



OUT OF WALL COMBINATION FIRE/SMOKE DAMPER
DAMPER
 GRILLE MOUNT WITH ACTUATOR ACCESS
 1 1/2 HR. LABEL • ULTRA-LOW LEAKAGE
MODEL: 1221-OW



QUALIFICATIONS:

- **UL 555 & CAN/ULC-S112 CLASSIFIED DYNAMIC FIRE DAMPER** 1 1/2 hr. Label (File #'s R9492 & R19569).
- **UL 555S CLASSIFIED SMOKE DAMPER** (File # R9492) Class I at 250°F or 350°F elevated temperature.
- Meets **NFPA 80, 90A, 92A, 92B, 101 and 105** as well as **IBC and NBC (Canada) Building Code** requirements.
- **California State Fire Marshal Listing No. 03225-0935:106.**
- **City of New York. MEA# 366-03-M.**
- **Maximum velocity: Up to 4000 fpm @ 8" w.g.**
- **For use in vertical or horizontal concrete partitions and vertical steel stud partitions only.**

The Model 1221-OW is an "out of wall" high performance combination fire/smoke damper. It is specifically designed for supply or return ducts that terminate at a grille and provides through the grille access to the damper, actuator and other components. Standard sleeve length accommodates most commercial supply and return grilles/registers.

The 1221-OW is ideal for applications where building codes require both a fire damper for the protection of ductwork penetrations in walls or floors that have a fire resistance rating of up to 2 hours and also require a leakage rated damper for operational smoke control in static or dynamic smoke management systems.

The 1221-OW offers premium performance with the lowest leakage class available and a low pressure drop well suited to the majority of commercial applications. Unique, inter-locking double skin blade design eliminates combustible seals and provides flame and smoke seal under fire conditions at temperatures up to 2000°F.

STANDARD SPECIFICATION:

- Frame:** 5" x 7/8" x 16 ga. (127 x 22 x 1.6) galvanized steel hat channel.
Blades: 14 ga. (2.0) equivalent galvanized steel formed airfoil on 5 1/2" (140) centers. Opposed action.
Sleeve: 16" x 20 ga. (406 x 1.0) galvanized steel with 3/4" (19) flange on one end standard for all dampers over 16" (406) high. Dampers 16" (406) high and under have a 20" (508) long sleeve.
Insulation: Intumescent thermal insulation on four sides.
Linkage: Concealed in frame. 12 ga. (2.7) plated steel.
Bearings: 1/2" (13) dia. self-lubricating oilite bronze.
Axles: 1/2" (13) dia. plated steel double bolted to blades.
Jackshaft: 1/2" (13) dia. cadmium plated steel.
Jamb Seals: Stainless steel.

Heat Responsive Device (Controlled Closure):

ERL (Electric Resettable Link) is standard on dampers with electric actuators: 250°F (121°C) standard. 165°F (74°C), 212°F (100°C) and 350°F (176°C) available.

PRL (Pneumatic Replaceable Link) is standard on dampers with pneumatic actuators: 212°F (100°C) standard. 165°F (74°C) and 280°F (138°C) available.

Sizes (Damper W x H):

Velocity/ Pressure Rating	Elevated Temp. °F	Minimum		Maximum	
		Single Section		Single Section	
		Vertical/Horizontal	Vertical	Horizontal	Horizontal
24, 34, 36, 46	250/350	12" x 8" (305 x 203) or 8" x 12" (203 x 305) with electric actuator.	36" x 48" (914 x 1219)	32" x 48" (813 x 1219)	
48	250	8" x 20" (203 x 508) with pneumatic actuator.	36" x 48" (914 x 1219)	32" x 48" (813 x 1219)	
48	350		36" x 24" (914 x 610)	32" x 24" (813 x 610)	

BASE MODEL SELECTION:

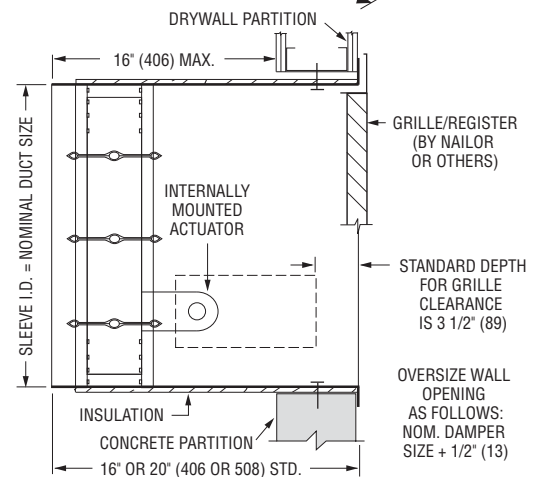
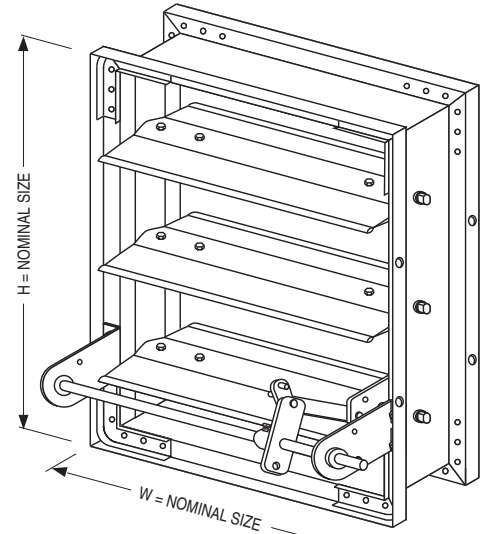
- 1221-OW** Standard 16" (406) long x 20 ga. (1.0) insulated sleeve with 3/4" (19) flange on grille side for all dampers over 16" (406) high. Dampers 16" (406) high and under have a 20" (508) long sleeve.
- 1221-OW** Non standard sleeve. Specify length _____ . Shorter sleeve lengths are available (down to 14" [350]) dependant on height. Contact factory for limitations.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:



LEAKAGE CLASS/ELEVATED TEMPERATURE:

- I @ 250°** (Standard) **I @ 350°** (Optional)

DYNAMIC VELOCITY/PRESSURE RATING:

- 24** 2000 fpm @ 4" w.g. (Standard)
- 34** 3000 fpm @ 4" w.g.
- 36** 3000 fpm @ 6" w.g.
- 46** 4000 fpm @ 6" w.g.
- 48** 4000 fpm @ 8" w.g. (Optional)

ACTUATOR SELECTION:

- Electric** **Pneumatic**

ACTUATOR FAIL POSITION: Closed.

OPTIONS:

- BS** Stainless steel bearings
- MLS-300** Position indicator switch pack
- MLS-400** Electric Fire Sensor (Re-openable control system). Includes dual heat sensors (165°F and 250°F or 350°F) and position indicator switch pack.
- QS1** Quick-set retaining angle (one side)

For installation instructions, see IOM-1221OWINST.
 Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
5 - 7 - 12	1200	8 - 21 - 08	1221-OW