



Airflow Direction Inc.

2 Livingston Lane, Newbury, MA 01951

Toll Free Tel: (888) 334-4545 <> Toll Free Fax: (888) 257-3555

Local Tel: (978) 462-9995 <> Local Fax: (978) 462-9996

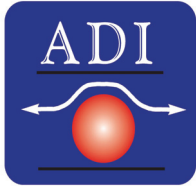
www.airflowdirection.com

Thank you for your interest in ADI !

For your convenience, please find attached...

- ✓ a **handy table** for determining a wall thickness from architectural plans;
- ✓ a **handy guide** on room pressure criteria to obtain a minimum of 0.01" w.c. (inches of water column) pressure to ensure airflow direction into or out of a room;
- ✓ suggested **Door Seals** from PEMKO to facilitate obtaining a desired room pressure;
- ✓ **ADI's Warranty**, and
- ✓ an **order form** for your use in procuring ADI products.

Please feel free to contact ADI for any general or technical questions you may have...



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ORDER FORM

Again, Thank You for you interest in ADI™

Please Note...

To order, please contact ADI for proper model numbers, quotation of price, terms of sale and warranties.

In order for ADI to process the order, please be sure to fill-out and return all of the following pages, except the last page which may not be applicable.

Also, because ADI's visual and visual-plus-alarm products are patented, ADI offers compensation for any information on infringement of ADI's patents, including those who make, sell, offer for sale or import similar visual and visual-plus-alarm products.

Thank you for choosing ADI™.

AIRFLOW DIRECTION INCORPORATED

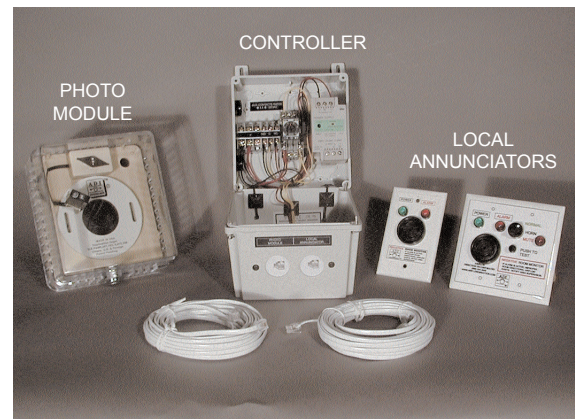
Baulin-tube[®] Indicator QUICK-REFERENCE SHEET

ADI's Baulin-tube[®] Indicators come in "Visual-Only" and "Visual-plus-Alarm" models. Each model is fully described in the ADI catalog. The model number nomenclature described below will help you specify the available options for ADI's Baulin-tube[®] Indicators.



Model ADI-69-V Series Visual-Only

Simple, reliable and no electricity required!



Model ADI-69-V+A Series Visual-plus-Alarm

Uses the visual-only Baulin-tube[®] indicator plus an electrical alarm function

ADI INDICATOR MODEL NUMBER NOMENCLATURE



Indicator Type:
V = Visual-Only
V+A = Visual-plus-Alarm

Room Type:
N = (V or V+A) Negative Room
P = (V or V+A) Positive Room
N/P = (V-Only) Manually Switchable between Negative & Positive. Comes with one set of magnetic Negative & Positive Room Labels.
CURVE = (V-Only) For Switchable Room. Comes with one Bi-Directional Label & one set of magnetic Negative & Positive Room Labels.

Finished Wall Thickness (inches):
 Use ADI's "Room Schedule Sheet" for multiple walls with different dimensions.

Security Options (V and V+A units):
Blank = None
INSEC = Inside Security Plate (roomside)
OUTSEC = Outside Security Cage

Local Annunciator Options (V+A units only):
M&T = With Mute & Test Function
NOM&T = Without Mute & Test Function
NOLOCAL = Without local annunciator.

