



# AUTOMATIC DOOR BOTTOMS

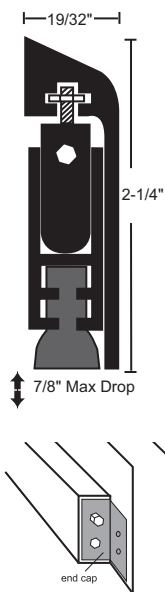
## INSTALLATION INSTRUCTIONS FOR PRIOR MODEL STYLES

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We've recently reengineered our entire line of ADBs to provide you with better quality products that are easy to inventory and easy to install. However, you may find yourself looking for installation instructions for a legacy ADB model. In that case, please refer to this document where we have provided you all of the installation instructions from our previous models. Click on a model number below to access the appropriate instructions.

MODEL	DESCRIPTION
<a href="#"><u>220N/S/WH</u></a>	Anodized Aluminum ADB
<a href="#"><u>420N</u></a>	Anodized Aluminum Heavy-Duty Surface, ADB
<a href="#"><u>520N</u></a>	Anodized Aluminum Heavy-Duty Surface, ADB
<a href="#"><u>680</u></a>	Anodized Aluminum Heavy-Duty Surface, ADB
<a href="#"><u>222N/S/WH</u></a>	Anodized Aluminum ADB
<a href="#"><u>229N/S/WH</u></a>	Brass/Stainless Steel ADB
<a href="#"><u>225N/S/WH</u></a>	Mill Aluminum Mortise ADB
<a href="#"><u>335N/S</u></a>	Mill Aluminum Mortise ADB
<a href="#"><u>423N</u></a>	Mill Aluminum Heavy-Duty Mortise ADB
<a href="#"><u>683</u></a>	Mill Aluminum Heavy-Duty Mortise ADB
<a href="#"><u>320N/S/V</u></a>	Mill Aluminum ADB for Hollow Metal Doors
<a href="#"><u>4441</u></a>	Anodized Aluminum ADB

## 220, 221, 229, 310 Surface Mounted Automatic Door Bottom



**WARNING:** Neoprene products can expose you to chemicals including chloroprene, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**WARNING:** Do not pull drop bar out of case unless disengaged from spring or damage will occur and void warranty.

**IMPORTANT NOTE:** Re-hand door bottom if necessary, prior to cutting length (see below).

### Installation Instructions

1. If nylon brush gasket: Slide brush clear when cutting case and drop bar.
2. For single doors cut door bottom 1/8" shorter than distance between stops on frame. For pairs cut 1/16" shorter than distance between stop on frame and meeting edge of door. Do not cut until drop bar is EXTENDED in down position. Insert the (2) nails provided into small holes on the side of the drop bar to keep bar extended while cutting. **MAXIMUM CUT** door bottoms 36" and longer = 4", shorter than 36" should not be filed cut - order net length.
3. If nylon brush gasket: cut brush using the cutting section of pliers or diagonal cutters. If bristles are not secure, use a drop of adhesive to secure the brush.
4. Do not trim excess gasket from adjusting rod end, as bar is designed to shift slightly toward lock edge of door when activated.
5. With door closed, position on push side of door with adjusting rod toward hinge edge. Align bottom of case flush with bottom of door and 1/16" clearance at each end, mark screw holes.
6. Drill pilot holes for screws using 9/64" drill bits. For model 221 top flange screws, drill pilot holes using 5/64" drill bit.
7. Install with screws provided. Tighten center mounting screw snug first, then tighten remaining mounting screws. Do not over tighten.
8. Set adjusting rod for proper seal. To reduce drop, turn adjusting rod right; to increase drop, turn adjusting rod left. Once hinge end of drop bar makes solid contact, other end will drop.

