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Future of Air Technology

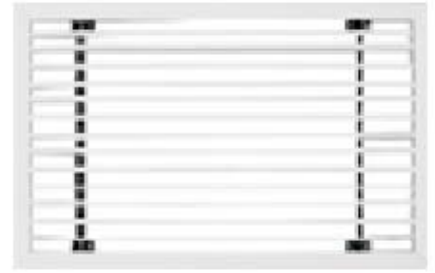
GRILLES & DIFFUSERS



LINEAR BAR GRILLES

General Description

- When performance and appearance is of prime importance, the CT linear bar grille is the logical choice. It is equally suitable as a one piece individual grille or as a continuous linear grille. Having a low noise level and uniform airflow, CT is suitable for supply or return air and may be installed in a ceiling, sidewall, floor or sill.
- Front blades are available in two deflection angles 0° and 15°. The 15° deflection blade is available in one way air pattern or two way air pattern.
- The Following Accessories are available with CT - Grills .
 - a. Opposed blade volume control damper in extruded aluminum black color BL.
 - b. Opposed blade volume control damper in steel construction black color AG-15.
 - c. A set of adjustable rear aerofoil blades to control the direction of air.
- CT can be provided in convex or concave curved sections.
- Internal or external mitered corner pieces for vertical or horizontal grille orientation.
- As standard the grille is supplied with Titus White Epoxy Powder Paint. Opposed blade dampers are supplied in matt black finish.
- Alternate finishes are available on special request, at extra cost.



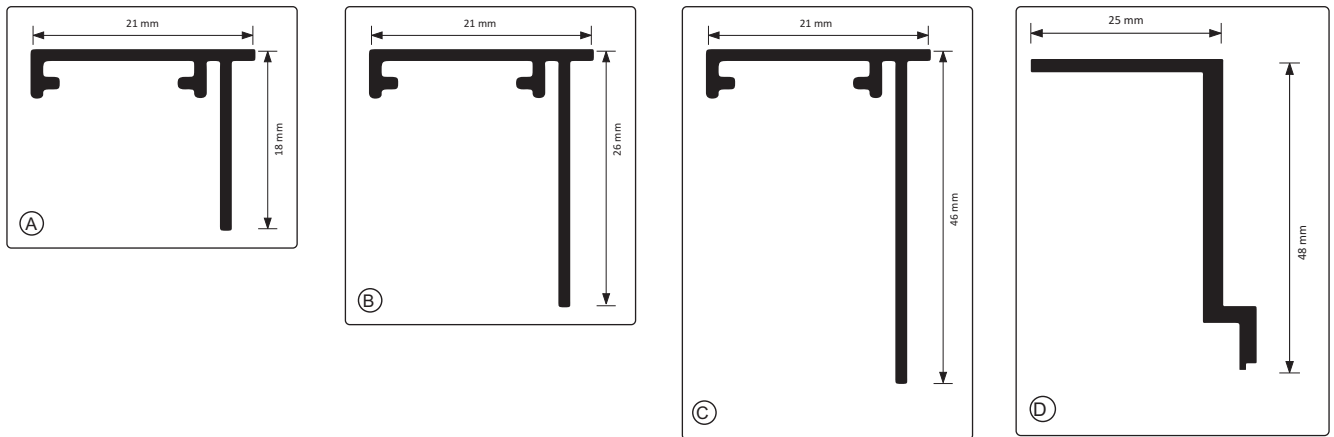
Construction

- Manufactured from high quality aluminum extrusions, having different flange frame options. The end flanges are mechanically crimped using a corrosion resistant angle section.
- A set of individually adjustable rear mounted aerofoil vanes are available as an option.
- Blades with streamlined shape with front widths of 3mm & 5mm are available.
- Minimum nominal grille height is 50mm up to 300mm as standard. Other grille heights may be provided when requested. Maximum single piece length is 1800mm, joining strips can be supplied for a continuous unbroken appearance.
- Installation of the grille can be with either spring clips or duct mounting using concealed brackets / Screws.

Blade Options

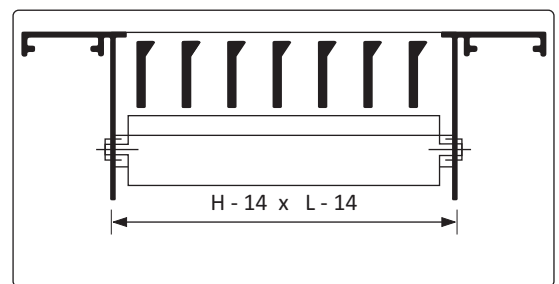
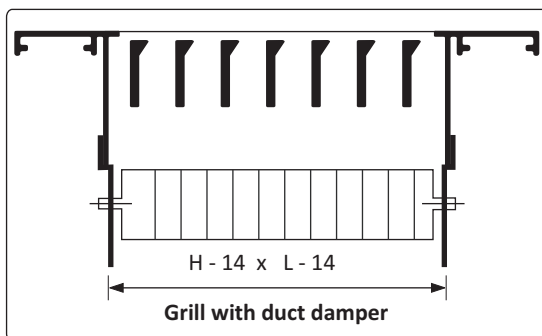


Frame Options

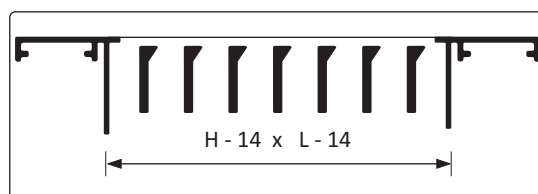


(For use with CT 480 Floor Mount Only)

Configurations



With Rear Aero Foil Adjustable Vertical Blade



Neck Dimension

Model : CT 540

Nominal Duct Width, (mm)										
50.0	Total Pressure (Pa)	2	5	9	14	20	28	36	46	57
	CMH/ m	104	155	205	263	313	367	418	468	526
	NC	-	18	27	34	39	43	47	50	51
	Throw Side Wall (m)	0.5 - 1.5	1.5 - 2.3	1.8 - 3	2.3 - 3.8	3 - 4.3	3.3 - 5.3	4 - 5.5	4.3 - 5.8	5 - 6
62.5	Total Pressure (Pa)	2	5	9	14	20	27	36	56	69
	CMH/ m	144	216	288	364	436	508	580	652	724
	NC	8	20	28	35	40	44	48	51	51
	Throw Side Wall (m)	1 - 1.8	1.8 - 2.5	2.3 - 3.3	2.8 - 4.3	3.3 - 5.3	4 - 5.8	4.5 - 6.5	5.3 - 6.8	5.8 - 7
75.0	Total Pressure (Pa)	2	5	9	14	20	27	35	44	55
	CMH/ m	184	277	367	461	558	648	742	832	925
	NC	9	21	29	36	41	45	49	53	53
	Throw Side Wall (m)	1 - 1.8	1.8 - 3	2.5 - 4	3.3 - 5	4 - 5.8	4.5 - 6.8	5.3 - 7	5.8 - 7.5	6.5 - 8
87.5	Total Pressure (Pa)	2	5	9	14	20	27	36	45	56
	CMH/ m	227	338	457	569	680	796	907	1026	1138
	NC	30	22	30	37	42	46	50	54	54
	Throw Side Wall (m)	1 - 2.3	2.3 - 3	2.8 - 4.3	3.8 - 5.5	4.3 - 6.5	5 - 7.3	5.8 - 8	6.5 - 8.5	7 - 8.8
100.0	Total Pressure (Pa)	2	5	9	14	20	28	36	46	57
	CMH/ m	274	407	547	680	814	954	1087	1228	1361
	NC	11	23	31	38	43	48	51	55	55
	Throw Side Wall (m)	1.3 - 2.5	2.5 - 3.8	3 - 4.5	4 - 5.8	4.5 - 7	5.5 - 8.3	6.5 - 8.5	7 - 9.3	8 - 9.8
125.0	Total Pressure (Pa)	2	5	9	14	20	27	35	45	55
	CMH/ m	353	526	698	875	1048	1228	1400	1573	1750
	NC	12	24	32	38	44	48	52	55	56
	Throw Side Wall (m)	1.3 - 2.8	2.8 - 4	3.3 - 5.3	4.3 - 6.8	5.3 - 8	6 - 9.3	7 - 9.8	8 - 10.3	8.8 - 11
150.0	Total Pressure (Pa)	2	5	9	14	20	27	35	45	55
	CMH/ m	436	648	864	1080	1300	1516	1728	1944	2164
	NC	13	25	33	39	45	49	53	56	57
	Throw Side Wall (m)	1 - 3.3	3 - 4.3	4 - 5.8	5 - 7.3	5.8 - 8.8	6.8 - 10.3	8 - 11	8.8 - 11.5	9.8 - 12.3