Construction Barrier Option (V and V+A units):
CONST = for Temporary Negative Construction Barriers



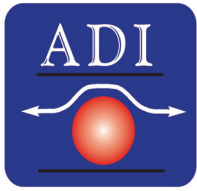
Patent Notice: ADI products are protected under one or more of the following patents: US [5,291,182] [5,410,298] [5,798,697] [5,661,461] and Canadian Patent 2107396. It is unlawful for any entity to make, use, sell offer-for-sale or import any similarity of this product without the express written consent of ADI.

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Note: When ordering different wall thickness indicators, leave Wall Thickness column blank and use attached "Room Schedule Sheet"

Note: Enter a "B" after inches for block or poured concrete walls and order the escutcheons

ORDER FORM

QTY	ADI Item #	Description	Wall Thickness (inch)	Cost Each	Cost Sub-Totals
VISUAL- ONLY INDICATORS					
	ADI-69-V-N	Visual Only-Negative Indicator			
	ADI-69-V-P	Visual Only-Positive Indicator			
	ADI-69-V-N/P	Visual Only-Manually Changeable with Neg & Pos Supplies*			
	ADI-69-V-CURVE	Visual Only-Neg/Pos Curved Indicator**			
VISUAL- ONLY INDICATORS WITH INSIDE SECURITY PLATE					
	ADI-69-V-N-INSEC	Visual Only-Neg w/inside plate			
	ADI-69-V-P-INSEC	Visual Only-Pos w/inside plate			
	ADI-69-V-N/P-INSEC	Visual Only-N/P (manual) w/inside plate			
VISUAL plus ALARM INDICATORS					
	ADI-69-V+A-N-NOLOCAL	Visual plus Alarm -Negative Indicator without Local Annunciator. For FMS or Remotes			
	ADI-69-V+A-P-NOLOCAL	Visual plus Alarm -Positive Indicator without Local Annunciator. For FMS or Remotes			
	ADI-69-V+A-N-NOM&T	Visual plus Alarm -Negative Indicator with Basic Local Annunciator (no Mute & Test)			
	ADI-69-V+A-P-NOM&T	Visual plus Alarm -Positive Indicator with Basic Local Annunciator (no Mute & Test)			
	ADI-69-V+A-N-M&T	Visual plus Alarm -Negative Indicator with Mute & Test Local Annunciator			
	ADI-69-V+A-P-M&T	Visual plus Alarm -Positive Indicator with Mute & Test Local Annunciator			
VISUAL plus ALARM INDICATORS W/ INSIDE SECURITY PLATE					
	ADI-69-V+A-N-NOM&T-INSEC	Visual plus Alarm-Neg With Basic Local (no Mute & Test) & inside security plate			
	ADI-69-V+A-P-NOM&T-INSEC	Visual plus Alarm-Pos With Basic Local (no Mute & Test) & inside security plate			
	ADI-69-V+A-N-M&T-INSEC	Visual plus Alarm-Neg With Mute & Test & inside security plate			
	ADI-69-V+A-P-M&T-INSEC	Visual plus Alarm-Pos With Mute & Test & inside security plate			
Freight Delivery Time (circle choice): Next-Day 2-Day Ground → Freight Cost					\$
SUB-TOTAL COST					\$

* Manually changeable between negative and positive modes.

Prices subject to change without notice 12/03/08

** Senses negative or positive mode without manual intervention.

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See ADI's catalog for a discussion table between the N/P and CURVE models.



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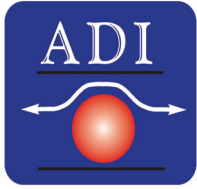
OPTIONAL ORDER FORM for OTHER ADI PRODUCTS.

DO NOT RETURN TO ADI IF YOU ARE NOT ORDERING ANY OF THESE ITEMS...