### REHANDING:

1. Remove adjusting rod by turning left.
2. Remove coil spring and nut from adjusting rod. Slide adjusting rod out of rod guide.
3. Remove drop bar by unhooking from spring.
4. Unscrew rod guide (except model 310) and install on opposite end, With guide approximately 3/4" from end.
5. Measure distance from end of door bottom to center of screw that holds spring. This exact dimension will be required on opposite end in next step.
6. Unscrew spring from case. Re-attach at opposite end at precisely same dimension measured.
7. Re-attach drop bar.
8. Slide adjusting rod thru rod guide on opposite end. Re-attach nut and coil spring to rod in original position.



POSITIVE PRES-SURE TESTED GASKETING MATERIALS FOR FIRE DOORS.

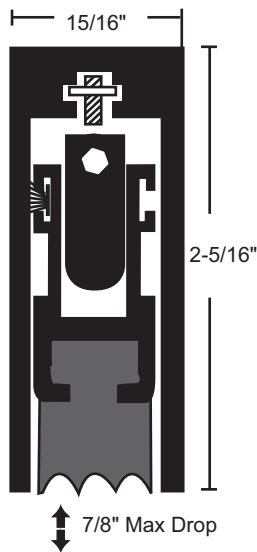
FOR APPLICATION TO HOL-LOW-METAL-TYPE FIRE DOORS, RATED UP TO 3 HOURS AND WOOD-TYPE FIRE DOORS, RATED UP TO 1-1/2 HOURS. CATEGORY H

Smoke & Draft Control Gasketing (Category H) tested to UL 1784; meets requirements of NFPA 105, IBC for use on 'S' label doors.

## 420N/520N Automatic Door Bottom



**WARNING:** Neoprene products can expose you to chemicals including chloroprene, which is known to the State of California to cause cancer and/or developmental and reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



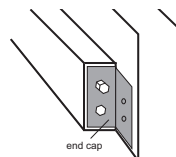
**WARNING:** Do not pull drop bar out of case unless disengaged from spring or damage will occur and void warranty.

### Installation Instructions

1. For single doors cut 1/8" shorter than distance between stops on frame. For pairs cut 1/16" shorter than distance between stop on frame and meeting edge of door. - DO NOT CUT UNTIL DROP BAR IS EXTENDED IN DOWN POSITION. Insert (2) nails provided into the small holes on the side of the drop bar to keep drop bar extended while cutting. Do not cut from end with adjusting rod. MAXIMUM CUT door bottoms 36" and longer = 4", shorter than 36" should not be field cut, order net length.
2. With door closed, position on push side of door with adjusting rod toward hinge edge. Align bottom of case flush with bottom of door and 1/16" clearance at each end, mark screw holes.
3. Drill pilot holes for screws using 11/64" drill bit.
4. Install with screws provided. DO NOT OVERTIGHTEN.
5. Set adjusting rod for proper seal. To reduce drop, turn adjusting rod right. To increase drop, turn adjusting rod left. Once hinge end of drop bar makes solid contact, other end will drop. MAXIMUM drop = 7/8".
6. End cap with hexagon holes should be mounted to door at hinge side end to hold adjustment once set. Install as illustrated below with screws provided. Blank end cap may be installed at other end on single doors only, if desired.

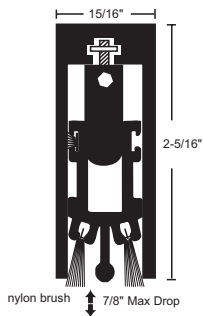


POSITIVE PRESSURE TESTED GASKETING MATERIALS  
FOR FIRE DOORS  
FOR APPLICATION TO HOLLOW-METAL-TYPE FIRE DOORS  
RATED UP TO 3 HOURS AND WOOD-TYPE FIRE DOORS  
RATED UP TO 1-1/2 HOURS.  
CATEGORY H



Smoke and Draft Control gasketing (Category H) tested to UL 1784; meets requirements of NFPA 105, IBC for use on "S" label doors.

## 680 Automatic Door Bottom



**WARNING:** Do not pull drop bar out of case unless disengaged from spring or damage will occur and void warranty.

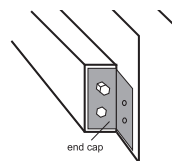
**Caution:** Nylon brush must be cut separately from case and drop bar.

