



The Ventex **BDD** is a superior concept in back draft dampers. This unique, all aluminum product eliminates the shortcomings of previous designs on the market. Pivot pins that quickly wear out or rust, or rivets that shake loose and pull through the blade are no longer a problem. The extruded blades are cleverly engineered to combine strength and durability with smooth operation by virtue of their aerodynamic design.



*DM MODEL SHOWN

STANDARD CONSTRUCTION	
MATERIAL:	EXTRUDED ALUMINUM - 6063-T5 ALLOY
FRAME STYLE:	SPECIFY DM FOR DUCT MOUNT FRAME SPECIFY FM FOR FLANGE FRAME (1 1/2" FLANGE) SPECIFY FFM FOR FRONT FLANGE FRAME (1 1/2" FLANGE)
DEPTH (BLADES CLOSED):	2.75" (70 mm)
DEPTH (BLADES OPEN):	5.625" (143 mm)
FRAME THICKNESS:	0.062" (1.57 mm)
BLADE THICKNESS:	0.062" (1.57 mm)
BLADE CENTRES:	3.75" (95 mm)
SEALS:	VINYL BLADE SEAL
OPERATION METHOD:	GRAVITY
FINISH:	MILL FINISH (ONLY)
INSULATION:	1/4" STYROFOAM INSULATION MECHANICALLY FASTENED TO BLADES AND FRAME

SIZE LIMITATIONS		
	MINIMUM	MAXIMUM
WIDTH	8" (203 mm)	60" (1524 mm)
HEIGHT	8" (203 mm)	60" (1524 mm)
AREA	0.44 ft ² (0.04 m ²)	25 ft ² (2.32 m ²)

*DM AND FFM DAMPERS WILL BE MANUFACTURED 1/4" (6.4 mm) SMALLER THAN GIVEN OPENING DIMENSIONS UNLESS OTHERWISE SPECIFIED
*FM DAMPERS WILL BE MANUFACTURED TO THE EXACT SIZE OF GIVEN OPENING DIMENSIONS UNLESS OTHERWISE SPECIFIED

AVAILABLE ACCESSORIES	
SCREENS: <ul style="list-style-type: none"> • BIRDSCREEN <ul style="list-style-type: none"> ○ 1/2" x 1/2" 19 GA. GALVANIZED ○ 1/2" x 1/2" INTER CRIMPED ALUMINUM • INSECT SCREEN - 18 x 14 MESH 	OTHER: <ul style="list-style-type: none"> • COUNTER BALANCING WITHOUT SPRINGS • CONDUIT HOLE • MANUAL LOCKING DEVICE TO KEEP BLADES OPEN • MANUAL OPERATION COMPLETE WITH 6 FT. OF CHAIN

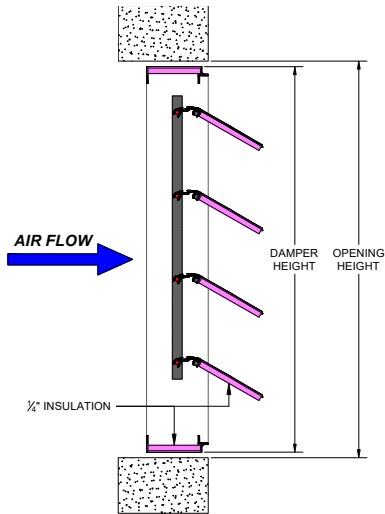
TAG	QTY.	OPENING WIDTH	OPENING HEIGHT	FRAME STYLE	ACCESSORIES

UNITS: INCHES

PROJECT NAME: _____	ENGINEER: _____
CONTRACTOR: _____	SUBMITTAL DATE: _____

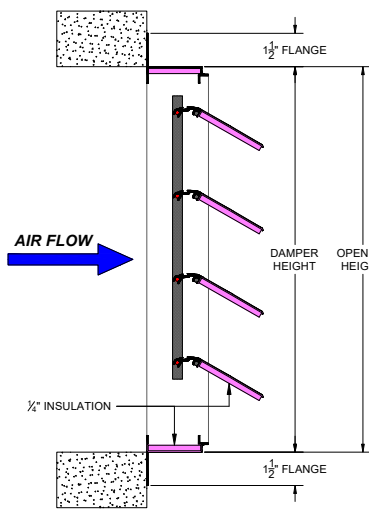
FRAME STYLE

DM
DUCT MOUNT



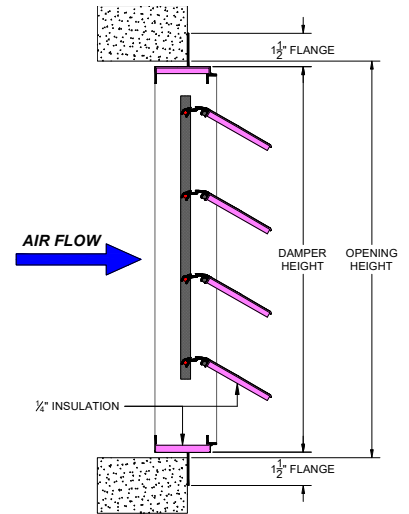
*DM DAMPER SIZE = OPENING SIZE - 1/4"

