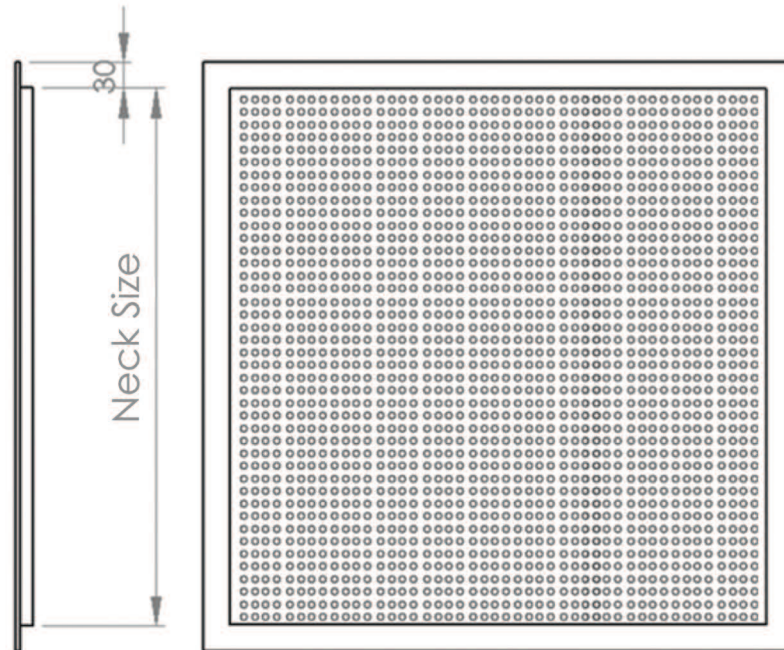




PERFORATED CEILING DIFFUSER

Out standing technique for highest demands Unique in comfort, acousrics and design

Construction



Frame

High quality extruded aluminum profiled with 30 mm flange width as standard and nonstandard widths are optional

Perforated panel

0.8 mm thick galvanized perforated steel sheet

Description



- Frame made from high quality extruded aluminum profiles with 300 mm flange width as standard. With powder coated color finish..
- Perforated panel made form Stainless steel 0.8 : 1.2 mm or galvanized steel sheet 0.8 mm thickness and fixed to the frame by screws. Panel can be removed easily by loosening the screws.
- Different types of internal cores can be fixed inside the perforated panel as option.
- Core is fixed to the frame with aluminum pins loaded with steel springs.
- Core can be easily removable and interchangeable to allow for maximum flexibility in installation and maintenance.
- Perforated diffuser can be supplied with plenum box, which is manufactured from galvanized steel sheet as option.
- Perforated diffuser can be supplied with easily removable volume damper which is fixed rigidly to the frame by aluminum rivets.
- Foam gasket is sealed around the back of the frame as option to avoid air leakage.
- Available in round and square size and nonstandard size as option.
- Powder coated color finish per RAL color codes as standard and flexibility of finish.

Performance Data

Plenum Neck Size=150mm DIA, Module Size=600x600mm						
Air flow in CFM	75	115	150	200	250	300
Air flow in m ³ /sec	0.0354	0.0543	0.071	0.0945	0.118	0.142
Neck velocity in m/sec.	2	3	4	5	6	7
PS loss in mm H ₂ O	0.495	1.152	2.120	3.490	4.789	6.129
Throw in meters	0.3-0.5	0.4-0.8	0.5-1.1	0.6-1.5	0.8-2.1	1.1-2.5
NC	<15	24	31	40	51	59
Plenum Neck Size=200mm DIA, Module Size=600x600mm						
Air flow in CFM	140	210	280	350	420	490
Air flow in m ³ /sec	0.066	0.099	0.132	0.165	0.198	0.231
Neck velocity in m/sec.	2	3	4	5	6	7
PS loss in mm H ₂ O	0.596	1.380	1.727	2.070	3.489	4.119
Throw in meters	0.3-1.1	0.8-1.8	1.1-2.0	1.4-2.2	1.7-2.5	2.1-3.2
NC	17	26	33	40	47	54
Plenum Neck Size=250mm DIA, Module Size=600x600mm						
Air flow in CFM	220	325	440	550	650	760
Air flow in m ³ /sec	0.104	0.154	0.208	0.26	0.307	0.359
Neck velocity in m/sec.	2	3	4	5	6	7
PS loss in mm H ₂ O	0.698	1.609	2.93	4.193	5.342	6.605
Throw in meters	0.5-1.7	1.1-2.3	1.8-3.2	2.6-4.1	3.1-4.9	3.7-6.1
NC	19	30	37	43	48	56
Plenum Neck Size=300mm Ø, Module Size=600x600mm						
Air flow in CFM	310	470	630	780	950	1100
Air flow in m ³ /sec	0.146	0.222	0.298	0.368	0.449	0.52
Neck velocity in m/sec.	2	3	4	5	6	7
PS loss in mm H ₂ O	0.8	1.83	3.34	5.23	7.76	10.72
Throw in meters	0.3-0.6-2.1	0.6-1.5-3.4	1.2-2.1-4.3	1.8-2.7-5.5	2.1-3.4-6.7	2.4-4.0-8.0
NC	24	33	43	50	58	>60

- Neck velocity is measured in m/sec.
- Ps: static pressure loss across the diffuser in mm of H₂O.
- Throw (meters) is measured for a terminal velocities of 0.25, 0.5 & 0.75 m/sec.
- Noise criteria (NC) based on a room attenuation of 10 db.