

## FILTER RETURN AND EXHAUST GRILLES

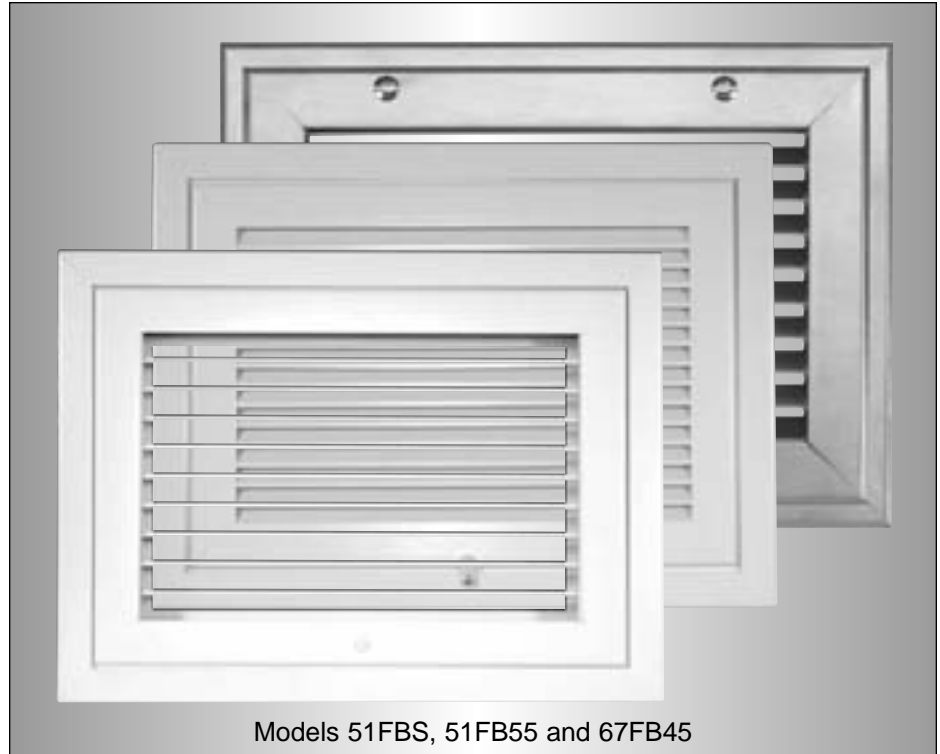
- ACCOMMODATES 1" (25) STANDARD FILTER
- AVAILABLE WITH LOUVERED, EGGCRATE OR PERFORATED CORE STYLES

### Model Series:

**51F Series** Aluminum

**61F Series** Steel

**67F Series** Stainless Steel



Models 51FBS, 51FB55 and 67FB45

The **Nailor Model Series 51F, 61F and 67F Filter Return and Exhaust Grilles** are a convenient and economical means of filtering primary return air locally. They are especially suited to recirculating air systems such as fan powered terminal units, fan coils and heat pumps. They have been designed to match and compliment their respective base models in appearance.

### SELECTION GUIDE:

#### ALUMINUM MODELS

- 51FB45** Fixed 45° Deflection, 3/4" (19) Spacing
- 51FB55** Fixed 45° Deflection, 1/2" (13) Spacing
- 51FBS** Fixed 0° Deflection, 3/4" (19) Spacing
- 51FE** Eggcrate Grid Core
- 51FP** Perforated Face Core

#### STEEL MODELS

- 61FB45** Fixed 45° Deflection, 3/4" (19) Spacing
- 61FB55** Fixed 45° Deflection, 1/2" (13) Spacing
- 61FBS** Fixed 0° Deflection, 3/4" (19) Spacing
- 61FE** Eggcrate Grid Core
- 61FP** Perforated Face Core

#### STAINLESS STEEL MODELS

- 67FB45** Fixed 45° Deflection, 3/4" (19) Spacing, Surface Mount.
- 67FB55** Fixed 55° Deflection, 1/2" (13) Spacing, Surface Mount.

Contact factory for availability of other frame/core combinations.

