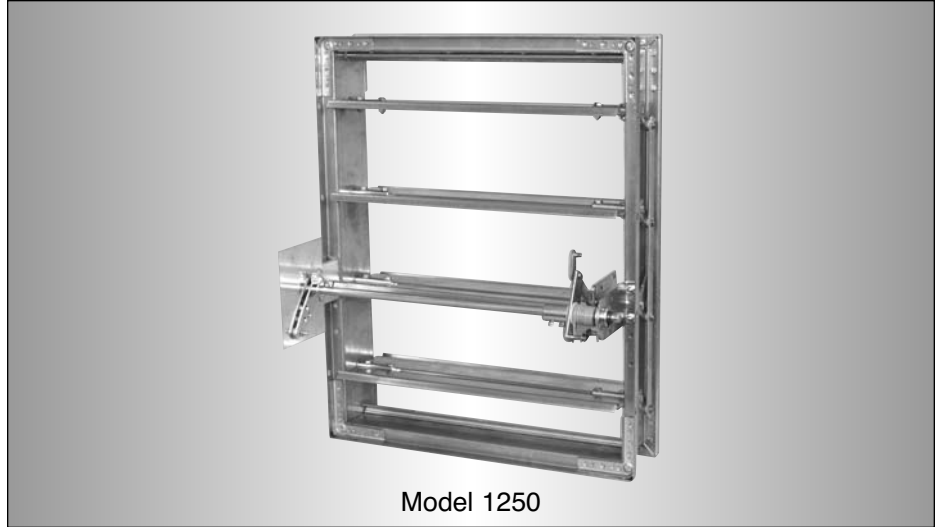


- VEE BLADE
- UL 555 CLASSIFIED DYNAMIC FIRE DAMPER
- 1 1/2 HOUR LABEL

MODELS:

- 1250 TYPE A
- 1251 TYPE A IN SLEEVE
- 1252 TYPE B
- 1253 TYPE C



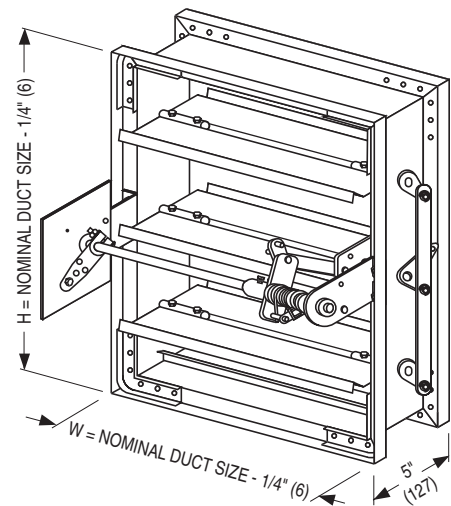
The Nailor Series 1250 multi-blade fire damper, with sturdy triple-vee style blades and rugged mitered corner hat channel frame design that virtually eliminates racking, provides 1 1/2 hour UL labeled fire protection suitable for use where ductwork penetrates a wall or floor with a fire resistance rating of up to 2 hours. The over-center/knee lock with high torque spring fusible link assures fail-safe closure during fire conditions. The 1250 series is also approved for use in both static or dynamic HVAC system designs. Available with factory fitted sleeve Model 1251, and choice of transition styles, the 1250 Series is supplied as standard with an internal hand locking quadrant, and is a versatile and economical performer suitable for use in the majority of today's applications.

QUALIFICATIONS:

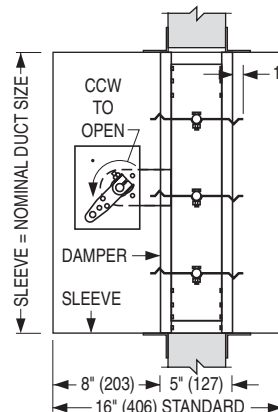
- UL 555 Classified Dynamic Fire Damper - 1 1/2 hr. Label (File #9492).
- California State Fire Marshal: Fire Damper Listing No. 3225-0935:101
- City of New York Board of Standards and Appeals. Cal. No. 460-88-SA
- Meets NFPA 90A, BOCA, SBCCI, UBC and IBC requirements.
- Maximum velocity 2000 fpm @ 4" w.g. (10 m/s @ 1 kPa).