Model : CT 541

Nominal Duct Width, (mm)										
50.0	Total Pressure (Pa)	3	6	11	17	24	34	44	55	69
	CMH/ m	104	155	205	263	313	367	418	468	526
	NC	-	-	32	39	44	49	53	57	56
	Throw Side Wall (m)	1 - 1.5	1.5 - 2.5	2.3 - 3	2.5 - 4	3 - 4.5	3.8 - 5.3	4.3 - 5.5	4.5 - 5.8	5 - 6 - 8.5
62.5	Total Pressure (Pa)	3	6	11	17	24	33	43	54	67
	CMH/ m	144	216	288	364	436	508	580	652	724
	NC	8	20	28	35	40	44	48	51	51
	Throw Side Wall (m)	1 - 1.8	1.8 - 2.8	2.5 - 3.8	3 - 4.5	3.8 - 5.5	4.3 - 5.8	5 - 6.5	5.5 - 6.8	5.8 - 7
75.0	Total Pressure (Pa)	3	6	10	17	24	32	43	53	66
	CMH/ m	184	277	367	461	558	648	742	832	925
	NC	-	-	35	41	47	51	55	59	59
	Throw Side Wall (m)	1 - 2.3	2.3 - 3	2.8 - 4	3.3 - 5.3	6-Apr	4.5 - 6.8	5.5 - 7	6 - 7.5	6.5 - 8
87.5	Total Pressure (Pa)	3	6	11	17	24	33	43	54	67
	CMH/ m	227	338	457	569	680	796	907	1026	1138
	NC	-	27	36	42	48	53	56	60	60
	Throw Side Wall (m)	1.3 - 2.3	2.3 - 3.3	3 - 4.5	3.8 - 5.5	4.5 - 6.8	5.3 - 7.3	6.0-8.0	6.8 - 8.5	7.3 - 8.8
100.0	Total Pressure (Pa)	3	6	11	17	25	34	44	56	69
	CMH/ m	274	407	547	680	814	954	1087	1228	1361
	NC	-	28	37	44	49	54	58	61	61
	Throw Side Wall (m)	1.3 - 2.5	2.5 - 3.8	3.3 - 5	4.0 - 6.0	5 - 7.3	5.8 - 8.3	6.8 - 8.5	7.3 - 9.3	8 - 9.8
125.0	Total Pressure (Pa)	3	6	11	17	24	33	42	54	66
	CMH/ m	353	526	698	875	1048	1228	1400	1573	1750
	NC	-	29	38	44	50	54	58	62	62
	Throw Side Wall (m)	1.3 - 2.8	2.8 - 4.3	3.8 - 5.5	4.5 - 7	5.5 - 8.3	6.5 - 9.3	7.3 - 9.8	8.3 - 10.3	8.8 - 11
150.0	Total Pressure (Pa)	3	6	11	17	24	33	42	54	66
	CMH/ m	436	648	864	1080	1300	1516	1728	1944	2164
	NC	-	30	39	45	51	55	59	63	63
	Throw Side Wall (m)	1.5 - 3	3 - 4.5	4.0-6.0	5.3 - 7.5	6 - 9.3	7.3 - 10.3	8.3 - 11	9.3 - 11.5	10 - 12.3

Model : CT 580

Nominal Duct Width, (mm)										
50.0	Total Pressure (Pa)	2	5	9	15	21	28	37	47	58
	CMH/ m	122	184	245	306	367	428	490	551	612
	NC	-	17	25	31	36	40	44	47	47
	Throw Side Wall (m)	1 - 1.8	1.8 - 2.5	2.3 - 3.3	2.8 - 4.3	3.3 - 5.3	4 - 5.5	4.5 - 5.8	5.3 - 6	5.3 - 6.5
62.5	Total Pressure (Pa)	2	5	8	13	18	24	32	40	49
	CMH/ m	166	245	324	400	479	558	634	713	792
	NC	-	17	25	31	36	40	43	47	47
	Throw Side Wall (m)	1 - 1.8	1.8 - 2.8	2.5 - 3.8	3 - 4.5	3.8 - 5.5	4.3 - 6	5 - 6.8	5.5 - 7	6 - 7.3
75.0	Total Pressure (Pa)	2	5	9	14	21	28	37	47	58
	CMH/ m	212	324	436	547	659	770	882	994	1105
	NC	-	19	27	33	39	43	47	50	50
	Throw Side Wall (m)	1.3 - 2.3	2.3 - 3.3	3 - 4.5	3.8 - 5.8	4.5 - 6.8	5.5 - 7.3	6.0-8.0	6.8 - 8.3	7.8-8.0
87.5	Total Pressure (Pa)	2	5	8	13	19	26	34	43	52
	CMH/ m	256	385	511	641	770	896	1026	1152	1282
	NC	-	19	27	33	38	42	46	49	49
	Throw Side Wall (m)	1.3 - 2.5	2.5 - 3.8	3.3 - 5	4.0-6.0	5 - 7.3	5.8 - 8	6.5 - 8.5	7.3 - 8.8	7.5 - 9.5
100.0	Total Pressure (Pa)	2	5	9	13	19	26	34	43	53
	CMH/ m	313	461	612	763	914	1066	1213	1364	1516
	NC	-	20	28	34	39	43	47	50	50
	Throw Side Wall (m)	1.5 - 2.8	2.8 - 4	3.8 - 5.5	4.5 - 6.8	5.3 - 8	6 - 8.5	7 - 9.3	8 - 9.8	8.3 - 10.3
125.0	Total Pressure (Pa)	2	5	8	13	19	25	33	42	51
	CMH/ m	410	598	792	986	1181	1375	1573	1768	1962
	NC	-	21	29	35	40	44	48	51	51
	Throw Side Wall (m)	1.5 - 3	3 - 4.5	3.8 - 5.8	5 - 7.5	6 - 9.3	7 - 9.8	8 - 10.3	9.3 - 11	9.5 - 11.5
150.0	Total Pressure (Pa)	2	5	9	14	20	27	35	44	55
	CMH/ m	490	742	994	1242	1494	1746	1994	2246	2498
	NC	-	22	30	37	42	46	50	53	53
	Throw Side Wall (m)	1.8 - 3.3	3.3 - 5.3	4.5 - 6.8	5.8 - 8.5	6.8 - 10	8.0-11.0	9.3 - 12	10 - 12.5	10.8 - 13

Model : CT 581

Nominal Duct Width, (mm)										
50.0	Total Pressure (Pa)	2	5	9	14	21	28	37	47	58
	CMH/ m	122	184	245	306	367	428	490	551	612
	NC	11	23	32	38	44	48	52	56	56
	Throw Side Wall (m)	1 - 1.8	1.8 - 2.5	2.3 - 3.3	2.8 - 4.3	3.3 - 5.3	4 - 5.5	4.5 - 5.8	5.3 - 6	5.3 - 6.5
62.5	Total Pressure (Pa)	2	5	9	14	20	27	35	45	55
	CMH/ m	166	252	335	418	500	587	670	752	835
	NC	12	24	33	39	45	49	53	57	57
	Throw Side Wall (m)	1 - 1.8	1.8 - 3	2.8 - 4	3.3 - 5	4 - 5.8	4.5 - 6.5	5.3 - 6.8	5.8 - 7.3	6 - 7.5
75.0	Total Pressure (Pa)	2	5	9	13	19	26	34	43	53
	CMH/ m	212	317	425	529	634	742	846	954	1058
	NC	13	25	33	40	45	50	54	58	58
	Throw Side Wall (m)	1.3 - 2.3	2.3 - 3.3	3 - 4.5	3.8 - 5.5	4.5 - 6.8	5.3 - 7	5.8 - 7.5	6.8 - 8.3	7 - 8.5
87.5	Total Pressure (Pa)	2	5	8	13	19	25	33	42	52
	CMH/ m	252	378	508	634	763	893	1019	1148	1274
	NC	13	25	34	40	46	51	55	58	58
	Throw Side Wall (m)	1.3 - 2.5	2.5 - 3.8	3.3 - 5	4.0-6.0	5 - 7.3	5.8 - 8	6.5 - 8.5	7.3 - 8.8	7.5 - 9.5
100.0	Total Pressure (Pa)	2	5	8	13	18	25	33	42	51
	CMH/ m	295	446	598	745	896	1048	1199	1350	1498
	NC	-	26	34	41	46	51	55	59	59
	Throw Side Wall (m)	1.3 - 2.8	2.8 - 4	3.3 - 5.3	4.3 - 6.8	5.3 - 8	6 - 8.5	7 - 9.3	8 - 9.8	8.3 - 10
125.0	Total Pressure (Pa)	2	4	8	13	18	25	32	41	50
	CMH/ m	385	580	774	968	1166	1001	1555	1750	1944
	NC	14	27	35	42	48	52	56	60	60
	Throw Side Wall (m)	1.5 - 3	3 - 4.5	3.8 - 5.8	5 - 7.5	6 - 8.8	7 - 9.8	8 - 10.3	8.8 - 11	9.5 - 11.5
150.0	Total Pressure (Pa)	2	4	8	12	17	24	31	39	48
	CMH/ m	475	709	943	1177	1411	1645	1879	2113	2347
	NC	15	27	36	43	48	53	57	60	60
	Throw Side Wall (m)	1.8 - 3.3	3.3 - 5	4.3 - 6.8	5.5 - 8.3	6.5 - 9.8	7.5 - 10.8	8.8 - 11.3	9.8 - 12.3	10.3 - 12.8

