

PERFORATED RETURN AIR PANELS

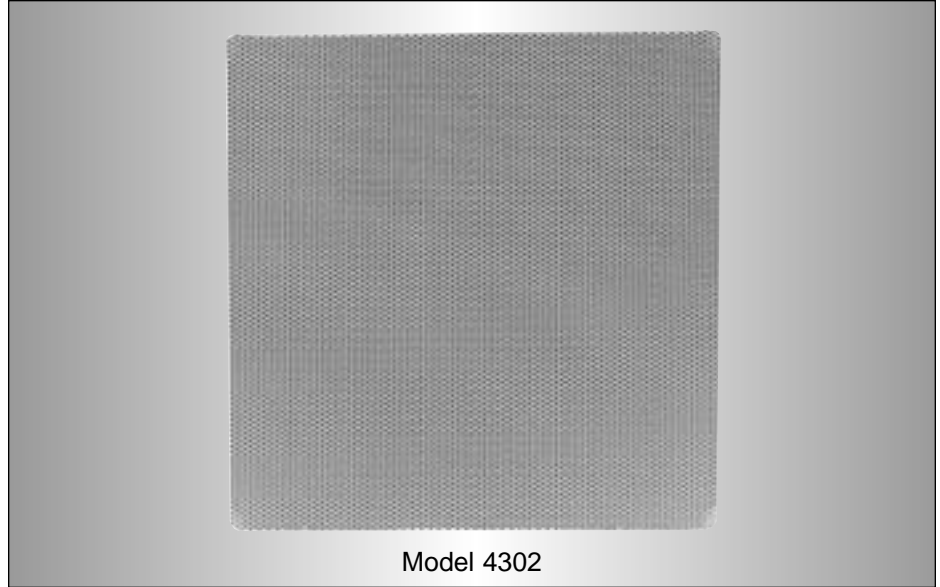
- SUITABLE FOR DUCTLESS (PLENUM) RETURN AIR APPLICATIONS

Steel Models:

- 4302 Flush Face
- 4302-DF Drop Face
- 4302-F Fineline®

Aluminum Model:

- 4302A Flush Face



The **Nailor 4302 Perforated Return Panels** are for use as an economical ductless return or exhaust grille in exposed grid T-Bar ceiling systems. Once installed, the appearance matches that of the **4320/4325 (CB, F and M) Series Supply Diffusers**.

FEATURES:

- Perforated face has 3/16" (5) dia. holes on staggered 1/4" (6) centers.
- 51% free area.

- Edges of panel are turned up for strength.

Material: Heavy gauge corrosion-resistant steel or aluminum.

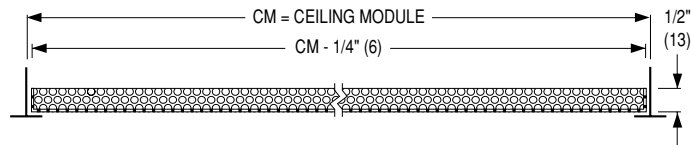
Finish: AW Appliance White baked enamel finish is standard. Other finishes are available.

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CEILING DIFFUSERS

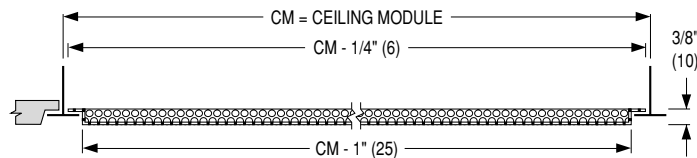
Available Ceiling Module Sizes

Ceiling Module CM	
Imperial Modules (inches)	Metric Modules (mm)
12 x 12	300 x 300
16 x 16	400 x 400
20 x 20	500 x 500
24 x 12	600 x 300
24 x 24	600 x 600
48 x 24	1200 x 600

Model 4302 and 4302A Lay-in T-Bar



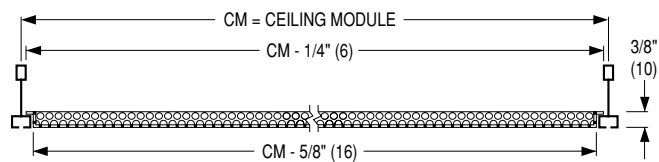
Model 4302-DF Drop Face or TL Tegular Lay-in T-Bar