CONSTRUCTION DETAILS:

- FRAME:** 5" x 7/8" x 16 ga. (127 x 22 x 1.6) galvanized steel hat channel.
- BLADES:** 6" (152) wide on 5 1/2" (140) centers. 16 ga. (1.6) galvanized steel vee groove design.
- 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. Internal locking quadrant is factory installed.
- FUSIBLE LINK:** 165°F (74°C) standard. 212°F (100°C), 250°F (121°C) and 350°F (176°C) available.
- MINIMUM SIZE:** Vertical or Horizontal mount: 8" x 8" (203 x 203).
- MAXIMUM SIZE:** Single Section
 Vertical mount: 36" x 48" (914 x 1219).
 Horizontal mount: 30" x 40" (762 x 1016).
 Multiple Section Assembly
 Vertical mount: 72" x 48" (1829 x 1219) or 36" x 96" (914 x 2438).
 Horizontal mount: 60" x 40" (1524 x 1016) or 30" x 80" (762 x 2032).



TYPE A: MODEL 1250



Wall Thickness	Minimum Sleeve Length
4 (102)	16 (406)
8 (203)	20 (508)
12 (305)	24 (610)
16 (406)	28 (711)

TYPE A WITH SLEEVE: MODEL 1251

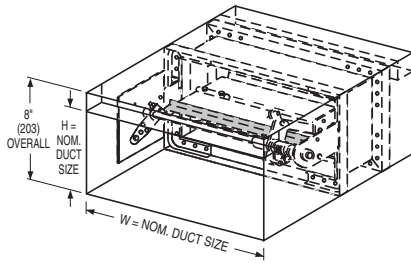
Standard factory sleeve (caulked to UL requirements) 16" long x 20 ga. (406 x 1.0). Available up to 36" (914) dependent upon wall thickness.

E

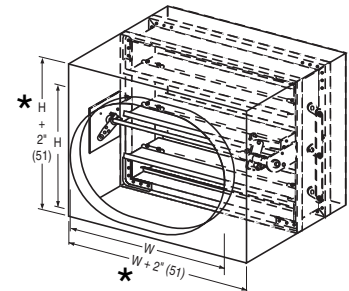
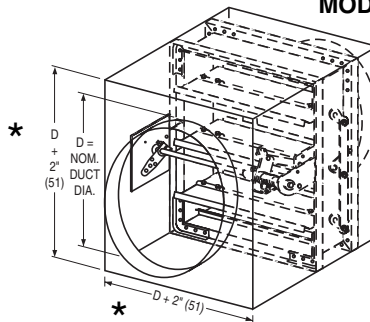
MULTI-BLADE FIRE DAMPERS

Model Series 1250 dampers with duct heights less than 8" (203) require a Type 'B' sleeve enclosure (Model 1252). Units less than 8" (203) in width only, or in both width and height, require a Type 'C' enclosure (Model 1253).

TYPE B SLEEVE ENCLOSURE MODEL: 1252

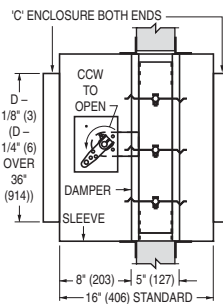
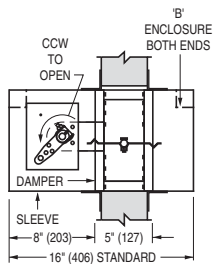


TYPE C SLEEVE ENCLOSURES MODEL: 1253

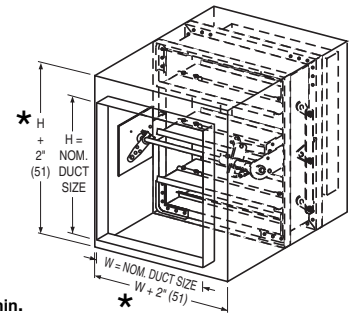


STYLE CR: FOR ROUND DUCT

STYLE CO: FOR OVAL DUCT



TYPE C SIDE VIEW



STYLE CSR: FOR SQUARE or RECTANGULAR DUCT

MULTI-BLADE FIRE DAMPERS



Min. Duct Size: 8" x 4" (203 x 102)
(Overall damper H is 8").