**PERFORMANCE DATA:** Refer to the appropriate base model and add pressure drop for the installed filter. Fixed Blade pages G41 thru G46. Eggcrate Grid Core pages G91 and G92. Perforated Face pages G99 and G100.

### FEATURES:

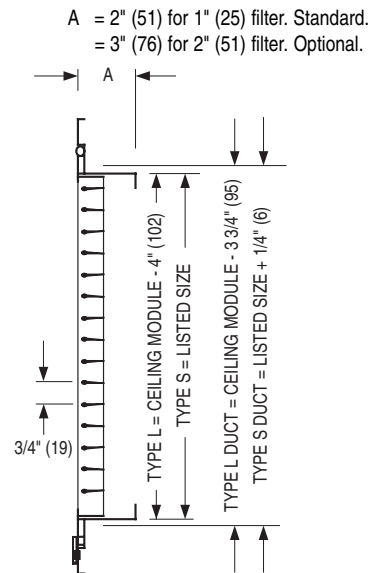
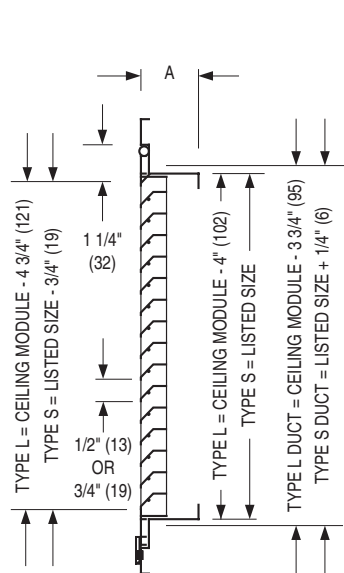
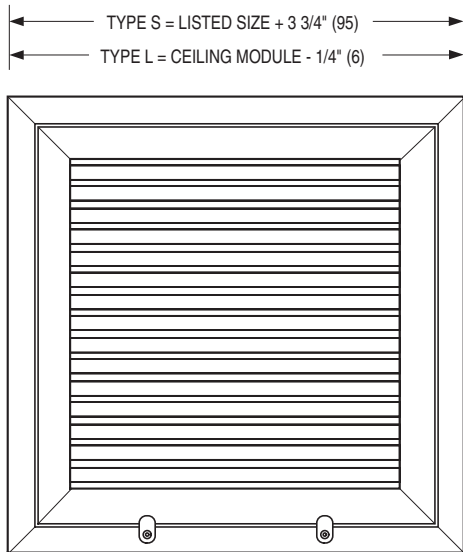
- Type S Surface Mount.  
Installed with sheet metal screws (or similar by others) through the neck of the outer frame. Provides an aesthetically clean visual appearance. Type A countersunk screw holes are an available option.
- Type L Lay-in T-Bar.  
Available to suit both imperial and metric ceiling modules.
- Frames and sub-frames are mechanically interlocked with reinforced mitered corners.
- Inner core is hinged on one side and secured on the opposite side with convenient 1/4 turn fasteners.
- Accepts standard 1" (25) thick, throw-away type filters (by others).
- Optional 2" (51) filter frame is available.

**Material:** Extruded aluminum construction, roll-formed corrosion-resistant steel or stainless steel construction.

**Finish:** AW Appliance White baked enamel is standard on steel and aluminum constructed models. #3 Satin Polish finish is standard on stainless steel models. Other finishes are available.

