1/2"

EG

AG-100 Mounts Above Neck

A

1 3/4"

6 Model AG-100 damper is available in duct sizes 6, 8, 10, 12 and 14 inch duct sizes only.

DB - Directional Blow Clips

DB - Directional Blow Clips

TRM TITUS Rapid Mount Frame

TRM TITUS Rapid Mount Frame

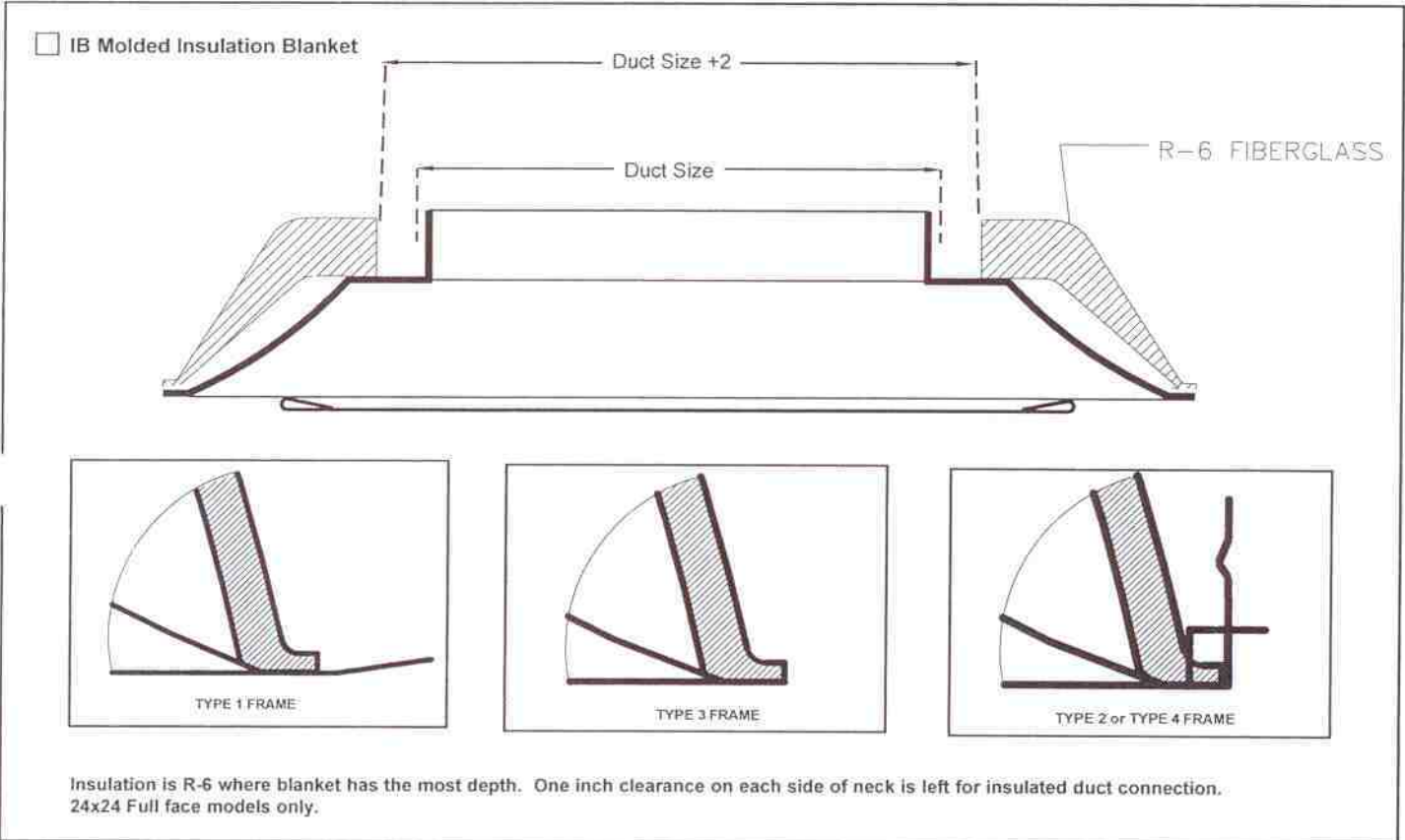
For Surface Mounting Border Type 3

Accessories (Optional) Continued

Dimension "A" in Inches, for Dampers Shown

Accessories	Nominal Round Duct Sizes						
	6	7	8	10	12	14	15
1 D-75	2 ³ / ₈	2 ⁷ / ₈	3 ¹ / ₄	4 ¹ / ₈	4 ⁷ / ₈	N/A	N/A
2 AG-75	2 ³ / ₄	3 ¹ / ₄	3 ⁵ / ₈	4 ¹ / ₂	5 ³ / ₈	2 ³ / ₄	3
3 AG-85	2 ¹ / ₂	3	3 ¹ / ₂	4 ¹ / ₂	5 ¹ / ₂	6 ¹ / ₂	7
4 AG-65	3 ³ / ₈	4	4 ¹ / ₂	5 ¹ / ₂	7 ¹ / ₈	8 ⁵ / ₈	9
5 D-100	—	—	—	—	—	—	N/A
6 AG-100	—	—	—	—	—	—	N/A

Notes 5 and 6:
 Model D-100 and AG-100 dampers have radial blades that slide in a horizontal plane. For that reason, no opening clearance "A" is dimensioned.



➔ **Standard Finish:** #26 White

General Description

- The TITUS OMNI diffuser is designed to satisfy architectural as well as engineering criteria. Its strong, clean, unobtrusive lines harmonize with the ceiling system, without sacrificing performance.
- The curvature of the OMNI backpan works with the formed edges of the face panel to deliver a 360° tight horizontal air pattern, without excessive noise or pressure drop.

- The OMNI diffuser is an excellent choice for variable volume systems. The air pattern remains tight and horizontal for effective room air distribution, even when the air volume varies over a wide range.
- The edges of the face panel are formed to a radius for solid, crisp appearance. The formed edges also stiffen the face panel and assure a straight and level surface.

- The panel can be removed from the backpan for easy installation of the diffuser or for access to the optional damper.
- Optional Directional Blow Clips (model DB) allow the air pattern to be changed to three, two or one blow direction.
- Optional molded insulation blanket (IB) with R-6 rating available for use with border styles 1, 2, 3, and 4, 24x24 full face models.



Note: This submittal is meant to demonstrate general dimensions of this product. The drawings on this submittal are not meant to detail every aspect of the product with exactness. Drawings are not to scale. TITUS reserves the right to make changes without written notice.

GRILLES

Model: 50F

Actual Size

MODULE SIZE: NONE

BORDER: 1 - SURFACE MOUNT

FINISH: 26 - WHITE

FASTENING: N - NO SCREW HOLES

DAMPER MODEL: 0 - NONE

EGGCRATE CORE: CORE A (BORDER 1 OR 3)