Max. Duct Size: Single Section
Vertical mount: 36" x 7 1/2" (914 x 191).
Horizontal mount: 30" x 7 1/2" (762 x 191).
Multiple Section Assembly
Vertical mount: 72" x 7 1/2" (1829 x 191).
Horizontal mount: 60" x 7 1/2" (1524 x 191).

Min. Duct Size: Vertical or Horizontal mount:
4" (102) diameter.
(Overall damper size is 8" x 8" (203 x 203) min.).

Max. Duct Size: Single Section
Vertical mount: 34" (864) diameter.
Horizontal mount: 28" (711) diameter.
Multiple Section Assembly
Vertical mount: 46" (1168) diameter.
Horizontal mount: 38" (965) diameter.

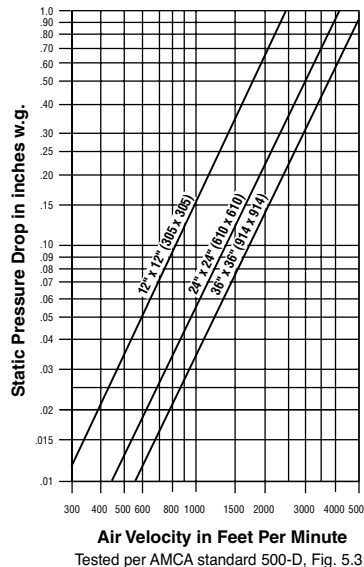
Min. Duct Size: Vertical or Horizontal mount:
4" x 4" (102 x 102).
(Overall damper size is 8" x 8" (203 x 203) min.).

Max. Duct Size: Single Section
Vertical mount: 34" x 46" (864 x 1168).
Horizontal mount: 28" x 38" (711 x 965).
Multiple Section Assembly
Vertical mount: 70" x 46" (1176 x 1168)
or 34" x 94" (864 x 2388).
Horizontal mount: 58" x 38" (1473 x 965)
or 28" x 78" (711 x 1981).

PERFORMANCE DATA:

PRESSURE DROP (damper fully open)

Imperial figures shown.
To convert to SI (metric) system:
Multiply:
CFM x .4719 = liters per second
inches w.g. x .2486 = kilopascals
fpm x .00508 = meters per second
cfm per sq. ft. x 5.08 = liters/second per sq. meter.



MULTI-BLADE FIRE DAMPERS

MODELS: 1250/1251/1252/1253

VARIABLES / ACCESSORIES

VARIABLES:	CODE	DESCRIPTION
MOUNTING:	V	Vertical Mount (wall)
	H	Horizontal Mount (floor)
CLOSURE DEVICE:	FL	Fusible Link
CLOSURE TEMP.:	165	165°F (74°C)
	212	212°F (100°C)
	250	250°F (121°C)
	350	350°F (177°C)
SLEEVE LENGTH:	Specify Sleeve Length:	12" (305) to 36" (914)
SLEEVE GAUGE:	20 G	20 ga. (1.0 mm)
	18 G	18 ga. (1.2 mm)
	16 G	16 ga. (1.6 mm)
	14 G	14 ga. (2.0 mm)
	10 G	10 ga. (3.5 mm)
IF MODEL 1253 IS SELECTED, SPECIFY TYPE OF TRANSITION:	CR	Round Type C Transitions
	CO	Oval Type C Transitions
	CSR	Square/Rect. Type C Transitions
DAMPER LOCATION IN SLEEVE:	L8	8" (204) from Sleeve End
	L0	Specify Dimension from Sleeve End
OPTIONAL JAMB SEALS:	JSM	Flexible Metal Jamb Seals
OPTIONAL BLADE SEALS:	BPV	PVC Blade Seals
ACCESSORIES:	CODE	DESCRIPTION
POSITION INDICATOR:	300	MLS-300 Switch Pack
SIDE MTG. PLATE:	SMP	Side Mounting Plate (required for mounting of MLS-300 without sleeve)
RETAINING ANGLES:	QS1	One "Quick Set" retaining angle
	QS2	Set of two "Quick Set" retaining angles
FLANGED SLEEVE: (MODEL 1251 ONLY)	TDF1	TDF Flange on One End
	TDF2	TDF Flange on Both Ends

