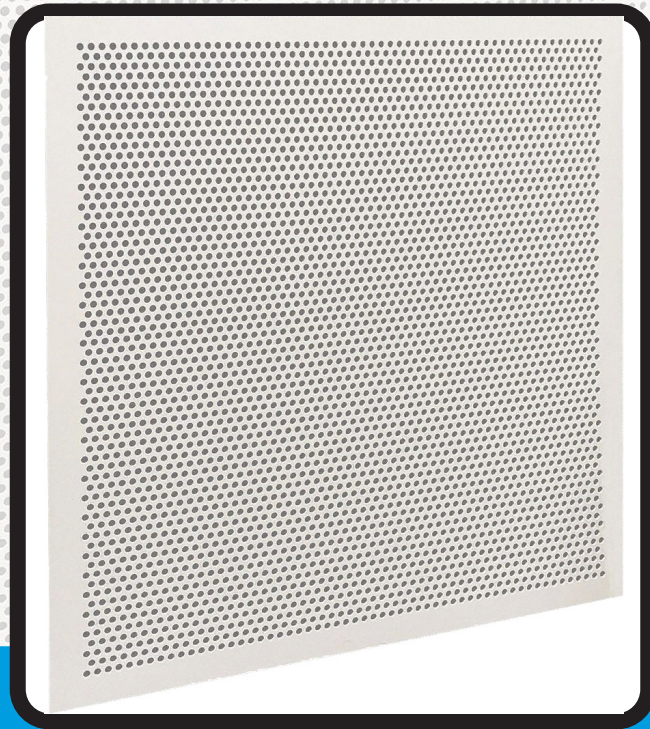





Air Outlets

**PERFORATED CEILING
DIFFUSERS
PCD**



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PERFORATED CEILING DIFFUSERS PCD



TYPES

- PCD : PERFORATED CEILING DIFFUSERS

FEATURES

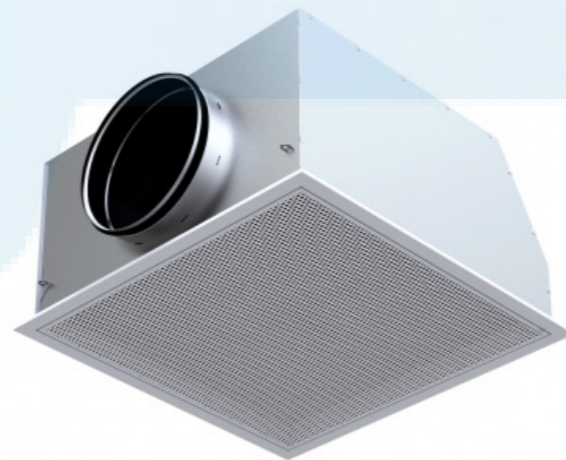
MATERIALS

- Frame : constructed of high quality extruded aluminium or stainless steel.
- Perforated Face : made of sheet aluminium , sheet steel coated or stainless steel.
- Plenum Box : made of galvanized sheet steel or stainless steel.

FINISH

- Standard mill finish or electrostatic painted .

- Efficient, draft less air distribution for all types of ceilings. Air pattern controllers do not damper the air in any way. Flow rate and sound level remain constant regardless of air pattern required .
- Ceiling diffusers with perforated face, are recommended for heating, ventilating and cooling in centralised air conditioning systems.
- Suitable for high room air change rates.
- For supply diffusers, perforated face is dropped slightly below the ceiling.
- Concealed fixing and easily removable perforated face, give easy access to air pattern deflectors and control damper.
- Available in round / Rectangular neck sizes.
- Perforated face has 5mm or 6mm diameter holes on 5mm or 6mm staggered center.
- Surround with frame of 33 mm width .
- Available with a combinations of perforated , plenum box and hepa filter thickness 15 cm or 30 cm .