### Installation Instructions

1. Slide brush clear when cutting case and drop bar.
2. For single doors cut 1/8" shorter than distance between stops on frame. For pairs cut 1/16" shorter than distance between stop on frame and meeting edge of door. - DO NOT CUT UNTIL DROP BAR IS EXTENDED IN DOWN POSITION. Insert (2) nails provided in small holes on the side of the drop bar to keep drop bar extended while cutting. Do not cut from end with adjusting rod. MAXIMUM CUT - door bottoms 36" and longer = 4", shorter than 36" should not be field cut - order to net length.
3. Cut brush using the cutting section of pliers or diagonal cutters. If bristles are not secure, use a drop of adhesive to secure the brush.
4. With door closed, position on push side of door with adjusting rod toward hinge edge. Align bottom of case, flush with bottom of door and 1/16" clearance at each end, mark screw holes
5. Drill pilot holes for screws using 1-1/64" drill bit.
6. Install with screws provided. DO NOT Overtighten.
7. Set adjusting rod for proper seal. To reduce drop, turn adjusting rod right. To increase drop, turn adjusting rod left. Once hinge end of drop bar makes solid contact, other end will drop. MAXIMUM drop = 7/8".
8. End cap with hexagon holes should be mounted to door at hinge side end to hold adjustment once set. Install as illustrated below with screws provided. Blank end cap may be installed at other end on single doors only, if desired.

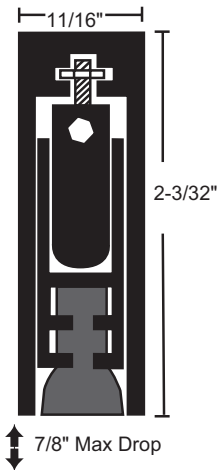


POSITIVE PRESSURE TESTED GASKETING MATERIALS  
FOR FIRE DOORS  
FOR APPLICATION TO HOLLOW-METAL-TYPE FIRE DOORS  
RATED UP TO 3 HOURS AND WOOD-TYPE FIRE DOORS  
RATED UP TO 1-1/2 HOURS.  
CATEGORY H



Smoke and Draft Control gasketing (Category H) tested to UL 1784; meets requirements of NFPA 105, IBC for use on "S" label doors.

## 222 Automatic Door Bottom



**WARNING:** Neoprene products can expose you to chemicals including chloroprene, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

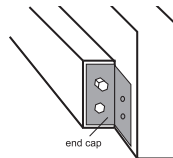
**WARNING:** Do not pull drop bar out of case unless disengaged from spring or damage will occur and void warranty.

### Installation Instructions

1. IF NYLON BRUSH GASKET: Slide brush clear when cutting case and drop bar.
2. For single doors cut door bottom 1/8" shorter than distance between stops on frame. For pairs cut 1/16" shorter than distance between stop on frame and meeting edge of door. Do not cut from end with adjusting rod. Do not cut until drop bar is extended in down position. Insert the (2) nails provided into the small holes located on the side of the drop bar to keep drop bar extended while cutting. MAXIMUM CUT door bottoms 36" and longer = 4", shorter than 36" should not be field cut, order net length.
3. IF NYLON BRUSH GASKET: Cut brush using the cutting section of pliers or diagonal cutters. If bristles are not secure, use a drop of adhesive to secure the brush.
4. With door closed, position on push side of door with adjusting rod toward hinged edge. Align bottom of case flush with bottom of door and 1/16" clearance at each end, mark screw holes.
5. Drill pilot holes for screws using 9/64" drill bit.
6. Install with screws provided. Do not over tighten.
7. Set adjusting rod for proper seal. To reduce drop, turn adjusting rod right, to increase drop, turn adjusting rod left. Once hinge end of drop bar makes solid contact, other end will drop. MAXIMUM DROP = 7/8"

