

Projet :

Beth Esther

Ingénieur conseil :

Client :

SYNAIRTECH

## Dessins d'atelier

Date : 9/12/2025

Révision : 0

Dossier :

Bon de commande : S37605

Soumis / préparé par : *Eric Vaillancourt*

Téléphone : 514.795-2247

Télécopieur : 514.788.1773

Courriel : [evallancourt@master.ca](mailto:evallancourt@master.ca)



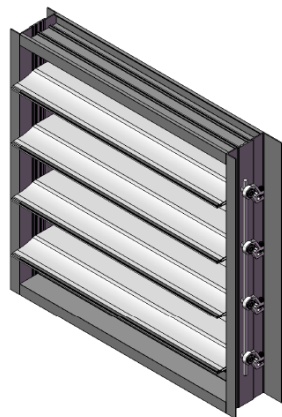
Pour approbation



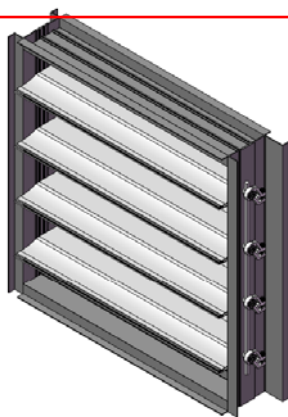
Tel que construit



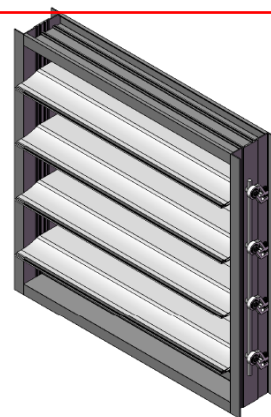
Révision



**3160**  
*Inséré au conduit*



**3161 Quick 'N' Stall**  
*Inséré au conduit*



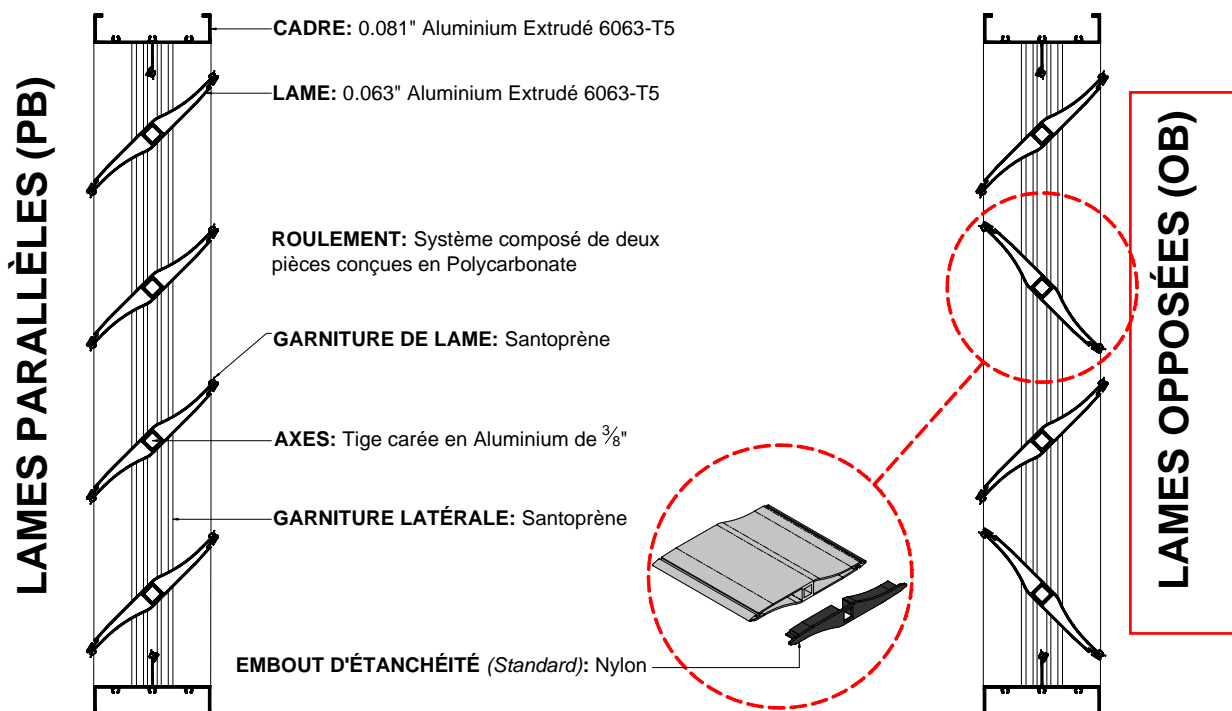
**3165**  
*Attaché au conduit*

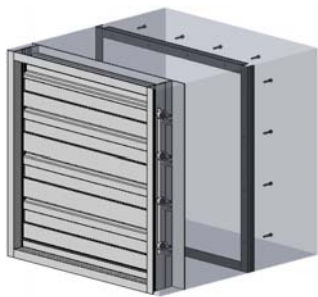
### CONSTRUCTION STANDARD

**Cadre:** 4" (101 mm) – 3160/3165  
5.25" (133 mm) – 3161  
**Profondeur lames ouvertes:** 6.125" (156 mm)  
**Hauteur minimum:** 8" (203 mm) – Lame simple  
15" (381 mm) – Lames multiples  
**Largeur maximum par panneau:** 48" (1219 mm)  
**Hauteur maximum par panneau:** 60" (1524 mm)  
**Pied<sup>2</sup> maximum par panneau:** 20 pi<sup>2</sup>  
**Pression maximum du système :** 4" w.g. (1 kPa)  
**Température d'opération:** -40° to +180° F  
**Fini standard:** Aluminium naturel  
**Entrainement standard:** Direct avec tige télescopique de 6"  
**Tringlerie:** - Dissimulée en dehors du flux d'air (3160/3161)  
- En dehors du cadre (3165)  
**Embout d'étanchéité:** En nylon standard sur toutes les lames

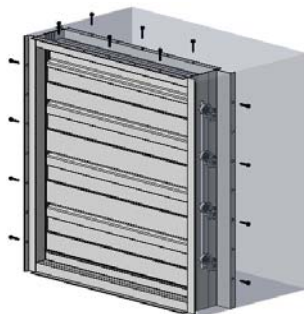
### ACCESSOIRES DISPONIBLES

- Actuateurs [Honeywell, Belimo]
- Interrupteur de fin de course
- Axes de renvois avec ou sans roulement à billes
- Quadrants à main
- Opération par chaîne avec ressort de rappel
- Garniture en silicone (3100 SS)
- Construction eau salée (3100 SW)

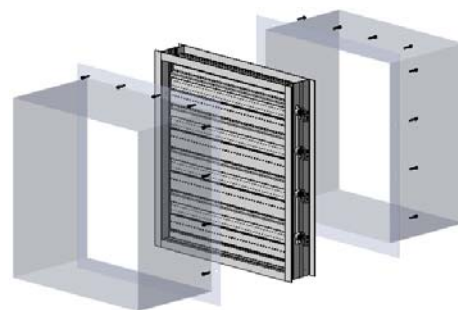




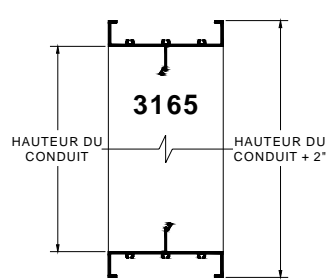
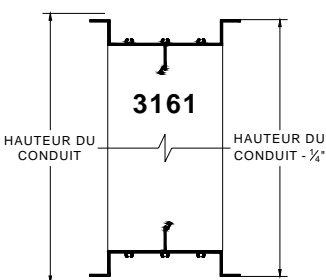
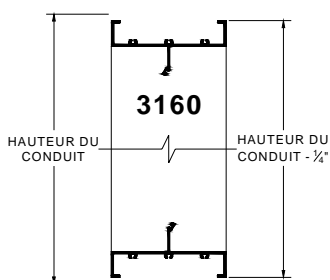
3160 – Inséré au conduit