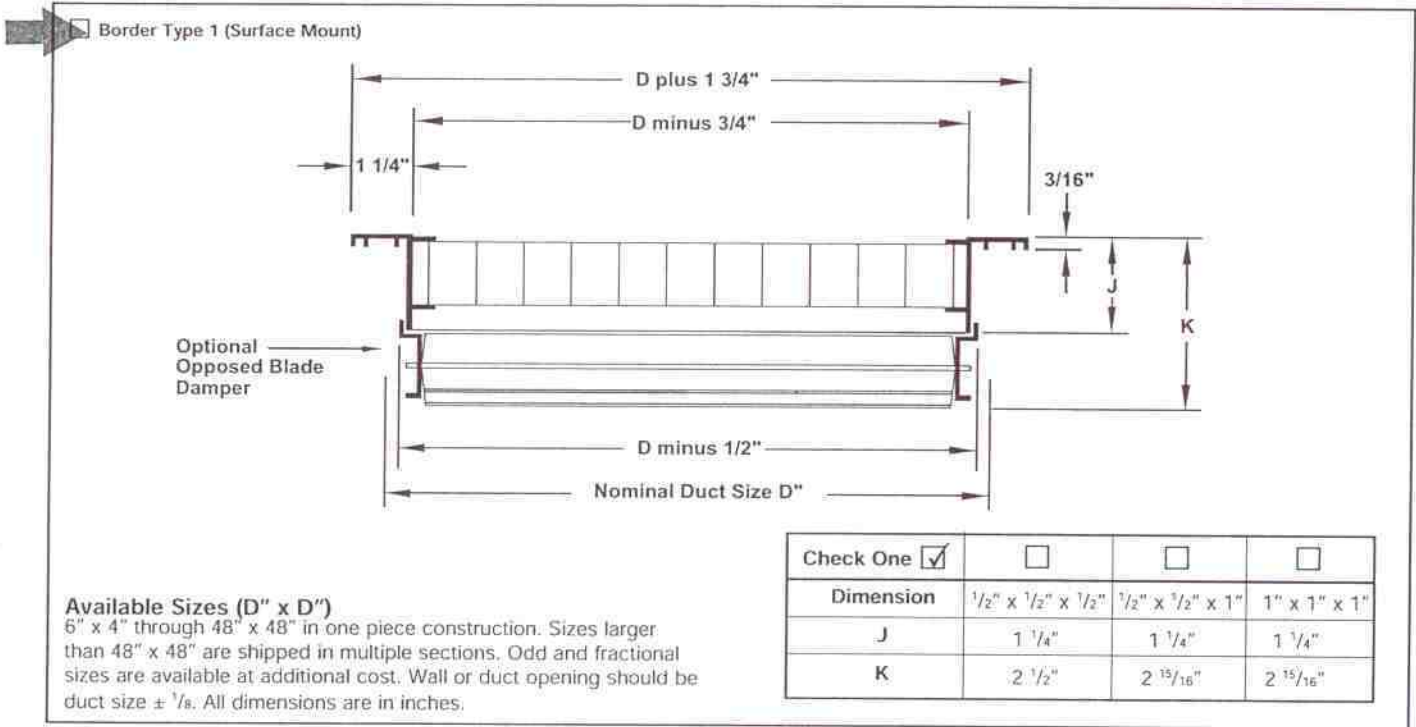
ACCESSORY 2: NONE

ACCESSORY 3: NONE

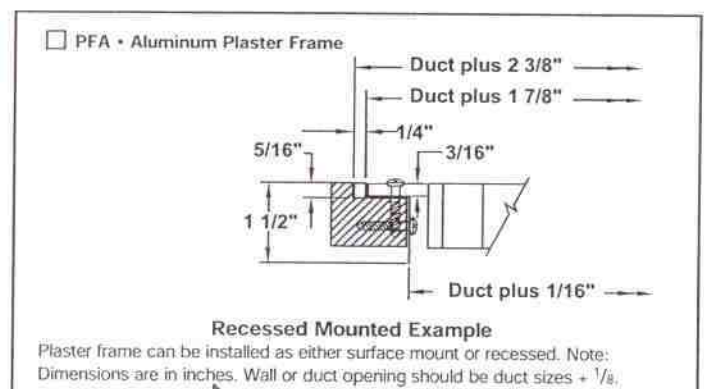
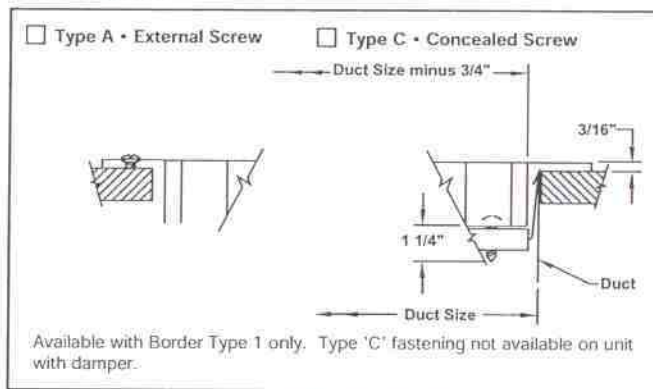
QTY	WIDTH		HEIGHT	SYMBOL	TAG
4	22	x	22		

Eggcrate Return Grilles and Registers Aluminum Grid • Aluminum Border

- Models:**
- 50F • Code A • Aluminum Grid • 1/2" x 1/2" x 1/2" • Aluminum Border
 - 50F • Code B • Aluminum Grid • 1/2" x 1/2" x 1" • Aluminum Border
 - 50F • Code C • Aluminum Grid • 1" x 1" x 1" • Aluminum Border



Fasteners



Accessories (Optional) Check if provided

- Neck mounted opposed blade damper (galvanized steel)
- IS • Insect Screen (1/16" square mesh - galvanized steel)
- DS • Debris Screen (1/4" square mesh - galvanized steel)
- EQT • Earthquake tabs
- Other _____
- Optional finish _____

Standard Finish: #26 White

General Description

- #8 x 1 1/4" lg. Phillips flat head sheet metal screws painted white.
- Insect and debris screens are not available when dampers are fitted.
- Optional opposed blade damper has screw-driver adjustment accessible through face of register.
- Material: Aluminum.
- All dimensions are ± .2.

(Please see reverse side)

Border Types Available Check if provided.

Border Type 3 (Lay-in) Panel Mounted

Available in all standard module sizes with neck sizes up to module size minus 2".

