

Addendum / Addenda

Project Description / Description de projet M19 Stores Amalgamation Phase 1		
Solicitation No./N° de sollicitation 17-22098	Project No./N° de projet 5463	W.O. No./N° d'ordre de travail A1-009908/99
Departmental Representative / représentant ministériel Janik Leroux		Date November 21, 2017
<p>Notice: This addendum shall form part of the tender documents and all conditions shall apply and be read in conjunction with the original plans and specifications.</p>		<p>Nota: Cet addenda fait partie intégrale des dossiers d'appel; toutes les conditions énoncées doivent être lues et appliquées en conjonction avec les plans et les devis originaux.</p>

Alternates

The proposed Titus products are an acceptable alternate, refer to attached.



To: **N.R.C.**

RE: **Bldg. M-19 - Stores**

November 20, 2017

Dear Alain,

After reviewing the plans on the above noted project, we at the Master Group would like to submit the following product for approval.

Item 1: Supply Diffuser

Tag: SDF-1

Our product: **Titus**

Item 2: Return Grille

Tag: RGR-1

Our Product: **Titus**

If you have any questions or are in need of further information, please feel free to contact me at 613-829-2816.

Thank you,

Adam Moons



DRAWINGS

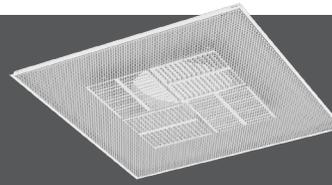
Grilles & Diffusers



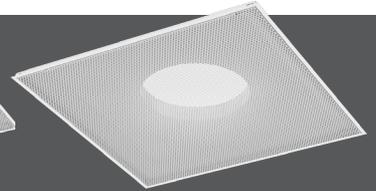
Perforated Ceiling Diffusers

PAS / PAR / PDS / PDR

- Titus perforated ceiling diffusers are designed for both heating and cooling applications
- Excellent performance in variable air volume systems
- A tight, uniform, horizontal blanket of air protects the ceiling against smudging
- Return models have the same face and border construction as the supply models, for harmonious appearance in the room
- Discharge pattern (supply models) can be adjusted to vertical as well as to 1-, 2-, 3- or 4-way horizontal. Can be adjusted before or after installation.
- Discharge pattern is easily adjusted by unlatching and dropping the perforated face, then rotating the pattern controllers
- Dropping the perforated face also gives access to the optional damper



PAS



PAR



metric sizes



See website for Specifications

AVAILABLE MODELS:

Steel Models:

PAS / Supply / Flush Face
PAR / Return / Flush Face
PDS / Supply / Drop Face
PDR / Return / Drop Face

Aluminum Models:

