

FIRE RATED DUCTLESS RETURN GRILLES

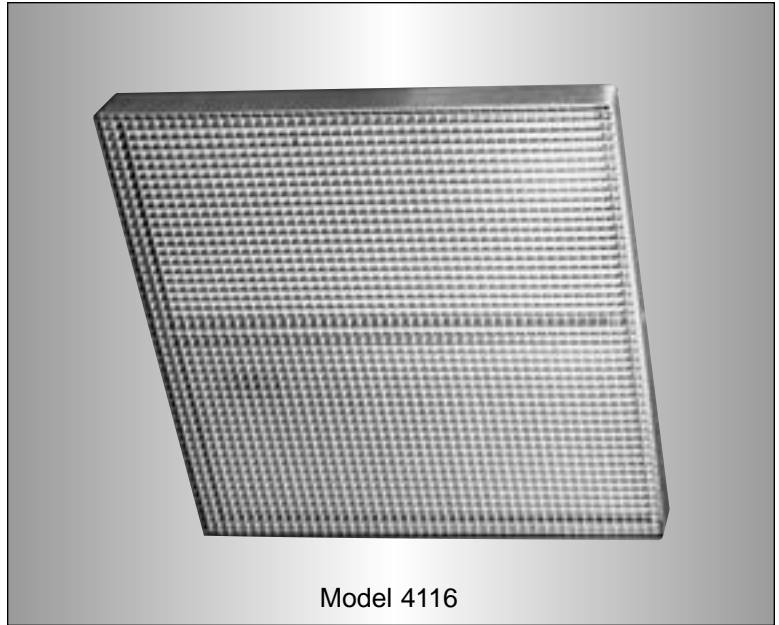
- VOLUME CONTROL OPTION
- 3 HOUR RATING
- LAY-IN



CATEGORY
BZZU & CABS



CATEGORY
40U18.2W



Model 4116

Models:

Perforated Face:
4111, 4112, 4113

Eggcrate Face:
4114, 4115, 4116

Open Face (grille by others):
4117, 4118, 4119

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FIRE RATED PRODUCTS

The **Nailor Series 4100** are UL/ULC Classified fire rated ceiling diffuser assemblies listed in Underwriters Laboratories Fire Resistance Directory and Underwriters' Laboratories of Canada List of Equipment and Materials. This design meets UL time-vs-temperature test criteria and NFPA 90A requirements.

All diffusers are classified for use in UL/ULC restrained or unrestrained floor/ceiling and or roof/ceiling assemblies which incorporate an exposed grid suspended ceiling (lay-in T-Bar) with up to a 3 hour rating. For details of fire rated assemblies, see the current UL Fire Resistance Directory or ULC List of Equipment and Materials Vol. III Fire Resistant Ratings.

These models have been designed to compliment the **Nailor** range of fire rated supply diffusers. Successfully tested and classified for use without the requirement of duct work or supplementary support, they simply lay in place. They enable the ceiling plenum to be utilized as a ductless return air system and so provide an extremely economical means of fire protection in return air applications.

FEATURES:

- Available in both popular perforated and eggcrate face styles.
- Perforated face models are corrosion-resistant steel with 3/16" (5) diameter holes on staggered 1/4" (6) centers (51% free area).
- Eggcrate models feature an 1/2 x 1/2 x 1/2 (13 x 13 x 13) aluminum grid core.
- 212°F (100°C) fusible link is standard (165°F (74°C) is optional).
- All models must be installed in accordance with installation instructions for UL/ULC Classification.

Option: AV Fusible Link Adjustable Volume Control. Permits field balancing of return air grille.

Material: Galvanized steel frame and blades. Non-asbestos UL Classified insulation.

Finish: AW Appliance White face is standard to match supply models. Other finishes are available.

Performance Data: See non-fire rated models. **Perforated Model 4302** on page D204. **Eggcrate Model 51EC** on page G91.

