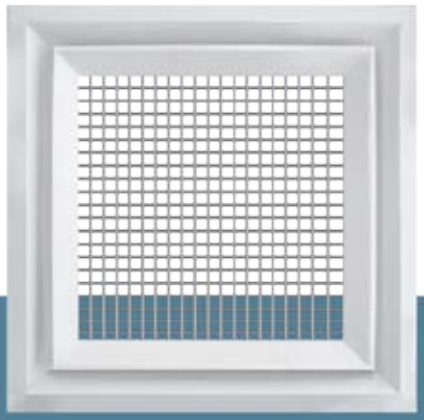
FlexDur Technology

CEILING SERIES
CDD Ceiling Double Deflection Diffuser



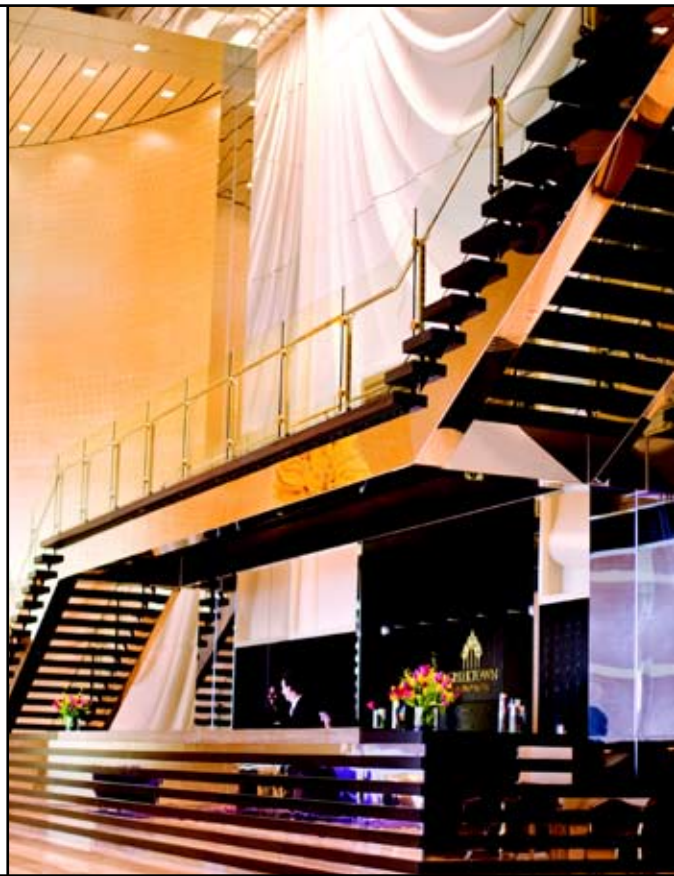
✣ CDD APPLICATION
FlexDur CDD diffuser handle an unusual large flow throw down from the ceiling with less pressure drop and low noise level, its pleasing double deflection centre core harmonies with various architectural aspect. CDD is primarily design for supply and return air application.

✣ CDD STANDARD CONSTRUCTION / FEATURES
CDD utilizing vertical and horizontal blade for the ease of air directions, the cores are removable and is equipped with spring loaded latches, these grille provide the ultimate in performance and noise reduction.

- Frame & deflector are made of extruded aluminum or steel.

- Phosphate treated and powder coated white RAL 9010 as standard.

- Standard face size are 595 x 595 mm or 603x603mm.



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CDD OPTIONS

- Transition square to round adaptor with or without radial damper.
- Plenum box - insulated or non-insulated.
- All RAL color.

CDD ORDER KEY INFORMATION

CDD - A + Adp

Accessories	Plenum Box w/o Insulation (PB), Transition adaptor (ADP), Plenum Box c/w 5mm P.E foam Insulation (PBL)
Material	Extruded Aluminum (A), Galvanized Steel (S), Aluminum Zinc (AZ)
Model	CDD - Ceiling Double Deflection Diffuser

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CDD PERFORMANCE DATA (SQUARE INLET)

Neck Size mm Neck Area ft²	Neck Vel. (fpm)		400	500	600	700	800	900	1000
	Total Press	22°	0.8	1.4	1.9	2.4	3.2	4.2	5.1
	(mmAq)	45°	1.1	2.0	2.5	3.8	5.0	6.4	7.8
8" x 8" (0.44)	CFM		176	220	264	308	352	390	440
	Throw	22°	2.6 - 4.5	3.3 - 5.0	3.9 - 5.6	4.3 - 6.1	4.6 - 6.6	5.0 - 7.0	5.1 - 7.2
	(m)	45°	1.6 - 2.7	2.2 - 3.1	2.4 - 3.4	2.7 - 3.7	3.0 - 4.0	3.1 - 4.2	3.3 - 4.5
	NC		-	-	-	24	28	30	33
10" x 10" (0.07)	CFM		280	350	420	490	560	630	700
	Throw	22°	3.3 - 5.4	3.9 - 6.2	4.7 - 6.7	5.4 - 7.4	5.7 - 7.8	6.1 - 8.3	6.5 - 9.0
	(m)	45°	2.1 - 3.4	2.6 - 3.9	3.0 - 4.2	3.3 - 4.6	3.5 - 5.0	3.8 - 5.3	4.0 - 5.5
	NC		-	-	21	26	29	32	37
12" x 12" (1.0)	CFM		400	500	600	700	800	900	1000
	Throw	22°	40 - 6.9	4.9 - 7.7	6.0 - 8.4	6.6 - 9.0	7.0 - 9.8	7.4 - 10.3	7.8 - 10.9
	(m)	45°	2.6 - 4.2	3.2 - 4.7	3.8 - 5.3	4.1 - 5.7	4.4 - 6.1	4.6 - 6.4	5.0 - 6.6
	NC		-	-	23	27	32	35	39
14" x 14" (1.36)	CFM		544	680	816	952	1088	1224	1360
	Throw	22°	4.5 - 8.0	5.6 - 9.0	7.0 - 9.7	7.5 - 10.6	8.0 - 11.2	8.6 - 11.8	9.0 - 12.5
	(m)	45°	2.9 - 5.0	3.6 - 5.5	4.3 - 6.0	4.7 - 6.6	5.0 - 6.9	5.3 - 7.4	5.5 - 7.8
	NC		-	-	24	29	33	36	40
18" x 18" (2.25)	CFM		900	1125	1350	1575	1800	2005	2250
	Throw	22°	7.9 - 13.5	9.6 - 15.2	11.4 - 16.4	12.7 - 17.8	13.8 - 19.2	14.7 - 20.3	15.6 - -21.2
	(m)	45°	4.8 - 8.2	6.0 - 9.4	7.2 - 10.3	7.9 - 11.0	8.4 - 11.9	9.0 - 12.9	9.5 - 13.5
	NC		-	22	26	31	36	39	41

Notes:

- Static Pressure is in Inch of Water, Air volume is in CFM.
- NC values were determined by subtracting 10 dB from the sound power level for room absorption.
- Throw data is presented for terminal velocities of 100 and 50 ft./min.
- Throw values are given for Isothermal conditions.
- Dash (-) in space indicates NC value less than 20.

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