

Backdraft Damper



2" Deep • Single Thickness Blade • Light Duty • Aluminum Backdraft Damper

STANDARD CONSTRUCTION

- FRAME:** .093" thick, 5/8" x 2" x 5/8" extruded aluminum channel
- BLADE:** .032" thick aluminum, formed over a 3/16" dia. steel rod
- SEALS:** Polyurethane foam at blade edges, none at jamba
- BEARINGS:** Bronze oilite
- LINKAGE:** Aluminum chevron bracket with aluminum linkage bar
- FINISH:** Mill

OPTIONS

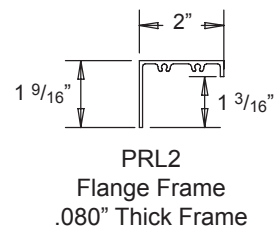
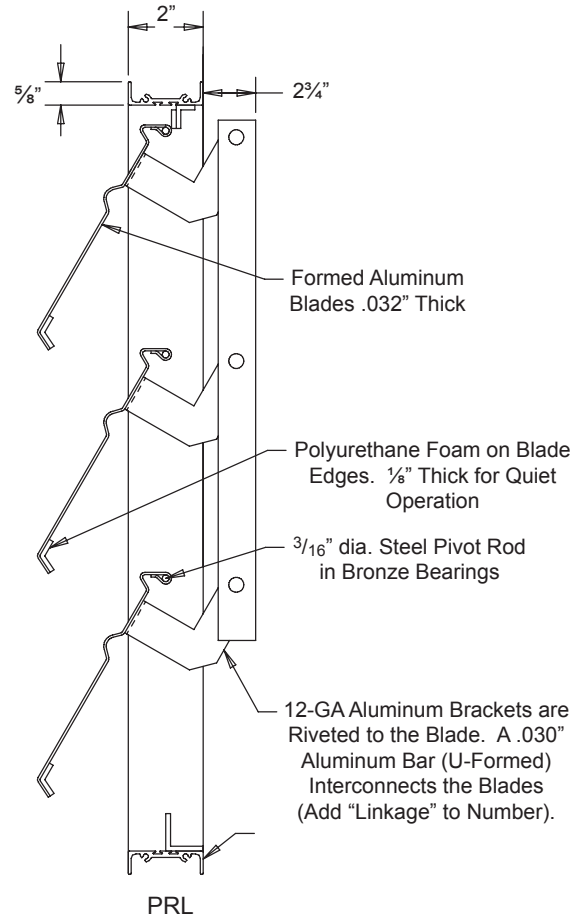
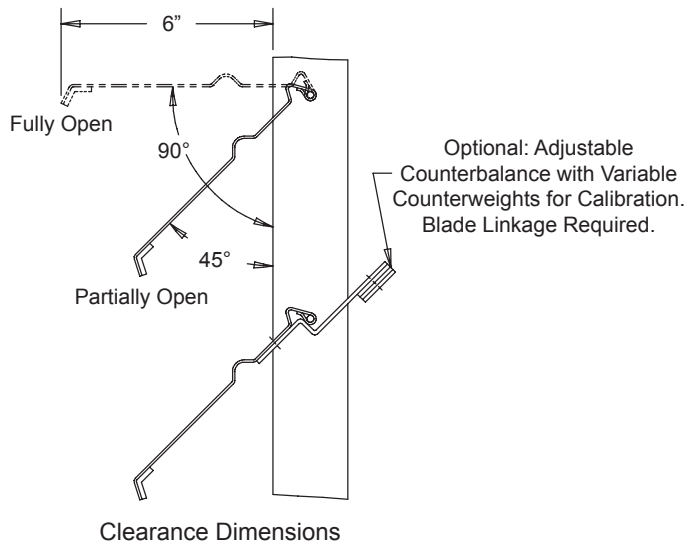
- Flange Frame
- No Blade to Blade Linkage
- Adjustable Counterbalance
- (Specify to Assist or Resist Opening, Linkage Must be Used)

NOTES

1. "A" width and "B" height are opening dimensions. Dampers are provided 1/4" undercut.
2. Specify air flow as horizontal, vertical up, or vertical down.