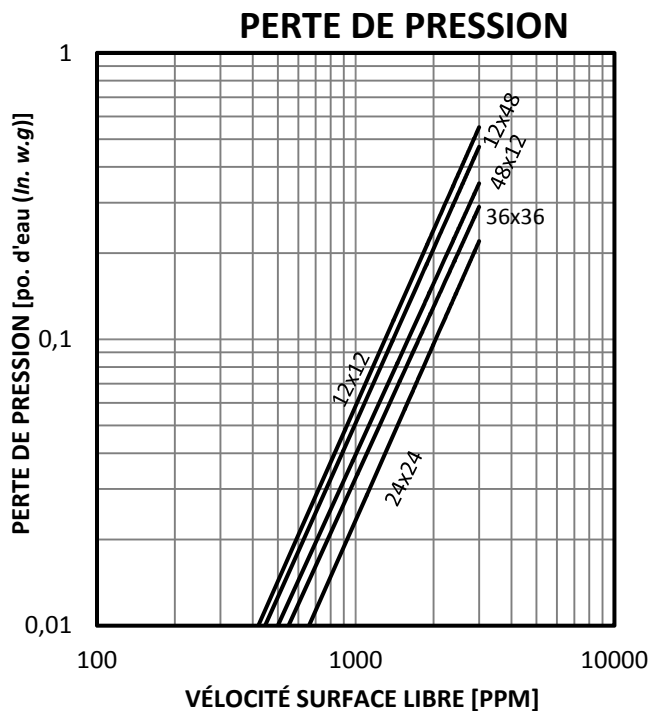
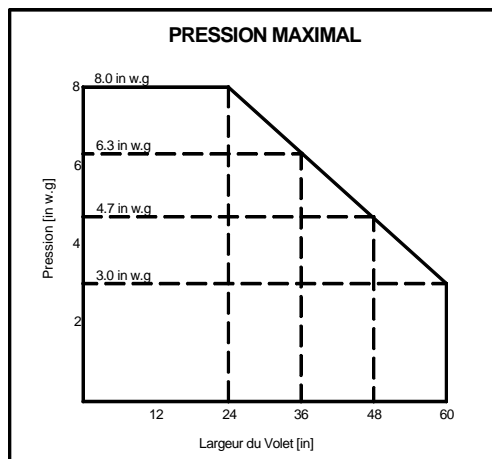
3161 – Inséré au conduit



3165 – Attaché au conduit



Configuration Inséré: 3160 / 3161  
Configuration Attaché: 3165



### SPÉCIFICATIONS RECOMMANDÉES

Fournir et installer les volets motorisés Alumavent modèles 3160/3161/3165. Les volets seront d'une profondeur de 4" (101 millimètres) et n'excéderont pas 6.125" (156 mm) lorsqu'en position ouverte. Les cadres de 4" (101mm) seront d'un alliage d'aluminium d'au moins 0.081" (2.06 mm) et les lames d'au moins 0.063". Chaque lame est conçue avec des embouts d'étanchéités en nylon. Les garnitures coupe-froid sur les lames et les cadres seront en résine de vinyle du type 'santoprène' et seront intégrées aux extrusions. Le transfert des charges sera effectué par des coussinets conçus en thermoplastique d'acétal fixés à une tige d'aluminium d'alliage 6063-T5 d'au moins 0.375" (9.53 mm) et d'une tige maîtresse en acier traitée. La tringlerie sera cachée en dehors du flux d'air permettant un bon fonctionnement dans des conditions d'opération variant entre -40°F (-40°C) à 180°F (82°C). L'étanchéité d'un volet de 48" (1220 mm) x 48" (1220 mm) n'excédera pas 8 PCM/pi<sup>2</sup> (40.6 l/s/m<sup>2</sup>) contre une pression de 4" w.g. (1 kPa). L'installation des volets de contrôle devra satisfaire les exigences émises par le manufacturier.





222 Church St South  
 Alliston, Ontario  
 www.ventexinc.com  
 Fax: 905 857-4730  
 Phone: 905 857-4700  
 L9R 2B7

# SCHEDULE

Company	THE MASTER GROUP INC
Address	Boucherville
Province	QC
Postal Code	J4B7W4

Date	2025-12-05
ProjectID	231416610
Order Number	VON 231416610
PO Number	Beth Esther S-25322

ID	DESCRIPTION	TAG	FINISH	ACCESSORIES	QTY
1	3165 36,000 X 9,000 - O11L	ACD-1	Mill		1
1	3165 30,000 X 12,000 - O11L	ACD-2	Mill		2
1	3165 20,000 X 16,000 - O11L	ACD-3	Mill		3
1	3165 12,000 X 10,000 - O11L	ACD-4	Mill		1
1	3165 14,000 X 14,000 - O11L	ACD-5	Mill		3
1	3165 20,000 X 12,000 - O11L	ACD-6	Mill		2
1	3165 20,000 X 20,000 - O11L	ACD-7	Mill		1
1	3161 24,000 X 14,000 - O11L	ACD-8	Mill		1
1	3161 16,000 X 26,000 - O11L	ACD-9	Mill		1

## Information du projet

Numéro de projet: 253390008

Nom de projet: Beth Esther S-25322

Date de projet: 12/05/2025

Numéro de référence:

Client: SYNAIRTECH

Ingénieur:

Soumis par: Jimmy Bachour

Compagnie: Le Groupe Master Inc (Québec)

Notes:

### Liste de serpentins électrique(s)

#	Étiquette	Dimensions du châssis		Débit (PCM)	Vitesse d'air (PPM)	Section électrique					Paliers			Modèle	Les options	Thermostats	Remarques
		W	H			P(kW)	VAC-ph	I(A)	Ctrl V	Signal	Qté	kW	A				
1		10.00	10.00	209	301	3	347-1	8.65	24	Mod	1X	3.00	8.65	DF CF00H	CA-DS-AC-MC-TR-HECH-EASH-SSR-CGC-N1-RA	Aucun	
2		14.00	12.00	353	303	3	347-1	8.65	24	Mod	1X	3.00	8.65	DF CI00H	CA-DS-AC-MC-TR-HECH-EASH-SSR-CGC-N1-BLE	Aucun	
3		12.00	10.00	253	304	2	347-1	5.76	24	Mod	1X	2.00	5.76	DF CI00H	CA-DS-AC-MC-TR-HECH-EASH-SSR-CGC-N1-BLE	Aucun	

#### Légende du modèle

<b>D</b>	Élément ouvert
<b>F</b>	Tubulaire
<b>C</b>	Tub. à ailette
<b>I</b>	À insertion
<b>F</b>	À bride
<b>0</b>	Pas de grille
<b>1</b>	Grille à gauche
<b>0</b>	Pas de grille 0
<b>1</b>	Grille à droite 1

#### Légende des options et composants

<b>AC</b>	Prot. therm. à réarmement auto.	<b>SSR</b>	Relais statique (Triac)
<b>BLE</b>	Boîtier avec ext. à gauche	<b>TR</b>	Transformateur
<b>CA</b>	Contacteur magnétique		
<b>CGC</b>	Coil Grade C (60% Nickel/16% Chrome/24% Fer)		
<b>DS</b>	Sectionneur avec entre barrage		
<b>EASH</b>	Capteurs élec. de débit d'air		
<b>HECH</b>	Contrôleur Elios		
<b>MC</b>	Prot. therm. à réarmement man.		
<b>N1</b>	Panneau de contrôle NEMA 1		
<b>RA</b>	Adapteur rond		

Nom du projet Beth Esther S-25322  
 Numéro de projet 253390008  
 Révision du projet 0  
 Fabricant Elios



1675 Bd de Montarville,  
Boucherville, Québec  
J4B 7W4  
Canada



## Dessin d'approbation des serpentins électriques

Serpentin(s) sélectionné(s):3/3

Création	05 Dec, 2025	Rév.0
Dernière modification	05 Dec, 2025	Canada
Numéro de Projet	253390008	
Nom de Projet	Beth Esther S-25322	
Numéro de référence	Beth Esther S-25322	
Client	SYNAIRTECH	
Ingénieur		
Soumis Par	Jimmy Bachour	
Compagnie	Le Groupe Master Inc (Québec)	

Article	Serpentin électrique		Dimensions (po)						PCM	PPM	Spécification électrique					Paliers		Dessins	Thermostats
	Qté	Modèle (voir légende)	Serpentin électrique			Boîte de Contrôle					P (kW)	VAC-Ph	I (A)	Ctrl V	Signal	Qté	kW		
1	<b>Étiquetage:</b>																		
	1	DF CF00H	10.00	10.00	9.00	7.00	14.00	9.00	209	301	3.00	347-1	8.65	24	MOD 0-10V	1X	3.00	8.65	M253390008-A E253390008-A
<b>Opts. Élec. :</b> CA-DS-AC-MC-TR-HECH-EASH-SSR-CGC <b>Opts. Méc. :</b> N1-RA																			
2	<b>Étiquetage:</b>																		
	1	DF CI00H	14.00	12.00	5.00	7.00	14.00	9.00	353	303	3.00	347-1	8.65	24	MOD 0-10V	1X	3.00	8.65	M253390008-B E253390008-A
<b>Opts. Élec. :</b> CA-DS-AC-MC-TR-HECH-EASH-SSR-CGC <b>Opts. Méc. :</b> N1-BLE																			
3	<b>Étiquetage:</b>																		
	1	DF CI00H	12.00	10.00	5.00	7.00	12.00	11.00	253	304	2.00	347-1	5.76	24	MOD 0-10V	1X	2.00	5.76	M253390008-B E253390008-A
<b>Opts. Élec. :</b> CA-DS-AC-MC-TR-HECH-EASH-SSR-CGC <b>Opts. Méc. :</b> N1-BLE																			