PAS-AA / Supply / Flush Face
PAR-AA / Return / Flush Face

FINISH

Standard Finish - #26 White

OVERVIEW

1-, 2-, 3-, or 4-Way Discharge Pattern

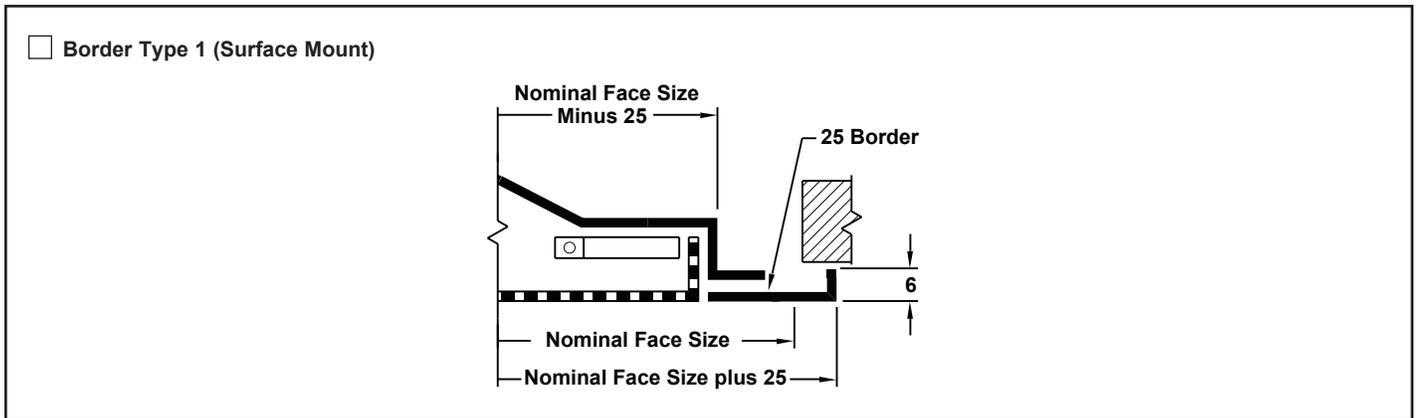
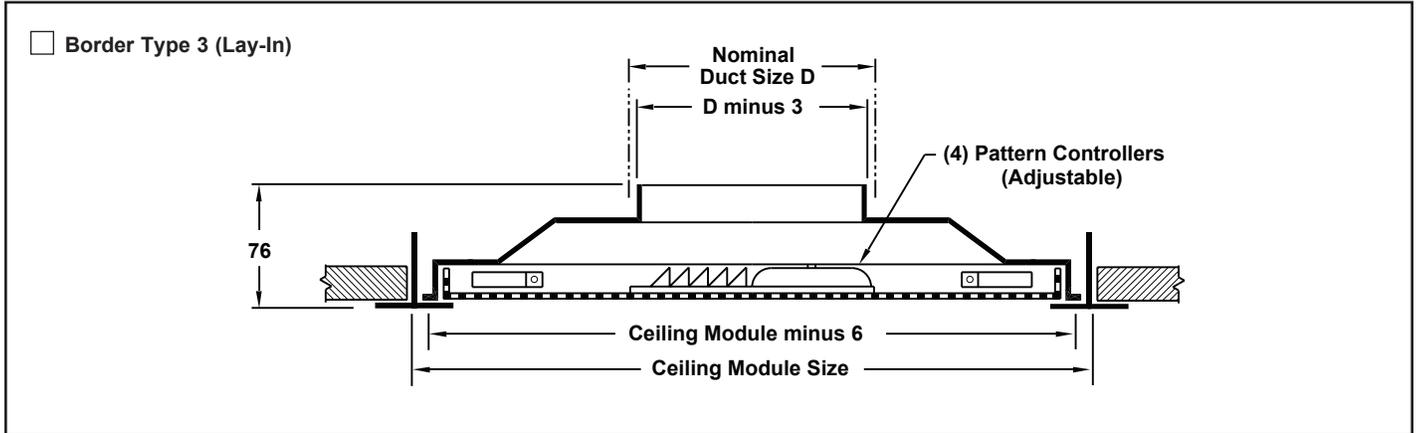
Perforated ceiling diffusers are typically selected to meet architectural demands for air outlets that blend into the ceiling plane. Titus perforated diffusers can be selected for a round pattern to maximize capacity or star pattern to maximize throw.

ADDITIONAL FEATURES

- Perforated face has $\frac{3}{16}$ " diameter holes on $\frac{1}{4}$ " staggered centers
- Inlet collar (neck) has ample depth for easy duct connection
- Material is heavy gauge steel backpan; steel or aluminum perforated face according to the model selected
- Optional factory-installed R-6 foil-backed insulation available for 24 x 24" full face models, neck sizes 6-16, borders 1, 2, 3 and 4

Perforated Ceiling Diffusers Steel • Flush Face

Model: MPAS • Supply • 1, 2, 3, or 4 Way Adjustable Discharge Pattern



Available Sizes for Border Types 1, 2, 3, 4, 4SL

Face or Ceiling Module Size	Nominal Duct Size D												
	152 x 152	203 x 203	254 x 254	305 x 305	381 x 381	457 x 457	457 x 152	152 Dia.	203 Dia.	254 Dia.	305 Dia.	355 Dia.	406 Dia.
305 x 305	•							•					
600 x 305	•						•	•					
406 x 406	•	•						•	•	•			
508 x 508	•	•	•					•	•	•	•	•	
600 x 600	•	•	•	•	•	•		•	•	•	•	•	•
1219 x 600	•	•	•	•				•	•	•	•	•	•

• Indicates available combination

All dimensions are in millimeters.

