

**Suggested Specifications:**

**MULTI-ZONE DAMPER**

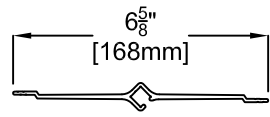
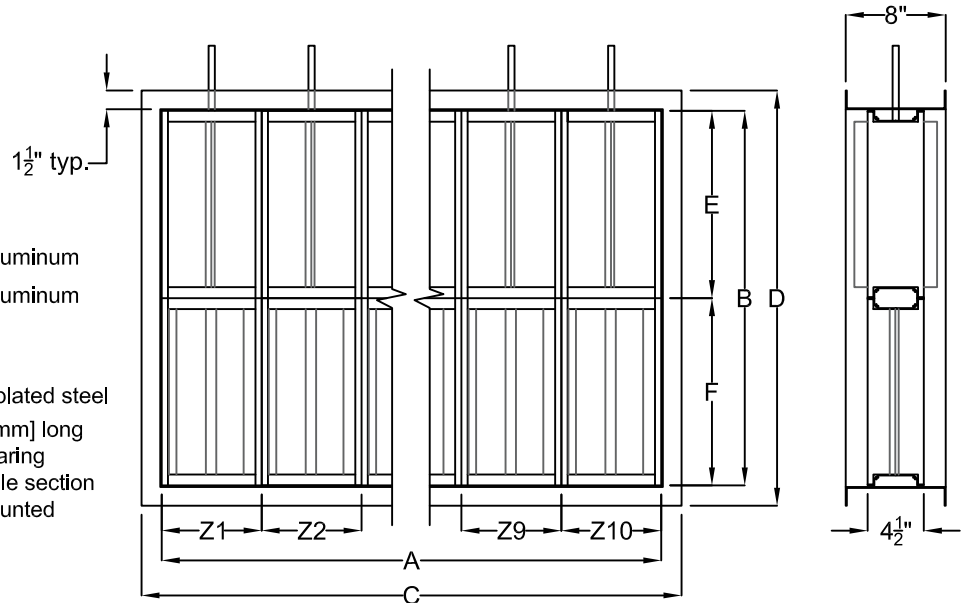
Furnish and install at location shown on drawing or in accordance with schedules dampers meeting the following specifications: Rectangular damper shall have 0.125" [3.18mm] extruded aluminum blades and .081" [2.06] extruded aluminum frame. 1 1/2" x 8" x 1 1/2" 18ga. galvanized outer sleeve. Optional blade and jamb seals must be used to achieve optimal leakage rating. Damper to have thrust bushings and meet the low pressure drop equal to United Enertech MODEL MZD-100

**Standard Construction:**

- Frame:** 0.081 [2.06mm] Extruded Aluminum
- Blade:** 0.125 [3.18mm] Extruded Aluminum
- Bearing:** Nylon
- Linkage:** Concealed in frame
- Axles:** 3/8" [9.35mm] square, zinc plated steel
- Control Shaft:** 1/2" x 6" [13mm x 152mm] long outboard support bearing supplied with all single section dampers for field mounted actuators.
- Outer Sleeve:** 18ga. galvanized

**Options:**

- Bronze Bushing
- Blade Seals PVC (175°F [79°C])
- Compression Jamb Seals (stainless steel)



Blade Detail

Minimum Zone Size: 5" (E/F) x 4" (Z) [127mm x 102mm], 8" [203mm] and under single blade  
 Maximum Zone Size: 30" (E/F) x 30" (Z) [762mm x 762mm] (single section) Multi-section: unlimited  
 Maximum Assembly Size (C x D): 84" x 120" [2134mm x 3048mm] or 120" x 84" [3048mm x 2134mm]

QTY	OVERALL DIMENSIONS						ZONE DIMENSIONS										TAG
	A	B	C	D	E	F	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8	Z9	Z10	

Due to continuing research, United Enertech reserves the right to change specifications without notice.

Job Name:	<input type="checkbox"/> <b>MODEL MZD-100</b>		
Location:			
Architect:	DRAWN BY: CAS	DATE: 5-10-17	REV. DATE: 5-11-17
Engineer:	REV. NO. 1	APPROVED BY: CJ	DWG. NO.: A-26a
Contractor:			

# Model MZD-100 Performance Data

## LEAKAGE PERFORMANCE

* Damper Width X Height	1 in. w.g. Class	4 in. w.g. Class	8 in. wg Class
12" x 12"	3.6 (Class 1A)	7.6 (Class 1A)	10.3 (Class 1A)
36" x 36"	0.5 (Class 1A)	5.6 (Class 1A)	20.8 (Class 1A)

Note: At 1" w.g. 12"x12" damper leaks 3.6 cfm per square foot.

Note: At 1" w.g. 36"x36" damper leaks 0.5 cfm per square foot.

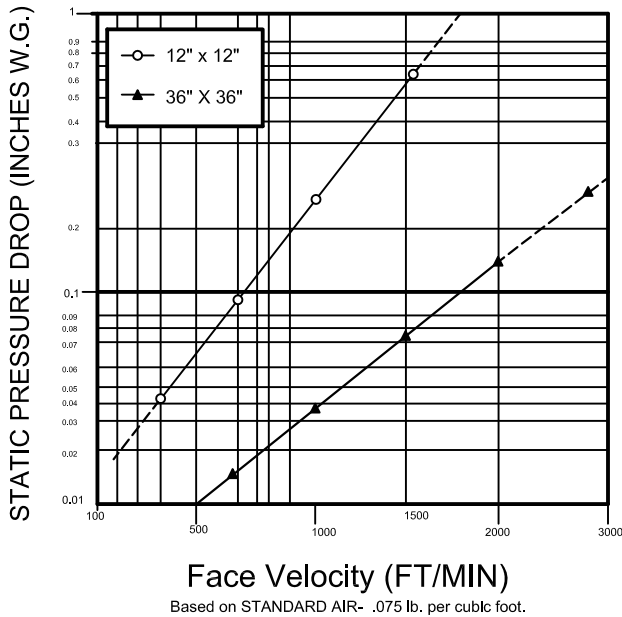
Note: Leakage data applies only to horizontal blade damper configurations.

## AMCA STANDARDS

Pressure Class	Leakage, ft <sup>3</sup> /min /ft <sup>2</sup>			
	Required Rating		Extended Ranges (optional)	
	0.25 kPa (1")	1.0 kPa (4")	2.0 kPa (8")	3.0 kPa (12")
1A	15.2 (3)	40.6 (8)	55.9 (11)	71.1 (14)
1	20.3 (3)	40.6 (8)	55.9 (11)	71.1 (14)
2	50.8 (10)	102 (20)	142 (28)	178 (35)
3	203 (40)	406 (80)	569 (112)	711 (140)

Leakage Classification per AMCA publication 511-99

## PRESSURE DROP



12" x 12" (305mm x 305mm)

Face Velocity ft/min (m/s)	Pressure drop w.g. (PA)
407 (2.0)	.040 (1.24)
820 (4.1)	.150 (4.97)
1234 (6.3)	.340 (12.42)
1641 (8.3)	.610 (22.35)
2057 (10.4)	.950 (34.77)

36" x 36" (914mm x 914mm)

Face Velocity ft/min (m/s)	Pressure drop w.g. (PA)
392 (1.99)	.005 (1.24)
789 (4.01)	.02 (4.97)
1208 (6.14)	.05 (12.42)
1598 (8.12)	.09 (22.35)
2006 (10.19)	.14 (34.77)

\* All sizes shown are individual damper sections (Zones).