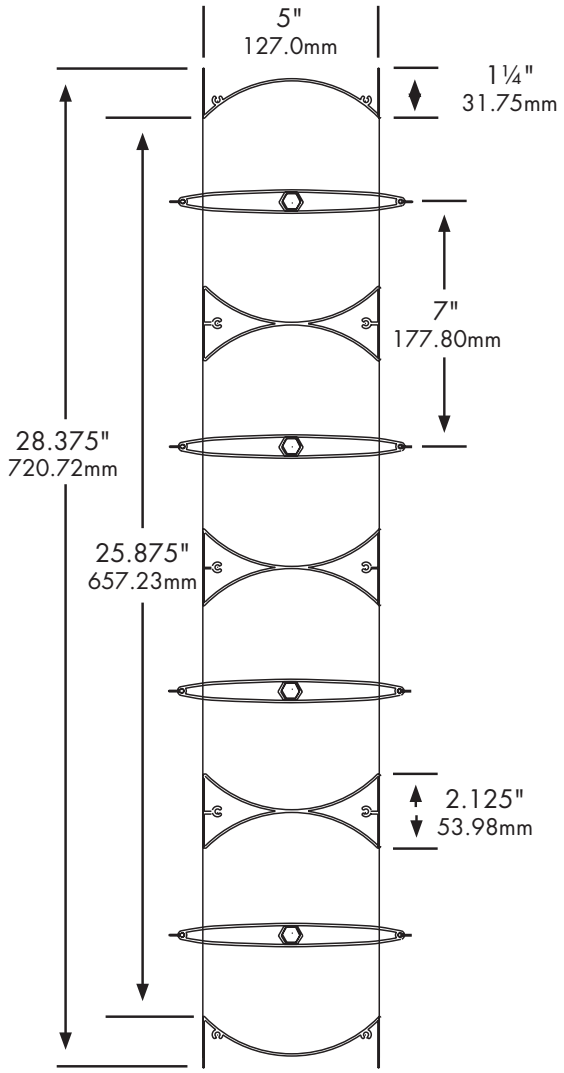
SPECIFICATIONS

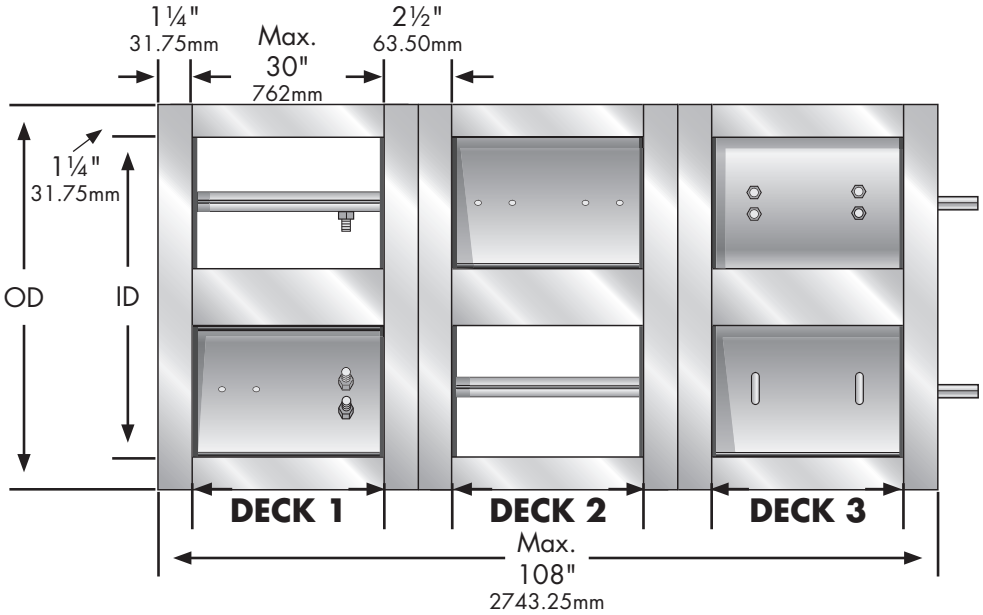


S E R I E S 1 0 0 0 T Z

THREE-DECK MULTIZONE DAMPER

1. Extruded aluminum (6063-T5) damper frame and dividers are not less than .063" (1.60 mm) in thickness. Damper frame is 5" (127.0 mm) deep x 1.25" (31.75 mm), with mounting flanges on both sides of frame.
2. Blades are 7" (177.8mm) deep extruded aluminum (6063-T5) profiles.
3. Blades are joined between decks with one-piece connecting rods, stamped in place or secured with blade-mounted U-bolts, ensuring positively aligned blade action.
4. Blade seals are extruded silicone and are secured in an integral slot within the aluminum extrusions. Blade seals are mechanically fastened to prevent shrinkage and movement over the life of the damper. Frame seals are neoprene foam.
5. Bearings are composed of a Celcon inner bearing fixed around a 7/16" (11.11 mm) aluminum hexagon blade pivot pin, rotating within a polycarbonate outer bearing inserted in the frame, eliminating action between metal-to-metal or metal-to-plastic riding surfaces.
6. Adjustable 7/16" (11.11 mm) hexagonal drive rod, U-bolt fastener, and hexagonal retaining nuts are zinc-plated steel. These provide a positive connection to blades and linkage.
7. Aluminum and corrosion-resistant zinc-plated steel linkage hardware is installed in the frame side, complete with cup-point trunnion screws for a slip-proof grip.
8. Dampers are designed for operation in temperatures ranging between -40°F (-40°C) and 212°F (100°C).
9. Dampers are manufactured with one blade per zone. Blades can be linked between zones.
10. Dampers are made to size required, within the height parameters specified in the Series 1000 TZ Zone Dimensions Table *(see below)*. Dampers are built to outside frame dimensions.