Available Ceiling Module Sizes

Ceiling Module CM	
Imperial Modules (inches)	Metric Modules (mm)
20 x 20	500 x 500
24 x 24	600 x 600

Model 4302-F Fineline® Type Ceilings



HOW TO SPECIFY OR TO ORDER

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

Perforated Return Panels – Model 4302

4302 - 24 x 24 - AW

MODEL

- Steel	Lay-in T-Bar	4302
	Drop Face	4302-DF
	Fineline®	4302-F
- Aluminum	Lay-in T-Bar	4302A

FINISH

- Appliance White (default)	AW
- Special	SP

CEILING MODULE

Imperial (inches)	Metric (mm)
- 12 x 12	300 x 300
- 16 x 16	400 x 400
- 20 x 20	500 x 500
- 24 x 12	600 x 300
- 24 x 24	600 x 600
- 48 x 24	1200 x 600

Note:

1. Consult individual models as to limitations and availability of ceiling module size combinations.

SUGGESTED SPECIFICATION:

Model 4302, 4302A – Flush Face

Furnish and install **Nailor Model** (select one) **4302** (corrosion-resistant steel) or **4302A** (aluminum) **Perforated Return Air Panels** of the sizes and capacities as shown on the plans and air distribution schedules. The perforated panel shall have 3/16" (5) dia. holes on 1/4" (6) staggered centers, providing 51% free area. The edge of the panel shall be turned up a 1/2" (13) for strength. The finish shall be AW Appliance White baked enamel (optional finishes are available).

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

Model 4302-DF – Drop Face

Furnish and install **Nailor Model 4302-DF Perforated Drop Face Return Air Panels** of the sizes and capacities as shown on the plans and air distribution schedules. The corrosion-resistant steel perforated panel shall have 3/16" (5) dia. holes on 1/4" (6) staggered centers, providing 51% free area. The face of the panel shall extend below the ceiling line. The finish shall be AW Appliance White baked enamel (optional finishes are available).

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

Model 4302-F – Fineline®

Furnish and install **Nailor Model 4302-F Perforated Fineline® Return Air Panels** of the sizes and capacities as shown on the plans and air distribution schedules. The corrosion-resistant steel perforated panel shall have 3/16" (5) dia. holes on 1/4" (6) staggered centers, providing 51% free area. The panel shall incorporate a corrosion-resistant steel frame to suit Fineline® type ceilings. The finish shall be AW Appliance White baked enamel (optional finishes are available).

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

Performance Data

Model 4302, 4302-DF, 4302-F, 4302A • Return Panel

Ceiling Module	Neck Size	Neck Velocity, FPM									
		200	300	400	500	600	700	800	900	1000	
		Negative SP	.013	.029	.051	.080	.115	.157	.205	.259	.320
		VP	.002	.006	.010	.016	.023	.031	.040	.050	.063
12 x 12	N/A	Airflow, CFM	200	300	400	500	600	700	800	900	1000
		NC	—	—	27	34	40	45	49	52	57
20 x 20	N/A	Airflow, CFM	556	833	1111	1389	1667	1944	2222	2500	2778
		NC	—	—	24	30	37	42	46	49	54
24 x 12	N/A	Airflow, CFM	400	600	800	1000	1200	1400	1600	1800	2000
		NC	—	17	27	32	39	44	48	52	56
24 x 24	N/A	Airflow, CFM	800	1200	1600	2000	2400	2800	3200	3600	4000
		NC	—	16	24	31	37	41	45	48	53
48 x 24	N/A	Airflow, CFM	1600	2400	3200	4000	4800	5600	6400	7200	8000
		NC	—	18	27	33	39	44	48	51	56

CFM - cubic feet per minute

FPM - feet per minute velocity

VP - velocity pressure - inches w.g.

SP - static pressure - inches w.g.

NC - Noise Criteria (values) based on 10 dB room absorption, re 10⁻¹² watts.

Performance Notes:

1. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 1991.