



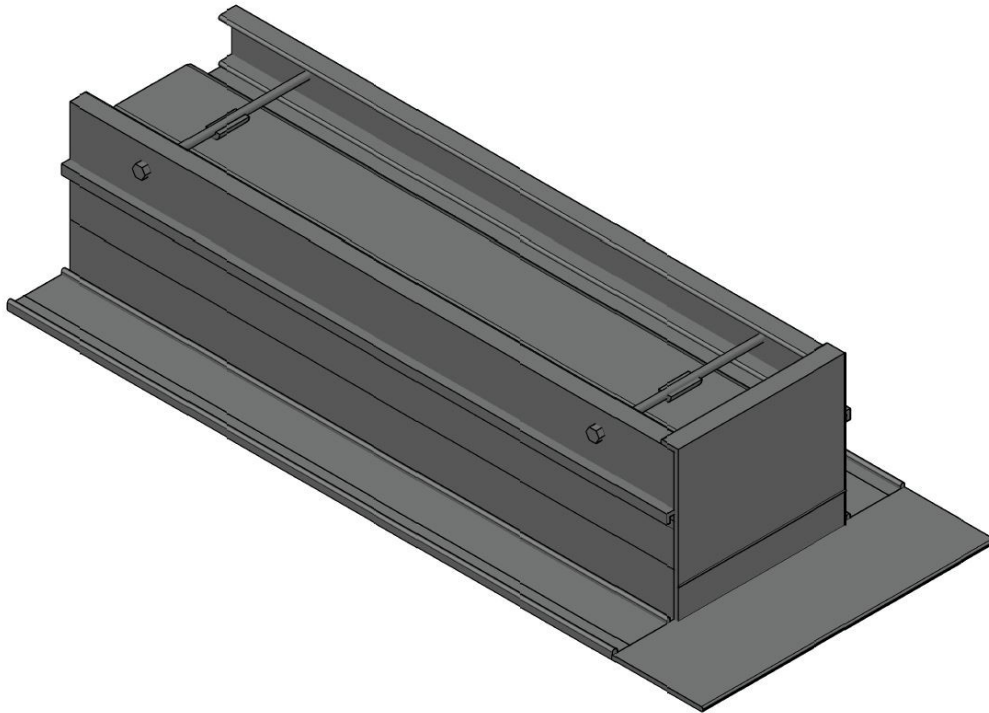
شركة مصنع عالم الناصريه المحدودة
AL NASSERIAH WORLD FACTORY COMPANY LTD

FLOW BAR DIFFUSER



ANA Flow Bar Diffuser :

Is designed to satisfy both architectural and engineering requirements for designing an air distribution system that maintain optimum room air conditions whilst being efficient yet inconspicuous. The high throw series is primarily designed for ceiling applications and allows the air diffuser to become inconspicuous, whilst fully integrating into ceiling system.



ANA Flow Bar Construction

Frame :

Made of extruded Aluminum profile **6063** and a thickness of **(1.2)** mm, Pattern deflector are adjusted in supply applications to control air pattern .

Pattern Controller :

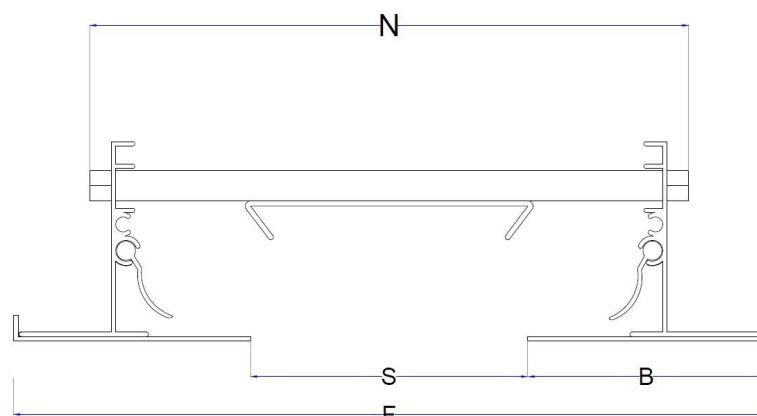
Integral pattern controllers are allowing the airstream to be directed left and right for horizontal and vertical airflow.