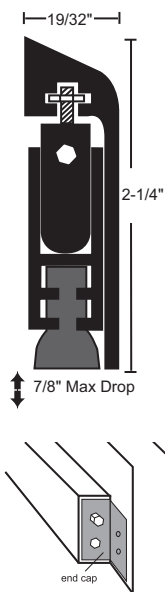


POSITIVE PRESSURE TESTED GASKETING MATERIALS  
FOR FIRE DOORS  
FOR APPLICATION TO HOLLOW-METAL-TYPE FIRE DOORS  
RATED UP TO 3 HOURS AND WOOD-TYPE FIRE DOORS  
RATED UP TO 1-1/2 HOURS.  
CATEGORY H



Smoke and Draft Control  
gasketing (Category H) tested to UL 1784; meets requirements of NFPA  
105, IBC for use on "S" label doors.

## 220, 221, 229, 310 Surface Mounted Automatic Door Bottom



**WARNING:** Neoprene products can expose you to chemicals including chloroprene, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**WARNING:** Do not pull drop bar out of case unless disengaged from spring or damage will occur and void warranty.

**IMPORTANT NOTE:** Re-hand door bottom if necessary, prior to cutting length (see below).

### Installation Instructions

1. If nylon brush gasket: Slide brush clear when cutting case and drop bar.
2. For single doors cut door bottom 1/8" shorter than distance between stops on frame. For pairs cut 1/16" shorter than distance between stop on frame and meeting edge of door. Do not cut until drop bar is EXTENDED in down position. Insert the (2) nails provided into small holes on the side of the drop bar to keep bar extended while cutting. **MAXIMUM CUT** door bottoms 36" and longer = 4", shorter than 36" should not be filed cut - order net length.
3. If nylon brush gasket: cut brush using the cutting section of pliers or diagonal cutters. If bristles are not secure, use a drop of adhesive to secure the brush.
4. Do not trim excess gasket from adjusting rod end, as bar is designed to shift slightly toward lock edge of door when activated.
5. With door closed, position on push side of door with adjusting rod toward hinge edge. Align bottom of case flush with bottom of door and 1/16" clearance at each end, mark screw holes.
6. Drill pilot holes for screws using 9/64" drill bits. For model 221 top flange screws, drill pilot holes using 5/64" drill bit.
7. Install with screws provided. Tighten center mounting screw snug first, then tighten remaining mounting screws. Do not over tighten.
8. Set adjusting rod for proper seal. To reduce drop, turn adjusting rod right; to increase drop, turn adjusting rod left. Once hinge end of drop bar makes solid contact, other end will drop.

### REHANDING:

1. Remove adjusting rod by turning left.
2. Remove coil spring and nut from adjusting rod. Slide adjusting rod out of rod guide.
3. Remove drop bar by unhooking from spring.
4. Unscrew rod guide (except model 310) and install on opposite end, With guide approximately 3/4" from end.
5. Measure distance from end of door bottom to center of screw that holds spring. This exact dimension will be required on opposite end in next step.
6. Unscrew spring from case. Re-attach at opposite end at precisely same dimension measured.
7. Re-attach drop bar.
8. Slide adjusting rod thru rod guide on opposite end. Re-attach nut and coil spring to rod in original position.

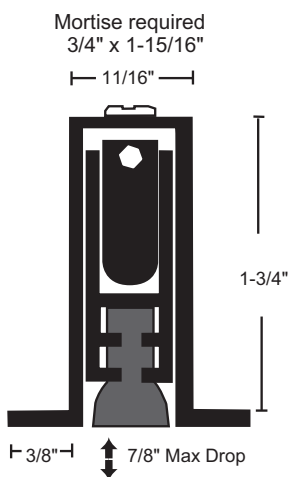


POSITIVE PRES-SURE TESTED GASKETING MATERIALS FOR FIRE DOORS.

FOR APPLICATION TO HOL-LOW-METAL-TYPE FIRE DOORS, RATED UP TO 3 HOURS AND WOOD-TYPE FIRE DOORS, RATED UP TO 1-1/2 HOURS. CATEGORY H

Smoke & Draft Control Gasketing (Category H) tested to UL 1784; meets requirements of NFPA 105, IBC for use on 'S' label doors.