QTY	ADI Item #	Description	Cost Each	Cost Sub-Totals
	REMOTE ANNUNCIATORS			
	NOM&T	1 zone local annunciator without mute & test function		
	M&T	1 zone local annunciator with mute & test function		
	REMOTE-10-ZONE	2 to 10 zone remote annunciator		
	REMOTE-20-ZONE	2 to 20 zone remote annunciator		
	REMOTE-30-ZONE	2 to 30 zone remote annunciator		
	OUTSIDE SECURITY (Inside room security plate is under each indicator price in the ADI Indicator Order Form)			
	OUTSEC	Steel Outside Security Cover for Corridor or Anteroom		
	Freight Delivery Time (circle choice): Next-Day 2-Day Ground → Freight Cost			\$
SUB-TOTAL COST				

Prices subject to change without notice 12/03/08

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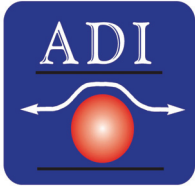
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Billing & Shipping Information:

Today's Date:		
	BILL TO:	SHIP TO:
Person*		
Dept		
Company*		
Street*		
City*		
State*		
Zip Code*		
Telephone*	()	* ()
Fax *	()	()
Your Purchasing Agent's Email Address*:		
Terms of Sale & Notices Have Been Read By (sign name):		
Requested Delivery Date:		
Payment Method:		
For Credit Card order, please indicate below or call ADI to give information:		
Card Type (circle one): VISA MasterCard		
Name on Card:		
Number on Card:		
Expiration Date:		
Your Reference Purchase Order Number to ADI:		
Reference Tag for Shipping Label:		

* Required for Billing and Shipping.



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End User Information, required for warranty purposes:

END USER INFORMATION	
Today's Date:	
Name of Facility:	
Project Name:	
Street Address:	
City/Town:	
State & Zip Code:	
Types of Rooms ADI Units are being Installed into (please check all that apply, enter types if not listed)	<input type="checkbox"/> Healthcare Protective Isolation Room (Positive Pressure) <input type="checkbox"/> Healthcare Infectious Isolation Room (Negative Pressure) <input type="checkbox"/> Healthcare Operating Rooms <input type="checkbox"/> Healthcare Endoscopy or Bronchoscopy Rooms <input type="checkbox"/> Healthcare Laboratory Rooms <input type="checkbox"/> Healthcare Other: _____ <input type="checkbox"/> Laboratory Containment Rooms (BL2,BL2+,BL3,BL4) <input type="checkbox"/> Laboratory Research Rooms <input type="checkbox"/> Laboratory Other: _____ <input type="checkbox"/> Pharmaceutical Clean Rooms <input type="checkbox"/> Pharmaceutical Research Rooms <input type="checkbox"/> Pharmaceutical Other: _____ <input type="checkbox"/> Animal Resource Holding Rooms <input type="checkbox"/> Animal Resource Procedure Rooms <input type="checkbox"/> Animal Resource Clean Corridor/Supply Rooms <input type="checkbox"/> Animal Resource Cagewash Rooms <input type="checkbox"/> Animal Resource Other: _____ <input type="checkbox"/> Correctional Facility/Room Types: _____ <input type="checkbox"/> Other: _____ _____



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Use this reference table to check your wall thickness and if the walls differ in thickness for a particular ADI indicator model number, please use the "ROOM SCHEDULE SHEET" in the order form.

WALL THICKNESS TABLE FOR ONE LAYER GWB ON BOTH SIDES * BE SURE TO ADD IF MORE THAN ONE LAYER ON EITHER SIDE (INCHES)			
METAL STUD	1/2"GWB	5/8"GWB	3/4"GWB
1-5/8	2-5/8	2-7/8	3-1/8
2	3	3-1/4	3-1/2
2-1/2	3-1/2	3-3/4	4
3	4	4-1/4	4-1/2
3-1/2	4-1/2	4-3/4	5
3-5/8	4-5/8	4-7/8	5-1/8
4	5	5-1/4	5-1/2
5-1/2	6-1/2	6-3/4	7
6	7	7-1/4	7-1/2

WALL THICKNESS TABLE FOR CMU BLOCK WALL (INCHES)	
NOMINAL	ACTUAL
3	2-5/8
4	3-5/8
5	4-5/8
6	5-5/8
8	7-5/8
10	9-5/8
12	11-5/8

Disclaimer: These are for guiding purposes according to common industry practice values. Please measure the actual materials on your application.