Nominal Duct Width, (mm)										
50.0	Total Pressure (Pa)	3	6	10	17	24	33	43	54	67
	CMH/ m	104	155	205	263	313	367	418	468	526
	NC	14	25	33	40	45	49	53	56	56
	Throw Side Wall (m)	1 - 1.5	1.5 - 2.3	2.3 - 3	2.5 - 4	3 - 4.5	3.8 - 5.3	4.5 - 5.5	4.5 - 5.8	5.0 - 6.0
62.5	Total Pressure (Pa)	3	6	11	16	24	32	42	53	66
	CMH/ m	144	216	292	364	436	508	580	652	724
	NC	15	26	34	41	46	50	54	58	57
	Throw Side Wall (m)	1 - 1.8	1.8 - 2.8	2.5 - 3.8	3 - 4.5	3.8 - 5.5	4.3 - 5.8	5 - 6.5	5.5 - 6.8	5.8 - 7.0
75.0	Total Pressure (Pa)	3	6	10	16	24	32	42	52	65
	CMH/ m	184	277	367	464	558	648	742	832	925
	NC	15	27	35	42	47	51	55	58	58
	Throw Side Wall (m)	1.3 - 2.3	2.3 - 3	2.8 - 4	3.3 - 5	4.3 - 6	5 - 6.8	5.5 - 7	6 - 7.5	6.5 - 8
87.5	Total Pressure (Pa)	3	6	11	16	23	32	42	53	66
	CMH/ m	227	338	457	569	680	796	907	1026	1138
	NC	17	28	36	43	48	52	56	59	59
	Throw Side Wall (m)	1.3 - 2.5	2.5 - 3.3	3 - 4.5	4.5 - 5.8	4.5 - 6.8	5.3 - 7.3	6 - 8	7 - 8.5	7.3 - 8.8
100.0	Total Pressure (Pa)	3	6	11	17	24	33	43	55	67
	CMH/ m	274	407	547	680	814	954	1087	1228	1361
	NC	18	29	37	44	49	53	57	60	60
	Throw Side Wall (m)	1.5 - 2.5	2.5 - 4	3.3 - 5.3	4.3 - 6.5	5.3 - 7.5	6 - 8.3	6.8 - 8.5	7.5 - 9	8 - 9.8
125.0	Total Pressure (Pa)	3	6	10	16	23	32	42	52	65
	CMH/ m	353	526	698	875	1048	1228	1400	1573	1750
	NC	18	30	38	44	49	54	58	61	61
	Throw Side Wall (m)	1.5 - 3	3 - 4.3	4 - 5.8	5 - 7.3	5.8 - 8.5	6.8 - 9.3	7.5 - 9.8	8.5 - 10.3	8.8 - 11
150.0	Total Pressure (Pa)	3	6	10	16	23	32	42	53	65
	CMH/ m	436	648	864	1080	1300	1516	1728	1944	2164
	NC	19	30	39	45	50	55	58	62	61
	Throw Side Wall (m)	1.8 - 3.3	3.3 - 5	4.3 - 6.5	5.5-8.3	6.5-9.5	7.5-10.3	8.5-11	9.5-11.5	10-12.3

Data Notes :

- All Pressures are in Pascals
- Throw are given for terminal velocities of 0.75 and 0.25 m/s.
- Throw and Sound Values are based on a 1225 mm section. Multipliers for other lengths are shown below.
- NC values are based on a room absorption of 10 dB, re 10⁻¹² Watts. Corrections for lengths other than 1225 mm are shown below.
- When the diffuser is used as a return, increase the NC value by 4. The negative static pressure is 0.8 times the listed total pressure shown.
- This product has been tested per ASHRAE 70-91, with an ideal inlet plenum. If less than ideal inlets are used, sound levels may be higher.
- Maximum available width is 61 cm except For continuous lengths it is recommended that maximum active lengths are no longer than 3000 mm.
- Dash (-) in space denotes an NC value of less than 10.

NC Correction for length (Add)

Length (mm)	600	1225	1825	2450	3050
Supply	-3	0	+2	+3	+5
Return	0	+3	+5	+6	+8

Throw correction for length (Multiply)

Active Length, mm	600	1225	2450	3050	3650
Throw Corr.	0.72	1	1.5	1.7	1.8

Model : CT 561

Nominal Duct Width, (mm)										
50	Total Pressure (Pa)	2.00	5	7	10	12	15	20	25	30
	CMH/ m	194	252	306	364	418	475	529	587	641
	NC	-	-	11	18	24	29	33	37	41
	Throw Side Wall (m)	2.1 - 3.0	2.7 - 4.0	3.4 - 4.6	4.0 - 4.9	4.3 - 5.5	4.6 - 5.8	4.9 - 6.1	5.2 - 6.4	5.5 - 6.7
75	Total Pressure (Pa)	5	5	7	10	12	17	20	22	27
	CMH/ m	446	529	612	698	781	864	947	1030	1116
	NC	-	10	16	21	26	30	34	37	40
	Throw Side Wall (m)	3.4 - 5.2	4.0 - 6.1	4.6 - 6.4	5.2 - 7.0	6.1 - 7.3	6.4 - 7.6	6.7 - 8.2	7.0 - 8.5	7.0 - 8.8
100	Total Pressure (Pa)	2	5	7	10	12	15	20	22	27
	CMH/ m	500	641	781	918	1058	1199	1339	1476	1616
	NC	-	-	12	18	24	29	34	38	41
	Throw Side Wall (m)	3.0 - 4.6	4.0 - 6.1	4.9 - 7.3	5.8 - 7.9	6.7 - 8.5	7.3 - 9.1	7.9 - 9.8	8.2 - 10.1	8.5 - 10.7
150	Total Pressure (Pa)	2	5	5	7	10	15	17	22	27
	CMH/ m	781	1004	1228	1451	1674	1894	2117	2340	2563
	NC	-	-	12	19	25	30	34	38	42
	Throw Side Wall (m)	3.7 - 5.8	4.9 - 7.3	6.1 - 8.8	7.0 - 10.1	8.2 - 10.7	9.1 - 11.6	9.8 - 12.2	10.4 - 12.8	11.0 - 13.4
200	Total Pressure (Pa)	2	5	5	7	10	12	17	20	22
	CMH/ m	1116	1393	1674	1951	2228	2509	2786	3067	3344
	NC	-	-	13	19	25	29	34	37	41
	Throw Side Wall (m)	4.6 - 7.0	5.8 - 8.5	7.0 - 10.4	7.9 - 11.6	9.1 - 12.5	10.4 - 13.1	11.3 - 14.0	11.9 - 14.6	12.5 - 15.2

Model : CT 571

Nominal Duct Width, (mm)										
50	Total Pressure (Pa)	2	5	10	15	25	32	40	50	62
	CMH/ m	94	137	194	241	306	353	389	436	486
	NC	-	13	24	30	37	41	45	48	51
	Throw Side Wall (m)	0.9 - 1.5	1.5 - 2.1	2.1 - 3.0	2.4 - 4.0	3.4 - 4.6	3.7 - 4.9	4.3 - 5.2	4.6 - 5.5	4.6 - 5.8
75	Total Pressure (Pa)	2	5	10	15	25	32	40	50	62
	CMH/ m	180	252	353	428	558	637	702	785	882
	NC	-	15	25	31	39	43	46	49	53
	Throw Side Wall (m)	1.2 - 2.1	1.8 - 2.7	2.7 - 4.0	3.4 - 4.9	4.3 - 6.1	4.9 - 6.7	5.5 - 7.0	6.1 - 7.3	6.4 - 7.9
100	Total Pressure (Pa)	2	5	10	15	25	32	40	50	62
	CMH/ m	256	364	508	623	810	914	1019	1138	1271
	NC	-	16	27	33	40	44	47	51	54
	Throw Side Wall (m)	1.2 - 2.4	2.1 - 3.4	3.0 - 4.9	4.0 - 5.8	5.2 - 7.6	5.8 - 7.9	6.4 - 8.5	7.0 - 8.8	7.6 - 9.4
150	Total Pressure (Pa)	2	5	10	15	25	32	40	50	62
	CMH/ m	418	587	821	1004	1303	1483	1649	1840	2045
	NC	-	18	28	34	42	46	49	52	56
	Throw Side Wall (m)	1.5 - 3.0	2.7 - 4.3	4.0 - 6.1	4.9 - 7.3	6.4 - 9.4	7.3 - 10.1	7.9 - 10.7	8.8 - 11.3	9.8 - 11.9
200	Total Pressure (Pa)	2	5	10	15	25	32	40	50	62
	CMH/ m	558	796	1130	1393	1796	2052	2275	2542	2837
	NC	-	19	30	36	43	47	50	54	57
	Throw Side Wall (m)	1.5 - 3.4	3.4 - 4.9	4.6 - 7.0	5.8 - 8.5	7.3 - 11.0	8.5 - 11.9	9.4 - 12.5	10.4 - 13.1	11.3 - 14.0

Data Notes :

- All Pressures are in Pascal
- Throw are given for terminal velocities of 0.75 and 0.25 m/s.
- Throw and Sound Values are based on a 1200 mm section.
Multipliers for other lengths are shown below.
- NC values are based on a room absorption of 10 dB, re 10⁻¹² Watts.
Corrections for lengths other than 1200 mm are shown below.
- When the diffuser is used as a return, increase the NC value by 4.
The negative static pressure is 0.8 times the listed total pressure shown.
- This product has been tested per ANSI/ASHRAE 70-2006, with an ideal inlet plenum.
If less than ideal inlets are used, sound levels may be higher.
- For continuous lengths it is recommended that maximum active lengths are no longer than 3000 mm.
- NC values less than 10 are shown as "-"
- Throw values based on applications with surface effect. Use multiplier of 0.7 for free jet applications.

Throw correction for length (Multiply)

Active Length (mm)	600.00	1200.00	2400.00	3000.00
Throw Corr.	0.72	1.00	1.50	1.70

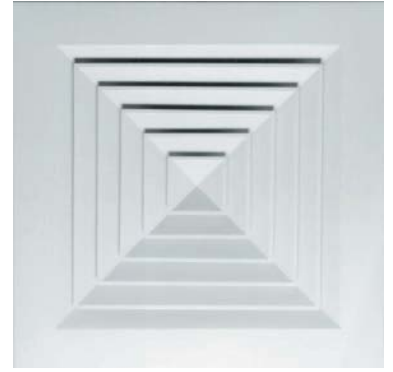
NC Correction for length (Add)

Active Length (mm)	600.00	1200.00	2400.00	3000.00
NC Correction	-3.00	0.00	2.00	3.00

SQUARE CEILING DIFFUSER

General Description

- TDC Square Diffusers can handle large amounts of air for a given pressure drop and noise level. It maintains an unbroken horizontal flow pattern from maximum cfm, down to minimum. Its pleasing appearance harmonizes with most of the interior designs, especially modular ceiling system.
- Central core is easily removable from the face of the diffuser.
- Extremely flexible configuration with cores available for one- two- three-or four way horizontal flow.
- Volume control damper can be adjusted from the face of diffuser, by removing the central core.
- Following accessories are available with TDC diffusers
 - a. Opposed blade volume control damper in extruded Aluminium mill finish (type B) or black (type BL).
 - b. Opposed blade volume control damper in steel in black color (type AG15).
 - c. GI plenums with side or top entry for round duct connections with or without diffusion plate, with optional lining for better acoustic and thermal performance.
- TDC Diffusers are supplied in Titus White Epoxy Powder Paint as a standard.
- Alternate finishes can be provided on request and at extra cost.