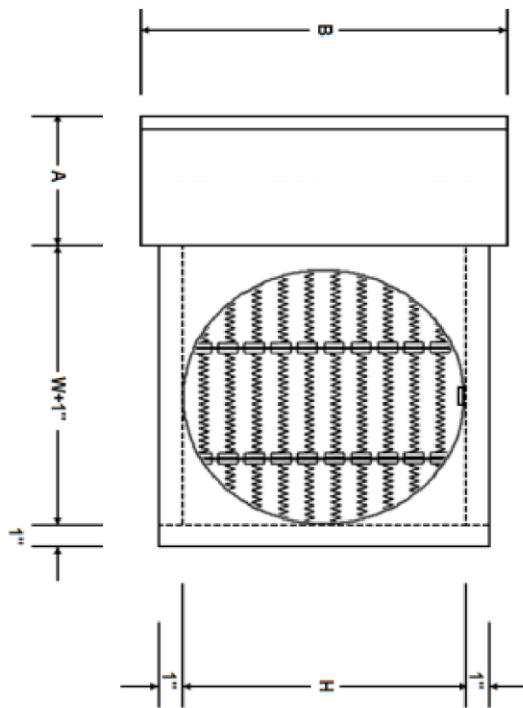
### Légende des modèles

<b>C</b>	Élément ouvert
<b>T</b>	Tubulaire
<b>F</b>	Tub. à ailette
<b>I</b>	À insertion
<b>F</b>	À bride
<b>0</b>	Pas de grille
<b>1</b>	Grille à gauche
<b>BACnet/Modbus B</b>	Aucun
<b>H</b>	Débit d'air horz.
<b>V</b>	Débit d'air vert.
<b>0</b>	Pas de grille 0
<b>1</b>	Grille à droite 1

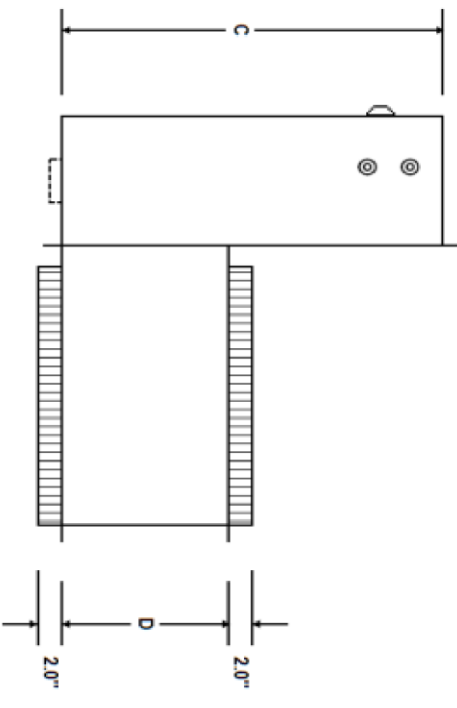
### Légende des options et composantes

<b>AC</b>	Prot. therm. à réarmement auto.	<b>SSR</b>	Relais statique (Triac)
<b>BLE</b>	Boîtier avec ext. à gauche	<b>TR</b>	Transformateur
<b>CA</b>	Contacteur magnétique		
<b>CGC</b>	Coil Grade C (60% Nickel/16% Chrome/24% Fer)		
<b>DS</b>	Sectionneur avec entre barrage		
<b>EASH</b>	Capteurs élec. de débit d'air		
<b>HECH</b>	Contrôleur Elios		
<b>MC</b>	Prot. therm. à réarmement man.		
<b>N1</b>	Panneau de contrôle NEMA 1		
<b>RA</b>	Adaptateur rond		

VUE DE COTÉ



VUE DE HAUT



NOTES : - NEMA 1

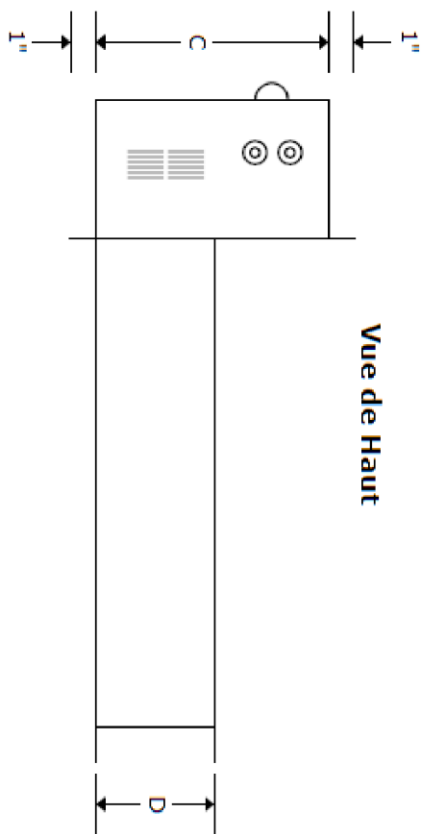


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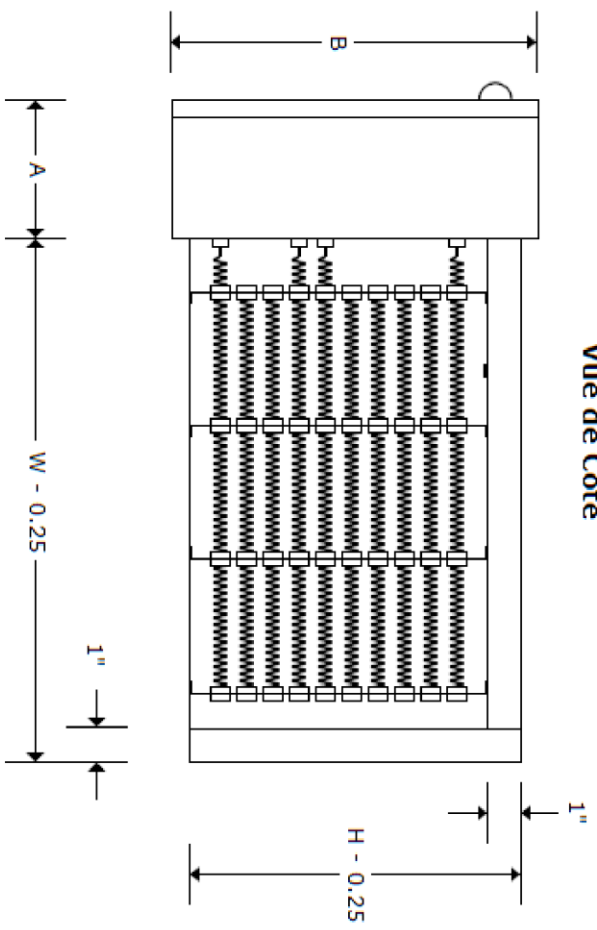
DESSIN MÉCANIQUE  
M253390008-A

