



WI-Air Terminal Units



WOLF INTERNATIONAL

DESCRIPTION

SD.....	Pg 03
RD.....	Pg 11
JD.....	Pg 18
4WDDCC.....	Pg 21
4WEC.....	Pg 26
BG.....	Pg 31
DD.....	Pg 37
SD.....	Pg 44
L.....	Pg 47
EC.....	Pg 51

Damper



Fire Damper



Silencer



VAV

Diffuser



Coil



Ducting



Fitting



Accessories



Grillie



Insulation



Duct Accessories



DIFFUSER - 4 WAY SUPPLY



Product Code

4W

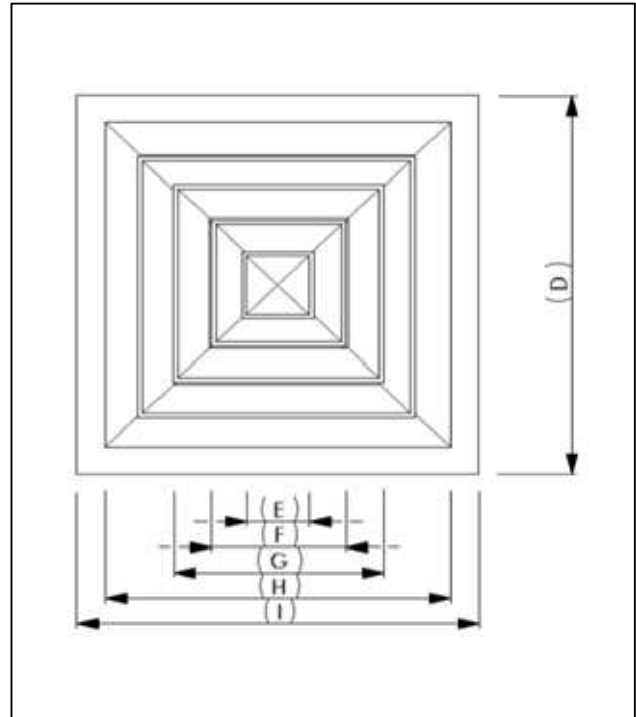
Blade	0.6mm	0.9mm	0.7mm
	0.6mm	1.0mm	0.7mm
Frame Construction			
Spacing			
Degree	52°		
Product Thickness			
Finishing	FF 160 / 23 / CS 3 (Standard)		
	Semi Gloss White Powder Coated Epoxy Polyester		
Accessories	Opposed Blade Damper (Square)		
	Opposed Blade Damper (Square) + Collar		
	Round Damper		
	Insect Screren		
	Filter		
Product Detail	600(W) X 600(H) Base (Standard)		
	24"(W) X 24"(H) Base (Standard)		
Note	Base Deduct 6mm		
	Neck Deduct 12mm		
Type of Product	4 Way Diffuser		
	3 Way Diffuser		
	2 Way Diffuser		



Isometric View

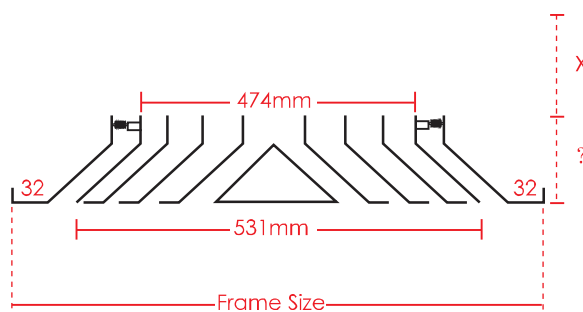


Top View



Side View

4 WAY AIR SUPPLY DIFFUSER



Standard Sizes

Neck Size (mm)	Face Size (mm)	Ceiling Opening (mm)
150 x 150	270 x 270	
200 x 200	320 x 320	
250 x 250	370 x 370	
300 x 300	420 x 420	
350 x 350	470 x 470	
400 x 400	520 x 520	
450 x 450	570 x 570	
480 x 480	600 x 600	

24" (W) x 24" (H) / 600mm(W) x 600mm(H) (ROUND DAMPER)

Neck Size	Neck Velocity(m/s)	2	2.5	3	3.5	4	4.5	5
Ø150mm (0.018)sqm	Airflow (l/s)	36	45	54	63	72	81	90
	Total Pressure (PA)	5	8	11	15	19	24	30
	NC (noise criteria)	-	-	10	11	12	14	16
	1-way-Throw (m)	4.2	4.8	5.2	5.5	5.8	6.4	6.7
	2-way-Throw (m)	3.3	3.6	3.9	4.2	4.5	4.8	5.2
	3-way-Throw (m)	3.3	3.6	3.9	4.2	4.2	4.5	4.8
	4-way-Throw (m)	2.1	2.4	2.7	2.7	3.0	3.0	3.3
Ø200mm (0.032)sqm	Airflow (l/s)	64	80	96	112	128	144	160
	Total Pressure (PA)	10	11	15	21	26	33	41
	NC (noise criteria)	-	-	-	22	25	28	31
	1-way-Throw (m)	5.5	6.1	6.7	7.3	7.9	8.2	8.5
	2-way-Throw (m)	4.2	4.8	5.2	5.5	6.1	6.4	6.7
	3-way-Throw (m)	4.2	4.5	5.2	5.2	5.8	6.1	6.4
	4-way-Throw (m)	2.7	3.0	3.3	3.6	3.9	4.2	4.2
Ø250mm (0.049)sqm	Airflow (l/s)	100	125	150	175	199	224	249
	Total Pressure (PA)	11	16	24	31	40	52	64
	NC (noise criteria)	-	-	22	26	30	32	35
	1-way-Throw (m)	7.0	7.6	8.5	9.1	9.7	10.3	10.6
	2-way-Throw (m)	5.5	6.1	6.4	7.0	7.6	7.9	8.2
	3-way-Throw (m)	5.2	5.8	6.1	6.7	7.0	7.6	7.9
	4-way-Throw (m)	3.6	3.9	4.2	4.5	4.8	5.2	5.5
Ø300mm (0.071)sqm	Airflow (l/s)	144	179	215	251	287	323	359
	Total Pressure (PA)	16	25	33	47	59	75	86
	NC (noise criteria)	-	22	26	30	33	36	40
	1-way-Throw (m)	8.2	9.1	10.0	10.6	11.5	12.1	12.7
	2-way-Throw (m)	6.4	7.0	7.6	8.2	8.8	9.4	10.0
	3-way-Throw (m)	6.1	6.7	7.3	7.9	8.5	9.1	9.4
	4-way-Throw (m)	4.2	4.5	4.8	5.5	5.5	6.1	6.4
Ø350mm (0.097)sqm	Airflow (l/s)	195	244	293	342	391	440	489
	Total Pressure (PA)	13	21	29	40	52	66	78
	NC (noise criteria)	-	22	25	31	34	37	41
	1-way-Throw (m)	9.4	10.6	11.5	12.4	13.3	14.2	14.8
	2-way-Throw (m)	7.3	8.2	9.1	9.7	10.3	10.9	11.5
	3-way-Throw (m)	6.7	7.9	8.5	9.1	9.7	10.3	10.9
	4-way-Throw (m)	4.8	5.2	5.8	6.1	6.7	7.0	7.3
Ø400mm (0.126)sqm	Airflow (l/s)	255	319	383	447	511	574	638
	Total Pressure (PA)	13	21	30	40	52	66	82
	NC (noise criteria)	21	27	31	36	38	41	45
	1-way-Throw (m)	10.9	12.1	13.0	14.2	15.2	16.1	17.0
	2-way-Throw (m)	8.5	9.4	10.3	10.9	11.8	12.4	13.0
	3-way-Throw (m)	7.9	8.8	9.7	10.6	11.2	11.8	12.4
	4-way-Throw (m)	5.5	6.1	6.7	7.0	7.6	7.9	8.5