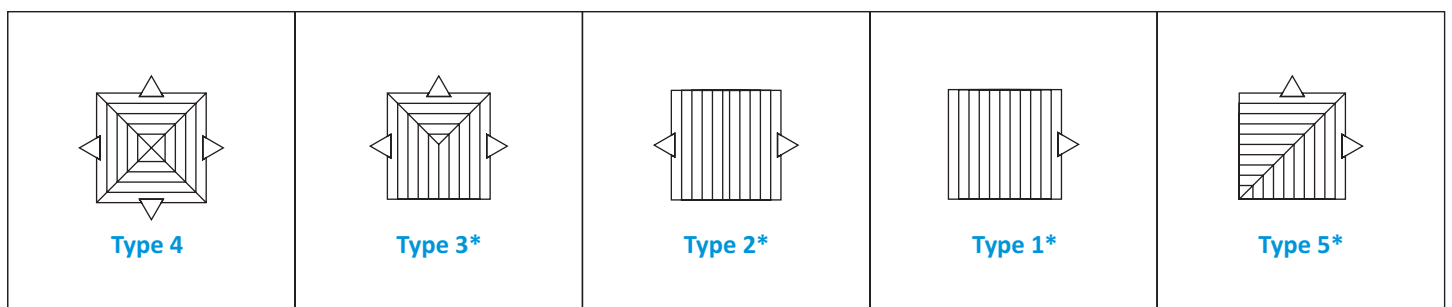
Construction

- Outer frames and central core are manufactured from stamped aluminum sheet or high quality Aluminium extrusion mechanically crimped available in following types

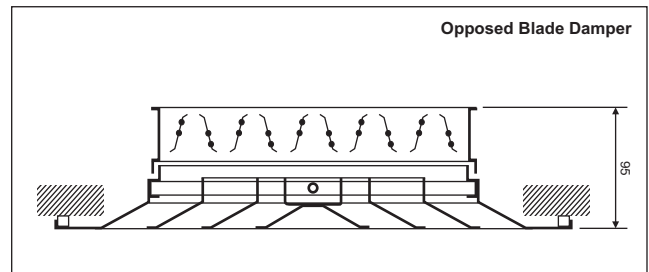
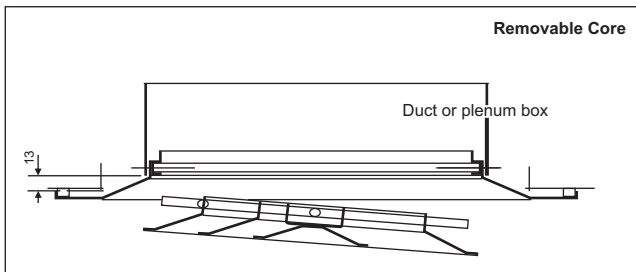
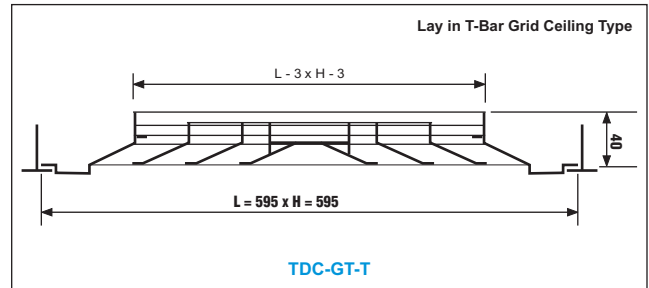
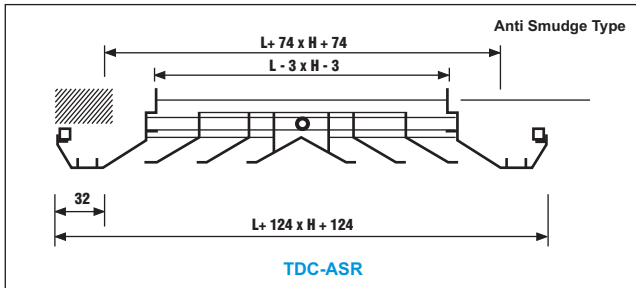
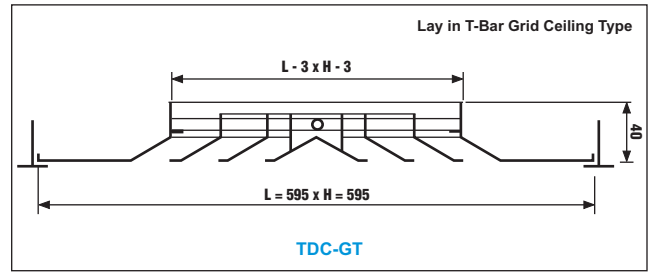
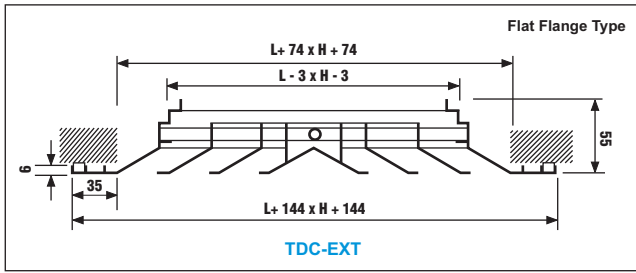
TDC	4 way core with stamped centre core & extruded aluminum frame
TDC-ASR	4 way core with anti smudge extruded aluminum frame
TDC-GT	4 way core with stamped outer frame for grid ceiling
TDC-GT-T	4 way core with stamped tegular outer frame for grid ceiling
TDC-EXT	4 way core with all aluminum extrusion construction

TDC diffusers are available in standard neck sizes of 150x150, 225x225, 300x300, 375x375 and 450x450. Bigger sizes are available on request (in all extrusion construction).

Pattern Arrangement



*Only available on all extrusion constructions



Model : TDC

	Neck Velocity (m/s)	1.5	2	2.5	3	3.5	4	4.5	5	5.5
	Total Pressure (Pa)	8	15	23	33	45	59	75	93	112
150 mm x 150 mm	Total Airflow CMH	96	128	160	192	224	256	288	320	352
	Noise Criteria-NC	-	-	13	18	22	26	29	31	34
	Throw ,m	0.9 - 1.2	1.2 - 1.8	1.5 - 1.8	1.8 - 2.1	1.8 - 2.4	2.1 - 2.4	2.1 - 2.7	2.1 - 2.7	2.4 - 2.7
225 mm x 225 mm	Total Airflow CMH	238	316	395	475	553	633	712	791	870
	Noise Criteria-NC	-	-	16	21	25	29	32	34	37
	Throw ,m	1.2 - 2.1	1.8 - 2.7	2.4 - 3.0	2.7 - 3.4	3.0 - 3.7	3.0 - 4.0	3.4 - 4.0	3.7 - 4.3	3.7 - 4.6
300 mm x 300 mm	Total Airflow CMH	442	588	735	883	1029	1177	1323	1471	1617
	Noise Criteria-NC	-	12	18	23	27	31	34	36	39
	Throw ,m	1.5 - 2.7	2.4 - 3.7	3.0 - 4.3	3.7 - 4.6	4.0 - 4.9	4.3 - 5.2	4.6 - 5.5	4.9 - 5.8	5.2 - 6.1
375 mm x 375 mm	Total Airflow CMH	709	944	1179	1416	1651	1888	2123	2360	2595
	Noise Criteria-NC	-	14	20	25	29	32	35	38	40
	Throw ,m	2.1 - 3.7	3.0 - 4.6	4.0 - 5.2	4.6 - 5.8	5.2 - 6.1	5.5 - 6.7	5.8 - 7.0	6.1 - 7.3	6.4 - 7.9
450 mm x 450 mm	Total Airflow CMH	1039	1383	1727	2075	2419	2767	3111	3458	3802
	Noise Criteria-NC	-	15	21	26	30	33	36	39	42
	Throw ,m	2.4 - 4.3	4.0 - 5.8	4.9 - 6.4	5.8 - 7.0	6.1 - 7.6	6.7 - 7.9	7.0 - 8.5	7.3 - 9.1	7.6 - 9.4

LINEAR SLOT DIFFUSERS

Description

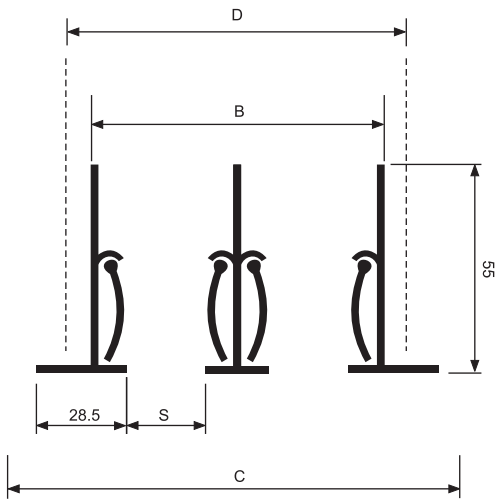
- Linear slot diffusers model MLC are designed for variable air volume systems. They ensure a uniform blanket of air that adheres to ceiling even at low flow rates.
- Pattern controllers can be adjusted to adjust the air flow direction Right, Left or Down.
- MLC linear slot diffuser is available in three slot widths of 12.5mm, 20mm and 25mm with upto eight slots.
- MLCR return diffusers are similar to Model MLC but without pattern controllers.
- Factory-made mitered corners are accurately assembled and carefully finished for a smooth and unbroken corner treatment.
- Ideal for continuous length applications.