## 225 Mortise Mounted Automatic Door Bottom



**WARNING:** Neoprene products can expose you to chemicals including chloroprene, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**WARNING:** Do not pull drop bar out of case unless disengaged from spring or damage will occur and void warranty.

### Installation Instructions

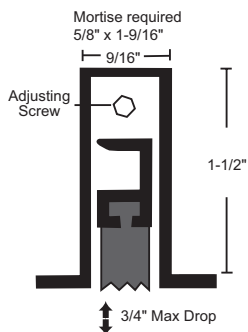
1. Mortise bottom of door on center line 3/4" x 1-15/16" deep.
2. IF NYLON BRUSH GASKET: slide brush clear when cutting case and drop bar.
3. Cut door bottom to net width of door. DO NOT CUT UNTIL DROP BAR IS EXTENDED IN DOWN POSITION. Insert the (2) nails provided into the small holes located on the side of the drop bar, to keep drop bar extended while cutting.  
Do not cut from end with adjusting rod. MAXIMUM CUT door bottoms 36" and longer = 4", shorter than 36" should not be field cut, order net length.
4. Position door bottom in mortise with actuator rod toward hinge edge; mark screw holes.
5. Drill pilot holes for screws using 5/64" drill bit.
6. Install door bottom with adjusting rod at hinge side of door.
7. Set adjusting rod for proper seal. To reduce drop, turn adjusting rod right, to increase drop turn to left. Once hinge end of drop bar makes solid contact, other end will drop. Maximum drop = 7/8".
8. Do not trim excess gasket from adjusting rod end, as bar is designed to shift slightly toward lock edge of door when activated.



POSITIVE PRESSURE TESTED GASKETING MATERIALS  
FOR FIRE DOORS  
FOR APPLICATION TO HOLLOW-METAL-TYPE FIRE DOORS  
RATED UP TO 3 HOURS AND WOOD-TYPE FIRE DOORS  
RATED UP TO 1-1/2 HOURS.  
CATEGORY H

Smoke and Draft Control gasketing (Category H) tested to UL 1784; meets requirements of NFPA 105, IBC for use on "S" label doors.

## 335 Mortise Mounted Door Bottom



**WARNING:** Do not pull drop bar out of case unless disengaged from spring or damage will occur, and void warranty.

### Installation Instructions

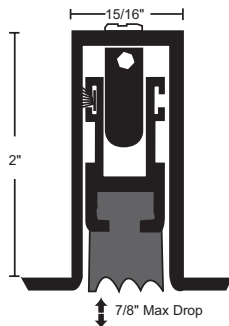
1. Cut door bottom to exact net width of door. Do not extend drop bar while cutting. Do not cut from end with adjusting rod. **MAXIMUM CUT** door bottoms 36" and longer = 4", shorter than 36" should not be field cut - order net length.
2. Mortise bottom of door on center line 5/8" wide x 1-9/16" deep.
3. Position door bottom in mortise with actuator rod toward hinge edge; mark screw holes.
4. Drill pilot holes for screws using 5/64" drill bit.
5. Install door bottom with adjusting rod at the hinged side of door .
6. Set adjusting rod for proper seal. To reduce drop, turn adjusting rod right; to increase drop turn left. **NOTE:** Once hinged end of drop bar makes solid contact, other end will drop. Maximum drop = 3/4".



POSITIVE PRESSURE TESTED GASKETING MATERIALS  
FOR FIRE DOORS  
FOR APPLICATION TO HOLLOW-METAL-TYPE FIRE DOORS  
RATED UP TO 3 HOURS AND WOOD-TYPE FIRE DOORS  
RATED UP TO 1-1/2 HOURS.  
CATEGORY H

Smoke and Draft Control gasketing (Category H) tested to UL 1784; meets requirements of NFPA 105, IBC for use on "S" label doors.