## Dimensional Data

### Filter Return and Exhaust Grilles • 51FB, 61FB, 67FB



**MODELS:**  
51FB45, 51FB55,  
61FB45, 61FB55

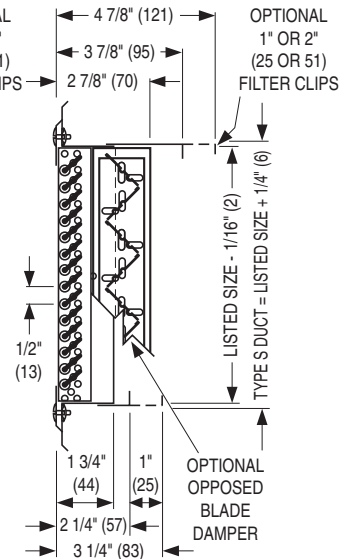
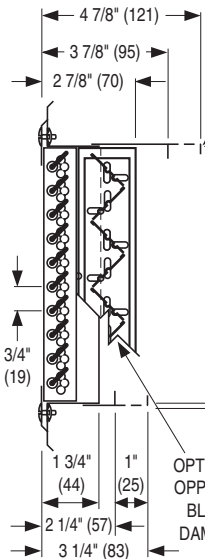
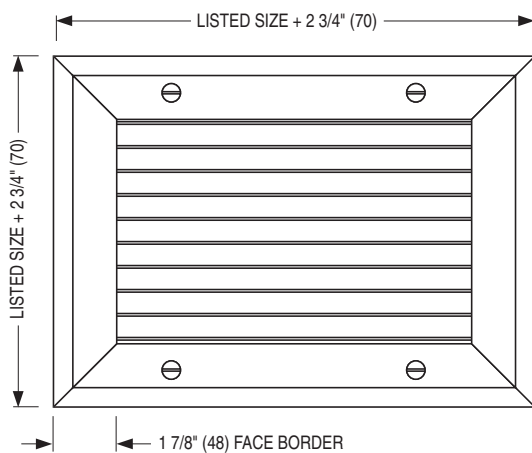
**MODELS:**  
51FBS,  
61FBS

#### Aluminum and Steel Construction • Louvered Face • Fixed Blades

Type S (surface mount) is available in nominal sizes 6" x 4" (152 x 102) through 48" x 36" (1219 x 914) in 1" (25) increments. Core is hinged on width dimension at top as standard (HT).

For other hinging requirements, specify HB Hinged bottom, HL Hinged left, HR Hinged right.

Type L (lay-in mount) is available in ceiling modules sizes: 12" x 12", 24" x 12", 24" x 24", 36" x 12", 36" x 24" and 48" x 24" (305 x 305, 610 x 305, 610 x 610, 914 x 305, 914 x 610 and 1219 x 610). Also available to suit metric ceiling modules.



**MODEL:**  
67FB45

**MODEL:**  
67FB55

#### Stainless Steel Construction • Louvered Face • Fixed Blades

Available in nominal sizes 4" x 4" (102 x 102) through 60" x 48" (1524 x 1219).

Core is secured to outer frame with stainless steel 1/4 turn fasteners.



## Dimensional Data

### Filter Return Grilles • 51FE, 61FE, 51FP, 61FP

TYPE S = LISTED SIZE + 3 3/4" (95)  
 TYPE L = CEILING MODULE - 1/4" (6)

A = 2" (51) for 1" (25) filter. Standard.  
 = 3" (76) for 2" (51) filter. Optional.

1 1/4" (32)  
 TYPE L = CEILING MODULE - 4 3/4" (121)  
 TYPE S = LISTED SIZE - 3/4" (19)  
 1/2" (13)  
 TYPE L = CEILING MODULE - 4" (102)  
 TYPE S = LISTED SIZE  
 TYPE L DUCT = CEILING MODULE - 3 3/4" (95)  
 TYPE S DUCT = LISTED SIZE + 1/4" (6)

**MODELS:**  
51FE, 61FE

**Eggcrate Core • 1/2 x 1/2 x 1/2 (13 x 13 x 13) Aluminum Core**

Type S (surface mount) is available in nominal sizes 6" x 4" (152 x 102) through 48" x 36" (1219 x 914) in 1" (25) increments. Core is hinged on width dimension at top as standard (HT).

For other hinging requirements, specify HB Hinged bottom, HL Hinged left, HR Hinged right.

Type L (lay-in mount) is available in ceiling modules sizes: 12" x 12", 24" x 12", 24" x 24", 36" x 12", 36" x 24" and 48" x 24" (305 x 305, 610 x 305, 610 x 610, 914 x 305, 914 x 610 and 1219 x 610). Also available to suit metric ceiling modules.

TYPE S = LISTED SIZE + 3 3/4" (95)  
 TYPE L = CEILING MODULE - 1/4" (6)

A = 2" (51) for 1" (25) filter. Standard.  
 = 3" (76) for 2" (51) filter. Optional.

