

OUT OF WALL COMBINATION FIRE/SMOKE 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: Damper 16" tall and under: 20" x 20 ga. (508 x 1.0) galvanized steel

with 3/4" (19) flange on one end.

Damper over 16" tall: 16" x 20 ga. (406 x 1.0) galvanized steel with

3/4" (19) flange on one end.

 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		Section
		Vertical/Horizontal	Vertical	Horizontal
24, 34, 36, 46	250/350	8" x 8" (203 x 203) with internal electric actuator. 8" x 20" (203 x 508) with internal pneumatic actuator.	36" x 48" (914 x 1219)	32" x 48" (813 x 1219)
48	250		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)

☐ BS Stainless steel bearings MLS-300 Position indicator switch pack **BASE MODEL SELECTION:** ☐ MLS-400 Electric Fire Sensor (Re-openable control ☐ 1221-OW Standard length sleeve as described under "Sleeve:" under "Standard system). Includes dual heat sensors Specification:" (165°F and 250°F or 350°F) and position ☐ 1221-OW Non standard sleeve. Specify length indicator switch pack. Shorter sleeve lengths are available (down to 14" [350]) dependant on QS1 Quick-set retaining angle (one side) height. Contact factory for limitations. **SCHEDULE TYPE:** For installation instructions, see IOM-1221OWINST. Dimensions are in inches (mm). **PROJECT: ENGINEER:** DATE **B SERIES** SUPERSEDES DRAWING NO. **CONTRACTOR:** 10 - 18 - 22 1200 12 - 17 - 20 1221-0W Nailor Industries Inc. reserves the right to change any information concerning product or pricing without notice.