Available Sizes and Dimensional Data

Model No.	Face Type	Ceiling Module		Opened Height A	
		Imperial (inches)	Metric (mm)	Standard	With AV Option
4111	Perforated	12 x 12	300 x 300	6 1/4 (159)	7 1/4 (184)
4112		24 x 12	600 x 300	6 1/4 (159)	7 1/4 (184)
4113		24 x 24	600 x 600	12 1/4 (311)	13 1/4 (337)
4114	Eggcrate	12 x 12	300 x 300	6 1/4 (159)	7 1/4 (184)
4115		24 x 12	600 x 300	6 1/4 (159)	7 1/4 (184)
4116		24 x 24	600 x 600	12 1/4 (311)	13 1/4 (337)
4117	Open	12 x 12	300 x 300	6 1/4 (159)	7 1/4 (184)
4118		24 x 12	600 x 300	6 1/4 (159)	7 1/4 (184)
4119		24 x 24	600 x 600	12 1/4 (311)	13 1/4 (337)

Dimensions are in inches (mm).

FIRE RATED DUCTLESS RETURN FILTER GRILLES

- VOLUME CONTROL OPTION
- 3 HOUR RATING
- LAY-IN



CATEGORY
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CATEGORY
40U18.2W



Model 4123

Models:

Louvered Face:
4121, 4122, 4123

Eggcrate Face:
4124, 4125, 4126

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FIRE RATED PRODUCTS

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All diffusers are classified for use in UL/ULC restrained or unrestrained floor/ceiling and or roof/ceiling assemblies which incorporate an exposed grid suspended ceiling (lay-in T-Bar) with up to a 3 hour rating. For details of fire rated assemblies, see the current UL Fire Resistance Directory or ULC List of Equipment and Materials Vol. III Fire Resistant Ratings.

These models have been designed to compliment the **Nailor** range of fire rated supply diffusers. Successfully tested and classified for use without the requirement of duct work or supplementary support, they simply lay in place. They enable the ceiling plenum to be utilized as a ductless return air system and so provide an extremely economical means of fire protection in return air applications.

FEATURES:

- Available in both popular louvered face and eggcrate face styles.
- Filter grille frames are constructed of corrosion-resistant steel and feature a hinged core secured by 1/4 turn fasteners.
- Louvered face models feature fixed 45° deflection blades on 3/4" (19) centers.
- Eggcrate models feature a 1/2 x 1/2 x 1/2 (13 x 13 x 13) aluminum grid core.
- 212°F (100°C) fusible link is standard (165°F (74°C) is optional).
- All models must be installed in accordance with installation instructions for UL/ULC Classification.

Option: AV Fusible Link Adjustable Volume Control. Permits field balancing of return air grille.

Material: Galvanized steel frame and blades. Non-asbestos UL Classified insulation.

Finish: AW Appliance White face is standard to match supply models. Other finishes are available.

Performance Data: See non-fire rated models. **Louvered Face Model 61FB45** on page G41. **Eggcrate Model 61FE** on page G91.

Available Sizes and Dimensional Data

Model No.	Filter Grille	Ceiling Module		Opened Height A
		Imperial (inches)	Metric (mm)	
4121	Louvered Face	12 x 12	300 x 300	10 (254)
4122		24 x 12	600 x 300	10 (254)
4123		24 x 24	600 x 600	16 (406)
4124	Eggcrate Face	12 x 12	300 x 300	10 (254)
4125		24 x 12	600 x 300	10 (254)
4126		24 x 24	600 x 600	16 (406)

Dimensions are in inches (mm).