1 1/4" (32)  
 TYPE L = CEILING MODULE - 4 3/4" (121)  
 TYPE S = LISTED SIZE - 3/4" (19)  
 3/16" (5)  
 TYPE L = CEILING MODULE - 4" (102)  
 TYPE S = LISTED SIZE  
 TYPE L DUCT = CEILING MODULE - 3 3/4" (95)  
 TYPE S DUCT = LISTED SIZE + 1/4" (6)

**MODELS:**  
51FP, 61FP

**Perforated Face • 3/16" (5) dia. holes on 1/4" (6) staggered centers**

Type S (surface mount) is available in nominal sizes 6" x 4" (152 x 102) through 48" x 36" (1219 x 914) in 1" (25) increments. Core is hinged on width dimension at top as standard (HT).

For other hinging requirements, specify HB Hinged bottom, HL Hinged left, HR Hinged right.

Type L (lay-in mount) is available in ceiling modules sizes: 12" x 12", 24" x 12", 24" x 24", 36" x 12", 36" x 24" and 48" x 24" (305 x 305, 610 x 305, 610 x 610, 914 x 305, 914 x 610 and 1219 x 610). Also available to suit metric ceiling modules.

## HOW TO SPECIFY OR TO ORDER

(Show complete Model Number and Size, unless "Default" is desired).

### Aluminum Filter Return Grilles – Model Series 51F

51F B 45 - 16 x 16 - S - AW - N - HT - —

#### MODEL

- Aluminum

51F

#### CORE

- Blades (louvered)
- Eggcrate
- Perforated

B  
E  
P

#### BLADE DEFLECTION

(Core B only)

- 45° Defl., 3/4" (19) Spacing
- 45° Defl., 1/2" (13) Spacing
- 0° Defl., 3/4" (19) Spacing

45  
55  
S

#### WIDTH x HEIGHT

inches (mm) x inches (mm)

For Surface Mount, W x H = Listed Size

For Lay-in Type, W x H = Ceiling Module Size

#### Notes:

1. For Type S, duct size is listed size + 1/4" (6).
2. For Type L, duct size is ceiling module size – 3 3/4" (95).
3. Core Fastening: Standard Core is hinged and secured with 1/4 turn latches.

#### ACCESSORIES

- None (default) —
- Earthquake Tabs EQT

#### OPTIONS

- Provision for 2" (51) Filter F2

#### Core Fastening:

- Knurled Knob KK
- 1/4 Turn Slotted QT

#### HINGE

- Top (default) HT
- Bottom HB
- Left HL
- Right HR

#### FASTENING

(only for frame/border type S)

- None (default) N
- Screw Holes in Outer Frame A

#### FINISH

- Appliance White (default) AW
- Aluminum AL
- Special Custom Color SP

#### FRAME/BORDER TYPE

- Surface Mount S
- Lay-in T-Bar L

#### SUGGESTED SPECIFICATION:

##### 51FB45, 51FB55, 51FBS Louvered Blade

Furnish and install **Nailor Model** (select one) **51FB45, 51FB55** or **51FBS Fixed Blade Filter Return Grilles** of the type and size as shown on the plans and air distribution schedules. The grille shall have extruded aluminum fixed blades and frame. The frame is to be hinged and secured to an outer frame with 1/4 turn latches. The grille frame shall accommodate standard 1" (25) filter media (provided by the installing contractor). The finish shall be AW Appliance White baked enamel (optional finishes are available).

The manufacturer shall provide published performance data for the grille, which shall be tested in accordance with ANSI/ASHRAE Standard 70 – 1991.

##### 51FE Eggcrate

Furnish and install **Nailor Model 51FE Eggcrate Grid Core Filter Return Grilles** of the type and size as shown on the plans and air distribution schedules. The grille shall have 1/2" x 1/2" x 1/2" (13 x 13 x 13) aluminum grid core and an extruded aluminum frame, that is hinged and secured to an outer frame with 1/4 turn latches. The grille frame shall accommodate standard 1" (25) filter media (provided by the installing contractor). The finish shall be AW Appliance White baked enamel (optional finishes are available).

