

SUBMITTAL RECORD

JOB _____
 LOCATION _____
 SUBMITTED TO _____
 SUBMITTAL PREPARED BY _____
 APPROVED BY _____
 DATE _____



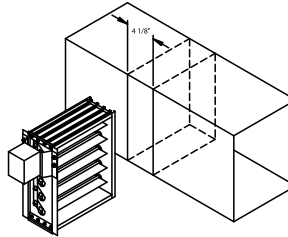
Specification Form

MMB/SMB Spring Return

Multi-Blade Zone Damper

DESCRIPTION:

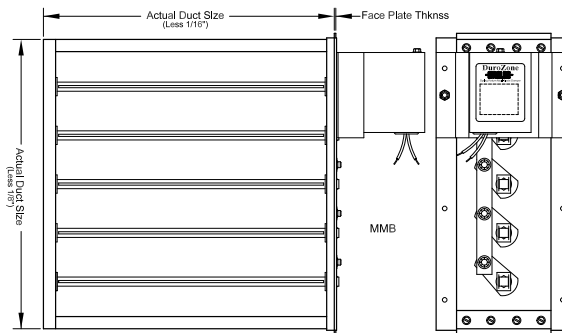
The DuroZone Multi-Blade damper for residential zoning systems has been engineered to include many features. Ribbed for strength and extruded from lightweight aluminum, the sleek frame profile provides maximum strength without excessive reduction of free area inside the ductwork. The extruded aluminum blades are mounted with nylon bushings to ensure smooth, quiet operation. The DuroZone Spring Return Multi-Blade Dampers damper blades do not extend beyond the damper frame making for easy field or shop installation. External side-mounted linkage ensures smooth and quiet operation. Multi-Blade dampers are available in multiple stock sizes with a 24-volt spring return "Mid-Torque" motor or a 'High Torque' Spring Return motor. For multi-blade dampers with a Power Open/Power Closed motor, please reference our PMB submittal.



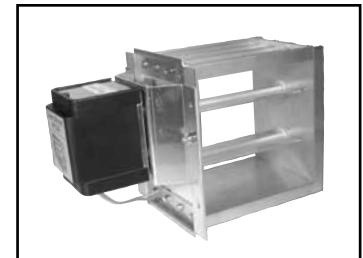
SUGGESTED SPECIFICATIONS:

Rectangular Parallel Blade Zone Dampers shall be Duro Dyne MMB or SMB type dampers. Damper blades and frames shall be manufactured of extruded aluminum. Damper motor will be spring return type designed to spring open upon loss of power. Installation shall be as described in the Duro Dyne MMB/SMB damper instructions. Sizes and locations shall be as indicated on the mechanical drawings.

Mid-Torque

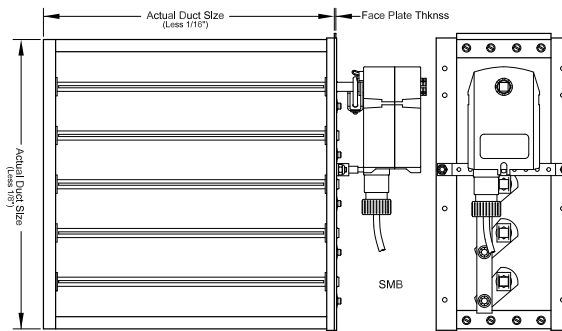


**Air Stream View
(Damper Open)**



Mid-Torque

Hi-Torque



**Air Stream View
(Damper Open)**



Hi-Torque

Damper Specifications

Damper Component	Material	Width	Depth
Frame	Extruded Aluminum	4-1/16"	1/2"
Face Plate	Extruded Aluminum	5-9/16" (includes two 3/4" flanges)	5/16"
Blade	Extruded Aluminum	2-3/4"	3/32"
Gasket	Vinyl Nitrile	3/4"	1/2"
Bushings for blades are nylon 5/8" outside diameter with a 3/8" square hole			
All blade linkage is 16 gage galvanized steel			

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 Printed in USA 7/17/18
 BO040005

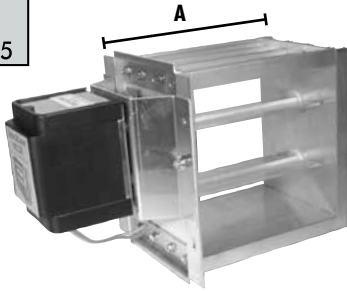


Specification Form

MMB/SMB Spring Return Multi-Blade Zone Damper

Spring Open Return Mid-Torque Multi-Blade Dampers (MMB)

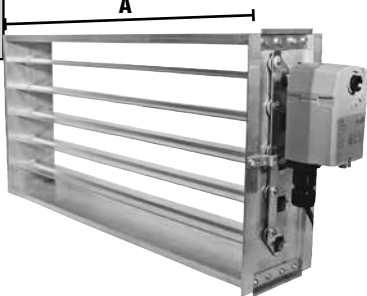
"B" - FACE PLATE DIMENSION - MOTOR SIDE											
		6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
"A" - DIMENSION	6"		A 51109	A 51119	A 51129	A 51139	B 51147	B 51155	B 51161	C 51166	C 51170
	8"	A 51100	A 51110	A 51120	B 51130	B 51140	B 51148	C 51156	C 51162	D 51167	D 51171
	10"	A 51101	A 51111	B 51121	B 51131	C 51141	C 51149	D 51157	D 51163	D 51168	E 51172
	12"	A 51102	B 51112	B 51122	C 51132	C 51142	D 51150	D 51158	E 51164	E 51169	E 51173
	14"	A 51103	B 51113	C 51123	C 51133	D 51143	D 51151	E 51159	E 51165		
	16"	B 51104	B 51114	C 51124	D 51134	D 51144	E 51152	E 51160			
	18"	B 51105	C 51115	D 51125	D 51135	E 51145	E 51153				
	20"	C 51106	C 51116	D 51126	E 51136	E 51146					
	22"	C 51107	D 51117	D 51127	E 51137						
24"	C 51108	D 51118	E 51128	E 51138							



Note: When ordering MMB Multi-Blade Dampers give the item number, description and "A" Dimension first, then "B" Dimension (i.e. #51163 MB 10" x 20")

Spring Return High-Torque Multi-Blade Dampers (SMB)

"B" - FACE PLATE DIMENSION - MOTOR SIDE											
		6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
"A" - DIMENSION	6"				A 50129	A 50139	B 50147	B 50155	B 50161	C 50166	C 50170
	8"				B 50130	B 50140	B 50148	C 50156	C 50162	D 50167	D 50171
	10"				B 50131	C 50141	C 50149	D 50157	D 50163	D 50168	E 50172
	12"	A 50102	B 50112	B 50122	C 50132	C 50142	D 50150	D 50158	E 50164	E 50169	E 50173
	14"	A 50103	B 50113	C 50123	C 50133	D 50143	D 50150	E 50159	E 50165		
	16"	B 50104	B 50114	C 50124	D 50134	D 50144	E 50152	E 50160			
	18"	B 50105	C 50115	D 50125	D 50135	E 50145	E 50153				
	20"	C 50106	C 50116	D 50126	E 50136	E 50146					
	22"	C 50107	D 50117	D 50127	E 50137						
	24"	C 50108	D 50118	E 50128	E 50138						



Note: When ordering SMB Multi-Blade Dampers give the item number, description and "A" Dimension first, then "B" Dimension (i.e. #50163 MB 10" x 20")