FM
FLANGE MOUNT



*FM DAMPER SIZE = OPENING SIZE

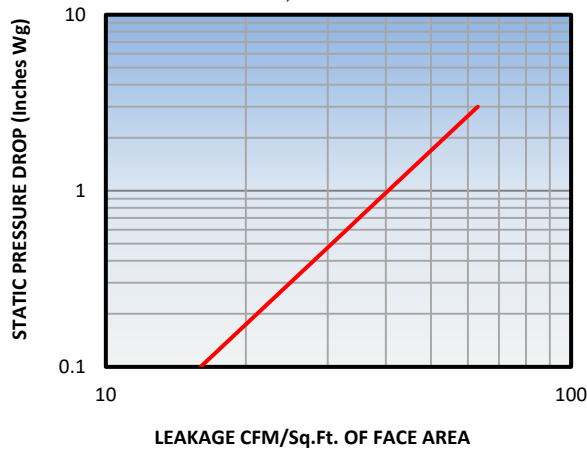
FFM
FRONT FLANGE MOUNT



*FFM DAMPER SIZE = OPENING SIZE - 1/4"

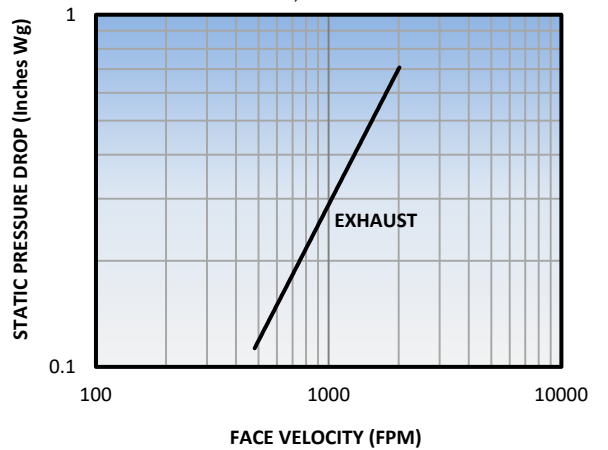
AIR LEAKAGE - BDD

FIGURE 5.4, TEST SIZE 24" x 24"



PRESSURE DROP - BDD

FIGURE 5.5, TEST SIZE 24" x 24"

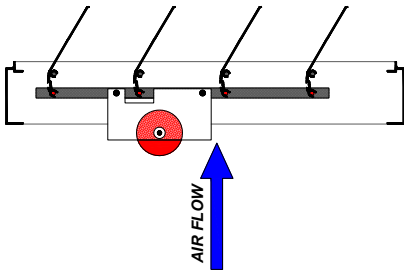


*AIR LEAKAGE IS BASED UPON OPERATION BETWEEN 50°F (10°C) – 104°F (40°C)
 *TEST RESULTS DO NOT INCLUDE THE EFFECTS OF BIRDSCREEN

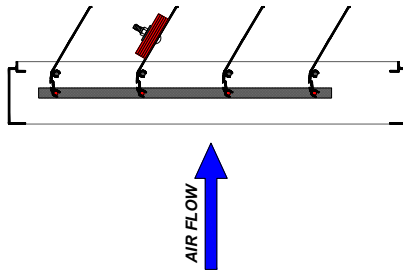
RECOMMENDED SPECIFICATION

Furnish and install back draft damper model BDD as manufactured by Ventex Inc, Alliston, Ontario. Dampers shall be 2.75" (70 mm) deep when the blades are closed and 5.625" (143 mm) when the blades are open. Blades shall be 0.062" (1.57 mm) extruded 6063-T5 aluminum alloy and frame shall be 0.062" (1.57 mm) extruded 6063-T5 aluminum alloy. The blades must have vinyl edge seals integral to each blade. Linkage is to be concealed from the front view of the damper and cannot be mechanically fastened to the damper blades.

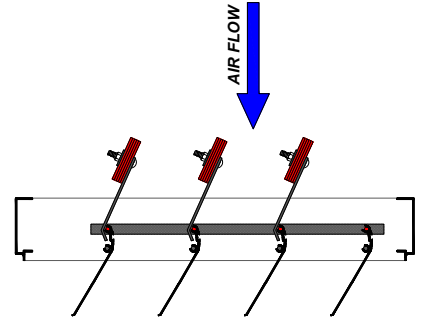
COUNTER BALANCE ARRANGEMENTS



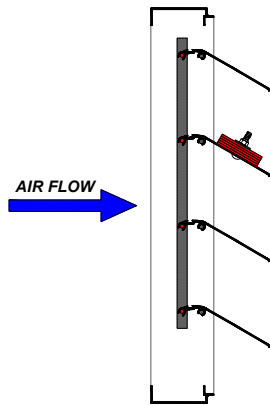
1
 MOUNT CONFIGURATION: HORIZONTAL
 AIR FLOW: UPWARD
 ASSIST: OPEN



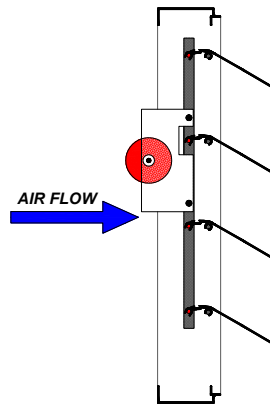
2
 MOUNT CONFIGURATION: HORIZONTAL
 AIR FLOW: UPWARD
 ASSIST: CLOSE



3
 MOUNT CONFIGURATION: HORIZONTAL
 AIR FLOW: DOWNWARD
 ASSIST: CLOSE



4
 MOUNT CONFIGURATION: VERTICAL
 ASSIST: CLOSE



5
 MOUNT CONFIGURATION: VERTICAL
 ASSIST: OPEN