The following accessories are available with MLC Slot Diffusers

- a. Type H - Hit and miss volume control damper.
 - b. Factory made plenums with inlets suitable for round flexible ducts.
 - c. Alignment strip for joining multiple sections.
 - d. Side end Flanges
 - e. Factory installed blank offs for mitered corners and other pieces if required.
- As standard the Diffuser is supplied in Titus White Epoxy Powder Paint on frames and black on pattern controllers.
 - Alternate Finishes are available on special request, at extra cost.

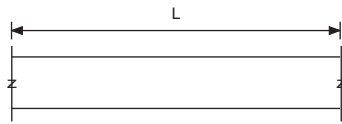
Construction

- Manufactured from high quality aluminum extrusions, in single section of 1800mm. Length greater than 1800mm are furnished in multiple sections.
- Maximum pattern controller length is 900mm.
- Hit and miss damper is supplied in steel painted black.
- Factory mounted plenum are made of Galvanised steel and supplied with or without acoustic lining.

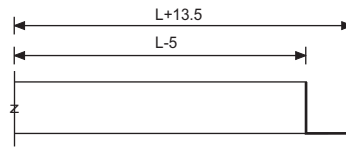


No. of Slots	MLC - 37			MLC - 38			MLC - 39		
	S = 12.5 MM			S = 20 MM			S = 25 MM		
	B	C	D	B	C	D	B	C	D
1	32	70	39	40	77	47	45	82	52
2	63	101	70	78	116	85	88	126	95
3	94	132	101	117	154	124	132	169	139
4	125	163	132	155	193	162	175	213	182
5	156	194	163	193	231	201	218	256	225

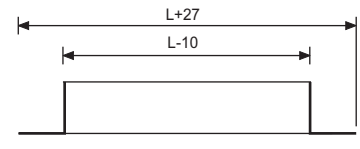
Flange Models



With open end

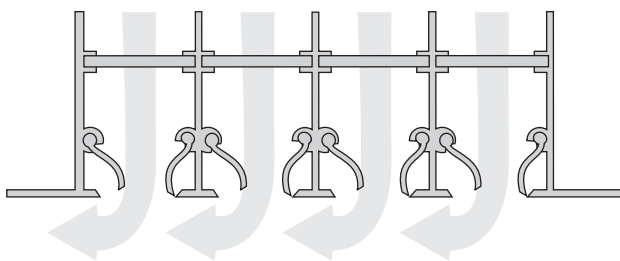


With one side flange

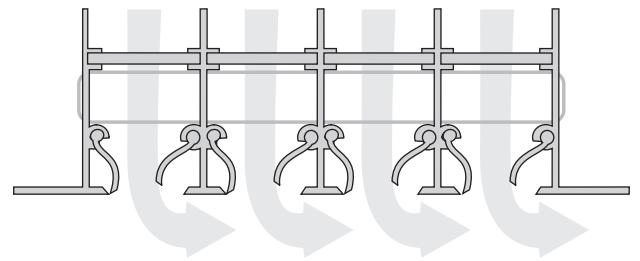


With both side flanges

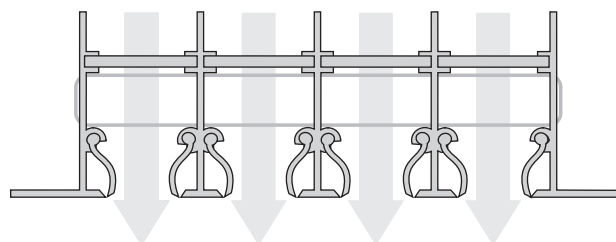
Air Deflection



Horizontal Left



Horizontal Right



Vertical

Model : MLC 37

	Slot Velocity m/s	1.02	2.03	3.05	4.06	5.08	6.10	7.11	8.13	9.14
	Velocity Pressure, Pa	1	2	6	10	16	22	30	40	50
1 Slot	Air Flow, CMH / m	23	46	70	93	116	139	163	186	209
	Static Pressure, Pa	1.3	5	12	21	33	47	64	83	105
	NC (Noise Criteria)	-	-	17	24	29	33	37	40	43
	Throw, m	0 - 0	1 - 2	2 - 3	3 - 3	3 - 4	3 - 4	4 - 4	4 - 5	4 - 5
	Air Flow, CMH / m	46	93	139	186	232	279	325	372	418
2 Slot	Static Pressure, Pa	1.3	5	12	21	33	47	64	83	105
	NC (Noise Criteria)	-	-	20	27	32	36	40	43	46
	Throw, m	1 - 2	3 - 3	3 - 4	4 - 5	4 - 5	5 - 6	5 - 6	5 - 7	6 - 7
	Air Flow, CMH / m	70	139	209	279	348	418	488	557	627
3 Slot	Static Pressure, Pa	1.3	5	12	21	33	47	64	83	105
	NC (Noise Criteria)	-	12	22	28	34	38	42	45	48
	Throw, m	2 - 3	3 - 4	4 - 5	5 - 6	5 - 6	6 - 7	6 - 8	7 - 8	7 - 9
	Air Flow, CMH / m	93	186	279	372	465	557	650	743	836
4 Slot	Static Pressure, Pa	1.3	5	12	21	33	47	64	83	105
	NC (Noise Criteria)	-	13	23	30	35	39	43	46	49
	Throw, m	3 - 3	4 - 5	5 - 6	5 - 7	6 - 7	7 - 8	7 - 9	8 - 9	8 - 10
	Air Flow, CMH / m	116	232	348	465	581	697	813	929	1045
5 Slot	Static Pressure, Pa	1.3	5	12	21	33	47	64	83	105
	NC (Noise Criteria)	-	14	24	31	36	40	44	47	50
	Throw, m	3 - 4	4 - 5	5 - 6	6 - 7	7 - 8	7 - 9	8 - 10	9 - 11	9 - 11
	Air Flow, CMH / m	116	232	348	465	581	697	813	929	1045

Model : MLC 38

	Slot Velocity m/s	1.02	2.03	3.05	4.06	5.08	6.10	7.11	8.13	9.14
	Velocity Pressure, Pa	1	2	6	10	16	22	30	40	50
1 Slot	Air Flow, CMH/m	36	68	104	140	173	209	245	277	313
	Static Pressure, Pa	1.5	6	13	24	37	53	73	95	120
	NC (Noise Criteria)	-	-	16	23	28	32	36	39	42
	Throw, m	0 - 0	1 - 2	2 - 4	3 - 5	4 - 6	5 - 6	5 - 7	6 - 7	6 - 8
	Air Flow, CMH/m	70	139	209	279	348	418	488	557	627
2 Slot	Static Pressure, Pa	1.5	6	13	24	37	53	73	95	120
	NC (Noise Criteria)	-	-	19	26	31	35	39	42	45
	Throw, m	1 - 2	3 - 5	5 - 6	6 - 7	6 - 8	7 - 9	8 - 9	8 - 10	9 - 11
	Air Flow, CMH/m	105	209	314	418	523	627	732	836	941
3 Slot	Static Pressure, Pa	1.5	6	13	24	37	53	73	95	120
	NC (Noise Criteria)	-	-	21	27	33	37	41	44	47
	Throw, m	2 - 4	5 - 6	6 - 8	7 - 9	8 - 10	9 - 11	9 - 11	10 - 12	11 - 13
	Air Flow, CMH/m	139	279	418	557	697	836	975	1115	1254
4 Slot	Static Pressure, Pa	1.5	6	13	24	37	53	73	95	120
	NC (Noise Criteria)	-	12	22	29	34	38	42	45	48
	Throw, m	3 - 5	6 - 7	7 - 9	8 - 10	9 - 11	10 - 12	11 - 13	12 - 14	12 - 15
	Air Flow, CMH/m	174	348	523	697	871	1045	1219	1394	1568
5 Slot	Static Pressure, Pa	1.5	6	13	24	37	53	73	95	120
	NC (Noise Criteria)	-	13	23	30	35	39	43	46	49
	Throw, m	4 - 6	6 - 8	8 - 10	9 - 11	10 - 13	11 - 14	12 - 15	13 - 16	14 - 17
	Air Flow, CMH/m	174	348	523	697	871	1045	1219	1394	1568

	Slot Velocity m/s	1.02	2.03	3.05	4.06	5.08	6.10	7.11	8.13	9.14
	Velocity Pressure, Pa	1	2	6	10	16	22	30	40	50
1 Slot	Air Flow, CMH/ M	46	93	139	186	232	279	325	372	418
	Static Pressure, Pa	1.9	7	17	30	47	67	91	119	151
	NC (Noise Criteria)	-	-	20	27	32	37	40	43	46
	Throw, m	0 - 1	1 - 2	2 - 4	4 - 6	5 - 6	6 - 7	6 - 8	7 - 8	7 - 9
2 Slot	Air Flow, CMH/ M	93	186	279	372	465	557	650	743	836
	Static Pressure, Pa	1.9	7	17	30	47	67	91	119	151
	NC (Noise Criteria)	-	13	23	30	35	40	43	47	49
	Throw, m	1 - 2	4 - 6	6 - 7	7 - 8	7 - 9	8 - 10	9 - 11	9 - 12	10 - 12
3 Slot	Air Flow, CMH/ M	139	279	418	557	697	836	975	1115	1254
	Static Pressure, Pa	1.9	7	17	30	47	67	91	119	151
	NC (Noise Criteria)	-	15	25	32	37	41	45	48	51
	Throw, m	2 - 4	6 - 7	7 - 9	8 - 10	9 - 11	10 - 12	11 - 13	12 - 14	12 - 15
4 Slot	Air Flow, CMH/ M	186	372	557	743	929	1115	1301	1486	1672
	Static Pressure, Pa	1.9	7	17	30	47	67	91	119	151
	NC (Noise Criteria)	-	16	26	33	38	43	46	50	52
	Throw, m	4 - 6	7 - 8	8 - 10	9 - 12	11 - 13	12 - 14	13 - 15	13 - 16	14 - 17
5 Slot	Air Flow, CMH/ M	232	465	697	929	1161	1394	1626	1858	2090
	Static Pressure, Pa	1.9	7	17	30	47	67	91	119	151
	NC (Noise Criteria)	-	17	27	34	39	44	47	50	53
	Throw, m	5 - 6	7 - 9	9 - 11	11 - 13	12 - 14	13 - 16	14 - 17	15 - 18	16 - 19