HOW TO SPECIFY OR TO ORDER

MULTI-BLADE FIRE DAMPERS

MODELS: 1250/1251/1252/1253

HOW TO ORDER:

Select model number and size, then select from each variable as applicable. Choose accessories as desired. See previous page for description of variables and accessories.

MODEL	SIZE (W X H)	MOUNTING	CLOSURE DEVICE	CLOSURE TEMP.	SLEEVE LENGTH *	SLEEVE GAUGE *	TRANSITION TYPE (MODEL 1233 ONLY)	DAMPER LOCATION IN SLEEVE	JAMB SEALS (OPTIONAL)	BLADE SEALS (OPTIONAL)	ACCESSORIES
1250	ie: 36" x 24"	V	FL	165		20G	CR	L8	NONE	NONE	300
1251	or	H		212	SPECIFY LENGTH	18G	CO	L0	JSM	BPV	SMP
1252	18" dia.			250		16G	CSR				QS1
1253				350		14G					QS2
						10G					TDF1 TDF2

Notes: 1. * Standard sleeve is 16" (406) long (suitable for 4" (102) thick wall) x 20 ga. (1.0).

SUGGESTED SPECIFICATION:

Provide and install, as shown on plans and/or schedules, multi-blade Dynamic Fire Dampers, as manufactured by Nailor Industries, meeting or exceeding the following criteria: Frame shall be constructed of 16 ga. (1.6) galvanized steel hat channel with mitered corners reinforced with die-formed corner gussets for strength. Blades shall be of triple-vee design 16 ga. (1.6) galvanized steel on 5 1/2" (140) centers and shall be parallel configuration. Blade axles shall be 1/2" (13) dia. plated steel, double bolted at each end of blade to ensure positive locking connection. Hex or square friction-fit, or press-fit axles are not acceptable. Bearings shall be self-lubricating oilite bronze type. Blade linkage shall be zero-maintenance, concealed in frame, out of airstream.

Fire dampers shall meet the requirements of NFPA 90A and shall be manufactured, tested and labeled in accordance with UL 555 Safety Standard for Fire Dampers – Sixth Edition, June 1999, including Dynamic Closure Test. Dampers shall be classified for dynamic closure against an airflow velocity of 2000 fpm (10.16 m/s) at 4" w.g. (1 kPa) static pressure differential (across closed damper).

Each fire damper shall bear a UL 1 1/2 hour fire resistance rating label, in addition to label verifying the airflow and closure pressure ratings as established by the Dynamic Closure Test. Each fire damper shall also be marked with the words "For use in dynamic systems". Dampers marked "For use in static systems only" are not acceptable.

Each fire damper shall be complete with a (**specifier select one**) 165°F (74°C) or 212°F (100°C) UL Listed fusible link that will cause the damper to close and lock in closed position by means of an over-center/knee lock linkage for assured closure. Fire dampers shall each include a steel sleeve of appropriate length/gauge as field verified by contractor, and retaining angles, supplied by damper manufacturer to ensure proper installation in accordance with damper manufacturer's instructions. Each damper shall be supplied with an internal manual quadrant(s) for setting and locking of blades in desired position. Contractor shall provide and install an access door at each fire damper, of appropriate size to allow for inspection, testing and fusible link replacement. Information submitted for approval shall include independent pressure drop data and confirmation of UL qualifications in addition to manufacturer's installation instructions. Each shipment of fire dampers shall include same installation instructions. Standard of acceptance: Nailor Industries Model Series 1250.