Removing Perforated Face

1. Lift diffuser up above grid.
2. Insert small screwdriver or other slim instrument to push latch inward from border.
3. Repeat on opposite side.
4. Face will now swing down with 2 remaining latches acting as hinges. For complete removal, release 2 remaining latches as at left.

Adjusting Pattern Controllers

Note: Diffusers are shipped with 4-way setting. Patterns can be adjusted before or after installation.

Accessories (Optional) for Round Neck

Check if provided

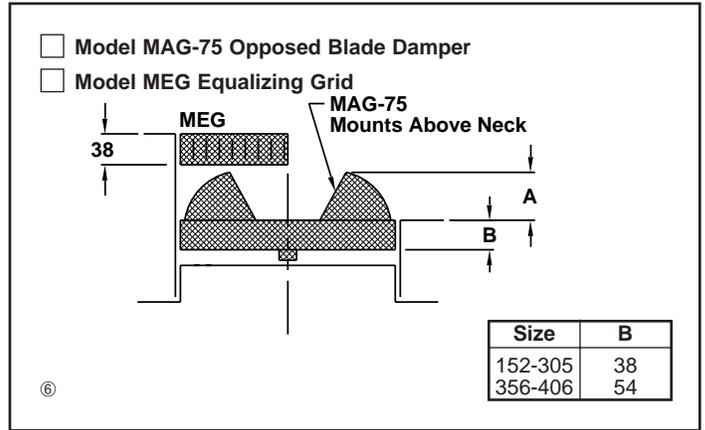
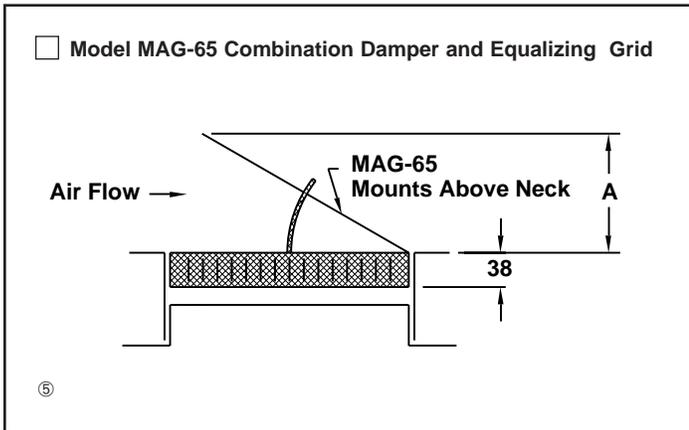
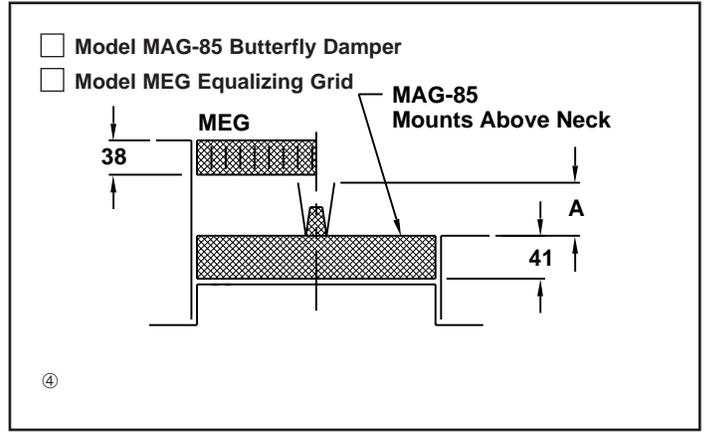
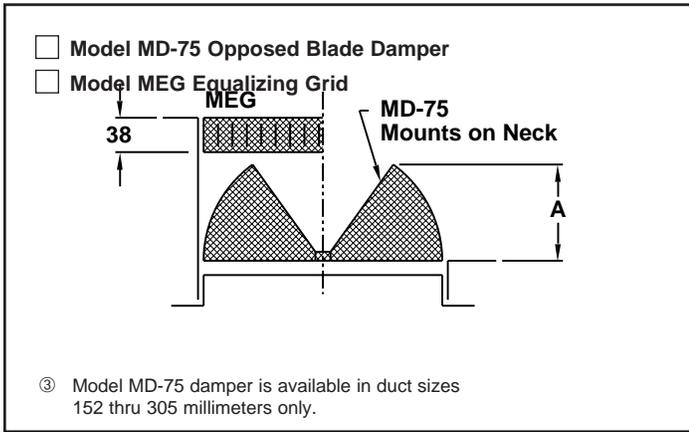
- Model MAG-100 Radial Sliding Blade Damper
- Model MEG Equalizing Grid