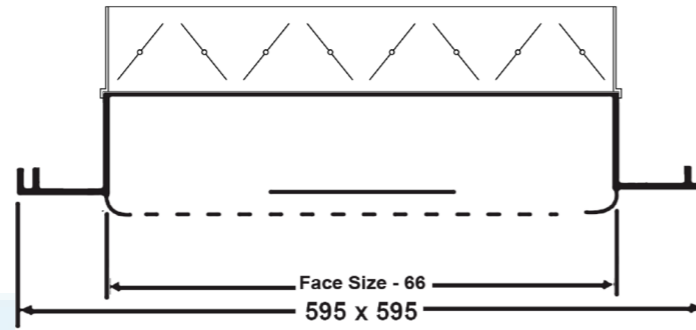


ACCESSORIES

PERFORMANCE DATA

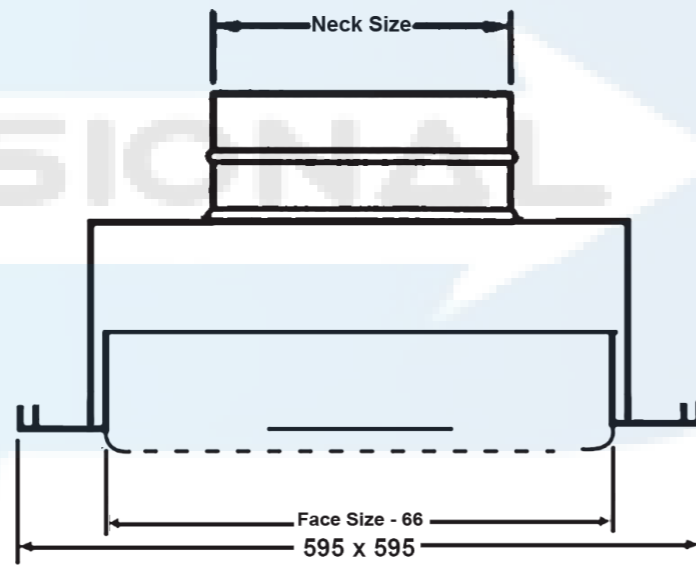
Perforated Ceiling Diffusers c/w Damper

- A. Opposed blade damper is screw operated from the face opening of the diffuser after removing the internal core. Lever operated damper as option.
- B. Foam gasket is sealed around the back of the frame as option to avoid air leakage.



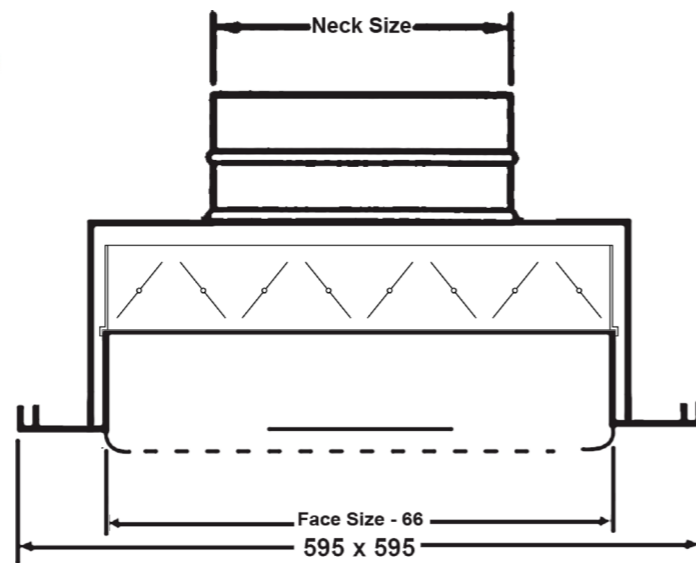
Perforated Ceiling Diffusers c/w Plenum

- A. The plenum/adaptor is made of galvanized sheet, aluminum or stainless steel
- B. Foam gasket is sealed around the back of the frame as option to avoid air leakage.



Perforated Ceiling Diffusers c/w Damper & Plenum

- A. Opposed blade damper is screw operated from the face opening of the diffuser after removing the internal core. Lever operated damper as option.
- B. The plenum/adaptor is made of galvanized sheet, aluminum or stainless steel
- C. Foam gasket is sealed around the back of the frame as option to avoid air leakage.