ROUND VOLUME CONTROL DAMPER

24" (W) x 24" (H) / 600mm(W) x 600mm(H) (ROUND DAMPER)

Neck Size	Neck Velocity(m/s)	2.0	2.5	3.0	3.5	4.0	4.5	5.0
6" X 6" inches (0.25)sqft	Airflow (l/s)	47	59	71	83	94	106	118
	Total Pressure (PA)	5	8	11	15	19	24	30
	NC (noise criteria)	-	-	11	15	19	22	25
	1-way-Throw (m)	4.2	4.8	5.2	5.5	5.8	6.4	6.7
	2-way-Throw (m)	3.3	3.6	3.9	4.2	4.5	4.8	5.2
	3-way-Throw (m)	3.3	3.6	3.9	4.2	4.2	4.5	4.8
	4-way-Throw (m)	2.1	2.4	2.7	2.7	3.0	3.0	3.3
8" X 8" inches (0.444)sqft	Airflow (l/s)	84	105	126	147	168	189	210
	Total Pressure (PA)	6	9	14	18	24	30	37
	NC (noise criteria)	-	12	17	21	24	29	31
	1-way-Throw (m)	5.5	6.1	6.7	7.3	7.9	8.2	8.5
	2-way-Throw (m)	4.2	4.8	5.2	5.5	6.1	6.4	6.7
	3-way-Throw (m)	4.2	4.5	5.2	5.2	5.8	6.1	6.4
	4-way-Throw (m)	2.7	3.0	3.3	3.6	3.9	4.2	4.2
10" X10" inches (0.694)sqft	Airflow (l/s)	131	164	197	229	262	295	328
	Total Pressure (PA)	8	11	16	23	29	37	45
	NC (noise criteria)	-	17	20	26	28	30	34
	1-way-Throw (m)	7.0	7.6	8.5	9.1	9.7	10.3	10.6
	2-way-Throw (m)	5.5	6.1	6.4	7.0	7.6	7.9	8.2
	3-way-Throw (m)	5.2	5.8	6.1	6.7	7.0	7.6	7.9
	4-way-Throw (m)	3.6	3.9	4.2	4.5	4.8	5.2	5.5
12" X12" inches (1.0)sqft	Airflow (l/s)	189	236	283	330	378	425	472
	Total Pressure (PA)	9	14	20	28	36	45	55
	NC (noise criteria)	14	20	24	27	32	35	38
	1-way-Throw (m)	8.2	9.1	10.0	10.6	11.5	12.1	12.7
	2-way-Throw (m)	6.4	7.0	7.6	8.2	8.8	9.4	10.0
	3-way-Throw (m)	6.1	6.7	7.3	7.9	8.5	9.1	9.4
	4-way-Throw (m)	4.2	4.5	4.8	5.5	5.5	6.1	6.4
14" X14" inches (1.361)sqft	Airflow (l/s)	257	321	385	450	514	578	642
	Total Pressure (PA)	11	17	25	30	43	55	67
	NC (noise criteria)	17	23	26	30	35	38	42
	1-way-Throw (m)	9.4	10.6	11.5	12.4	13.3	14.2	14.8
	2-way-Throw (m)	7.3	8.2	9.1	9.7	10.3	10.9	11.5
	3-way-Throw (m)	6.7	7.9	8.5	9.1	9.7	10.3	10.9
	4-way-Throw (m)	4.8	5.2	5.8	6.1	6.7	7.0	7.3

24" (W) x 24" (H) or 600mm(W) x 600mm(H) (OPPOSED BLADE DAMPER [OBD])

Neck Size	Neck Velocity(m/s)	2	2.5	3	3.5	4	4.5	5
16" X 16" inches (1.778)sqft	Airflow (l/s)	336	419	503	587	671	755	839
	Total Pressure (PA)	13	21	30	40	52	66	82
	NC (noise criteria)	21	27	31	36	38	41	45
	1-way-Throw (m)	10.9	12.1	13.0	14.2	15.2	16.1	17.0
	2-way-Throw (m)	8.5	9.4	10.3	10.9	11.8	12.4	13.0
	3-way-Throw (m)	7.9	8.8	9.7	10.6	11.2	11.8	12.4
	4-way-Throw (m)	5.5	6.1	6.7	7.0	7.6	7.9	8.5
18" X 18" inches (2.25)sqft	Airflow (l/s)	425	531	637	743	849	956	1062
	Total Pressure (PA)	16	25	35	48	62	79	98
	NC (noise criteria)	23	28	32	38	42	45	48
	1-way-Throw (m)	12.1	13.6	14.8	16.1	17.0	18.2	19.1
	2-way-Throw (m)	9.4	10.6	11.5	12.7	13.0	13.9	14.5
	3-way-Throw (m)	9.1	10.0	10.9	11.8	12.4	13.3	13.9
	4-way-Throw (m)	6.1	6.7	7.3	7.9	8.5	8.8	9.7
20" X 20" inches (2.778)sqft	Airflow (l/s)	524	655	787	918	1049	1180	1311
	Total Pressure (PA)	19	29	42	56	75	94	114
	NC (noise criteria)	25	29	34	40	43	46	48
	1-way-Throw (m)	13.3	14.8	16.4	17.6	18.8	20.0	21.2
	2-way-Throw (m)	10.3	11.5	12.7	13.6	14.5	15.5	16.4
	3-way-Throw (m)	10.0	10.9	12.1	13.0	13.9	14.8	15.5
	4-way-Throw (m)	6.7	7.3	8.2	8.8	9.4	10.0	10.3
22" X 22" inches (3.361)sqft	Airflow (l/s)	634	793	952	1110	1269	1428	1586
	Total Pressure (PA)	22	35	50	67	88	111	134
	NC (noise criteria)	26	31	36	41	46	48	50
	1-way-Throw (m)	14.8	16.4	17.9	19.4	20.6	22.1	23.0
	2-way-Throw (m)	11.5	13.3	13.9	15.2	16.1	17.0	17.9
	3-way-Throw (m)	10.9	12.4	13.3	14.2	15.2	16.7	17.0
	4-way-Throw (m)	7.3	8.2	8.8	9.7	10.3	10.9	11.5
24" X 24" inches (4.0)sqft	Airflow (l/s)	755	944	1133	1321	1510	1699	1888
	Total Pressure (PA)	25	39	57	77	101	125	156
	NC (noise criteria)	28	33	38	43	48	51	52
	1-way-Throw (m)	16.1	17.9	17.0	21.2	22.7	23.9	25.2
	2-way-Throw (m)	12.7	13.9	15.2	16.4	18.2	18.5	19.4
	3-way-Throw (m)	11.8	13.0	14.5	15.5	16.7	17.6	18.5
	4-way-Throw (m)	7.9	8.8	9.7	10.3	11.2	11.8	12.4