Border Type 3

• Accessories & Options

Check if provided

- Neck mounted opposed blade damper (galvanized steel)
- IS • Insect Screen (2 square mesh – galvanized steel)
- DS • Debris Screen (6 square mesh – galvanized steel)
- EQT • Earthquake tabs
- Other _____

Standard Finish: #26 White

Border Type 7 (Channel)

Available in sizes up to 48" x 48"

A = 5/8"
B = 1"
C = 3/8"

Border Type 7

• Accessories & Options

Check if provided

- EQT • Earthquake tabs
- Other _____

Standard Finish: #26 White

Border Type 8 (Core only)

Available in sizes up to 48" x 48"

Border Type 8

• Accessories & Options

Check if provided

- EQT • Earthquake tabs
- Other _____

Standard Finish: #26 White



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SPG-3.0-S

GRILLES

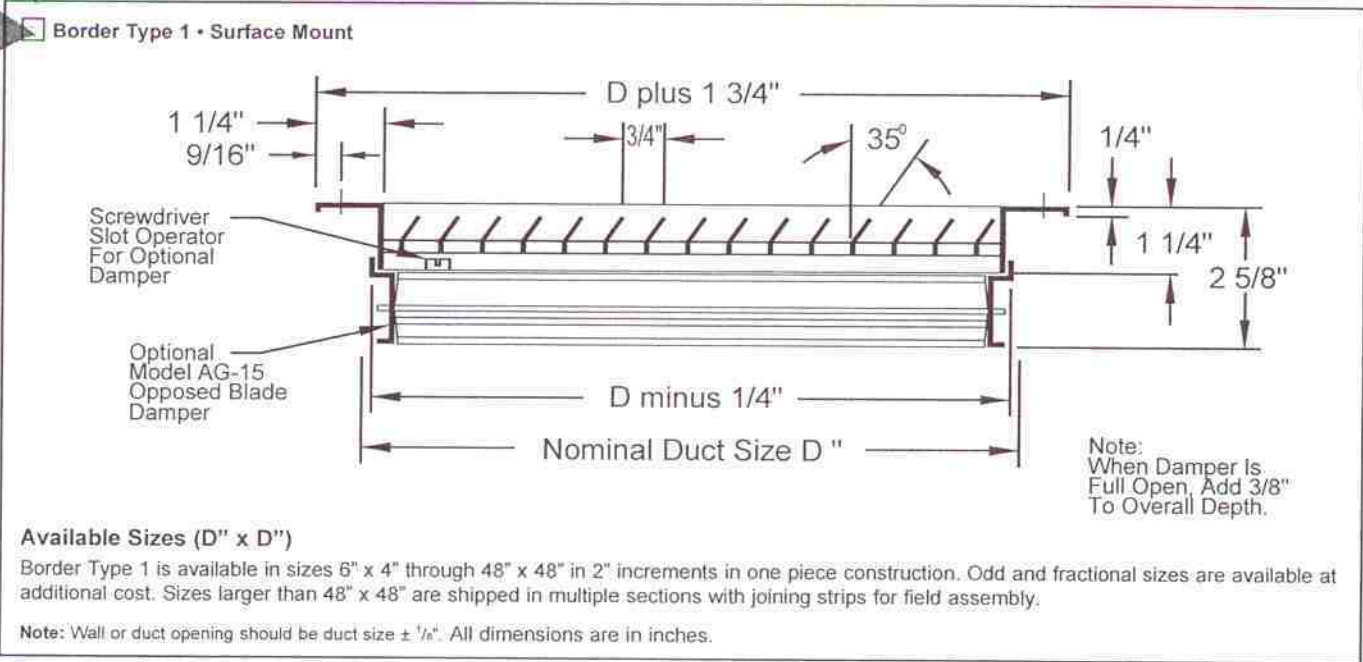
Model: 350RL
Actual Size

MODULE SIZE: NONE
BORDER: 1 - SURFACE MOUNT
FINISH: 26 - WHITE
FASTENING: N - NO SCREW HOLES
DAMPER MODEL: 0 - NONE
ACCESSORY 1: NONE
ACCESSORY 2: NONE
ACCESSORY 3: NONE