Finish :

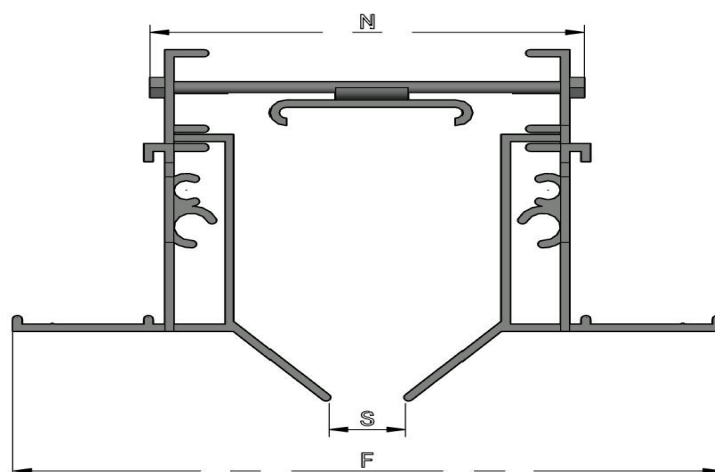
Electrostatic powder coating is used for Disc Valve with standard white color for the Frame and the Cores **(RAL 9016)** and other colors are available upon request.

ANA Flow Bar Dimensions

Model : NFBD - X



Standard Flow Bar Diffuser



Flow Bar with Hidden Frame

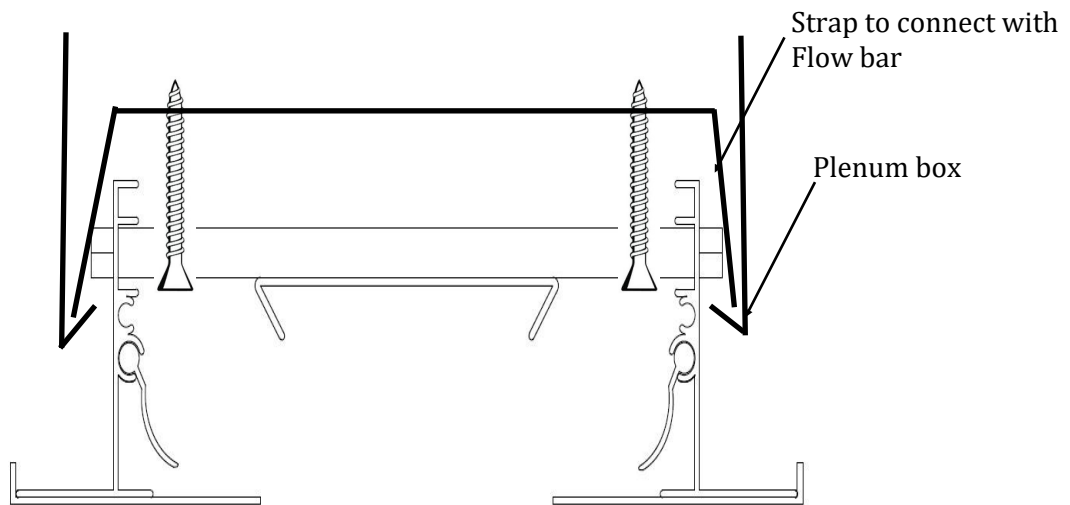
Number of Slots	Slot Width S		Neck Size N		Face Size F		Border B		Margin M	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
1	25	1	61	2 4/9	95	3 4/5	35	1 2/5	-	-
	38	1 1/2	86	3 4/9	120	4 4/5	41	1 2/3	-	-
	47	2	111	4 4/9	145	5 4/5	49	2	-	-
	64	2 1/2	137	5 1/2	171	6 5/6	53.5	2 1/7	-	-
	76	3	162	6 1/2	196	7 5/6	60	2 2/5	-	-
2	25	1	123	5	157	6 2/7	37	1 1/2	32	1 2/7
	38	1 1/2	184	7 1/3	218	8 5/7	46	1 5/6	50	2
	47	2	235	9 2/5	269	10 3/4	54	2 1/6	66	2 2/3
	64	2 1/2	286	11 4/9	320	12 4/5	59	2 1/3	75	3
	76	3	336	13 4/9	370	14 4/5	65	2 3/5	88	3 1/2

