

DFGL

LINEAR DISPLACEMENT FLOOR GRILLE



PRICE | DISPLACEMENT

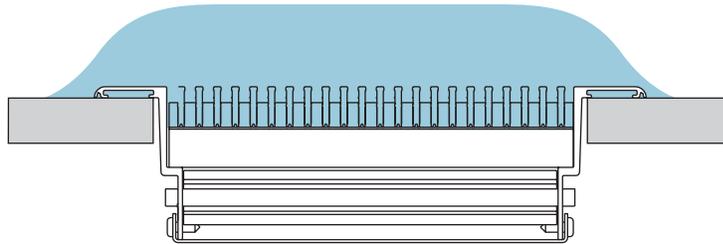
DFGL

Linear Displacement Floor Grille

The Linear Displacement Floor Grille (DFGL) is a floor mounted linear displacement grille that supplies low velocity discharge air from an underfloor plenum or a ducted supply into the occupied zone. The DFGL is best suited for linear perimeter applications and is typically used in raised floors, floor cavities or on the top of sills. The low noise levels combined with the sleek look of the diffuser make it suitable for office spaces, places of worship, galleries, schools or any application requiring a comfortable, quiet space.



DFGL Floor Grille



DFGL airflow

CONSTRUCTION

+ Material

- Extruded frame with reinforcing support bars – Aluminum
- Perforated baffle – Aluminum

+ Options

- 1- or 2-way discharge patterns
- Variety of core styles and fasteners

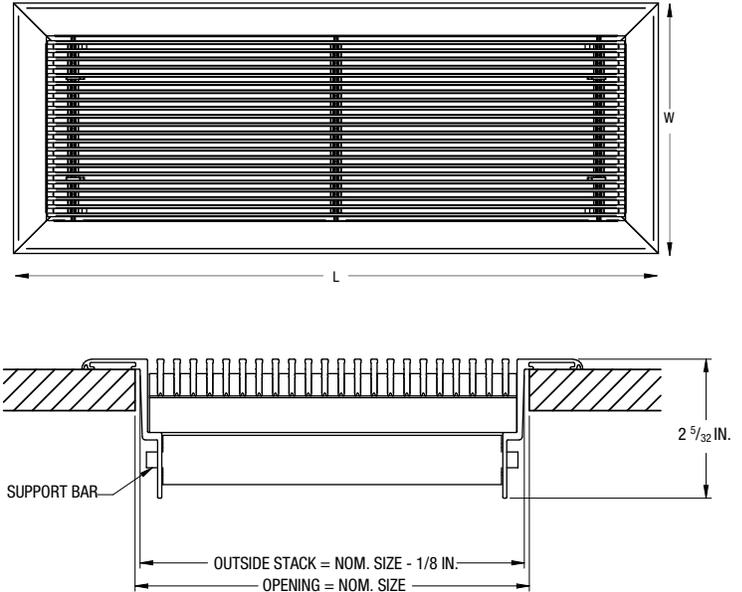
- Standard Finishes: B12 White, B15 Grey, B17 Black, and B11 Pure White
- Optional Finishes: PC12 Prime Powder Coat and B25 color to match Custom color to match