11. Installation of dampers must be in accordance with TAMCO's current installation guidelines, provided with each damper shipment. *(Note that all technical information available on TAMCO's web site at www.tamcodampers.com supersedes and takes precedence over all information contained within the printed catalog.)*
12. Appropriate intermediate or tubular steel structural support is required to resist applied pressure loads for three-deck multizone dampers. *(See TAMCO Aluminum Damper Installation Guidelines.)*

Contact TAMCO Customer Service at
1-800-561-3449
if section or damper widths exceed maximum dimensions shown, or if damper height dimension exceeds 105.375".



Series 1000 TZ Fixed Height Dimensions

# of Zones	OD height Dimensions in.	OD height Dimensions mm	ID height Dimensions in.	ID height Dimensions mm
1	7.375"	187.25	4.875"	123.75
2	14.375"	365.00	11.875"	301.50
3	21.375"	543.00	18.875"	479.50
4	28.375"	720.75	25.875"	657.25
5	35.375"	898.50	32.875"	835.00
6	42.375"	1076.25	39.875"	1012.75
7	49.375"	1254.00	46.875"	1190.50
8	56.375"	1432.00	53.875"	1368.50
9	63.375"	1609.75	60.875"	1546.25
10	70.375"	1787.50	67.875"	1724.00
11	77.375"	1965.25	74.875"	1901.75
12	84.375"	2143.00	81.875"	2079.50
13	91.375"	2321.00	88.875"	2257.50
14	98.375"	2498.75	95.875"	2435.25
15	105.375"	2676.50	102.875"	2613.00

Note:
- *Suitable for operation in breathable air environments within stated temperature range.*

For additional information, refer to:
- *Series 1000 MZ Two-Deck Multizone Specifications*
- *Series 1001 MZ One-Deck Multizone Specifications*
- *Aluminum Damper Torque Requirements*
- *TAMCO Aluminum Damper Installation Guidelines*