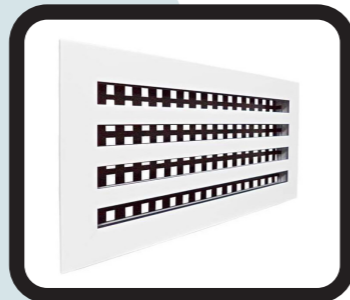
PERFORATED CEILING DIFFUSERS

Neck Size (In)	Neck velocity , FPM	300	400	500	600	700	800	1000	1200	1400
/ Neck Area (Sq.ft)	Velocity Pressure , in W.G.	0.006	0.010	0.016	0.023	0.031	0.040	0.063	0.090	0.123
	Total Pressure , in W.G.	0.012	0.021	0.033	0.047	0.064	0.084	0.131	0.189	0.257
Dia . 6 Sq.ft = 0.195	Flow Rate , CFM	58	78	98	117	137	156	196	235	274
	NC	< 20	< 20	< 20	21	24	27	34	40	46
	Throw , Feet (4 - way)	1-1	1-1	1-3	1-4	1-4	1-5	3-6	4-8	4-9
Dia . 8 Sq.ft = 0.348	Total Pressure , in W.G.	0.015	0.027	0.043	0.062	0.084	0.110	0.171	0.247	0.336
	Flow Rate , CFM	104	139	174	209	244	279	349	418	488
	NC	< 20	< 20	21	25	29	33	40	46	50
Dia . 10 Sq.ft = 0.55	Throw , Feet (4 - way)	1-2	1-3	1-5	2-6	2-7	3-8	5-10	6-12	7-14
	Total Pressure , in W.G.	0.019	0.034	0.054	0.077	0.105	0.138	0.215	0.310	0.422
	Flow Rate , CFM	163	218	272	327	381	436	545	654	763
Dia . 12 Sq.ft = 0.788	NC	< 20	20	25	29	33	37	45	> 50	> 50
	Throw , Feet (4 - way)	1-3	1-5	2-7	3-8	4-10	5-11	7-14	8-17	10-20
	Total Pressure , in W.G.	0.023	0.041	0.065	0.093	0.127	0.166	0.259	0.373	0.507
Dia . 14 Sq.ft = 1.16	Flow Rate , CFM	235	314	392	471	549	628	785	942	1099
	NC	< 20	23	28	32	36	41	48	> 50	> 50
	Throw , Feet (4 - way)	1-5	2-7	3-9	5-11	6-13	7-14	9-18	11-22	13-26
Dia . 16 Sq.ft = 1.40	Total Pressure , in W.G.	0.027	0.048	0.075	0.108	0.147	0.192	0.299	0.431	0.587
	Flow Rate , CFM	318	424	530	636	742	848	1060	1272	1484
	NC	< 20	25	30	34	39	44	> 50	> 50	> 50
Dia . 18 Sq.ft = 1.77	Throw , Feet (4 - way)	1-6	3-9	5-11	6-13	8-16	9-18	11-23	13-27	16-32
	Total Pressure , in W.G.	0.032	0.056	0.088	0.127	0.172	0.225	0.351	0.506	0.689
	Flow Rate , CFM	417	556	695	834	973	1112	1390	1668	1946
Dia . 18 Sq.ft = 1.77	NC	20	27	32	37	42	48	> 50	> 50	> 50
	Throw , Feet (4 - way)	1-7	4-11	7-13	8-15	10-19	11-21	13-27	15-32	19-38
	Total Pressure , in W.G.	0.038	0.066	0.104	0.150	0.204	0.266	0.414	0.597	0.813
Dia . 18 Sq.ft = 1.77	Flow Rate , CFM	528	704	880	1056	1232	1408	1760	2112	2464
	NC	21	29	34	40	45	> 50	> 50	> 50	> 50
	Throw , Feet (4 - way)	1-8	5-13	9-15	10-17	12-22	13-24	15-31	17-37	22-44

- . Throw values are given for terminal velocities of 100 and 50 fpm.
- . NC values are based on a room of 10 dB.
- . All pressure " Inch Water ".



Linear Slot Diffusers LSD



Linear Bar Grilles LBG

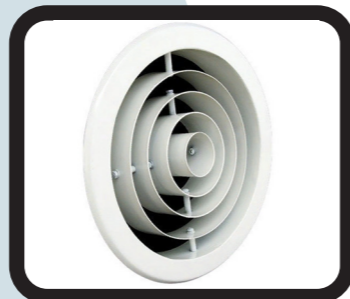
External Louvers EX-L



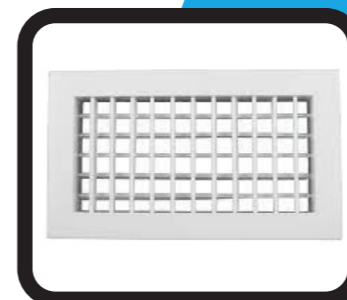
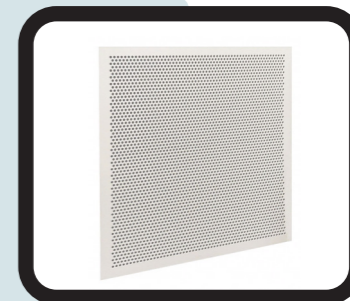
Square Ceiling Diffusers SCD



Jet Nozzles JN



Perforated Ceiling Diffusers PCD



Grilles And Registers SR

Swirl Diffusers SW-D

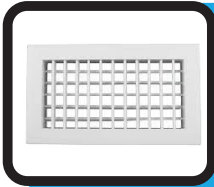


Volume Control Dampers VCD

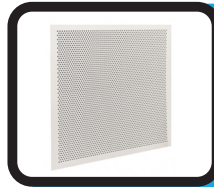


Curtain Fire Dampers FD-C





GRILLES AND REGISTERS



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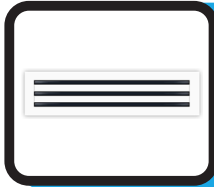
GRAVITY SHUTTERS



**LINEAR BAR
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**Linear Slot
Diffusers**



DISC VALVES



EXTERNAL LOUVERS



SWIRL DIFFUSERS



SAND TRAP LOUVERS



**VOLUME CONTROL
DAMPERS**



JET NOZZLES



**CURTAIN FIRE
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