FLOW BAR DIFFUSER

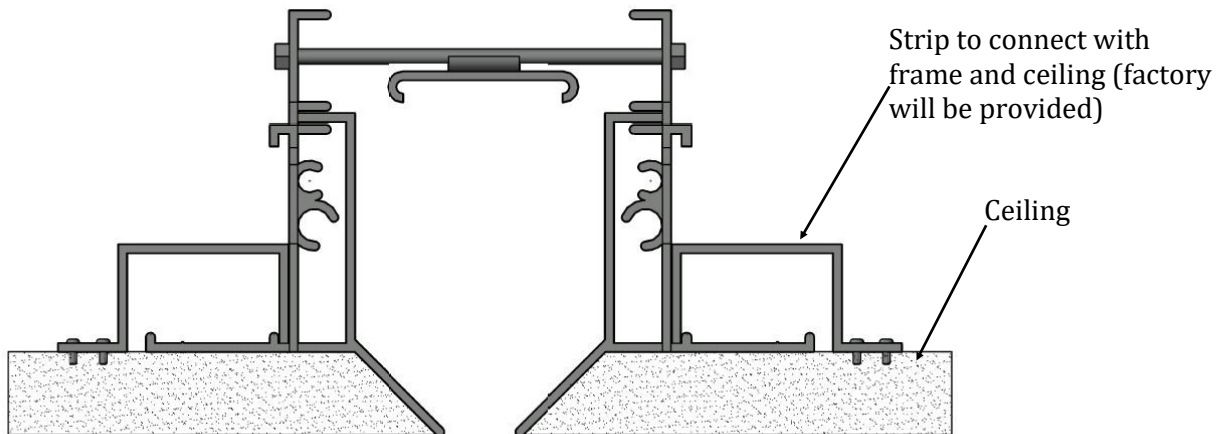
ANA Flow Bar Performance Data

SLOT SIZE	NO. OF SLOTS	AREA FACTOR AK (ft²)	FACE VELOCITY (FPM)	200	350	500	650	800	950	1100	1250	1400	1550
1"	1	0.24	AIR FLOW (CFM/M)	48	84	120	156	192	228	264	300	336	372
			SP (In. Wg)	0.006	0.018	0.036	0.061	0.092	0.13	0.174	0.225	0.282	0.346
			NC	<15	<15	<15	21	27	32	36	40	43	46
			Throw (Ft)	12,2,2	21,4,2	26,12,6	30,17,11	34,21,15	36,25,19	39,28,22	41,30,24	43,32,26	44,34,28
	2	0.37	AIR FLOW (CFM/M)	74	130	185	241	296	352	407	463	518	574
			SP (In. Wg)	0.006	0.018	0.037	0.063	0.095	0.134	0.18	0.232	0.291	0.357
			NC	<15	<15	<15	21	27	31	35	39	42	45
			Throw (Ft)	10,2,2	17,8,5	21,14,10	24,19,13	27,22,15	29,25,18	31,28,19	32,30,21	34,32,23	35,34,24
1.5"	1	0.307	AIR FLOW (CFM/M)	61	107	154	200	246	292	338	384	430	476
			SP (In. Wg)	0.009	0.026	0.054	0.091	0.138	0.195	0.261	0.337	0.423	0.518
			NC	<15	<15	<15	20	26	31	35	40	43	46
			Throw (Ft)	3,2,2	14,4,2	21,11,5	26,16,10	30,20,14	34,23,17	37,26,20	39,29,23	41,31,25	43,33,27
	2	0.617	AIR FLOW (CFM/M)	123	216	309	401	494	586	679	771	864	956
			SP (In. Wg)	0.02	0.039	0.08	0.135	0.204	0.288	0.386	0.498	0.625	0.766
			NC	<15	<15	20	27	33	38	42	46	49	>50
			Throw (Ft)	10,2,2	16,8,5	20,13,9	23,17,11	25,20,13	27,23,15	29,25,17	30,27,18	31,28,19	32,30,20
2"	1	0.344	AIR FLOW (CFM/M)	69	120	172	224	275	327	378	430	482	533
			SP (In. Wg)	0.01	0.029	0.059	0.1	0.151	0.213	0.286	0.369	0.463	0.568
			NC	<15	<15	<15	20	26	31	35	39	43	46