ROUND DIFFUSER

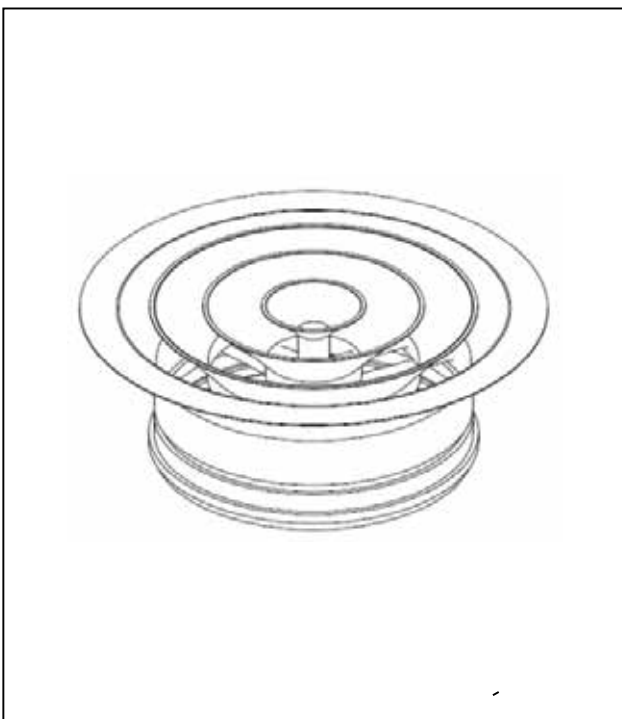


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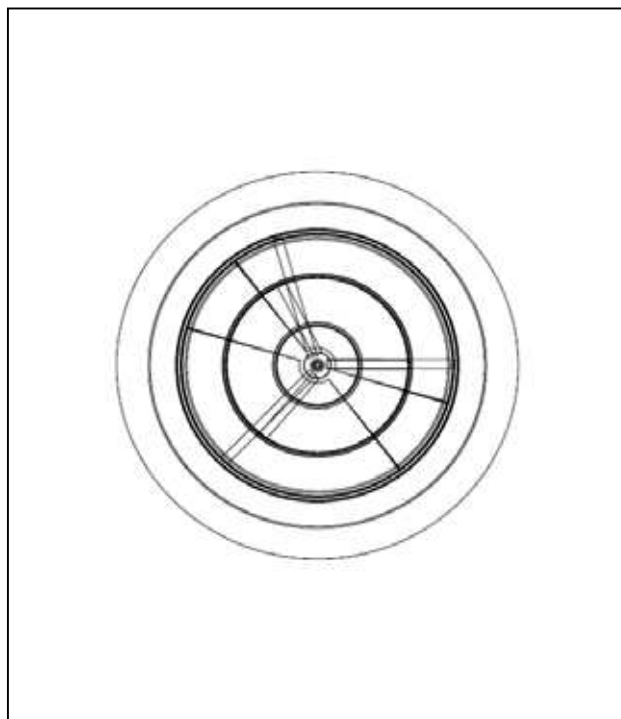
RD

Blade	1.2mm
Frame	1.2mm
Construction	
Finishing	
Accessories	Round Damper (Helicopter Type)
	Round Collar
	Crown Damper
Product Detail	Standard Size
	14"(B) X 8"(N)
	16"(B) X 10"(N)
	18"(B) X 12"(N)
	24"(B) X 10"(N)
	24"(B) X 12"(N)
	24"(B) X 14"(N)
	24"(B) X 16"(N)

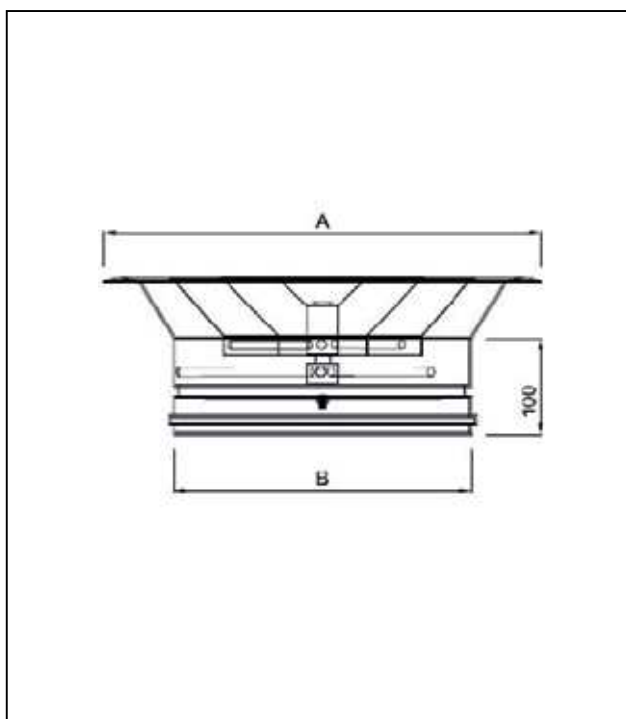
Front View



Side View



Isometric View



Standard Size

Face Size (inch)	Neck Size (inch)
14"Ø	8" Ø
16"Ø	10" Ø
18"Ø	12" Ø
24"Ø	10" Ø
24"Ø	12" Ø
24"Ø	14" Ø
24"Ø	16" Ø



PERFORMANCE DATA

NECK SIZE (mm)	NECK AREA (m²)	TESTED VELOCITY (m/s)	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0	7.0
		Static Pressure (PA)	6.8	11.0	15.9	21.2	26.8	34.6	41.5	62.2	81.5
		Velocity Pressure (PA)	2.4	3.9	5.4	7.3	9.8	12.2	15.4	22.4	30.5
150 ø	0.0177	Airflow (l/s)	35	44	53	62	71	79	88	106	124
		Throw(m)	1.2	1.5	1.5	1.8	2.1	2.1	2.4	2.7	2.7
		NC	-	15	18	24	28	32	34	40	45
200 ø	0.0314	Airflow (l/s)	63	79	94	110	126	141	157	188	220
		Throw(m)	1.5	1.8	1.8	2.1	2.4	2.7	2.7	3.3	3.6
		NC	-	16	20	25	30	32	36	41	45
250 ø	0.0491	Airflow (l/s)	98	123	147	172	196	221	245	294	344
		Throw(m)	1.8	2.1	2.4	2.7	2.7	3.1	3.3	3.6	4.2
		NC	-	16	22	27	30	33	36	42	46
300 ø	0.0707	Airflow (l/s)	141	177	212	247	283	318	353	424	495
		Throw(m)	1.8	2.4	2.7	3.1	3.3	3.6	3.9	4.5	4.8
		NC	11	16	22	26	30	34	38	43	48
350 ø	0.0962	Airflow (l/s)	192	240	289	337	385	433	481	577	673
		Throw(m)	2.1	2.4	3.1	3.4	3.7	4.2	4.5	5.1	5.7
		NC	11	18	24	26	30	34	38	43	47
400 ø	0.1257	Airflow (l/s)	251	314	377	440	503	565	628	754	879
		Throw(m)	2.4	2.7	3.3	3.6	4.2	4.5	5.1	6.1	6.4
		NC	12	18	23	27	31	35	38	44	48