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IMPORTANT NOTE: CHECK YOUR APPLICATION FOR PROPER ROOM PRESSURE. THIS SHEET WILL HELP YOU. ALSO, SEE THE NEXT SHEET FOR DOOR SEALS (BY OTHERS) WHICH ARE HIGHLY RECOMMENDED.

PLEASE NOTE: ADI'S BAULIN-TUBE[®] REQUIRES A MINIMUM OF 0.007"W.C. DIFFERENTIAL PRESSURE WHEN INSTALLED WITH THE FAILSAFE FEATURE. A MINIMUM ROOM DIFFERENTIAL 0.01"W.C. IS RECOMMENDED AND REQUIRED BY MOST CODES.

This summary sheet is based on a written article concerning research conducted by Airflow Direction Inc. The summary is as follows:

When designing the HVAC system to obtain a desired room pressurization/directional airflow for 200+/- square foot (sf) rooms, we suggest you consider *:

- Rooms should have a minimum of 0.01"w.c. (0.05"w.c. preferred) of negative or positive pressure. Codes and industry regulations and practice may dictate specific limits.
- Rooms should have a differential airflow to obtain the 0.01"w.c. or higher. For 200+/- sf rooms, the best approach is to have the differential capability of 400 cfm and the ability to throttle down the differential to satisfy the 0.01"w.c. or higher. For 0.01"w.c., we have seen 400 cfm of differential airflow for a room that was thought to be well sealed. We have also seen a room requiring only 150 cfm of differential airflow. The range depends on ceiling, wall and window tightness, door seals and the existence of other supply or exhausts in the room.
- Air Balancer specs should be: Positive rooms: (+10%/-0%) for supply, (+0%/-10%) for exhaust. Negative rooms: (+10%/-0%) for exhaust, (+0%/-10%) for supply.
- For negative rooms, the makeup air should be provided via a supply outside the room. For positive rooms, the exfiltration of air should be accommodated by an exhaust outside the room.
- All room penetrations above and below the ceiling and the ductwork should be well-sealed.
- The ceiling should be as tight as possible, preferably sheetrock or concrete deck.
- Specify surface mount or recessed vaportight or non-return-air light fixtures.
- Each entry door to the room should be sealed on its top and sides (including astragal vertical joint seal for leaf or double doors) and include an adjustable bottom seal.
- A sliding entry door is preferred over a swing door. If a swing door is used, it should open out of a negative room or open into a positive room.
- Anterooms should be used whenever possible with 12 air changes per hour (ACH) minimum (codes and industry regulations and practice may dictate higher values) and a neutral pressure where the supply and exhaust airflow quantities are equal.
- An airflow direction indicator should be installed to visually see the dynamics of the room pressurization.

* Note: This summary is for informational purposes only and is not intended to be a substitute for an HVAC design performed and stamped by a state registered, licensed professional engineer, following good engineering practice as well as conformance to any applicable codes and regulations.



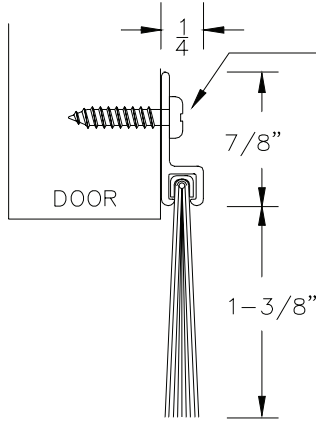
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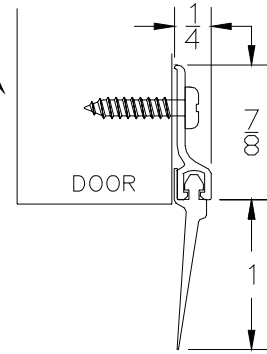
PEMKO

MODEL 18137_P
DOOR BOTTOM
NYLON BRUSH
SWEEP/SEAL

No. 6 x 5/8" PHSMS
(Factory Provided)