			Throw (Ft)	2,2,2	4,3,2	11,8,3	16,12,7	20,15,10	24,17,12	27,19,14	29,21,16	31,23,18	33,24,19
	2	0.779	AIR FLOW (CFM/M)	156	273	390	506	623	740	857	974	1091	1207
			SP (In. Wg)	0.012	0.037	0.075	0.127	0.192	0.271	0.363	0.469	0.588	0.721
			NC	<15	<15	22	30	35	40	44	47	>50	>50
			Throw (Ft)	10,2,2	14,8,5	17,11,7	19,14,9	21,16,10	22,18,11	23,19,12	25,20,13	25,21,14	26,22,14
2.5"	1	0.674	AIR FLOW (CFM/M)	135	236	337	438	539	640	741	843	944	1045
			SP (In. Wg)	0.026	0.086	0.175	0.295	0.447	0.63	0.845	1.091	1.369	1.678
			NC	<15	16	20	27	35	41	46	>50	>50	>50
			Throw (Ft)	2,2,2	6,5,2	11,8,4	15,10,7	18,12,9	20,14,11	22,26,12	24,16,13	26,17,14	27,18,15
	2	1.237	AIR FLOW (CFM/M)	255	446	637	827	1018	1209	1400	1591	1782	1973
			SP (In. Wg)	0.027	0.087	0.177	0.3	0.454	0.64	0.858	1.108	1.39	1.704
			NC	<15	17	27	33	38	45	50	>50	>50	>50
			Throw (Ft)	8,3,2	14,8,5	18,11,7	21,13,9	23,14,10	25,16,11	27,17,12	28,18,13	30,19,14	31,20,15
3"	1	0.932	AIR FLOW (CFM/M)	186	326	466	606	746	885	1025	1165	1305	1445
			SP (In. Wg)	0.04	0.123	0.252	0.426	0.645	0.91	1.22	1.575	1.976	2.422
			NC	<15	19	26	35	42	47	>50	>50	>50	>50
			Throw (Ft)	4,5,2	8,6,3	10,7,5	12,8,6	13,8,7	14,8,7	15,9,8	16,9,9	17,9,9	17,10,10
	2	1.684	AIR FLOW (CFM/M)	337	589	842	1095	1347	1600	1852	2105	2358	2610
			SP (In. Wg)	0.041	0.126	0.257	0.434	0.657	0.926	1.242	1.604	2.012	2.466
			NC	15	20	31	36	41	50	>50	>50	>50	>50
			Throw (Ft)	6,4,2	13,7,5	18,9,7	22,11,9	25,12,10	27,13,11	29,14,12	31,15,13	32,15,13	33,16,14

ANA Flow Bar Installation :



Standard Flow Bar Diffuser



Flow Bar with Hidden Frame