ACCESSORIES



Opposed Blade Damper (Fen)



Opposed Blade Damper (Radia)



Opposed Blade Damper (Butterfly)



Circular Round Diffuser



Product Code

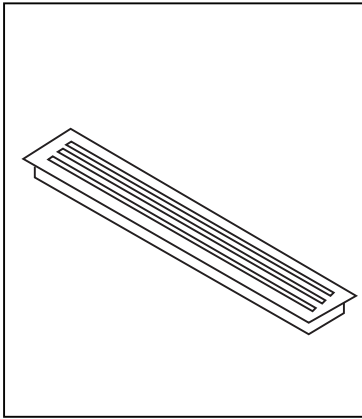
LSD

Blade Frame Construction	1.0mm 1.2mm
Finishing	
Type of Linear	BCurve Shape Straight Round Shape Degree Mitred Corner
Accessories	
Option of Slot Construction	19mm (Width) 25mm (Width)
Product Detail	Mnimum Frame Size 100mm(L) x 100mm(H) (Neck Size) Mnimum Frame Size 2400mm(L) x 1200mm(H) (Neck Size) Mnimum Blade Size 100mm Length Mnimum Blade Size 670mm Length (Blade length above 670mm will have centre bone)

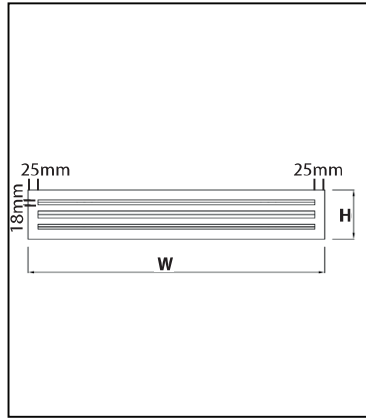


DIMENSIONS

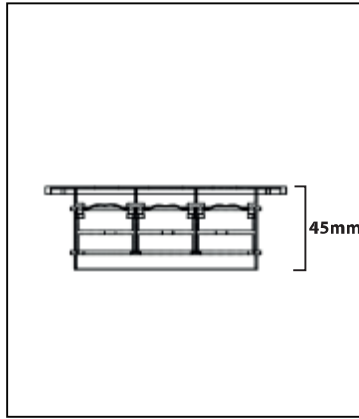
Isometric View



TopView



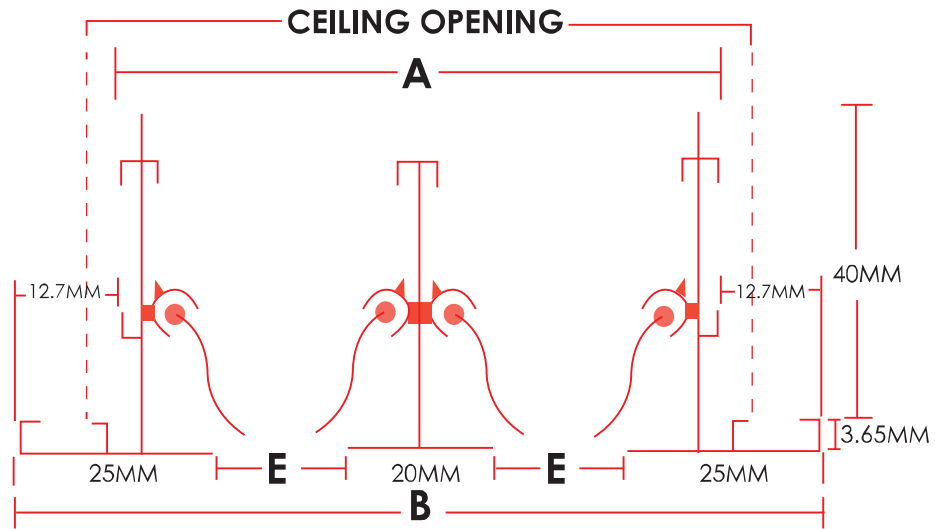
Side View



Standard Sizes

W	H

PERFORMANCE DATA



E 19 MM			
NO. OF SLOT	A	B	CEILING OPENING
1	45	70	52
2	83	108	90
3	121	146	128
4	159	184	166
5	197	222	204
6	235	260	242
7	273	298	280
8	311	336	318
9	349	374	356
10	387	412	394

E 25 MM			
NO. OF SLOT	A	B	CEILING OPENING
1	51	76	58
2	96	121	103
3	141	166	148
4	186	211	193
5	231	256	238
6	276	301	283
7	321	346	328
8	366	391	373
9	411	436	418
10	456	481	463

PERFORMANCE DATA



Linear Slot (Supply)

No. of Slot	Neck Vel (m/s)	0.4	0.8	1.3	1.6	2.1	2.5	2.9	3.3	3.7
	Static Pressure (Pa)	1	4	8	14	23	32	43	57	72
1	L/S	13	24	38	49	62	76	87	100	111
	NC	-	-	13	20	26	30	34	37	40
	Throw (m)	H 1 ~ 2 V 6	2 ~ 5 2	4 ~ 6 4	5 ~ 7 4	6 ~ 8 5	6 ~ 9 5	7 ~ 10 5	7 ~ 10 6	8 ~ 11 6
2	L/S	24	49	76	100	125	149	174	200	225
	NC	-	-	16	23	29	33	37	40	43
	Throw (m)	H 1 ~ 4 V 1	4 ~ 7 3	5 ~ 9 5	7 ~ 13 6	8 ~ 11 7	9 ~ 13 7	10 ~ 14 8	10 ~ 14 8	11 ~ 15 9
3	L/S	38	76	111	149	187	225	262	298	336
	NC	-	-	18	25	30	35	39	42	45
	Throw (m)	H 2 ~ 4 V 2	4 ~ 8 4	6 ~ 11 6	8 ~ 13 7	10 ~ 14 8	11 ~ 15 9	12 ~ 17 10	13 ~ 18 10	13 ~ 19 11
4	L/S	49	100	149	200	249	298	349	399	449
	NC	-	-	19	26	32	36	40	43	46
	Throw (m)	H 2 ~ 5 V 2	7 ~ 10 5	7 ~ 13 7	10 ~ 14 8	11 ~ 16 9	13 ~ 18 10	14 ~ 19 11	14 ~ 20 12	15 ~ 22 13
5	L/S	62	125	187	249	312	374	436	499	561
	NC	-	-	20	27	33	37	41	44	47
	Throw (m)	H 2 ~ 5 V 3	5 ~ 11 5	8 ~ 14 7	11 ~ 16 9	13 ~ 18 10	14 ~ 20 11	15 ~ 21 12	16 ~ 23 13	17 ~ 24 13
6	L/S	76	149	225	298	374	449	523	599	672
	NC	-	12	22	29	34	38	42	45	48
	Throw (m)	H 3 ~ 6 V 3	6 ~ 12 6	9 ~ 15 8	12 ~ 18 10	14 ~ 20 11	15 ~ 22 12	17 ~ 23 13	18 ~ 25 14	19 ~ 26 15