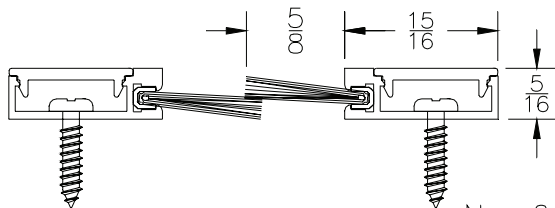
ADD-ON DOOR BOTTOM
SWEEP/SEALS

NYLON BRUSH IS PREFERRED
OVER VINYL FOR LONGEVITY
AND SLIGHTLY UNEVEN FLOORS



PEMKO

MODEL 307_V
DOOR BOTTOM
VINYL SWEEP/SEAL

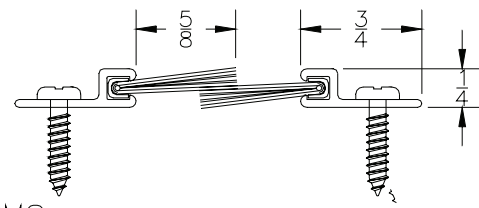


PEMKO

MODEL 29326_P-2
DOOR ASTRAGAL
NYLON BRUSH,
CONCEALED SCREWS

No. 6 x 5/8" PHSMS
(Factory Provided)

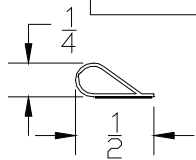
ADD-ON DOOR VERTICAL
JOINT SEAL FOR GAP BETWEEN
TWO SWINGABLE DOORS



PEMKO

MODEL 18061_P2
DOOR ASTRAGAL
NYLON BRUSH,
EXPOSED SCREWS

ADD-ON DOOR EDGE SEAL
FOR DOOR FRAME TOP & SIDES



PEMKO

MODEL S88
VINYL, COMPRESSION,
ADHESIVE BACK.

FOR PEMKO SALES, CONTACT PEMKO:

WEST COAST USA

800-283-9988

805-642-2600

EAST COAST USA

800-824-3018

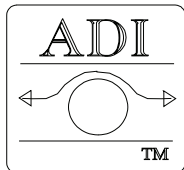
901-365-2160

CANADA

877-535-7888

604-855-6886

WWW.PEMKO.COM



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Title:

DOOR SEALS

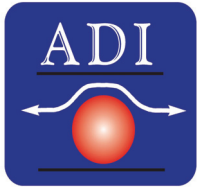
Dwg:

PEMKO DOOR SEALS.DWG

Date:

11-17-03

Rev:



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WARRANTY

Airflow Direction Incorporated (ADI) warrants the tube, tube-end-caps, end-dome-covers, and backplates, under normal use and service as described in the installation instructions and the operation and maintenance manual, shall be free from defects in workmanship and material during the life of the installation of the units. If one of these components becomes non-conforming to ADI's standards, contact ADI for a Return Merchandise Authorization (RMA) number and return to ADI for a free replacement. For all other components furnished by ADI, ADI warrants the parts for one year after shipment; if the warranty is within that year, contact ADI for a Return Merchandise Authorization (RMA) number and a free replacement.

The Installer is responsible to properly follow ADI's installation instructions furnished by ADI. During normal use of ADI's indicators, as described in the ADI-furnished and Installer-installed wall label, along with the ADI furnished operation and maintenance instructions, the End-User is responsible to observe the indicator and check the operation of ADI's SELF-CHECK feature, as often as necessary to avoid a potential unwanted situation with the facility or ADI's product. Therefore, to the extent permitted by law, the End-User or Buyer's exclusive and sole remedy for any and all claimed liability, losses, injuries, or damages concerning the purchased ADI product, shall only be a free replacement of the purchased ADI product. ADI shall not be liable for any incidental labor and costs to replace the product in the field or for any special, direct, indirect, consequential or incidental damages to anyone by reason of the fact that ADI's product shall have been defective.

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