① Model MAG-100 damper is available in duct sizes 152 thru 356 millimeters only.

- Model MD-100 Radial Sliding Blade Damper
- Model MEG Equalizing Grid

② Model MD-100 damper is available in duct sizes 152 thru 356 millimeters only.

Accessories (Optional) for Round Neck, continued



Dimension "A" in millimeters, for Dampers Shown Above

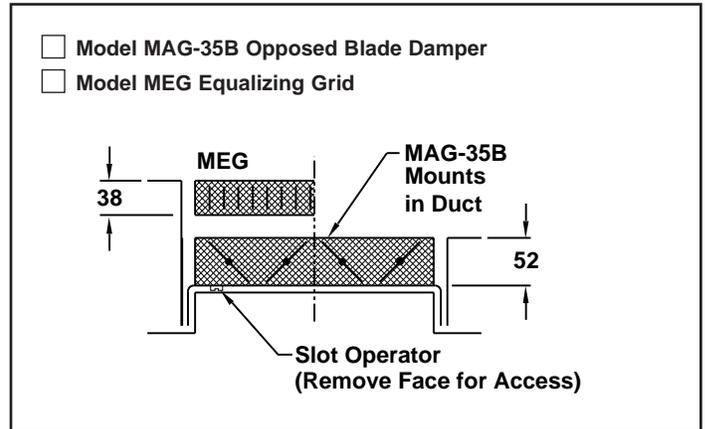
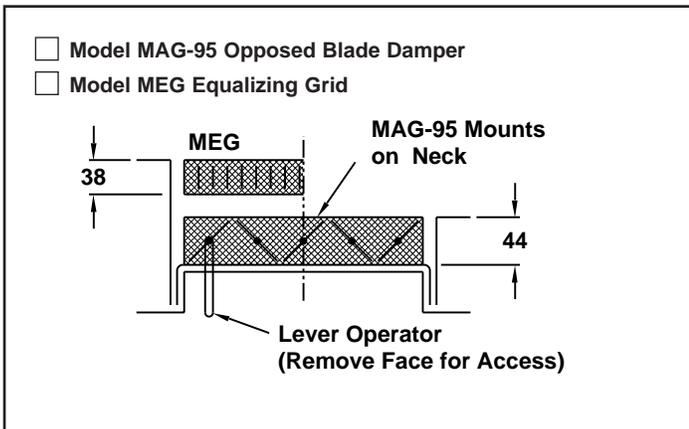
Accessories	Nominal Round Duct Sizes					
	152	203	254	305	356	406
① AG-100	—	—	—	—	—	N/A
② D-100	—	—	—	—	—	N/A
③ D-75	60	83	105	124	N/A	N/A
④ AG-85	64	89	114	140	165	191
⑤ AG-65	86	114	140	181	219	251
⑥ AG-75	108	130	152	175	70	89

Notes ① and ② :

Model MAG-100 and MD-100 dampers have radial blades that slide in a horizontal plane. For that reason, no opening clearance "A" is dimensioned.

Accessories (Optional) for Rectangular Neck

Check if provided

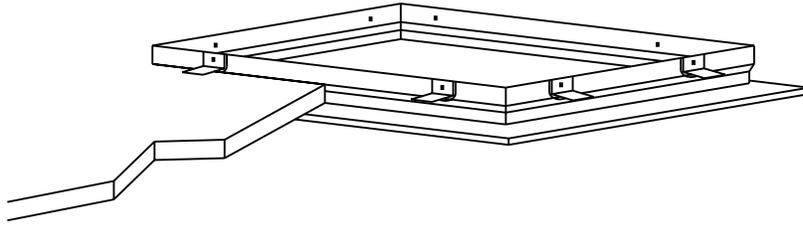


Dimensions are in millimeters.