Date Notes :

- All Pressures are in Pascal
- Throw are given for terminal velocities of 0.75 and 0.25 m/s.
- Throw and Sound Values are based on a 1200 mm section. Multipliers for other lengths are shown below.
- NC values are based on a room absorption of 10 dB, re 10⁻¹² Watts. Corrections for lengths other than 1200 mm are shown below.
- When the diffuser is used as a return, increase the NC value by 4. The negative static pressure is 0.8 times the listed total pressure shown.
- This product has been tested per ANSI/ASHRAE 70-2006, with an ideal inlet plenum. If less than ideal inlets are used, sound levels may be higher.
- For continuous lengths it is recommended that maximum active lengths are no longer than 3000 mm.
- NC values less than 10 are shown as "-"
- Throw values based on applications with surface effect. Use multiplier of 0.7 for free jet applications.

Throw correction for length (Multiply)

Active Length (mm)	600	1200	2400	3000
Throw Corr.	0.72	1	1.5	1.7

NC Correction for length (Add)

Active Length (mm)	600	1200	2400	3000
NC Correction	-3	0	2	3

SINGLE LOUVER & DOUBLE LOUVER GRILLE

Description

When the uniform air distribution and performance is main focus of design then Single and Double Louver grille is the right selection. These grilles come with individually adjustable blades to set the angle of deflection which allows air deflection horizontally and vertically.

Front blades can be parallel to long dimension or short dimension.

The Following Accessories are available with Single & Double Louver Grille

- a. Opposed blade volume control damper in extruded aluminum black colour BL.
 - b. Opposed blade volume control damper in steel construction black colour AG-15.
- Grille can be provided in convex or concave curved sections.
 - Internal or external mitered corner pieces for vertical or horizontal grille orientation.
 - As standard the grille is supplied in Titus white Epoxy Powder paint. Opposed blade dampers are supplied in matt black finish.

Alternative finishes are available on special request, at extra cost

Construction

Grilles are made of Aluminium Extruded Flange of 18/25mm width and 1.1 mm thickness and Extruded aluminum Louvers of 18/25mm width and 1.0 mm thickness, connected to frame with nylon bushes.

Installation of the grille can be with either spring clips or duct mounting using concealed brackets / Screws



TI-GR-DL-H/V (Double Louver Grille)

Nom. Duct Size (mm)	Nom. Duct Area (m ²)	Core Area (m ²)	Core Vel. (m/s)		1.52	2.03	2.54	3.05	3.56	4.06	5.08	6.1	7.11
			Vel. Press. (Pa)	Throw (m)									
200x100	0.020	0.014	Total	1	2	4	6	8	10	16	22	30	
			Press.	4	7	11	15	21	27	42	61	82	
			(Pa)	5	9	14	21	28	37	58	83	113	
			Airflow (CMFH)	7	12	18	26	36	47	74	106	144	
250x100	0.025	0.018	NC	76	101	126	151	180	205	256	306	356	
			Throw	1.2-2.1	1.8-2.7	2.1-3.4	2.7-3.7	3.0-4.0	3.7-4.3	4.0-4.9	4.3-5.2	4.6-5.8	
			(m)	0.9-1.5	1.5-2.1	1.8-2.7	2.1-3.0	2.4-3.0	2.7-3.4	3.0-3.7	3.4-4.3	3.7-4.6	
			Airflow (CMFH)	97	130	162	194	227	259	324	389	454	
300x100	0.030	0.023	NC	126	169	212	256	299	338	425	511	594	
			Throw	1.5-2.1	2.1-3.0	2.4-3.7	3.0-4.3	3.7-4.6	4.0-4.9	4.3-5.2	4.6-5.8	4.9-6.1	
			(m)	1.2-1.8	1.8-2.4	2.1-3.4	2.4-3.4	2.7-3.7	3.0-4.0	3.4-4.3	3.7-4.6	4.0-4.9	
			Airflow (CMFH)	144	191	238	284	335	382	475	572	666	
350x100	0.035	0.026	NC	162	216	274	328	382	436	544	652	760	
			Throw	1.8-2.7	2.4-3.7	3.0-4.6	3.7-5.2	4.3-5.5	4.9-5.8	5.5-6.7	6.1-7.3	6.7-8.5	
			(m)	1.2-2.1	1.8-2.7	2.4-3.7	2.7-4.0	3.4-4.3	3.7-4.6	4.3-5.2	4.6-5.5	4.9-6.1	
			Airflow (CMFH)	180	238	299	356	418	475	594	713	832	
250x150	0.038	0.030	NC	180	238	299	356	418	475	594	713	832	
			Throw	1.8-3.0	2.7-4.0	3.4-4.9	4.0-5.5	4.6-5.8	5.2-6.4	5.8-7.0	6.4-7.6	6.7-8.5	
			(m)	1.5-2.1	2.1-3.0	2.4-3.7	3.0-4.3	3.7-4.6	4.0-4.9	4.6-5.5	4.9-6.1	5.2-6.4	
			Airflow (CMFH)	180	238	299	356	418	475	594	713	832	
200x200	0.040	0.033	NC	198	266	331	396	464	529	662	796	929	
			Throw	1.8-3.0	2.7-4.0	3.4-5.2	4.0-5.8	4.9-6.1	5.5-6.7	6.1-7.3	6.7-8.2	7.0-8.8	
			(m)	1.5-2.4	2.1-3.0	2.7-4.0	3.0-4.6	3.7-4.9	4.3-5.2	4.6-5.8	5.2-6.4	5.5-6.7	
			Airflow (CMFH)	180	238	299	356	418	475	594	713	832	
450x100	0.045	0.036	NC	223	299	374	450	522	598	749	896	1048	
			Throw	2.1-3.4	2.7-4.3	3.7-5.5	4.3-6.1	5.2-6.4	6.4-7.9	7.0-8.5	7.6-9.1	8.2-10.1	
			(m)	1.5-2.4	2.1-3.4	2.7-4.3	3.4-4.6	4.0-5.2	4.6-5.5	4.9-6.1	5.5-6.7	5.8-7.3	
			Airflow (CMFH)	223	299	374	450	522	598	749	896	1048	
250x200	0.050	0.041	NC	213	289	364	440	512	588	739	886	1038	
			Throw	2.1-3.4	3.0-4.6	4.0-5.8	4.6-6.4	5.5-7.0	6.1-7.3	6.7-8.2	7.3-9.1	7.9-9.8	
			(m)	1.5-2.7	2.4-3.7	3.0-4.6	3.7-4.9	4.3-5.5	4.6-5.8	5.2-6.4	5.8-7.0	6.1-7.6	
			Airflow (CMFH)	223	299	374	450	522	598	749	896	1048	
350x150	0.053	0.043	NC	234	313	392	468	547	626	781	940	1094	
			Throw	2.1-3.7	3.0-4.6	4.0-5.8	4.6-6.7	5.5-7.0	6.1-7.6	7.0-8.5	7.6-9.4	8.2-10.1	
			(m)	1.8-2.7	2.4-3.7	3.0-4.6	3.7-5.2	4.3-5.5	4.6-5.8	5.2-6.4	5.8-7.3	6.4-7.9	
			Airflow (CMFH)	234	313	392	468	547	626	781	940	1094	
600x100	0.060	0.050	NC	274	367	457	551	641	734	832	938	1048	
			Throw	2.4-4.0	3.4-5.2	4.3-6.4	5.2-7.0	6.1-7.6	7.0-8.5	7.6-9.4	8.2-10.1	8.8-11.0	
			(m)	1.8-3.0	2.7-4.0	3.4-4.9	4.0-5.5	4.6-6.1	5.2-6.4	5.8-7.0	6.4-7.9	7.0-8.5	
			Airflow (CMFH)	292	389	486	580	677	774	868	968	1068	
250x250	0.063	0.053	NC	292	389	486	580	677	774	868	968	1068	
			Throw	2.4-4.0	3.4-5.2	4.3-6.4	5.2-7.0	6.1-7.6	7.0-8.5	7.6-9.4	8.2-10.1	8.8-11.0	
			(m)	1.8-3.0	2.7-4.0	3.4-4.9	4.0-5.5	4.6-6.1	5.2-6.4	5.8-7.0	6.4-7.9	7.0-8.5	
			Airflow (CMFH)	292	389	486	580	677	774	868	968	1068	

TI-GR-DL-H/V (Double Louver Grille)