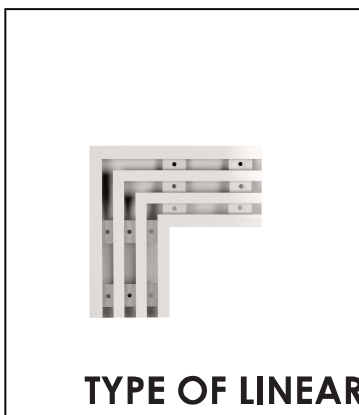
Linear Slot (Return)

No. of Slot	Static Pressure (Pa)	0.02	0.04	0.07	0.11	0.16	0.22	0.28	0.45
1	L/S	37.5	55.6	75.0	94.4	112.5	131.9	151.4	188.9
	NC	-	-	-	24	29	33	37	43
2	L/S	75.0	112.5	151.4	188.9	226.4	263.9	301.4	377.8
	NC	-	-	22	27	31	36	40	46
3	L/S	112.5	169.4	226.4	283.3	340.3	395.8	452.8	566.7
	NC	-	-	24	29	34	38	42	48
4	L/S	151.4	226.4	301.4	377.8	452.8	529.2	604.2	755.5
	NC	-	-	24	30	35	39	43	49
5	L/S	188.9	283.3	377.8	472.2	566.7	661.1	755.5	944.4
	NC	-	-	22	28	33	37	41	47
6	L/S	340.0	340.0	453.3	566.7	680.0	793.3	906.6	1133.3
	NC	-	-	23	29	34	38	42	48

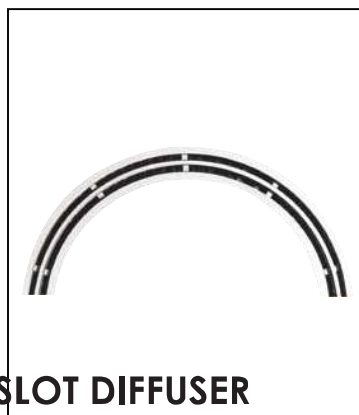
Linear Slot Diffuser



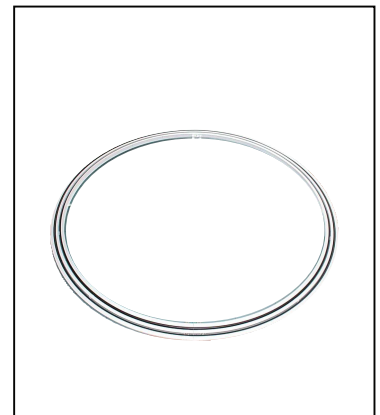
Linear Corner Diffuser



Linear Curve Diffuser



Linear Round Diffuser



TYPE OF LINEAR SLOT DIFFUSER



PERFORMANCE DATA

One Slot

6" INLET

600 mm	Airflow (l/s)	9	17	24	31	38	45	52
	Static press (pa)	2	7	14	24	36	51	68
	NC Level		20	29	35	40	44	47
	Throw (m)	1	2	4	5	6	7	8
1200 mm	Airflow (l/s)	17	26	35	45	54	64	73
	Static press (pa)	3	6	12	19	28	38	50
	NC Level		20	28	33	38	42	45
	Throw (m)	1	2	3	3	4	4	5

8" INLET

600 mm	Airflow (l/s)	14	21	28	35	42	50	57
	Static press (pa)	6	14	24	38	54	73	96
	NC Level		23	30	35	39	43	46
	Throw (m)	2	3	5	5	7	8	8
1200 mm	Airflow (l/s)	19	31	42	54	66	78	90
	Static press (pa)	3	6	12	20	29	41	54
	NC Level		20	28	34	38	42	46
	Throw (m)	1	3	3	4	5	5	5

10" INLET

600 mm	Airflow (l/s)	14	20	26	32	38	44	50
	Static press (pa)	9	19	31	47	66	89	114
	NC Level		18	24	29	33	36	39
	Throw (m)	2	3	4	5	6	7	8
1200 mm	Airflow (l/s)	24	37	50	63	76	89	101
	Static press (pa)	4	9	16	25	36	49	65
	NC Level		22	29	34	39	43	46
	Throw (m)	2	3	4	4	5	5	5

12" INLET

1200 mm	Airflow (l/s)	28	42	57	71	85	99	113
	Static press (pa)	7	15	27	43	62	84	109
	NC Level		21	28	33	37	41	44
	Throw (m)	2	3	4	5	5	5	6

Two Slot

6" INLET

600 mm	Airflow (l/s)	14	25	35	46	57	67	78
	Static press (pa)	2	6	12	20	30	42	57
	NC Level		19	28	34	39	43	46
	Throw (m)	1	2	3	5	6	7	8
1200 mm	Airflow (l/s)	24	39	54	70	85	101	116
	Static press (pa)	3	8	16	26	38	54	71
	NC Level		19	27	33	38	42	45
	Throw (m)	1	2	3	4	5	5	6

8" INLET

600 mm	Airflow (l/s)	19	31	42	54	66	78	90
	Static press (pa)	3	6	12	20	29	41	54
	NC Level		20	28	34	38	42	46
	Throw (m)	1	3	5	6	7	8	10
1200 mm	Airflow (l/s)	28	46	64	82	99	117	134
	Static press (pa)	2	6	12	19	29	40	53
	NC Level		19	27	33	37	41	45
	Throw (m)	1	2	3	4	5	6	6



10" INLET								
600 mm	Airflow (l/s)	19	33	47	61	76	90	104
	Static press (pa)	2	7	14	24	36	51	68
	NC Level		19	28	34	39	43	46
	Throw (m)	1	3	5	7	8	10	11
1200 mm	Airflow (l/s)	28	50	71	92	113	134	156
	Static press (pa)	2	5	11	18	27	39	52
	NC Level		18	27	33	38	42	45
	Throw (m)	1	2	4	5	6	6	7

12" INLET								
1200 mm	Airflow (l/s)	42	66	90	113	137	160	184
	Static press (pa)	3	7	13	21	30	41	55
	NC Level		21	28	34	38	42	45
	Throw (m)	2	4	5	6	6	7	7

** NC - Noise criterion number based upon room absorption of 10dB
Throw - Horizontal throw in meters to a terminal velocity of 0.25 m/s

Three Slot

6" INLET								
600 mm	Airflow (l/s)	19	33	47	61	76	90	104
	Static press (pa)	2	7	15	24	37	52	70
	NC Level		20	28	34	39	43	47
	Throw (m)	1	2	3	5	7	8	9
1200 mm	Airflow (l/s)	33	51	68	86	104	122	139
	Static press (pa)	5	11	20	32	47	64	84
	NC Level		19	26	32	36	40	43
	Throw (m)	1	2	3	4	5	5	6

8" INLET								
600 mm	Airflow (l/s)	24	38	52	66	80	94	109
	Static press (pa)	4	11	21	34	50	69	91
	NC Level		19	26	32	37	41	44
	Throw (m)	1	2	4	6	7	8	9
1200 mm	Airflow (l/s)	38	64	90	116	142	168	193
	Static press (pa)	3	9	17	29	43	60	80
	NC Level		21	29	35	40	44	47
	Throw (m)	1	2	4	5	6	7	7

10" INLET								
600 mm	Airflow (l/s)	28	47	66	85	104	123	142
	Static press (pa)	3	7	14	22	34	47	62
	NC Level		22	29	35	40	44	48
	Throw (m)	2	3	6	8	9	11	12
1200 mm	Airflow (l/s)	42	70	97	124	151	178	205
	Static press (pa)	3	7	13	22	33	45	60
	NC Level		20	28	34	38	42	46
	Throw (m)	2	2	4	5	6	7	8