No. Projet: 253390008  
Nom Projet: Beth Esther S-25322  
Nom Client: SYNARTECH



Vue de Haut

**Notes**  
 Nema 1  
 débit d'air Horizontal



Vue de Côté

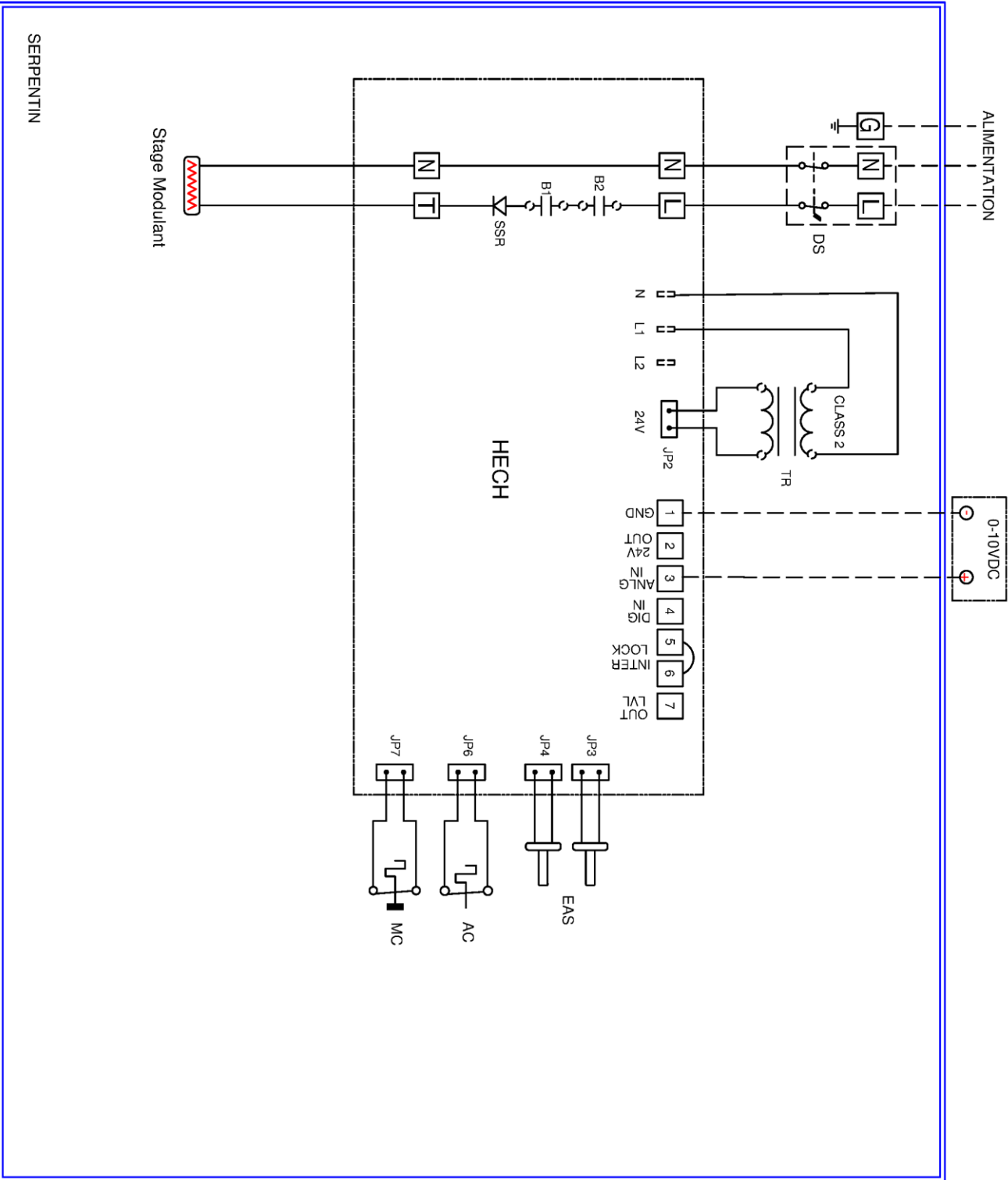


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**Dessin Mécanique**  
**M253390008-B**

No. Projet: 253390008  
 Norm Projet: Beth Esther S-25322  
 Norm Client: SYNAIRTECH



**Legend**

- AC Automatic Cutout
- MC Manual Cutout
- DS Disconnect Switch
- Heating Element
- TR Transformer
- Contact (N.O.) Normally Open

**Avertissement**  
 Disconnect all supplies before working on this duct heater

**Important**  
 Wire in accordance with electrical codes use copper wire for 105°C minimum

**Note**  
 All wiring outside this frame is wiring by others

- UL 555 & CAN/ULC-S112 Classified Static Fire Damper, 1½ Hr. Label (File # R25565).
- NFPA 80, 90A & 101 compliant.
- NBC and IBC building codes compliant.



**STANDARD CONSTRUCTION**

**DEPTH:** 4 ¼" (108).

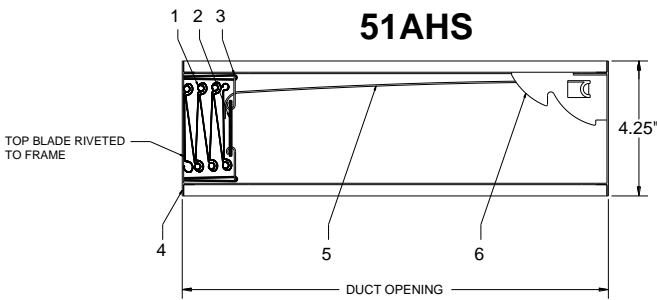
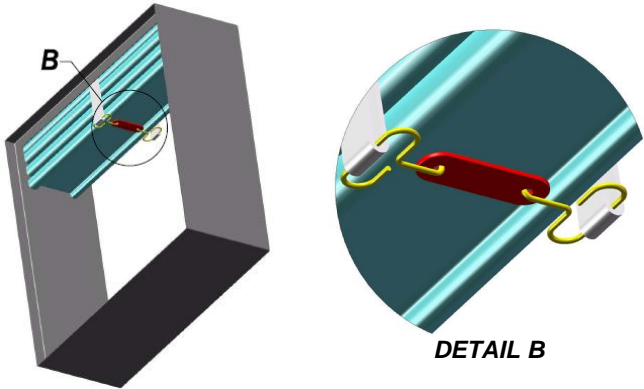
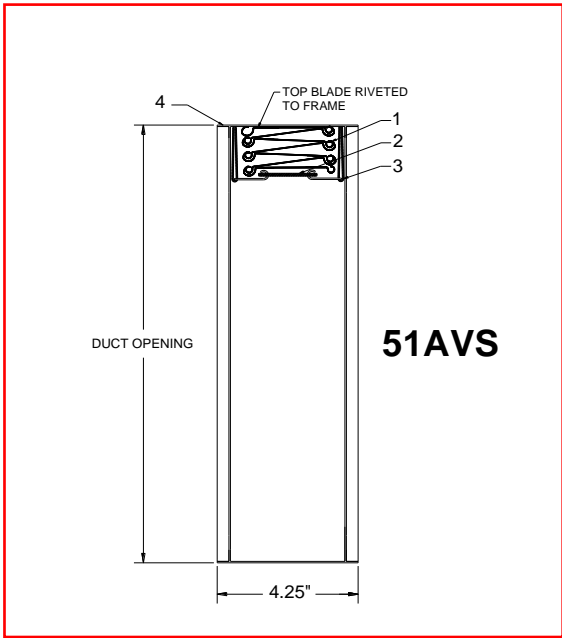
**FRAME:** Roll formed 20 Ga. galvanized steel with hemmed edge.

**BLADE:** Roll formed 22 Ga. galvanized steel. Interlocking curtain type blade.

**FUSIBLE LINK:** 165°F (74 C).

**OPTIONAL CONSTRUCTION**

- Factory supplied Sleeve – 22, 20, 18 or 16 Ga. \*Sleeve length required.
- Round Transitions (See Model 51CR).
- Access Door factory mounted in a common sleeve.
- 212°F (100 C) Fusible Link.
- 1 ½" x 1 ½" Retaining Angles.



**FIRE DAMPER COMPONENTS**

1. Blade	5. Constant Force Spring
2. Fusible Link Assembly	6. Lock Ramp
3. Link Strap	
4. Frame	

**MAINTENANCE RECOMMENDATIONS:**  
 NFPA 80 advises that fire dampers be inspected and tested 1 year after installation, then every 4 years minimum. More frequent inspections may be required due to system use and air conditions, or applicable local codes.

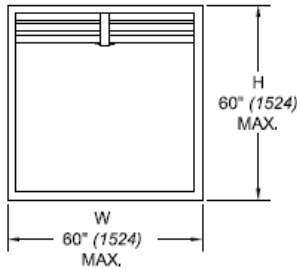
**NOTES:**  
 Dampers are furnished approximately ¼" (6) smaller than the given duct dimensions.  
 These static dampers are UL/ULC approved for use in HVAC systems where the fans automatically shut down in the event of a fire alarm.  
 1½ hr. labeled fire dampers are suitable for use in fire separations with a fire resistance rating of 2 hours or less.  
**Fire dampers must be installed in accordance with manufacturer's instructions. Refer to Alumavent installation instructions for details.**

Dimensions are shown in inches (mm).

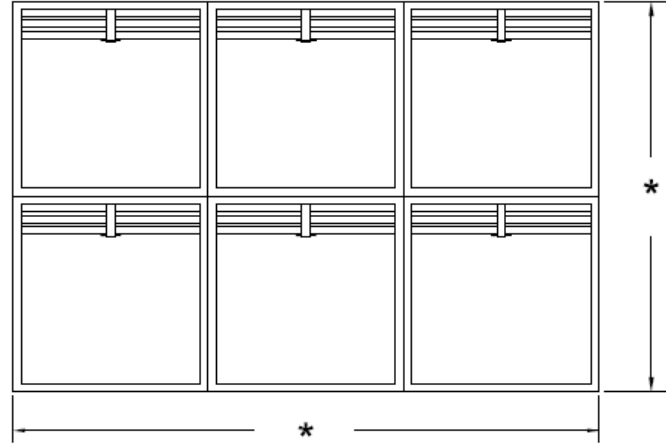
## VERTICAL

SINGLE SECTION DAMPER

MINIMUM SIZE:  
4" x 4"(102 x 102)



MULTIPLE SECTION DAMPER

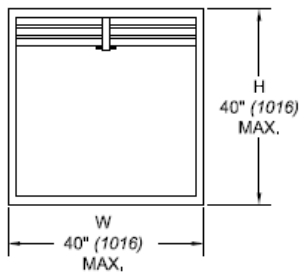


\* MAXIMUM SIZE 120"w x 80"h (3048 x 2032) (40"x 40" MAXIMUM SECTION SIZE) OR 108"x 96" (2743 x 2438) (36"x48" MAXIMUM SECTION SIZE)

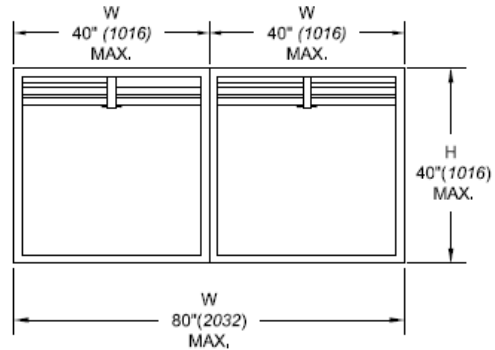
## HORIZONTAL

SINGLE SECTION DAMPER

MINIMUM SIZE:  
4" x 6"(102 x 152)



MULTIPLE SECTION DAMPER



REF. #	QTY.	DUCT WIDTH (W)	DUCT HEIGHT (H)	MOUNT (V/H)	ACCESSORIES

\*DAMPER WILL BE MANUFACTURED APPROXIMATELY 1/8" (6) SMALLER THAN GIVEN DUCT DIMENSIONS.