## 422N/423N/522N Mortise Automatic Door Bottom



**WARNING:** Do not pull drop bar out of case unless disengaged from spring or damage will occur and void warranty.

### Installation Instructions

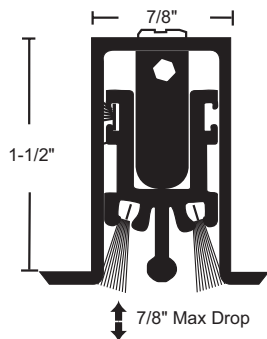
1. Mortise bottom of door on center line for Model 422N, 522N: 1" wide x 2-1/8" deep, Model 423: 15/16" wide x 1-5/8" deep.
2. Cut door bottom to exact net width of door. **DO NOT CUT UNTIL DROP BAR IS EXTENDED IN DOWN POSITION.** Insert the (2) nails provided into the small holes on the side of the drop bar to keep drop bar extended while cutting. Do not cut from end with adjusting rod. **MAXIMUM CUT-** door bottoms 36" and longer = 4", shorter than 36" should not be field cut - order net length.
3. Position door bottom in mortise with actuator rod toward hinge edge; mark screw holes.
4. Drill pilot holes for screws using 5/64" drill bit.
5. Install door bottom with adjusting rod at hinged side of door.
6. Set adjusting rod for proper seal. To reduce drop, turn adjusting rod right. To increase drop, turn adjusting rod left. Once hinge end of drop bar makes solid contact, other end will drop. **MAXIMUM drop** Model 422N, 522N = 7/8", Model 423 = 3/4".
7. Install end caps to ends of the door bottom, with screws provided.



POSITIVE PRESSURE TESTED GASKETING MATERIALS  
FOR FIRE DOORS  
FOR APPLICATION TO HOLLOW-METAL-TYPE FIRE DOORS  
RATED UP TO 3 HOURS AND WOOD-TYPE FIRE DOORS,  
RATED UP TO 3/4 HOUR FOR MODELS 422N AND 522N,  
1-1/2 HOURS FOR MODEL 423N.  
CATEGORY H

Smoke and Draft Control gasketing (Category H) tested to UL 1784; meets requirements of NFPA 105, IBC for use on "S" label doors.

## 682 / 683 Mortise Automatic Door Bottom



**WARNING:** Do not pull drop bar out of case unless disengaged from spring or damage will occur and void warranty.

**Caution:** Nylon brush must be cut separately from case and drop bar.

### Installation Instructions

1. Mortise bottom of door on center line for Model 682: 1" wide x 2-1/8" deep, Model 683: 15/16" wide x 1-5/8" deep.
2. Slide brush clear when cutting case and drop bar.
3. Cut door bottom to exact net width of door. **DO NOT CUT UNTIL DROP BAR IS EXTENDED IN DOWN POSITION.** Insert the (2) nails provided into the small holes on the side of the drop bar to keep drop bar extended while cutting. Do not cut from end with adjusting rod. **MAXIMUM CUT** - door bottoms 36" and longer = 4". Shorter than 36" should not be field cut - order net length.
4. Cut brush using the cutting section of pliers or diagonal cutters. If bristles are not secure, use a drop of adhesive to secure the brush.
5. Position door bottom in mortise with actuator rod toward hinge edge; mark screw holes.
6. Drill pilot holes for screws using 5/64" drill bit.
7. Install door bottom with adjusting rod at hinged side of door.
8. Set adjusting rod for proper seal. To reduce drop, turn adjusting rod right. To increase drop, turn adjusting rod left. Once hinge end of drop bar makes solid contact, other end will drop. **MAXIMUM drop** Model 682 = 7/8", Model 683 = 3/4".
9. Install end caps to ends of the door bottom, with screws provided.