Submittal MD-MPAS 2-28-13
Accessories (Optional)

Check if provided

MTRM TITUS Rapid Mount Frame



For Surface Mounting Border Type 3

Standard Finish: #26 White

General Description

- Model MPAS flush face perforated ceiling diffusers are designed to provide a uniform circular pattern.
- Excellent performance in variable air volume systems.
- A tight, uniform horizontal blanket of air protects the ceiling against smudging.
- Discharge pattern can be adjusted to vertical as well as to 1, 2, 3 or 4 way horizontal. Can be adjusted before or after installation.
- Discharge pattern is adjusted by dropping the perforated face (see Page 2) and rotating the pattern controllers.
- Dropping the perforated face also gives access for adjusting the optional dampers.
- Perforated face has 5mm diameter holes on 6mm staggered centers.
- Inlet collar is approximately 38mm deep to allow easy duct connection.
- Material is heavy gauge steel.



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.

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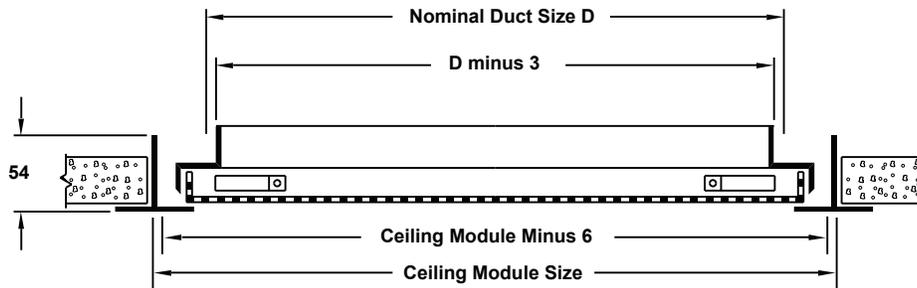
MD-13.0-S

Perforated Ceiling Diffusers

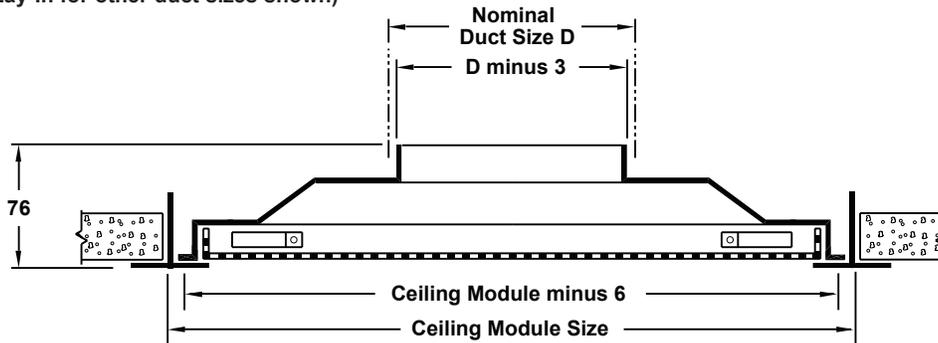
Steel • Flush Face

Model: MPAR • Return

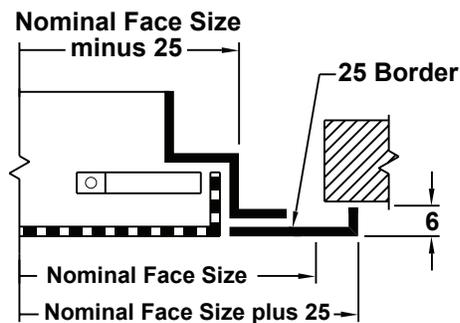
Border Type 3 (Lay-In when D=Module size 51)



Border Type 3 (Lay-In for other duct sizes shown)



Border Type 1 (Surface Mount)