Nom. Duct Size (mm)	Nom. Duct Area (m ²)	Core Area (m ²)	Core Vel. (m/s)		1.52	2.03	2.54	3.05	3.56	4.06	5.08	6.1	7.11	
			Vel. Press. (Pa)	Throw										
450x150	0.068	0.055	Total	0°	1	2	4	6	8	10	16	22	30	
			Press. (Pa)	22.5°	4	7	11	15	21	27	33	42	61	82
			Throw (m)	45°	5	9	14	21	28	37	47	58	83	113
			Airflow (CMFH)	NC	302	400	500	601	702	803	1001	1202	1404	1404
350x200	0.070	0.059	Throw	0°	2.4-4.0	3.7-5.5	4.6-6.7	5.5-7.3	6.1-7.9	7.0-8.5	7.9-9.8	8.5-10.7	9.4-11.3	
			Throw (m)	22.5°	1.8-3.0	2.7-4.3	3.4-5.2	4.3-5.8	4.9-6.1	5.5-6.7	6.1-7.3	6.7-8.2	7.3-8.8	
			Throw (m)	45°	1.2-1.8	1.5-2.4	2.1-3.0	2.4-3.4	2.7-3.7	3.0-4.0	3.7-4.3	4.0-4.9	4.3-5.2	
			Airflow (CMFH)	NC	320	428	536	641	749	857	1069	1285	1498	
750x100 300x250	0.075	0.064	Throw	0°	2.4-4.3	3.7-5.5	4.6-7.0	5.5-7.6	6.4-8.2	7.3-8.8	8.2-10.1	8.8-11.0	9.8-11.9	
			Throw (m)	22.5°	2.1-3.4	2.7-4.3	3.7-5.5	4.3-6.1	4.9-6.4	5.5-7.0	6.4-7.6	7.0-8.5	7.3-9.1	
			Throw (m)	45°	1.2-1.8	1.5-2.4	2.1-3.4	2.4-3.4	2.7-3.7	3.4-4.0	3.7-4.6	4.0-4.9	4.3-5.2	
			Airflow (CMFH)	NC	353	468	587	702	821	940	1174	1408	1642	
900x100 350x250	0.088	0.075	Throw	0°	2.7-4.3	4.0-5.8	4.9-7.3	5.8-7.9	6.7-8.8	7.6-9.4	8.5-10.4	9.4-11.3	10.1-12.2	
			Throw (m)	22.5°	2.1-3.4	3.0-4.6	3.7-5.5	4.6-6.1	5.2-6.7	5.8-7.3	6.7-7.9	7.3-8.8	7.9-9.4	
			Throw (m)	45°	1.2-1.8	1.8-2.7	2.1-3.4	2.7-3.7	3.0-4.0	3.4-4.3	4.0-4.6	4.3-5.2	4.6-5.5	
			Airflow (CMFH)	NC	414	551	688	824	965	1102	1375	1652	1926	
600x150 450x200	0.090	0.076	Throw	0°	3.0-4.6	4.3-6.4	5.2-7.9	6.4-8.8	7.3-9.4	8.2-10.1	9.1-11.3	10.1-12.5	11.0-13.4	
			Throw (m)	22.5°	2.1-3.7	3.4-4.9	4.0-6.1	4.9-6.7	5.8-7.3	6.4-7.9	7.0-8.8	7.9-9.4	8.5-10.4	
			Throw (m)	45°	1.2-2.1	1.8-2.7	2.4-3.7	2.7-4.0	3.4-4.3	3.7-4.6	4.3-5.2	4.6-5.5	4.9-6.1	
			Airflow (CMFH)	NC	418	558	695	835	976	1116	1393	1670	1951	
1050x100	0.105	0.080	Throw	0°	3.0-4.9	4.3-6.4	5.5-7.9	6.4-9.1	7.6-9.8	8.5-10.4	9.4-11.6	10.4-12.8	11.3-13.7	
			Throw (m)	22.5°	2.4-3.7	3.4-4.9	4.3-6.1	4.9-7.0	5.8-7.6	6.7-7.9	7.3-9.1	7.9-9.8	8.8-10.7	
			Throw (m)	45°	1.2-2.1	1.8-3.0	2.4-3.7	3.0-4.0	3.4-4.3	4.0-4.6	4.3-5.2	4.6-5.8	5.2-6.1	
			Airflow (CMFH)	NC	540	720	900	1080	1260	1440	1800	2160	2520	
750x150 450x250	0.113	0.098	Throw	0°	3.4-5.5	4.9-7.0	6.1-8.8	7.0-10.1	8.2-10.7	9.4-11.6	10.7-12.8	11.6-14.0	12.5-15.2	
			Throw (m)	22.5°	2.7-4.3	3.7-5.5	4.6-7.0	5.5-7.6	6.4-8.2	7.3-8.8	8.2-10.1	8.8-11.0	9.8-11.9	
			Throw (m)	45°	1.5-2.4	2.1-3.4	2.7-4.0	3.4-4.6	3.7-4.9	4.3-5.2	4.9-5.8	5.2-6.4	5.5-7.0	
			Airflow (CMFH)	NC	504	673	842	1008	1177	1346	1681	2020	2354	
1200x100	0.120	0.092	Throw	0°	3.4-5.2	4.6-7.0	5.8-8.5	7.0-9.8	7.9-10.4	9.1-11.3	10.1-12.5	11.3-13.7-19.2	12.2-14.6	
			Throw (m)	22.5°	2.4-4.0	3.7-5.5	4.6-7.0	5.5-7.6	6.4-8.2	7.0-8.5	7.9-9.8	8.5-10.7	9.4-11.6	
			Throw (m)	45°	1.5-2.4	2.1-3.4	2.7-4.0	3.0-4.3	3.7-4.6	4.0-4.9	4.6-5.5	4.9-6.1	5.5-6.7	
			Airflow (CMFH)	NC	565	756	943	1130	1321	1508	1886	2264	2639	
600x200	0.120	0.103	Throw	0°	3.4-5.5	4.9-7.3	6.1-9.1	7.3-10.4	8.5-11.0	9.8-11.9	10.7-13.1	11.9-14.3	12.8-15.5	
			Throw (m)	22.5°	2.7-4.3	3.7-5.8	4.9-7.0	5.8-7.9	6.7-8.5	7.6-9.1	8.2-10.4	9.1-11.3	9.8-12.2	
			Throw (m)	45°	1.5-2.4	2.1-3.4	2.7-4.3	3.4-4.6	4.0-4.9	4.3-5.2	4.9-5.8	5.2-6.4	5.8-7.0	
			Airflow (CMFH)	NC	616	821	1030	1235	1440	1645	2056	2466	2876	
900x150	0.135	0.112	Throw	0°	3.7-5.8	5.2-7.6	6.4-9.4	7.6-10.7-15.2	8.8-11.6	10.1-12.2	11.3-13.7	12.2-15.2	13.4-16.5	
			Throw (m)	22.5°	2.7-4.6	4.0-5.8	4.9-7.3	5.8-8.2-11.6	7.0-8.8	7.9-9.4	8.8-10.7	9.4-11.6	10.4-12.5	
			Throw (m)	45°	1.5-2.4	2.4-3.4	2.7-4.3	3.4-4.9-6.7	4.0-5.2	4.6-5.5	5.2-6.1	5.5-6.7-9.8	6.1-7.3	
			Airflow (CMFH)	NC	724	965	1206	1447	1688	1930	2412	2894	3377	
750x200 600x250	0.150	0.132	Throw	0°	4.0-6.1	5.5-8.2	7.0-10.4	8.2-11.6	9.8-12.5	11.0-13.4	12.2-14.9	13.4-17.7	14.3-17.7	
			Throw (m)	22.5°	3.0-4.9	4.3-6.4	5.5-7.9	6.4-8.8	7.6-9.8	8.5-10.4	9.4-11.6	10.4-12.8	11.3-13.7	
			Throw (m)	45°	1.8-2.7	2.4-3.7	3.0-4.6	3.7-5.2	4.3-5.5	4.9-6.1	5.5-6.7	6.1-7.3		
			Airflow (CMFH)	NC	-	-	16	21	26	30	36	42	47	

TI-GR-DL-H/V (Double Louver Grille)