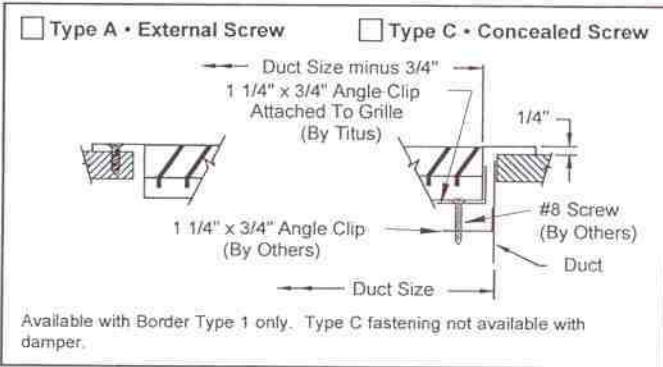
QTY	WIDTH	HEIGHT	SYMBOL	TAG
3	12	x 12		

Louvered Return Grilles and Registers • Steel

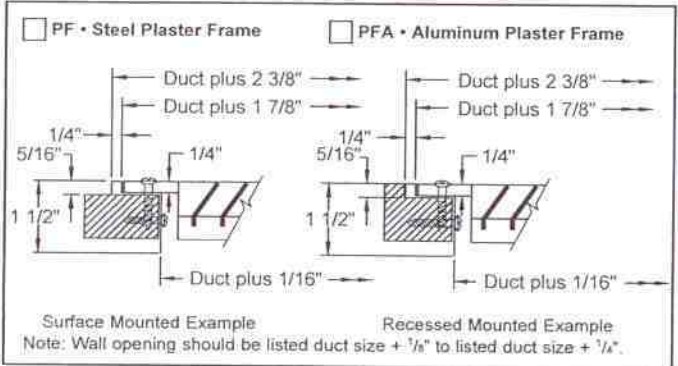
- Models:**
- 350RL** • 35° Deflection • Long Blades • 3/4" Blade Spacing
 - 350RS** • 35° Deflection • Short Blades • 3/4" Blade Spacing



Fastenings



Mounting Frames



Accessories (Optional)

Check if provided

- Neck mounted opposed blade damper (galvanized steel)
- IS • Insect Screen (1/16" square mesh – galvanized steel)
- DS • Debris Screen (1/4" square mesh – galvanized steel)
- EQT • Earthquake tabs
- Other _____

Standard Finish: #26 White

Optional finish _____

General Description

- Available with louvers vertical or horizontal.
- #8 x 1 1/4" lg. Phillip's flat head sheet metal screws painted white.
- Optional opposed blade damper has screwdriver adjustment accessible through face of register.
- Material: Steel.
- All dimensions are ± 1/16".

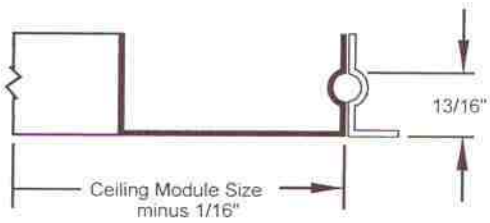


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G-11.0-S

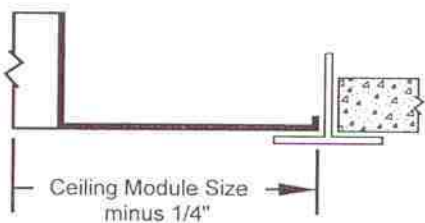
Optional Border Types Available

Border Type 2 (Snap-in)
Panel Mounted



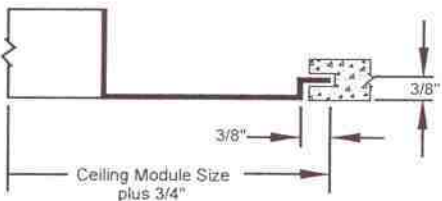
Available in 24" x 24" modules with neck sizes up to 20" x 20".

Border Type 3 (Lay-in)
Panel Mounted



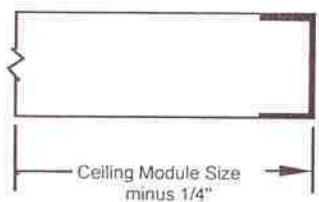
Available in all standard module-sizes with neck sizes up to module size minus 2".

Border Type 4 (Spline)
Panel Mounted



Available in 24" x 24" modules with neck sizes up to 20" x 20".
Splines on 2 opposite sides only

Border Type 7 (Channel)



Available in sizes up to 48" x 48".

Border Type 2, 3, 4

• Accessories & Options

- Check if provided
- AG-15 • Neck mounted opposed blade damper (galvanized steel)
 - IS • Insect Screen (1/16" square mesh – galvanized steel)
 - DS • Debris Screen (1/4" square mesh – galvanized steel)
 - EQT • Earthquake tabs
 - Other _____

Standard Finish: #26 White

- Optional finish _____

Border Type 7

• Accessories & Options

- Check if provided
- EQT • Earthquake tabs
 - Other _____

Standard Finish: #26 White

- Optional finish _____



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