12" INLET								
1200 mm	Airflow (l/s)	47	78	109	139	170	201	231
	Static press (pa)	2	5	11	17	26	36	47
	NC Level		19	26	32	37	41	44
	Throw (m)	2	3	5	6	7	8	8

** NC - Noise criterion number based upon room absorption of 10dB
Throw - Horizontal throw in meters to a terminal velocity of 0.25 m/s



INSTALLATION GUIDE

Four Slot

6" INLET								
600 mm	Airflow (l/s)	24	40	57	73	90	106	123
	Static press (pa)	3	9	17	29	43	60	80
	NC Level		20	28	34	39	43	46
	Throw (m)	1	2	3	5	7	8	9
1200 mm	Airflow (l/s)	42	61	80	99	118	137	156
	Static press (pa)	7	15	25	38	54	73	94
	NC Level		19	26	31	35	38	41
	Throw (m)	1	2	2	3	4	5	6

8" INLET								
600 mm	Airflow (l/s)	28	45	61	78	94	111	127
	Static press (pa)	5	13	25	40	58	81	106
	NC Level		19	26	32	36	40	43
	Throw (m)	1	2	4	6	7	8	10
1200 mm	Airflow (l/s)	42	71	99	127	156	184	212
	Static press (pa)	3	9	18	30	44	62	82
	NC Level		19	27	33	37	41	45
	Throw (m)	1	2	3	5	6	7	8

10" INLET								
600 mm	Airflow (l/s)	33	54	76	97	118	139	160
	Static press (pa)	2	6	12	21	30	41	55
	NC Level		20	28	34	39	43	46
	Throw (m)	1	3	5	7	9	11	12
1200 mm	Airflow (l/s)	42	73	104	134	165	196	227
	Static press (pa)	2	6	13	21	32	44	59
	NC Level		17	25	31	36	40	44
	Throw (m)	1	2	4	5	6	7	8

12" INLET								
1200 mm	Airflow (l/s)	57	97	137	177	217	257	297
	Static press (pa)	2	6	12	20	30	42	57
	NC Level		19	28	34	39	43	46
	Throw (m)	1	3	5	6	8	8	9

5 Slots and Above

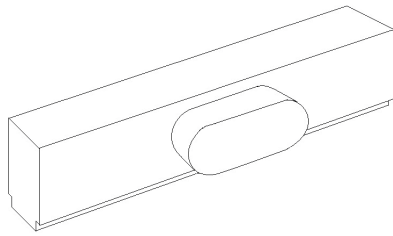
5 slots	Airflow (l/s)	32	47	61	78	94	111	125	142
	Static press (pa)	3	8	14	22	31	43	57	71
	NC Level		18	26	32	35	40	43	46
	Throw (m)	5	8	9	10	11	11	12	13

6 slots	Airflow (l/s)	38	57	76	94	113	132	151	170
	Static press (pa)	3	8	14	22	32	43	56	73
	NC Level	11	20	28	33	36	40	45	47
	Throw (m)	5	8	10	11	12	12	13	13

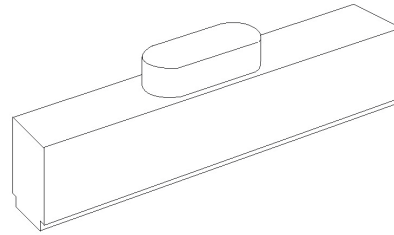
7 slots	Airflow (l/s)	42	66	85	111	132	151	175	198
	Static press (pa)	4	8	15	22	31	43	56	70
	NC Level	12	20	28	33	34	40	44	46
	Throw (m)	6	8	10	11	12	13	14	14

8 slots	Airflow (l/s)	52	76	104	127	151	175	198	224
	Static press (pa)	4	8	13	21	33	45	57	74
	NC Level	12	22	28	34	37	42	45	48
	Throw (m)	6	9	10	11	13	14	14	15

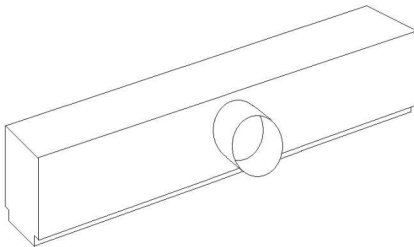
Side Inlet (Oval Damper)



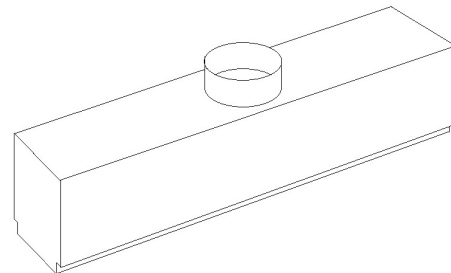
Top Inlet (Oval Damper)



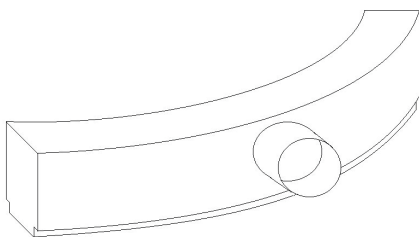
Side Inlet (Round Damper)



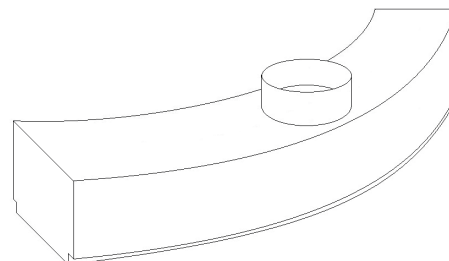
Top Inlet (Round Damper)

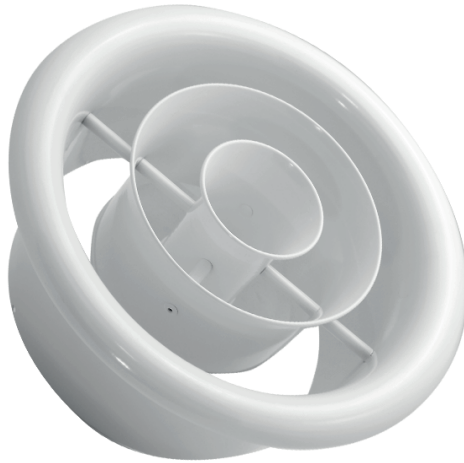


Side Inlet Round Type Plenum Box (Round Damper)



Top Inlet Round Type Plenum Box (Round Damper)