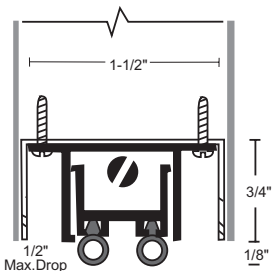
POSITIVE PRESSURE TESTED GASKETING MATERIALS  
FOR FIRE DOORS  
FOR APPLICATION TO HOLLOW-METAL-TYPE FIRE DOORS  
RATED UP TO 3 HOURS AND WOOD-TYPE FIRE DOORS,  
RATED UP TO 3/4 HOUR FOR MODEL 682,  
1-1/2 HOURS FOR MODEL 683.  
CATEGORY H

Smoke and Draft Control gasketing (Category H) tested to UL 1784; meets requirements of NFPA 105, IBC for use on "S" label doors.

## 320 Automatic Door Bottom



**WARNING:** Vinyl products can expose you to chemicals including DINP Diisononyl phthalate, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



This product is designed to fit in a 3/4" deep channel in the bottom of a Hollow Metal Door.

### Installation Instructions

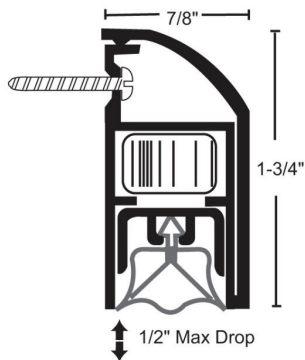
1. Cut door bottom 1/8" less than inside length of door channel. DO NOT EXTEND DROP BAR WHILE CUTTING. Do not cut from end with adjusting rod. MAXIMUM CUT door bottoms 36" and longer = 4", shorter than 36" should not be field cut - order net length.
2. Drill 1/4" hole for adjusting rod in center of hinge edge of door 1/2" on center from bottom of door.
3. Position door bottom in bottom of door and mark screw holes.
4. Drill pilot holes for screws using 5/64" drill bit.
5. Install with screws provided.
6. Set adjusting rod for proper seal. To reduce drop, turn adjusting rod right; to increase drop turn left. Maximum drop = 1/2". CAUTION: When adjustment reaches maximum drop, rod will stop turning easily. Do not force beyond maximum 1/2" drop or damage will occur and void warranty.



POSITIVE PRESSURE TESTED GASKETING MATERIALS  
FOR FIRE DOORS  
FOR APPLICATION TO HOLLOW-METAL-TYPE FIRE DOORS  
RATED UP TO 3 HOURS,  
CATEGORY H

Smoke and Draft Control gasketing (Category H) tested to UL 1784; meets requirements of NFPA 105, IBC for use on "S" label doors.

## 4441S, 4441WH Automatic Door Bottom



**WARNING:** Maximum drop is 1/2". Adjusting beyond 1/2" drop will damage door bottom, and void warranty.

**HANDED - NOT FIELD REVERSIBLE**

Unit is factory sized for use on pairs of doors, allowing for a 5/8" stop on frame.

### Installation Instructions

1. TO FIELD SIZE: For single doors cut door bottom on end without actuator rod 1/8" shorter than distance between stops on frame. For pairs cut 1/16" shorter than distance between stop on frame and meeting edge of door. Maximum cut door bottoms 36" and longer = 4", shorter than 36" should not be field cut - order net length.
2. Trim gasket material to extend just beyond each end of the door bottom.
3. With door closed, position on push side of door with beveled actuator rod toward hinged edge. Align bottom of case flush with bottom of door with 1/16" clearance between unit and stop on frame, mark screw holes.
4. Drill pilot holes for screws using 7/64" drill bit.
5. Install with screws provided.
6. Attach the snap-on cover.
7. Set for proper seal. To increase the drop, pull and turn the beveled actuator rod left. To reduce the drop, pull and turn the beveled actuator rod right. Maximum drop = 1/2".



POSITIVE PRESSURE TESTED GASKETING MATERIALS  
FOR FIRE DOORS  
FOR APPLICATION TO HOLLOW-METAL-TYPE FIRE DOORS  
RATED UP TO 3 HOURS AND WOOD-TYPE FIRE DOORS  
RATED UP TO 1-1/2 HOURS.  
CATEGORY H

Smoke and Draft Control gasketing (Category H) tested to UL 1784; meets requirements of NFPA 105, IBC for use on "S" label doors.