The manufacturer shall provide published performance data for the grille, which shall be tested in accordance with ANSI/ASHRAE Standard 70 – 1991.

##### 51FP Perforated

Furnish and install **Nailor Model 51FP Perforated Core Filter Return Grilles** of the type and size as shown on the plans and air distribution schedules. The grille shall have an aluminum perforated core that has 3/16" (5) dia. holes on 1/4" (6) staggered centers, providing 51% free area and an extruded aluminum frame that is hinged and secured to an outer frame with 1/4 turn latches. The grille frame shall accommodate a standard 1" (25) filter media (provided by the installing contractor). The finish shall be AW Appliance White baked enamel (optional finishes are available).

The manufacturer shall provide published performance data for the grille, which shall be tested in accordance with ANSI/ASHRAE Standard 70 – 1991.

## HOW TO SPECIFY OR TO ORDER

(Show complete Model Number and Size, unless "Default" is desired).

### Steel Filter Return Grilles – Model Series 61F

	<b>61F B 45 - 16 x 16 - S - AW - N - HT - —</b>	
<b>MODEL</b>	_____	<b>ACCESSORIES</b>
- Steel	61F	- None (default) —
<b>CORE</b>	_____	- Earthquake Tabs EQT
- Blades (louvered)	B	<b>OPTIONS</b>
- Eggcrate	E	- Provision for 2" (51) Filter F2
- Perforated	P	<b>Core Fastening:</b>
<b>BLADE DEFLECTION</b>	_____	- Knurled Knob KK
(Core B only)		- 1/4 Turn Slotted QT
- 45° Defl., 3/4" (19) Spacing	45	<b>HINGE</b>
- 45° Defl., 1/2" (13) Spacing	55	- Top (default) HT
- 0° Defl., 3/4" (19) Spacing	S	- Bottom HB
<b>WIDTH x HEIGHT</b>	_____	- Left HL
inches (mm) x inches (mm)		- Right HR
For Surface Mount, W x H = Listed Size		<b>FASTENING</b>
For Lay-in Type, W x H = Ceiling Module Size		(only for frame / border type S)
<b>Notes:</b>		- None (default) N
1. For Type S, duct size is listed size + 1/4" (6).		- Screw Holes in Outer Frame A
2. For Type L, duct size is ceiling module size – 3 3/4" (95).		<b>FINISH</b>
3. Core Fastening: Standard Core is hinged and secured with 1/4 turn latches.		- Appliance White (default) AW
		- Aluminum AL
		- Special Custom Color SP
		<b>FRAME/BORDER TYPE</b>
		- Surface Mount S
		- Lay-in T-Bar L

**G**  
GRILLES AND REGISTERS

#### SUGGESTED SPECIFICATION:

##### 61FB45, 61FB55, 61FBS Louvered Blade

Furnish and install **Nailor Model** (select one) **61FB45, 61FB55 or 61FBS Fixed Blade Filter Return Grilles** of the type and size as shown on the plans and air distribution schedules. The grille shall have roll-formed corrosion-resistant steel fixed blades and frame. The frame is to be hinged and secured to an outer frame with 1/4 turn latches. The grille frame shall accommodate a standard 1" (25) filter media (provided by the installing contractor). The finish shall be AW Appliance White baked enamel (optional finishes are available).

The manufacturer shall provide published performance data for the grille, which shall be tested in accordance with ANSI/ASHRAE Standard 70 – 1991.

##### 61FE Eggcrate

Furnish and install **Nailor Model 61FE Eggcrate Grid Core Filter Return Grilles** of the type and size as shown on the plans and air distribution schedules. The grille shall have 1/2" x 1/2" x 1/2" (13 x 13 x 13) aluminum grid core and corrosion-resistant steel frame, that is hinged and secured to an outer frame with 1/4 turn latches. The grille frame shall accommodate standard 1" (25) filter media (provided by the installing contractor). The finish shall be AW Appliance White baked enamel (optional finishes are available).