Available Sizes for Border Types 1, 2, 3, 4, 4SL

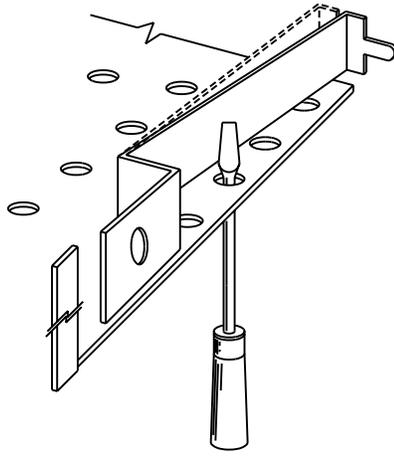
Face or Ceiling Module Size	Nominal Duct Size D																
	152 x 152	203 x 203	254 x 254	305 x 305	355 x 355	381 x 381	457 x 152	457 x 457	559 x 254	559 x 559	1168 x 559	152 Dia.	203 Dia.	254 Dia.	305 Dia.	356 Dia.	406 Dia.
305 x 305	•		•									•					
600 x 305	•						•			•		•					
406 x 406	•	•										•	•	•			
508 x 508	•	•	•									•	•	•	•	•	
600 x 600	•	•	•	•			•					•	•	•	•	•	•
1219 x 600	•	•	•	•			•					•	•	•	•	•	•

• Indicates available combination.

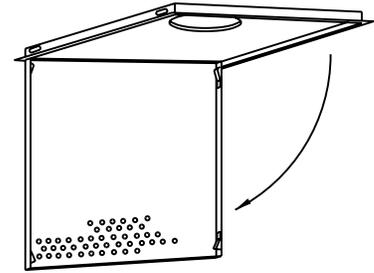
All dimensions are in millimeters.

Removing Perforated Face

1. Lift diffuser up above grid.
2. Insert small screwdriver or other slim instrument to push latch inward from border.
3. Repeat on opposite side.



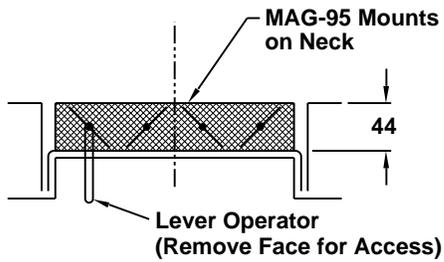
4. Face will now swing down with 2 remaining latches acting as hinges. For complete removal, release 2 remaining latches as at left.



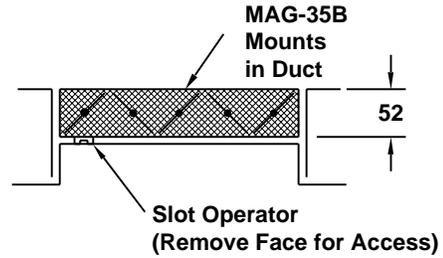
Accessories (Optional)

Check if provided

Model MAG-95 Opposed Blade Damper

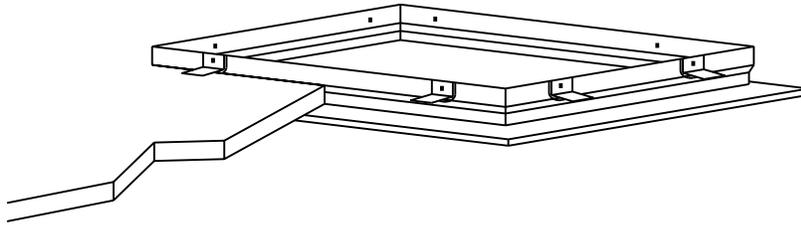


Model MAG-35B Opposed Blade Damper



All dimensions are in millimeters.

MTRM TITUS Rapid Mount Frame



For Surface Mounting Border Type 3

Standard Finish: #26 White

General Description

- Model MPAR flush face perforated ceiling diffusers are designed for use as returns to match the Model MPAS supply diffusers.
- Can be mounted in a plenum or connected to a return duct.
- Optional damper is easily adjusted by dropping the perforated face (see page 2).
- Perforated face has 5mm diameter holes on 6mm staggered centers.
- Material is heavy gauge steel.



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MD-14.0-S