<b>PROJECT NAME:</b>	_____	<b>ENGINEER:</b>	_____
<b>CONTRACTOR:</b>	_____	<b>SUBMITTAL DATE:</b>	_____



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Alliston, Ontario  
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Phone: 905 857-4700  
L9R 2B7

# SCHEDULE

Company	THE MASTER GROUP INC
Address	Boucherville
Province	QC
Postal Code	J4B7W4

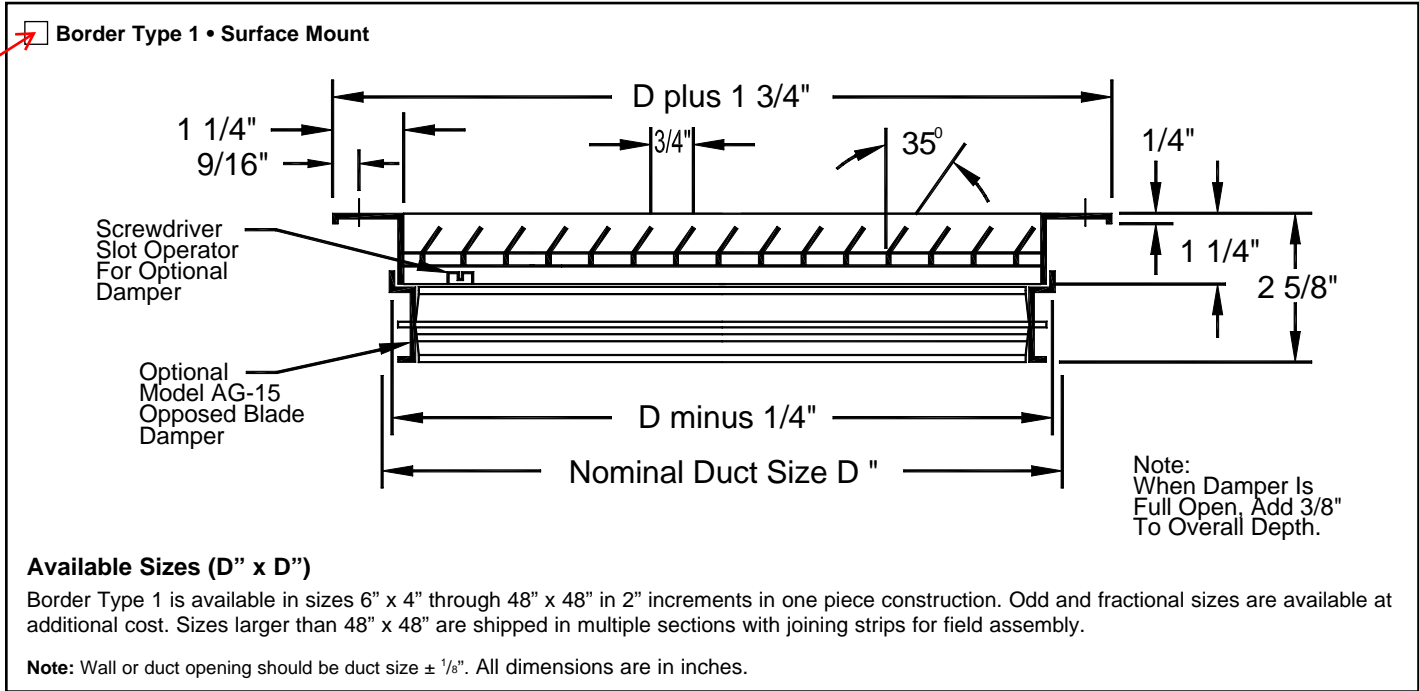
Date	2025-12-05
ProjectID	231420910
Order Number	VON 231420910
PO Number	Beth Esther S-25322 vcf

ID	DESCRIPTION	TAG	FINISH	ACCESSORIES	QTY
1	51AVS 48,000 X 24,000 1-1	FD-1	Mill		2
1	51AVS 40,000 X 26,000 1-1	FD-2	Mill		2
1	51AVS 20,000 X 20,000 1-1	FD-3	Mill		1

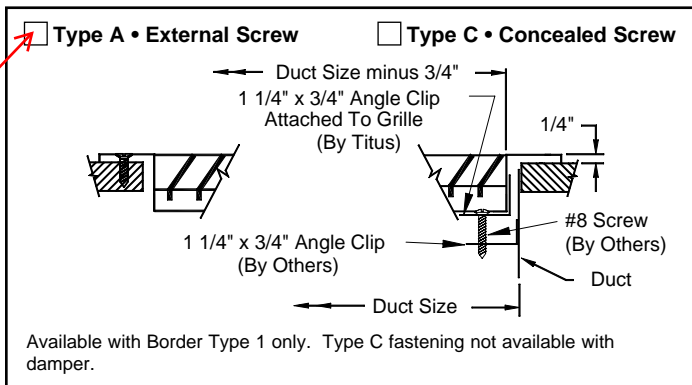
## Louvered Return Grilles and Registers • Steel

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

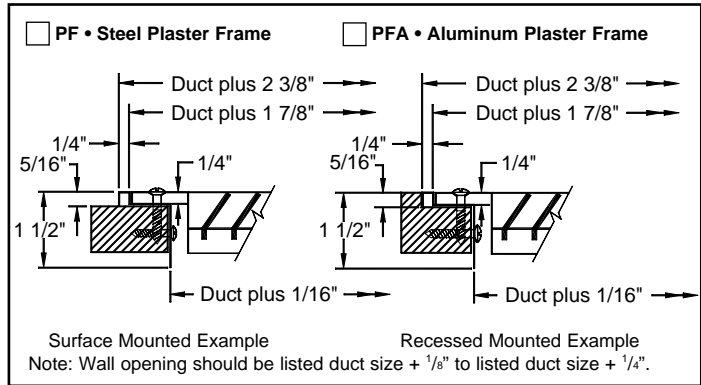
2X 10X10  
 1X 12X12  
 1X 18X08



### Fastenings



### Mounting Frames



### Accessories (Optional)

Check  if provided

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

### Standard Finish: #26 White

Optional finish \_\_\_\_\_

### General Description

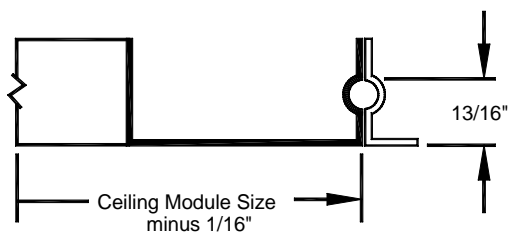
- Available with louvers vertical or horizontal.
- #8 x 1 1/4" lg. Phillip's flat head sheet metal screws painted white.
- Optional opposed blade damper has screwdriver adjustment accessible through face of register.
- Material: Steel.
- All dimensions are ± 1/16".



Note: This submittal is meant to demonstrate general dimensions of this product. The drawing 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.

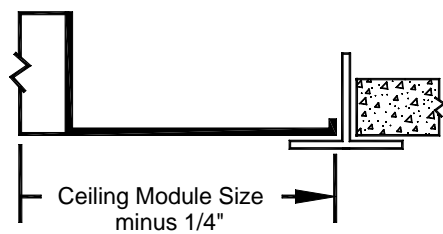
## Optional Border Types Available

**Border Type 2 (Snap-in)  
Panel Mounted**



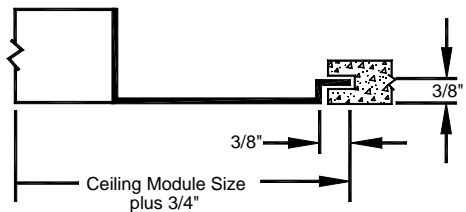
Available in 24" x 24" modules with neck sizes up to 20" x 20".

**Border Type 3 (Lay-in)  
Panel Mounted**



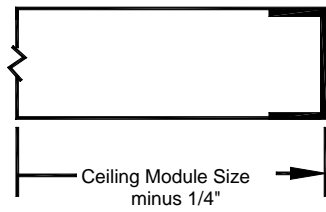
Available in all standard module sizes with neck sizes up to module size minus 2".