DAMPER SIZE

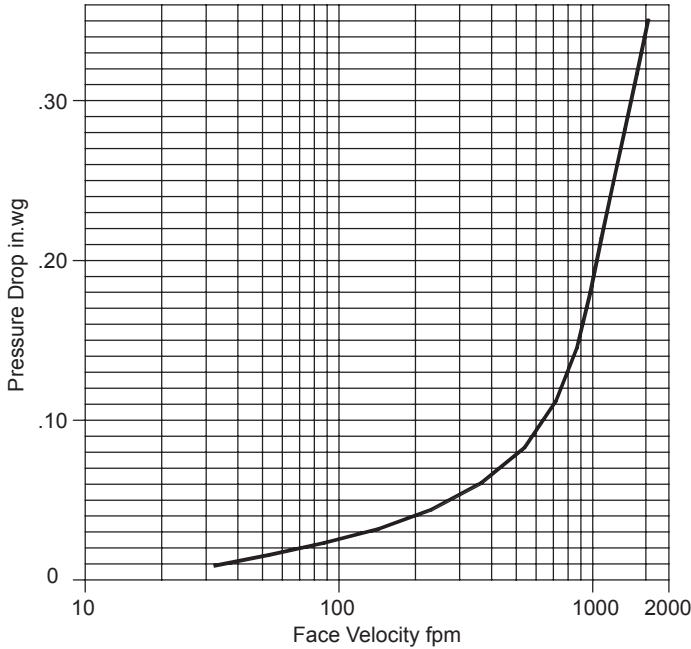
Panels	Min Panel	Max Single Panel
PRL	8"W x 8"H	48"W x 72"H



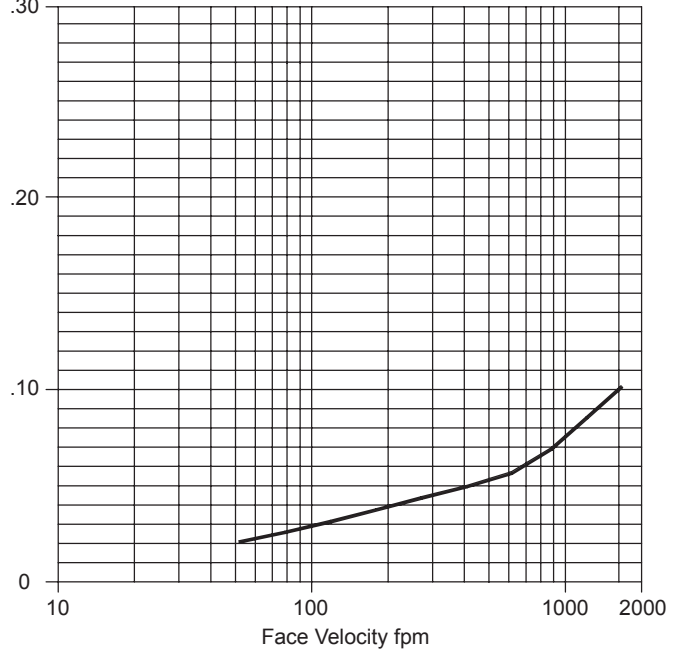
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Velocity vs. Pressure Drop: Typical performance for model PRL backdraft damper size tested 42"W x 42"H, furnished with counterweight to assist opening.

Without Ductwork
 Dampers installed per AMCA 500 Fig. 5.4
 (Face Mounted to a Plenum)
 Pressure is Corrected to .075 lb./cu.ft. Air Density
 Operational Pressure
 Start to Open - .01 in.wg
 Fully Open - .35 in.wg



With Ductwork
 Dampers installed per AMCA 500 Fig. 5.3
 (Ductwork Installed Upstream and Downstream of Damper)
 Pressure is Corrected to .075 lb./cu.ft. Air Density
 Operational Pressure
 Start to Open - .01 in.wg
 Fully Open - .06 in.wg



Air Leakage: Air leakage quantities shown in the chart are results of tests per AMCA standard 500 and are shown at .1 in.wg differential pressure and corrected to .075 lbs/cu.ft. air density.

Total CFM Air Leakage at .10" Static Pressure Differential Through Closed Damper

		Width						
		12	18	24	30	36	42	48
Height	12	6.6	9.9	13.2	16.5	19.8	23.1	26.4
	24	13.2	19.8	26.4	33.0	39.6	46.2	52.8
	36	19.8	29.7	39.6	49.5	59.4	69.3	79.2
	48	26.4	39.6	52.8	66.0	79.2	92.4	105.6
	60	33.0	49.5	66.0	82.5	99.0	115.5	132.0
	72	39.6	59.4	79.2	99.0	118.8	138.6	158.4

For determining leakage values greater than .10 in.wg to a maximum 2 in.wg use the multiplier correction chart below.

Static Pressure	.2	.3	.4	.5	1.0	1.5	2.0
Multiplier Correction Factor	1.07	1.12	1.19	1.24	1.66	1.92	2.10

Air leakage ratings are based on AMCA Standard 500 using test set up Fig. 5.4 with damper in the closed position without the aid of a counterweight or other mechanical means to provide closing torque, for a size 42"W x 42"H damper with blade and jamb seals.