Dimensional Data

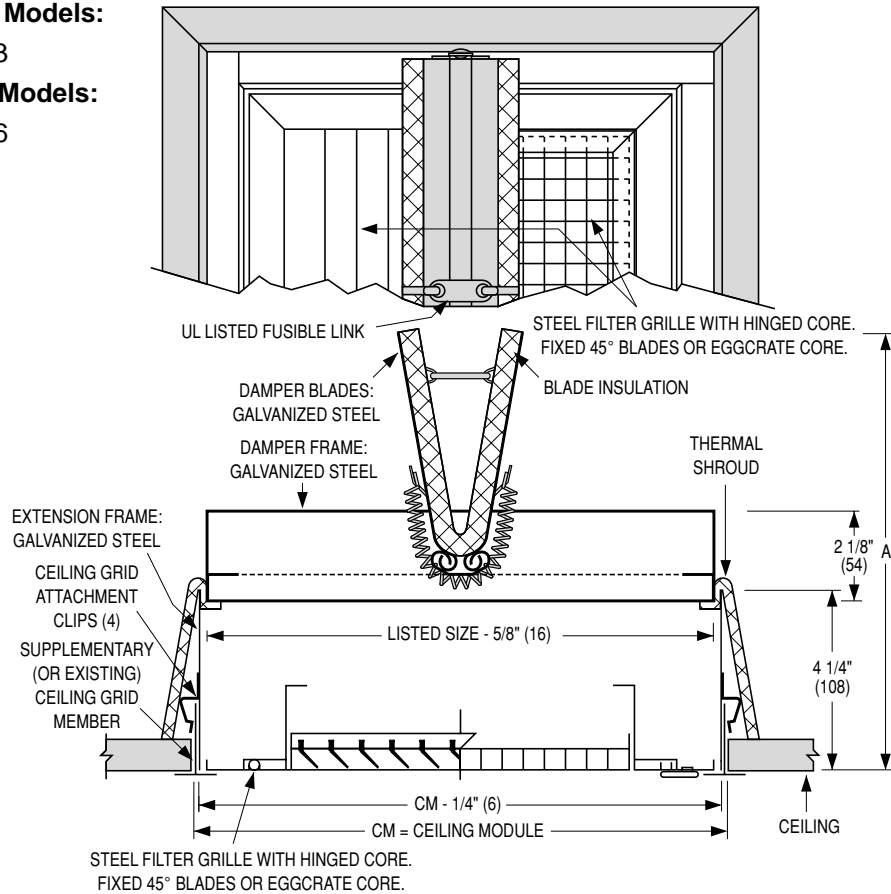
Models 4121 to 4126 • Louvered or Eggcrate Face

Louvered Grille Models:

4121, 4122, 4123

Eggcrate Grille Models:

4124, 4125, 4126



Models 4121 to 4126 • Louvered or Eggcrate Face • With AV Option

Louvered Grille Models with Adjustable Volume Control:

4121 AV, 4122 AV, 4123 AV

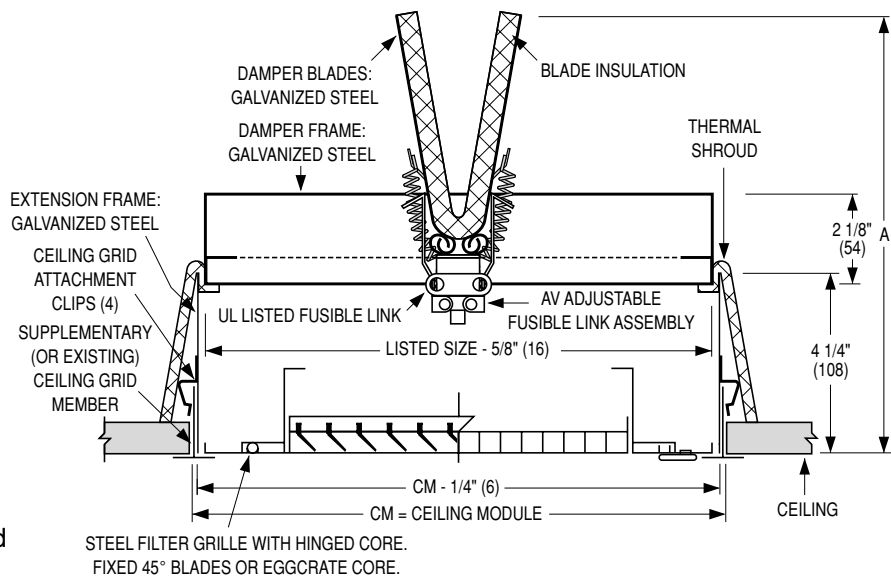
Eggcrate Grille Models with Adjustable Volume Control:

4124 AV, 4125 AV, 4126 AV

AV Fusible Link Adjustable Volume Control Option.