**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 \_\_\_\_\_



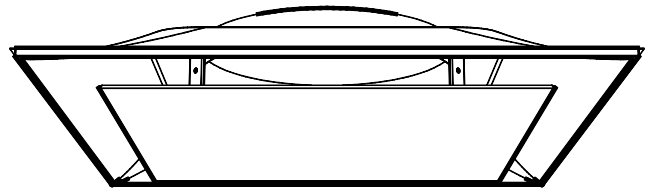
Note: This submittal is meant to demonstrate general dimensions of this product. The drawing on this submittal are not meant to detail every aspect of the product with exactness. Drawings are not to scale. TITUS reserves the right to make changes without written notice.

## Architectural Ceiling Diffusers Square Cone • Plaque Face

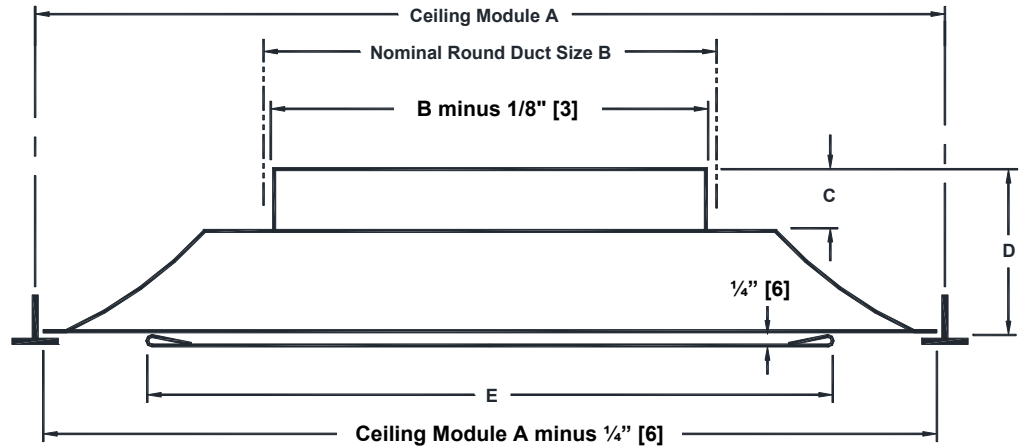
**Model: OMNI • Steel • Round Neck**

2X OMNI-06      2X OMNI-08  
9X OMNI-12      2X OMNI-10

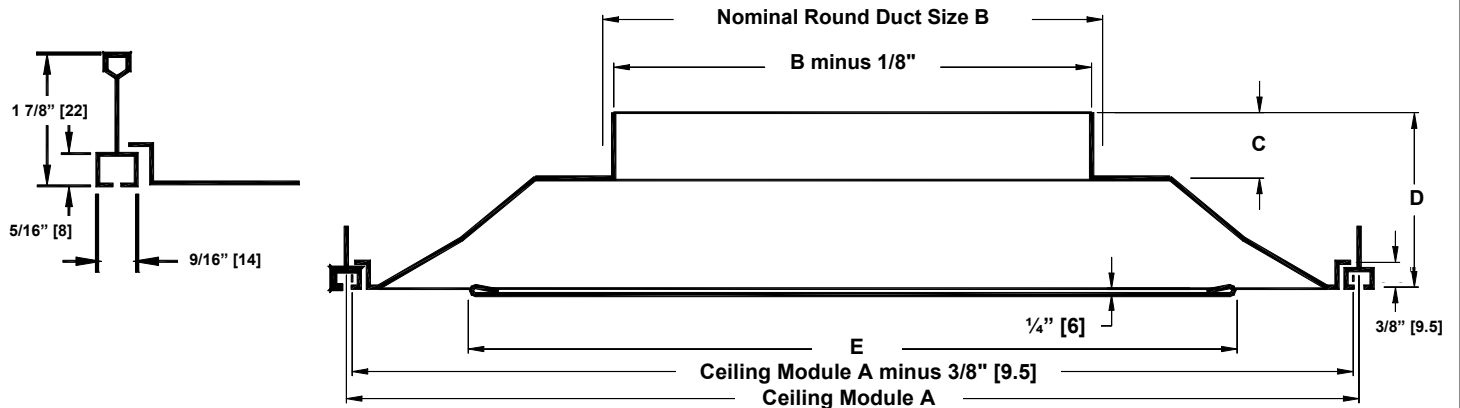
14X TRM242426



Border Type 3 (Lay-In) Full Face



Border Type NT (Narrow Tee) Full Face



Nominal Ceiling Module or Face Size (A)	Nominal Inlet Size (B)										Border				C	D	E		
	4 [102]	5 [127]	6 [152]	7 [178]	8 [203]	10 [254]	12 [305]	14 [356]	15 [381]	1	2	3	4	NT				4V	4T
12 x 12 [305 x 305]	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2 7/8 [73]	4 [102]	9 [229]
																	1 1/8 [29]	2 1/4 [57]	9 [229]
																	1 1/4 [32]	2 3/8 [60]	9 [229]
20 x 20 [508 x 508]	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2 3/4 [70]	5 1/4 [133]	13 5/8 [346]
																	3/4 [19]	3 1/4 [83]	13 5/8 [346]
24 x 24 [610 x 610]																	1 1/4 [32]	3.75 [95]	18 [457]
																	1 3/8 [35]	3.875 [98]	18 [457]
[600 x 600]																	1 1/4 [32]	3.75 [95]	18 [457]
																	1 3/8 [35]	3.875 [98]	18 [457]

Dimensions in Inches [Millimeters]

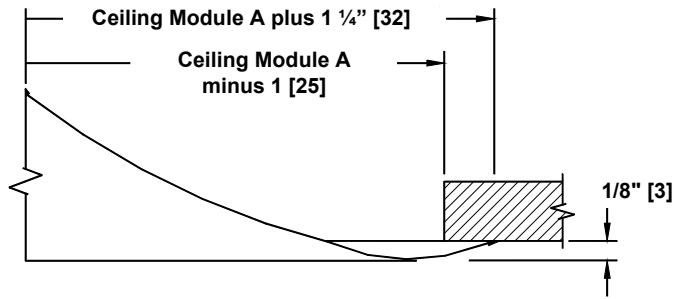
Adapter provided for sizes 4 and 5

Aluminum backpan may be supplied for inlet sizes 14 [356] and 15 [381].

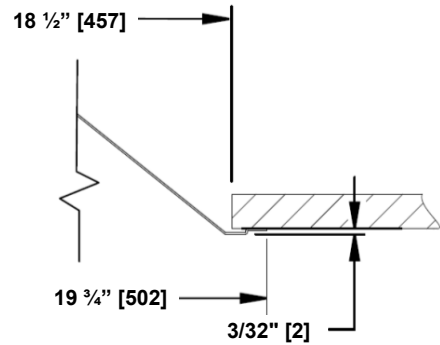
**Other Available Border Types**

Check  if provided.

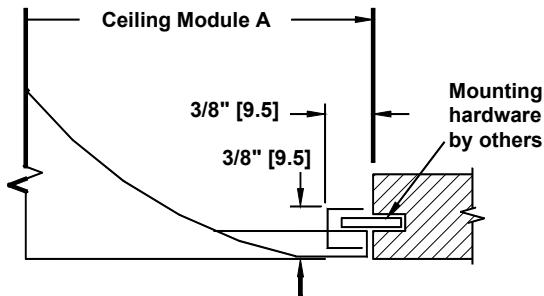
- Border Type 1 (Surface Mount) Full Face  
12x12 & 24 x 24 Module



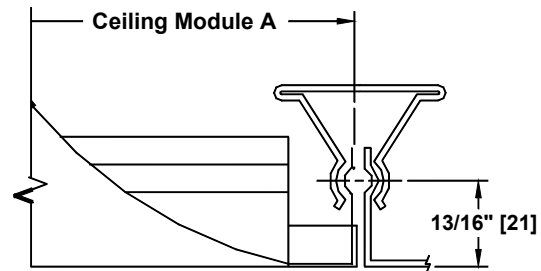
- Border Type 1 (Surface Mount) Full Face  
20 x 20 Module



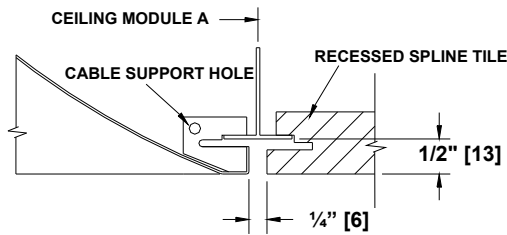
- Border Type 4 (Spline) Full Face or Panel Mounted



- Border Type 2 (Snap-In) Full Face or Panel Mounted
- Dimensions are in inches.

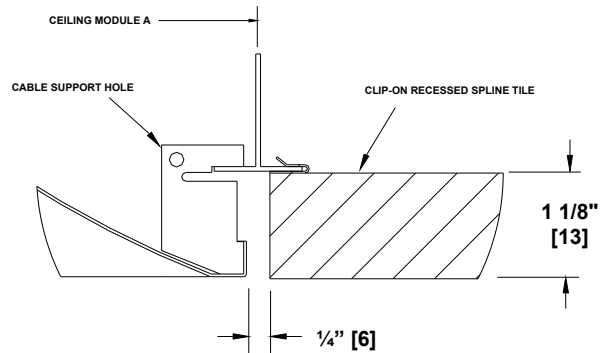


- Border Type 4V (Recessed Spline) Full Face



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.