DIMENSIONAL DATA

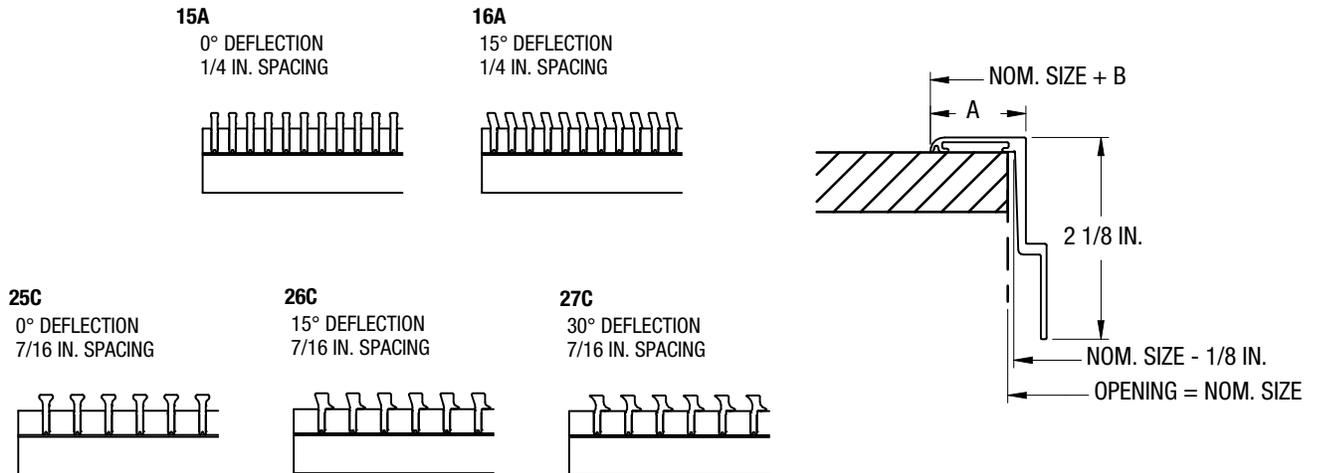
Available Sizes

- + Length
 - + Minimum 12 in.
 - + Maximum 72 in. per section
- + Width
 - + Minimum 6 in.
 - + Maximum 12 in.

Multiple section lengths are provided with alignment splice plates.



Available Core Styles



Flanged Mount Detail

Frame	Dimension A (in.)	Dimension B (in.)
750	3/4	1 1/8
1000	1	1 5/8
1250	1 1/4	2 1/8

PERFORMANCE DATA

Unit Size L x W [in]	Face Velocity [fpm]	Air Flow [cfm]	Total Pressure [in. w.g.]	Static Pressure [in. w.g.]	Noise Criteria [NC]	Proximity to Outlet [ft]		Adjacent Zone	
						DR 20%		DT = 5°F	DT = 10°F
						ΔT = 5 °F	ΔT = 10 °F		
24 x 12	20	38	-	-	-	-	-	-	-
	30	57	-	-	-	-	-	-	-
	40	76	0.01	0.01	-	-	-	-	-
	50	95	0.02	0.02	-	-	-	-	-
48 x 12	20	77	-	-	-	-	-	-	-
	30	115	-	-	-	-	-	-	-
	40	154	0.01	0.01	-	-	-	-	-
	50	192	0.02	0.02	-	-	1	-	-
72 x 12	20	116	-	-	-	-	-	-	-
	30	173	-	-	-	-	1	-	-
	40	231	-	-	-	-	2	-	1
	50	289	0.01	0.01	-	-	4	1	3

Performance Notes:

1. Sound and pressure drop tested in accordance with ASHRAE Standard 70-2006 (RA 2011) "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Air flow is in cubic feet per minute, cfm.
3. Pressure is in inches of water, in. w.g.
4. The NC values, sound pressure level, are based on a room absorption of 10 dB, re 10⁻¹² watts and one diffuser.
5. ΔT is the difference between the room air temperature 3 ½ ft above the floor and the temperature of the supply air.
6. Proximity to outlet is the minimum distance from an outlet to the occupant in order to achieve the listed DR value.
7. Distances closer to the diffuser have a higher DR than the cataloged value.
8. DR is the predicted percentage of people dissatisfied (PPD) due to draft. A value of less than 20 meets the requirements of ASHRAE Standard 55-2013, Thermal Environmental Conditions for Human Occupancy.
9. Blanks "-" indicate that the DR is below the specified value at all distances from the diffuser face.
10. DR catalog data is presented for an occupant density of 25 people/1000 ft², which is the default occupancy density for classrooms (ages 5-8) given by ASHRAE 62.1-2013. For other occupant densities, please refer to the DV Room Designer Software.
11. The Adjacent zone describes the distance from the face of the diffuser and measured 1 in. from the floor, at which the supply air velocity is 50 fpm.



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