This UL Listed option allows the damper to be used as a balancing damper for volume control.

The blades are adjusted with a 3/16" (5) hex key (by others) and perform like a butterfly damper.



FIRE RATED PRODUCTS

FIRE RATED DUCTLESS RETURN CEILING DAMPER FOR OPTIONAL GRILLE

- RAISED TYPE
- 3 HOUR RATING
- LAY-IN

Models:

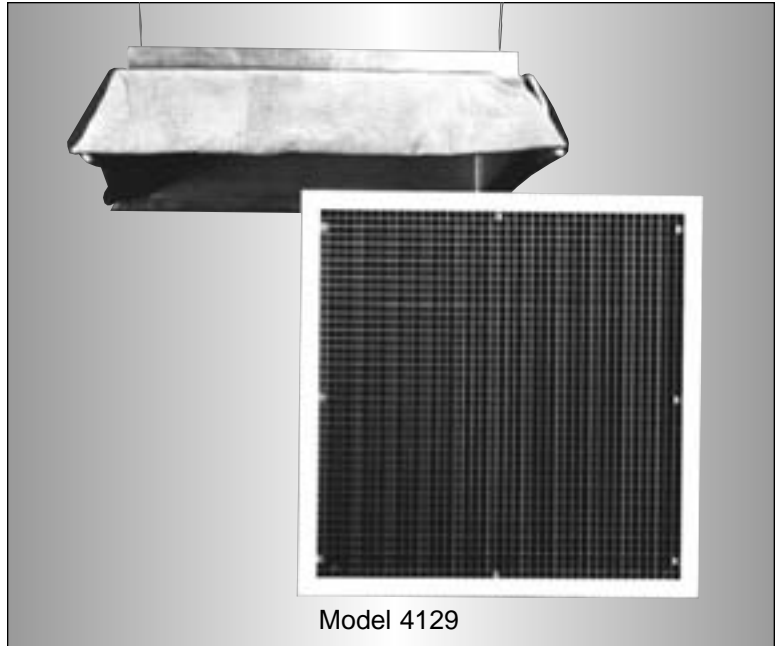
4127, 4128, 4129



CATEGORY
BZZU & CABS



CATEGORY
40U18.2W



Model 4129

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FIRE RATED PRODUCTS

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All diffusers are classified for use in UL/ULC restrained or unrestrained floor/ceiling and or roof/ceiling assemblies which incorporate an exposed grid suspended ceiling (lay-in T-Bar) with up to a 3 hour rating. For details of fire rated assemblies, see the current UL Fire Resistance Directory or ULC List of Equipment and Materials Vol. III Fire Resistant Ratings.

This unique **Nailor** product features a raised ceiling radiation damper mounted on an extended support frame above the ceiling line. The integrity of the ceiling membrane protection is maintained by the addition of a peripheral, thermally retardant, shroud. The fire rated protected cavity allows the design engineer great flexibility. As the fire protection and integrity are supplied solely by the damper assembly, any type of return air grille, filter grille or register of steel or aluminum construction may be selected and installed in the fire rated ceiling. One such example is when a return air register with opposed blade damper is required.

FEATURES:

- 212°F (100°C) fusible link is standard (165°F (74°C) is optional).
- Permits selection of any **Nailor 6100 Series** steel or **5100 Series** aluminum return grille, which is manufactured to suit.
- All models must be installed in accordance with installation instructions for the UL/ULC Classification.

Option: AV Fusible Link Adjustable Volume Control. Permits field balancing. The ceiling damper blades are adjusted with a hex key and perform like a butterfly damper. This option would be specified when the selected return grille has no damper and volume control is still desired.

Material: Galvanized steel frame and blades. Non-asbestos UL Classified insulation.

Performance Data: Refer to relevant performance tables in catalog for grille or register selected.

Available Sizes and Dimensional Data

Model No.	Ceiling Module		Opened Height A
	Imperial (inches)	Metric (mm)	
4127	12 x 12	300 x 300	10 (254)
4128	24 x 12	600 x 300	10 (254)
4129	24 x 24	600 x 600	16 (406)

Dimensions are in inches (mm).