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

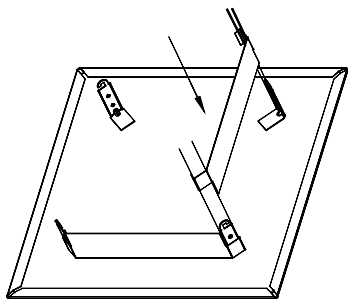


Borders 4V and 4T has four mounting clips. Two clips on opposed sides with holes to attach mounting wire from above.

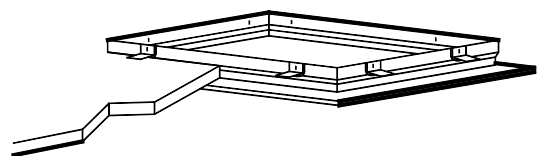
**Accessories (Optional)**

Check  if provided.

- DB - Directional Blow Clips



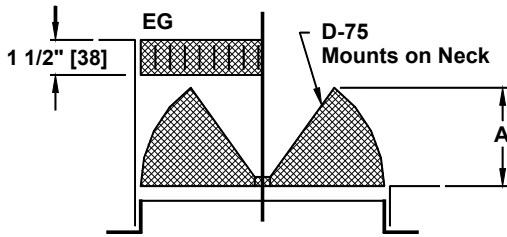
- TRM TITUS Rapid Mount Frame



For Surface Mounting Border Type 3

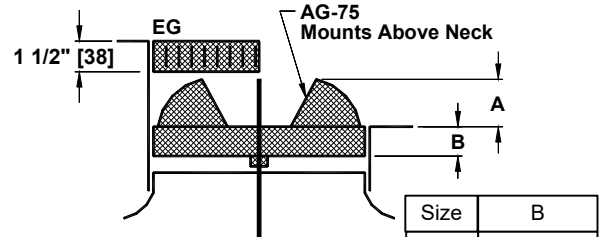
Accessories (Optional) Check  if provided.

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



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

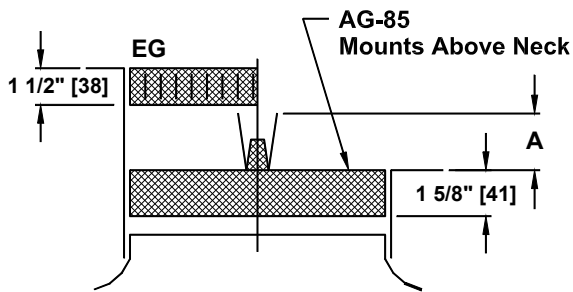
- Model AG-75 Radial Opposed Blade Damper
- Model EG Equalizing Grid



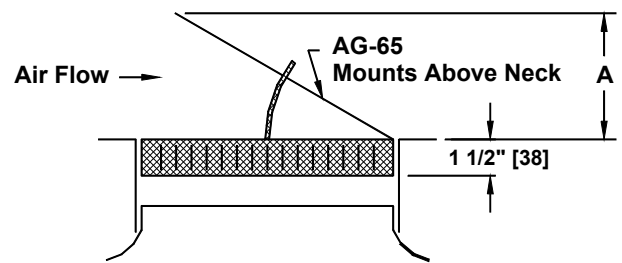
Size	B
6-12	1 1/2" [38]
14	2 1/8" [54]

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

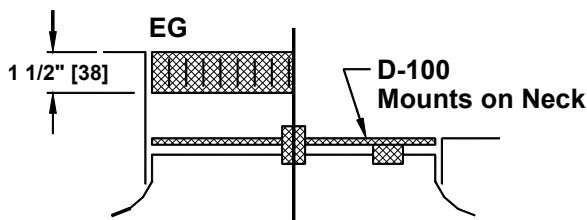
- Model AG-85 Butterfly Damper
- Model EG Equalizing Grid



- Model AG-65 Combination Damper and Equalizing Grid

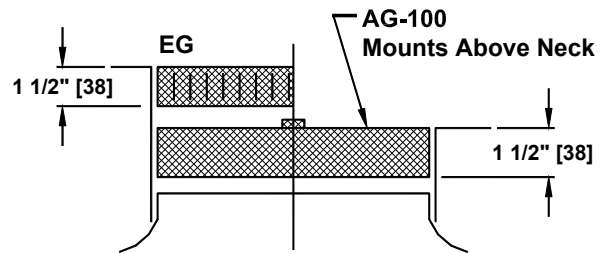


- Model D-100 Radial Sliding Blade Damper
- Model EG Equalizing Grid



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



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

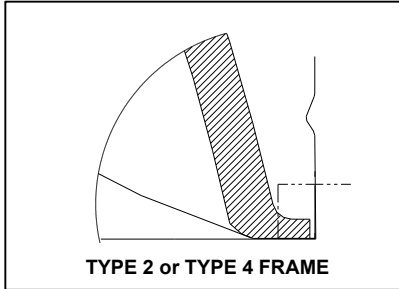
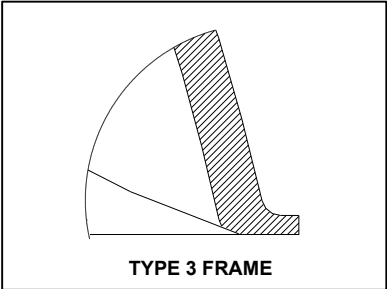
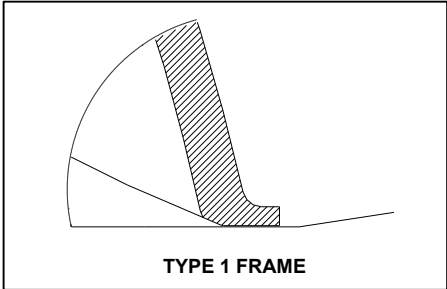
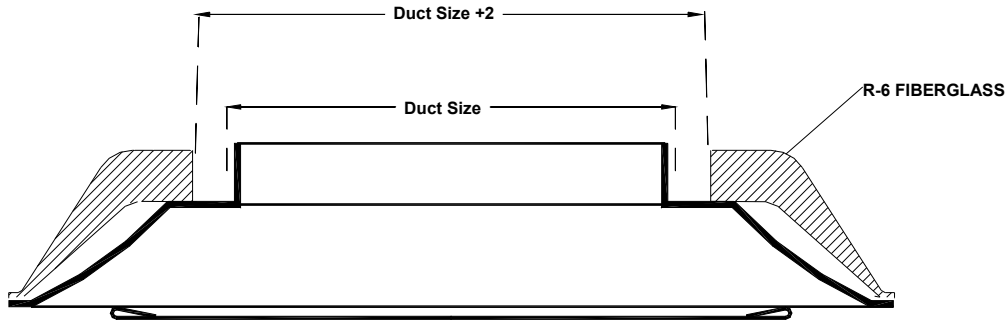
"A" Dimensions

Accessories	Nominal Round Duct Sizes							
	6	7	8	10	12	14	15	
D-75	2 3/8 [ 60 ]	2 7/8 [ 73 ]	3 1/4 [ 83 ]	4 1/8 [ 105 ]	4 7/8 [ 124 ]	N/A	N/A	
AG-75	2 3/4 [ 70 ]	3 1/4 [ 83 ]	3 5/8 [ 92 ]	4 1/2 [ 114 ]	5 3/8 [ 137 ]	2 3/4 [ 70 ]	3 [ 76 ]	
AG-85	2 1/2 [ 64 ]	3 [ 76 ]	3 1/2 [ 89 ]	4 1/2 [ 114 ]	5 1/2 [ 140 ]	6 1/2 [ 165 ]	7 [ 178 ]	
AG-65	3 3/8 [ 86 ]	4 [ 102 ]	4 1/2 [ 114 ]	5 1/2 [ 140 ]	7 1/8 [ 181 ]	8 5/8 [ 219 ]	9 [ 229 ]	
D-100	—	—	—	—	—	—	—	
AG-100	—	—	—	—	—	—	—	

Note:  
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.

Accessories (Optional) Check  if provided.