Nom. Duct Size (mm)	Nom. Duct Area (m ²)	Core Area (m ²)	Core Vel. (m/s)		1.52	2.03	2.54	3.05	3.56	4.06	5.08	6.1	7.11		
			Vel. Press. (Pa)	1											
1050x150	0.158	0.132	Total	4	11	15	21	27	33	40	48	58	68		
			Press. (Pa)	5	14	21	28	37	47	58	74	91	113	144	
			Airflow (CMH)	724	1206	1447	1688	1930	2412	2894	3377	4021	48	47	47
			NC	-	16	22	26	30	37	43	48	55	63	73	85
900x200	0.180	0.157	Throw	4.0-6.1	5.5-8.2	7.0-10.4	8.2-11.6	9.8-12.5	11.0-13.4	12.2-14.9	13.4-16.5	14.3-17.7	15.5-18.9		
			(m)	3.0-4.9	4.3-6.4	5.5-7.9	6.4-8.8	7.6-9.8	8.5-10.4	9.4-11.6	10.4-12.8	11.3-13.7	12.2-14.9	13.1-15.8	
			Airflow (CMH)	860	1148	1436	1724	2009	2297	2873	3445	4021	48	47	47
			NC	-	10	17	23	27	31	38	43	50	58	68	80
1200x150	0.180	0.151	Throw	4.3-6.7	6.1-9.1	7.6-11.3	9.1-12.5	10.7-13.7	11.9-14.6	13.4-16.2	14.6-18.0	15.8-19.2	17.0-20.4		
			(m)	3.4-5.2	4.6-7.0	5.8-8.8	7.0-9.8	8.2-10.7	9.1-11.3	10.4-12.5	11.3-13.7	12.2-14.9	13.1-15.8	14.0-17.4	
			Airflow (CMH)	824	1102	1375	1652	1926	2203	2754	3301	3852	4403	4954	5505
			NC	-	10	17	22	27	31	38	43	50	58	68	80
750x250	0.188	0.166	Throw	4.3-7.0	6.1-9.1	7.6-11.6	9.1-13.1	11.0-14.0	12.2-14.9	13.4-16.5	14.6-18.0	15.8-19.2	17.0-20.4		
			(m)	3.4-5.5	4.9-7.3	6.1-9.1	7.3-10.1	8.5-11.0	9.4-11.6	10.4-12.8	11.3-13.7	12.2-14.9	13.1-15.8	14.0-17.4	
			Airflow (CMH)	1004	1339	1674	2009	2344	2678	3348	4018	4687	5356	6025	6694
			NC	-	11	18	23	28	32	39	44	51	59	69	81
1050x200	0.210	0.183	Throw	4.6-7.3	6.4-9.8	8.2-12.2	9.8-13.7	11.3-14.6	12.8-15.8	14.3-17.7	15.8-19.2	17.3-21.6	18.8-23.3		
			(m)	3.7-5.8	5.2-7.6	6.4-9.4	7.6-10.7	8.8-11.3	10.1-12.2	11.3-13.7	12.2-14.9	13.1-15.8	14.0-17.4	14.9-18.3	
			Airflow (CMH)	1152	1489	1824	2159	2494	2829	3499	4168	4837	5506	6175	6844
			NC	-	12	18	24	28	32	39	44	51	59	69	81
900x250	0.225	0.201	Throw	4.9-7.6	6.7-10.1	8.5-12.8	10.1-14.3	11.9-15.5	13.4-16.5	14.9-18.3	16.5-20.1	18.1-22.3	19.7-24.6		
			(m)	3.7-5.8	5.2-7.9	6.7-9.8	7.9-11.0	9.1-11.9	10.4-12.8	11.6-14.3	12.8-15.5	14.0-17.4	14.9-18.3	15.8-19.2	
			Airflow (CMH)	1289	1626	1961	2296	2631	2966	3636	4305	4974	5643	6312	6981
			NC	-	12	18	24	28	32	39	44	51	59	69	81
1200x200	0.240	0.210	Throw	4.9-7.9	7.0-10.4	8.8-13.1	10.4-14.6	12.2-15.8	13.7-16.8	15.2-18.9	16.8-20.7	18.3-22.3	19.8-24.6		
			(m)	3.7-6.1	5.5-8.2	6.7-10.1	8.2-11.3	9.4-12.2	10.7-13.1	11.9-14.6	13.1-15.8	14.3-17.4	15.5-19.2	16.7-21.9	
			Airflow (CMH)	1424	1761	2098	2435	2772	3109	3779	4448	5117	5786	6455	7124
			NC	-	12	19	24	29	33	40	45	52	59	67	75
1050x250	0.263	0.235	Throw	5.2-8.2	7.3-11.0	9.1-13.7	11.0-15.5	12.8-16.8	14.6-17.7	16.2-19.8	17.7-21.9	19.2-23.5	20.7-25.3		
			(m)	4.0-6.4	5.8-8.5	7.0-10.7	8.5-11.9	10.1-12.8	11.3-13.7	12.5-15.5	13.7-17.1	14.9-18.3	16.1-20.1	17.3-21.9	
			Airflow (CMH)	1480	1969	2458	2947	3436	3925	4734	5543	6352	7161	7970	8779
			NC	-	13	19	25	29	33	40	46	52	59	67	75
1200x250	0.300	0.269	Throw	5.5-8.8	7.9-11.9	9.8-14.9	11.9-16.5	13.7-18.0	15.5-19.2	17.4-21.3	19.2-23.5	21.0-25.3	22.8-27.1		
			(m)	4.3-7.0	6.1-9.1	7.6-11.6	9.1-12.8	10.7-13.7	12.2-14.9	13.4-16.5	14.9-18.0	16.4-20.1	17.9-21.9	19.4-23.5	
			Airflow (CMH)	1536	2025	2514	2999	3484	3969	4778	5587	6396	7205	8014	8823
			NC	-	13	19	25	29	33	40	46	52	59	67	75

Date Notes :

- 0°, 22.5°, & 45° represent blade deflection angles.
- Data obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006.
- All pressures are in Pascal.
- Core velocities are in meter per second.
- Throw values given are for terminal velocities of 0.75 and 0.25 m/s.
- Each NC value represents the noise criterion curve that will not be exceeded by the sound pressure in any of the octave bands, 2 through 7. Each NC value is based on a room absorption of 10 dB, re 10⁻¹² watts. Each NC value is further based on grille operating at a 0° deflection. Settings of 22.5° or 45°, increase the stated sound levels by 1 or 7 NC, respectively.
- The stated deflection settings refer to the horizontal setting of the blade's deflection angle. For a 20° upward deflection, use the throw rating for the 0° setting and the total pressure for the 22.5° horizontal setting.
- Dash (—) in space indicates NC value less than 10.
- Performance data does not include damper.

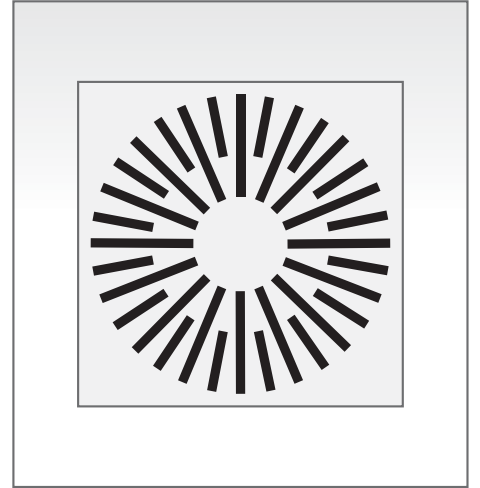
OTHER PRODUCTS



TMS



OMNI



Helical Diffuser



Modubloc 1 Slot



Modubloc 2 Slot



Modubloc 3 Slot



Drum Louvers



Spectrum



Intake Louvers



Eye Ball Jet Nozzle



Multicone Jet Nozzle



Spot Diffuser



Under Floor (TAF-V)



Under Floor (TAF-R)



**Under Floor
Fan Powered Terminal Unit**



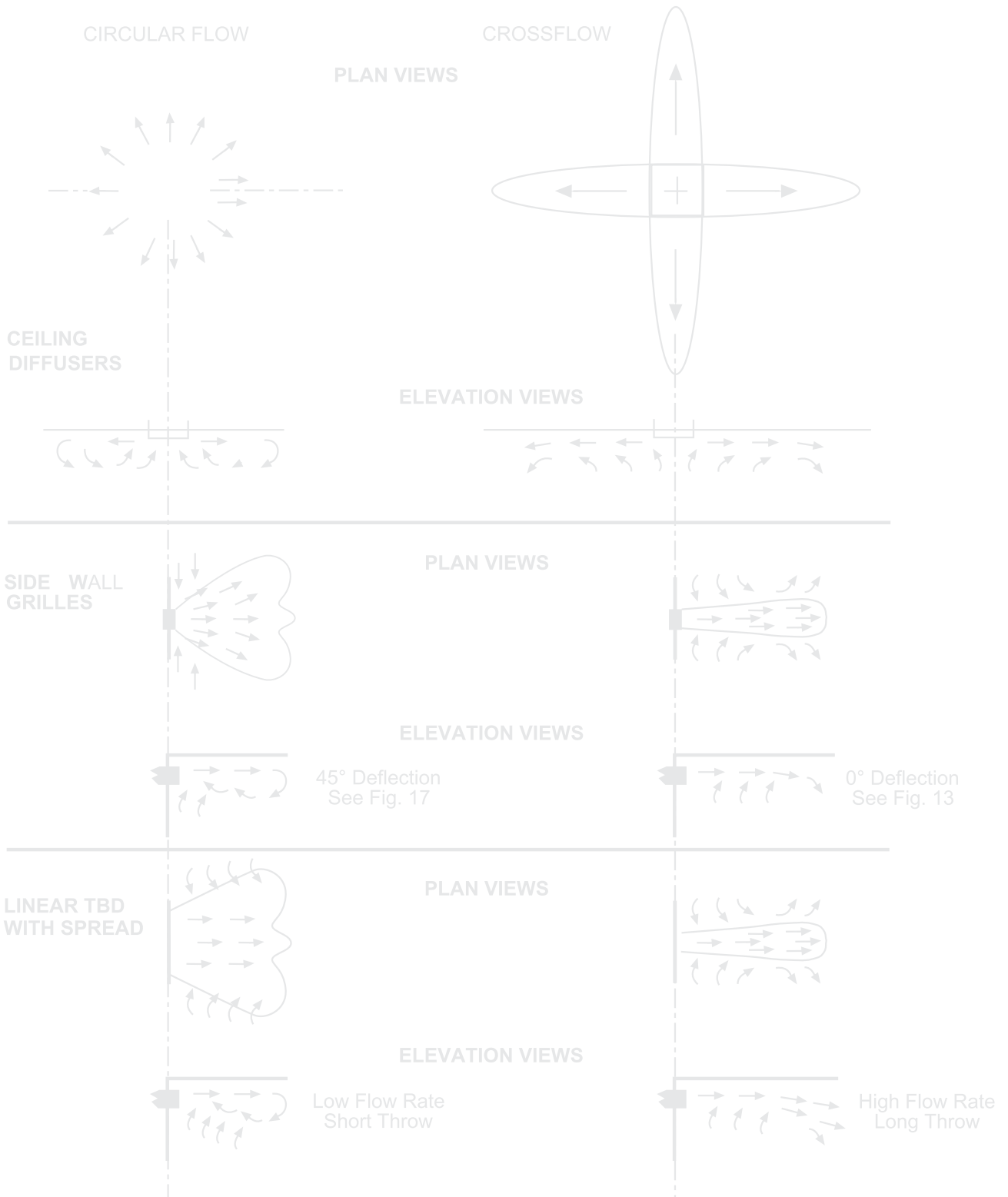
Security Grill (SG - PR)



Security Grill (SG 3300FL)



Security Grill (SG 1500FL)



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