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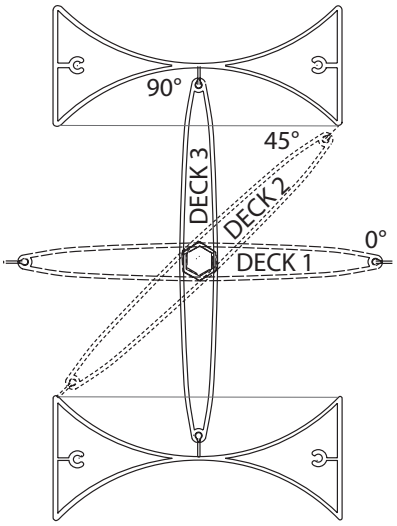
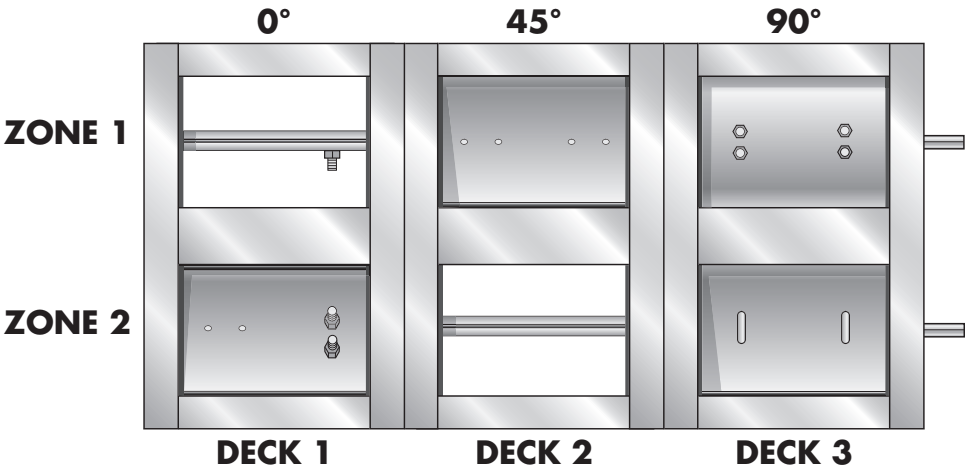
FREE AREA & PROPORTIONALITY

S E R I E S 1 0 0 0 T Z

THREE-DECK MULTIZONE DAMPER





FREE AREA CALCULATION

$$\frac{\text{Number of zones multiplied by ((Deck 1 area factor x width of Deck 1) + (Deck 2 area factor x width of Deck 2) + (Deck 3 area factor x width of Deck 3))}}{144}$$

Example:

1000 TZ damper with 6 zones. Deck 1 is 12″ wide, Deck 2 is 8″ wide and Deck 3 is 12″ wide. The degree of rotation for the blade in Zone 1 of Deck 1 is 30°. The calculation for Free Area would be as follows:

$$\frac{\text{6 zones ((1.3666 x 12″) + (3.0286 x 8″) + (0 x 12″))}}{144}$$

The resulting free area = 1.68 ft².

Series 1000 TZ Area Factors			
Degrees of Rotation	Deck 1	Deck 2	Deck 3
0°	4.2524	0	0
5°	4.0008	0.3700	0
10°	3.5470	0.8530	0
15°	3.0286	1.3666	0
20°	2.4892	1.9066	0
25°	1.9066	2.4892	0
30°	1.3666	3.0286	0
35°	0.8530	3.5470	0
40°	0.3700	4.0008	0
45°	0	4.2524	0
50°	0	4.0008	0.3700
55°	0	3.5470	0.8530
60°	0	3.0286	1.3666
65°	0	2.4892	1.9066
70°	0	1.9066	2.4892
75°	0	1.3666	3.0286
80°	0	0.8530	3.5470
85°	0	0.3700	4.0008
90°	0		4.2524