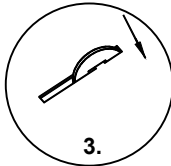
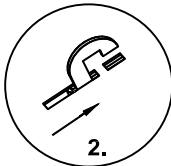
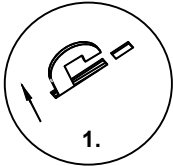
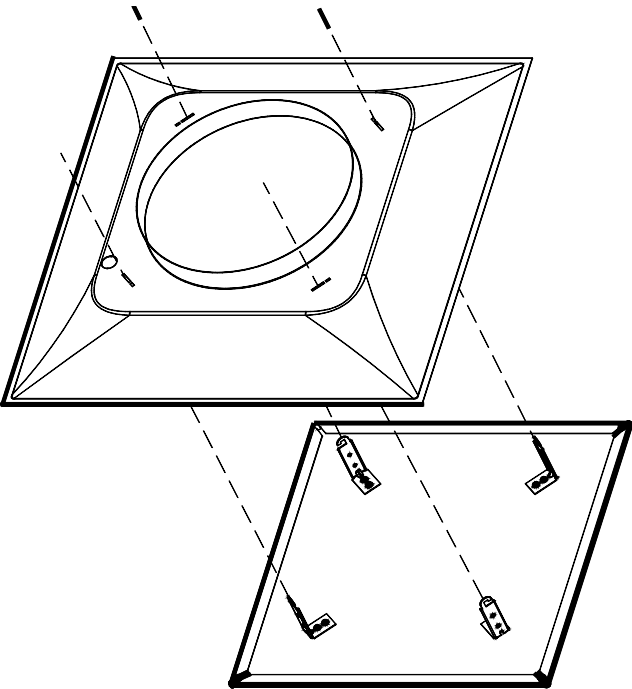
IB Molded Insulation Blanket



Insulation is R-6 where blanket has the most depth. One inch clearance on each side of neck is left for insulated duct connection. 24x24 Full face models only.

Installing and Removing Face Panel • Adjusting Optional Damper

24 x 24, 12 x 12 Module and 600 x 600mm Module



**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**

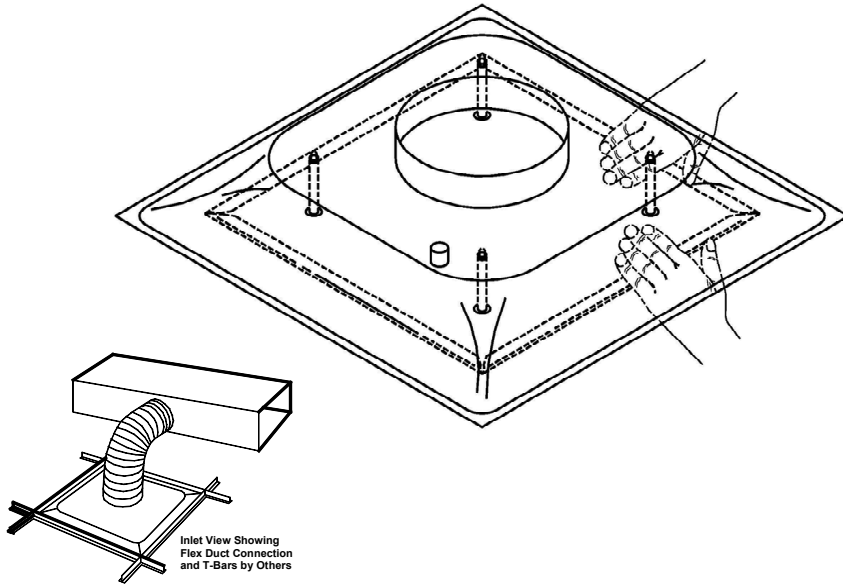
1. Lift the faceplate towards the backpan to disengage the hook brackets from the backpan slots.
2. Rotate the faceplate counter-clockwise.
3. Lower the faceplate away from the backpan.

**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

## Installing and Removing Face Panel • Adjusting Optional Damper

### 20 x 20 Module



#### Removing Face Panel

1. Place hands on one corner of face panel between face panel and backpan.
2. While pulling down on face panel, rotate hands to press upward against backpan.
3. Repeat steps 1 & 2 on remaining corners.

#### Replacing Face Panel

1. Line up rods of panel with openings in back pan.
2. Place hands under one corner of face panel and push until rod snaps into place.
3. Repeat steps 1 and 2 on remaining corners.

#### 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

Standard Finish: #26 White

### General Description

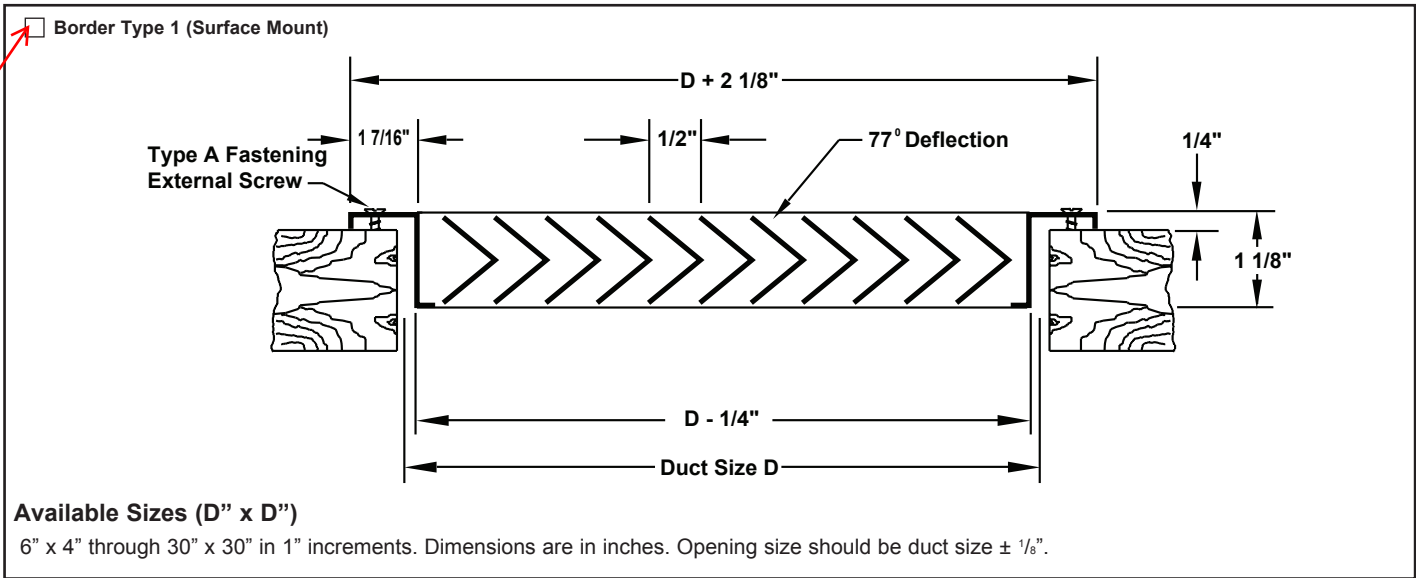
- The TITUS OMNI diffuser is designed to satisfy architectural as well as engineering criteria. Its strong, clean, unobtrusive lines harmonize with the ceiling system, without sacrificing performance.
- The curvature of the OMNI backpan works with the formed edges of the face panel to deliver a 3600 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, module size 24x24 [610x610] full face models.

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

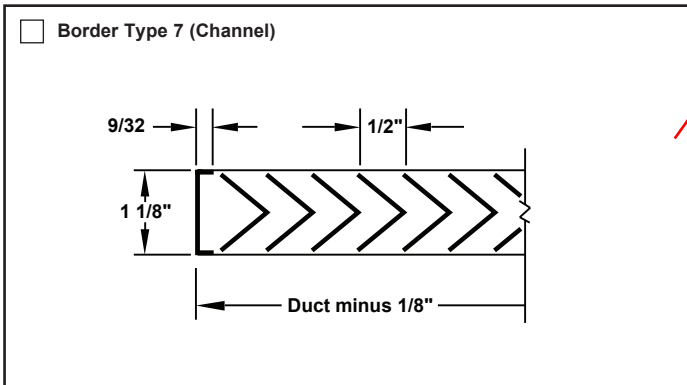
**Door Return Grille • Sight Proof Steel**

1X T700L1818

Model **T-700L • Long Blades**  
**T-700S • Short Blades**

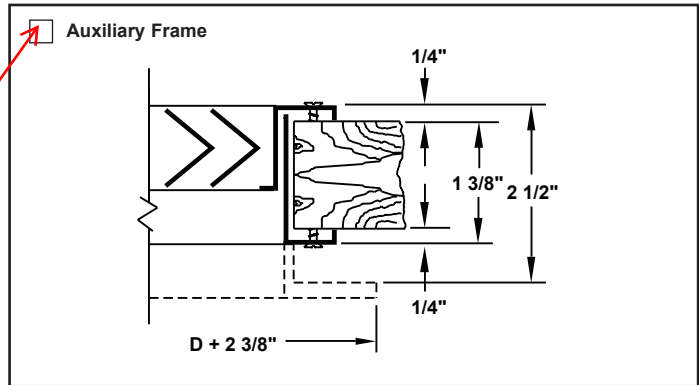


**Additional Border Type**



**Accessories (Optional)**

Check  if provided.



**Standard Finish:** #26 White

Optional finish \_\_\_\_\_

**General Description**

- Model T-700 offers the largest free area possible with a completely sight proof design.
- Widely used, not only in doors, but also in place of exhaust and return grilles where it is important that the interior of the plenum or duct be concealed.
- Inverted-V blades not only block vision but also provide stiffness.
- Provides exceptional resistance to bumps and kicks.
- Material is heavy duty 20 gauge steel.