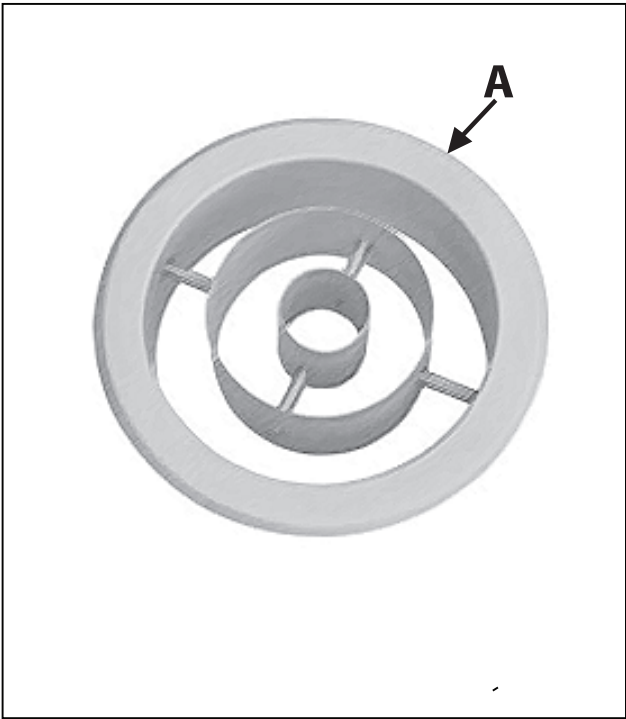
Product Code

JD

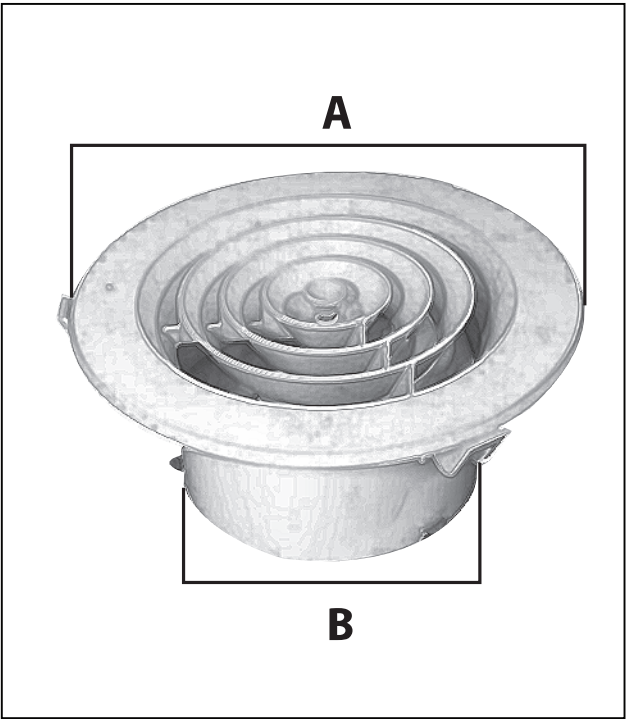
Blade	1.2mm
Frame	1.2mm
Construction	
Finishing	
Accessories	Round Damper (Helicopter Type) Round Collar
Product Detail	Standard Size Ø 200mm, Ø 250mm Ø 300mm, Ø 350mm Ø 400mm



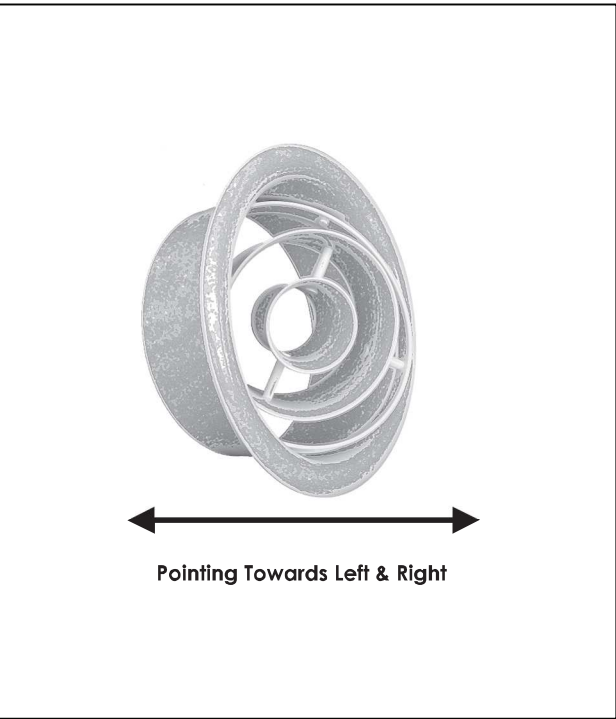
Front View



Side View



Isometric View



Standard Sizes

Base Size (mm)	Neck Size (inch)	Height	
		c/w Damper	c/o Damper
265mm	8"Ø	200mm	140mm
325mm	10"Ø	200mm	140mm
388mm	12"Ø	200mm	140mm
455mm	14"Ø	200mm	140mm
515mm	16"Ø	260mm	140mm



PERFORMANCE DATA

NECK SIZE (MM)	NECK AREA (M ²)	TESTED VELOCITY (M/S)	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
150Ø	0.0177	Airflow (l/s)	35	53	71	88	106	124	141	159	177
		Throw(m)	2.0	3.0	3.8	4.0	4.8	5.5	9.2	11.0	13.2
		NC	-	-	-	25	28	34	38	40	41
200Ø	0.0314	Airflow (l/s)	63	94	126	157	188	220	251	283	314
		Throw(m)	4.0	6.0	8.0	8.9	11.0	13.0	15.0	18.0	20.0
		NC	-	-	-	25	28	34	38	40	41
250Ø	0.0491	Airflow (l/s)	98	147	196	245	294	344	393	442	491
		Throw(m)	5.2	8.0	10.8	12.6	14.0	18.0	19.0	21.0	26.0
		NC	-	-	-	22	24	32	37	41	44
300Ø	0.0707	Airflow (l/s)	141	212	283	353	424	495	565	636	707
		Throw(m)	6.9	9.0	12.2	15.0	18.9	21.0	23.3	27.7	29.3
		NC	-	-	-	22	24	32	37	41	44
350Ø	0.0962	Airflow (l/s)	192	289	385	481	577	673	769	866	962
		Throw(m)	8.2	11.9	14.6	17.3	21.0	24.8	27.2	30.1	33.3
		NC	-	-	25	28	30	32	37	41	45
400Ø	0.1257	Airflow (l/s)	251	377	503	628	754	879	1005	1131	1256
		Throw(m)	8.0	12.3	15.6	18.3	23.1	26.5	29.2	31.4	34.6
		NC	-	-	25	28	30	32	37	41	45

ACCESSORIES



Opposed Blade Damper (Fen)

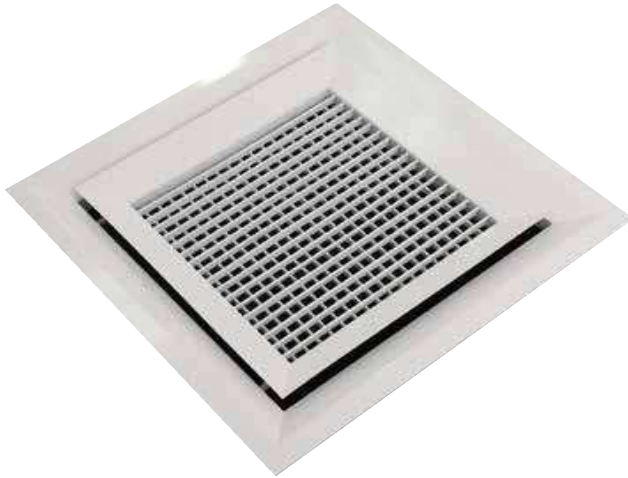


Opposed Blade Damper (Radia)



Opposed Blade Damper (Butterfly)