The manufacturer shall provide published performance data for the grille, which shall be tested in accordance with ANSI/ASHRAE Standard 70 – 1991.

##### 61FP Perforated

Furnish and install **Nailor Model 61FP Perforated Core Filter Return Grilles** of the type and size as shown on the plans and air distribution schedules. The grille shall have a corrosion-resistant steel perforated core that has 3/16" (5) dia. holes on 1/4" (6) staggered centers, providing 51% free area and a corrosion-resistant steel frame that is hinged and secured to an outer frame with 1/4 turn latches. The grille frame shall accommodate a standard 1" (25) filter media (provided by the installing contractor). The finish shall be AW Appliance White baked enamel (optional finishes are available).

The manufacturer shall provide published performance data for the grille, which shall be tested accordance with ANSI/ASHRAE Standard 70 – 1991.

## HOW TO SPECIFY OR TO ORDER

(Show complete Model Number and Size, unless "Default" is desired).

### Stainless Steel Return Grilles and Registers with Subframe – Model Series 67FB

67FB 45 - O - 24 x 12 - S - #3 - A - —

#### MODEL

- 304 Stainless Steel 67FB  
(Blades louvered)

#### BLADE DEFLECTION

- Fixed 45° Defl., 3/4" (19) Spacing 45  
- Fixed 45° Defl., 1/2" (13) Spacing 55

#### DAMPER (OBD)

- Stainless Steel O  
- No Damper —

#### WIDTH x HEIGHT

inches (mm) x inches (mm)

#### ACCESSORIES

- None (default) —  
- 1" (25) Filter clips F1  
- 2" (51) Filter clips F2  
- 1/4 Turn 'Wingnut' Fasteners WT

#### OPTION

- 316 Stainless Steel 316

#### FASTENING

- Screw Holes (default) A

#### FINISH

- #3 Satin Polish (default) #3  
- Appliance White AW  
- Special SP

#### FRAME/BORDER TYPE

- Surface Mount (default) S

#### Notes:

1. For a standard grille with no special requirements, specification is only required as far as the damper selection. The "default" will automatically be selected. For example, a stainless steel register with 45° deflection blades, 3/4" (19) blade spacing and damper is Model 67FB45-O. Unit will be supplied with screw holes in the neck of the outer frame and #3 Satin Polished finish.
2. These grilles feature a subframe as standard for applications which may require frequent removal for cleaning. You must specify filter clips for filter applications.
3. For Type S, duct size is listed + 1/4" (6).
4. Core fastening: Standard core is secured with 1/4 turn slotted fasteners.

#### SUGGESTED SPECIFICATION:

##### Model 67FB45 – 3/4" (19) Blade Spacing

Furnish and install **Nailor Model 67FB45 Return Grilles with Subframe** of the size and type as shown on the plans and air distribution schedules. The grilles shall be constructed entirely from 304 stainless steel (316 optional). Streamlined shaped roll-formed blades shall be fixed on 3/4" (19) centers. The grille core shall be secured to the subframe with stainless steel 1/4 turn fasteners to allow for complete removal and access to the interior for cleaning. All exposed surfaces shall have a #3 satin polished finish.

(Optional) A stainless steel opposed blade damper adjustable from the face of the grille, shall be provided with all units.

The manufacturer shall provide published performance data for the grille, which shall be tested in accordance with ANSI/ASHRAE Standard 70 – 1991.

##### Model 67FB55 – 1/2" (13) Blade Spacing

Furnish and install **Nailor Model 67FB55 Return Grilles with Subframe** of the size and type as shown on the plans and air distribution schedules. The grilles shall be constructed entirely from 304 stainless steel (316 optional). Streamlined shaped roll-formed blades shall be fixed on 1/2" (13) centers. The grille core shall be secured to the outer frame with stainless steel 1/4 turn fasteners to allow for complete removal and access to the interior for cleaning. All exposed surfaces shall have a #3 satin polished finish.

(Optional) A stainless steel opposed blade damper adjustable from the face of the grille, shall be provided with all units.

The manufacturer shall provide published performance data for the grille, which shall be tested in accordance with ANSI/ASHRAE Standard 70 – 1991.