4 WAY DOUBLE DEFLECTION CENTER CORE



Product Code

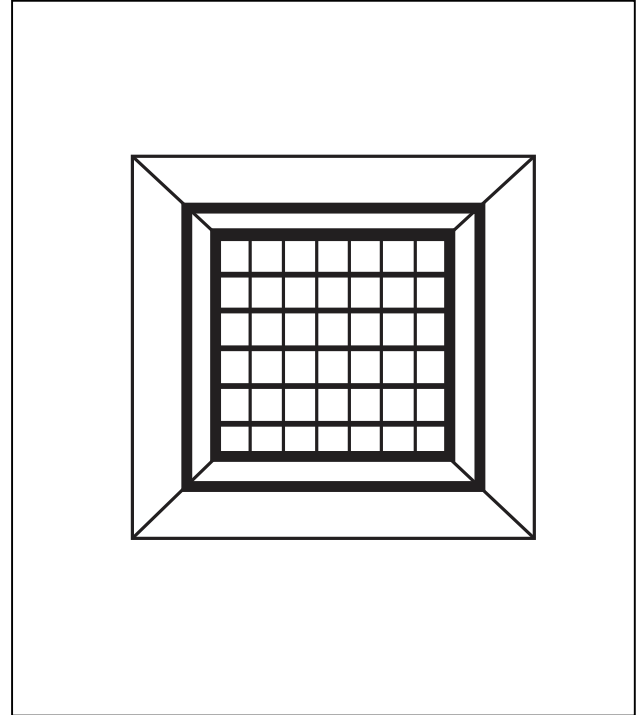
4WDDCC

	Galvanized Steel (Standard Type)	Aluminium (Standard Type)	Stainless Steel 304/316 (Standard Type)
Blade	0.8mm	0.8mm	0.8mm
Frame	0.6mm	0.8mm	0.7mm
Construction			
Spacing			
Width	32mm		20mm
Product Thickness			
Finishing	FF 160 / 23 / CS 3 (Standard) Semi Gloss White Powder Coated Epoxy Polyester		
Accessories	Opposed Blade Damper (Square) Opposed Blade Damper (Square) + Collar Round Damper Insect Screren Filter		
Product Detail	600(W) X 600(H) Base (Standard) 24" (W) X 24" (H) Base (Standard)		
Note	Base Deduct 6mm Neck Deduct 12mm		
Type of Product	4 Way Diffuser		

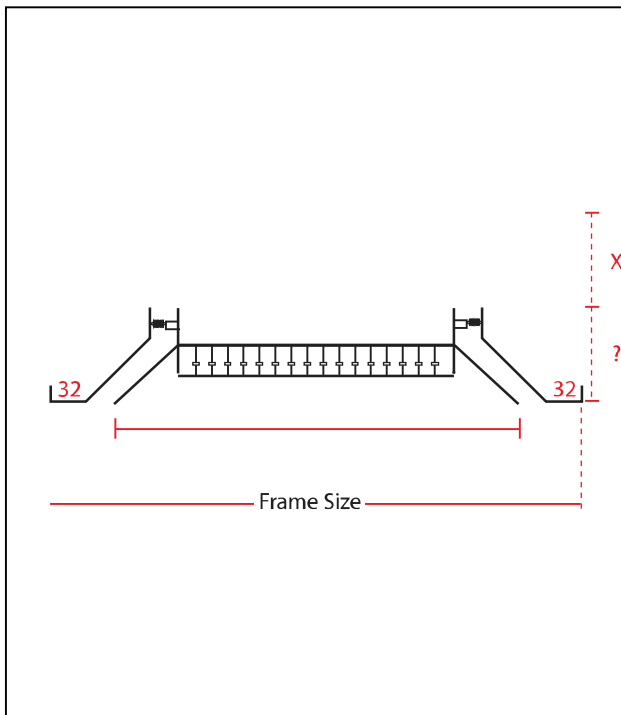
Isometric View



Top View



Side View



Standard Sizes

Neck Size (mm)	Face Size (mm)	Ceiling Opening (mm)
150 x 150	270 x 270	
200 x 200	320 x 320	
250 x 250	370 x 370	
300 x 300	420 x 420	
350 x 350	470 x 470	
400 x 400	520 x 520	
450 x 450	570 x 570	
480 x 480	600 x 600	

24"(W) x 24"(H) / 600mm(W) x 600mm(H) (ROUND DAMPER)

Neck Size	Neck Velocity(m/s)	2	2.5	3	3.5	4	4.5	5
Ø150mm (0.018)sqm	Airflow (l/s)	36	45	54	63	72	81	90
	Total Pressure (PA)	5	8	11	15	19	24	30
	NC (noise criteria)	-	-	10	11	12	14	16
	1-way-Throw (m)	4.2	4.8	5.2	5.5	5.8	6.4	6.7
	2-way-Throw (m)	3.3	3.6	3.9	4.2	4.5	4.8	5.2
	3-way-Throw (m)	3.3	3.6	3.9	4.2	4.2	4.5	4.8
	4-way-Throw (m)	2.1	2.4	2.7	2.7	3.0	3.0	3.3
Ø200mm (0.032)sqm	Airflow (l/s)	64	80	96	112	128	144	160
	Total Pressure (PA)	10	11	15	21	26	33	41
	NC (noise criteria)	-	-	-	22	25	28	31
	1-way-Throw (m)	5.5	6.1	6.7	7.3	7.9	8.2	8.5
	2-way-Throw (m)	4.2	4.8	5.2	5.5	6.1	6.4	6.7
	3-way-Throw (m)	4.2	4.5	5.2	5.2	5.8	6.1	6.4
	4-way-Throw (m)	2.7	3.0	3.3	3.6	3.9	4.2	4.2
Ø250mm (0.049)sqm	Airflow (l/s)	100	125	150	175	199	224	249
	Total Pressure (PA)	11	16	24	31	40	52	64
	NC (noise criteria)	-	-	22	26	30	32	35
	1-way-Throw (m)	7.0	7.6	8.5	9.1	9.7	10.3	10.6
	2-way-Throw (m)	5.5	6.1	6.4	7.0	7.6	7.9	8.2
	3-way-Throw (m)	5.2	5.8	6.1	6.7	7.0	7.6	7.9
	4-way-Throw (m)	3.6	3.9	4.2	4.5	4.8	5.2	5.5
Ø300mm (0.071)sqm	Airflow (l/s)	144	179	215	251	287	323	359
	Total Pressure (PA)	16	25	33	47	59	75	86
	NC (noise criteria)	-	22	26	30	33	36	40
	1-way-Throw (m)	8.2	9.1	10.0	10.6	11.5	12.1	12.7
	2-way-Throw (m)	6.4	7.0	7.6	8.2	8.8	9.4	10.0
	3-way-Throw (m)	6.1	6.7	7.3	7.9	8.5	9.1	9.4
	4-way-Throw (m)	4.2	4.5	4.8	5.5	5.5	6.1	6.4
Ø350mm (0.097)sqm	Airflow (l/s)	195	244	293	342	391	440	489
	Total Pressure (PA)	13	21	29	40	52	66	78
	NC (noise criteria)	-	22	25	31	34	37	41
	1-way-Throw (m)	9.4	10.6	11.5	12.4	13.3	14.2	14.8
	2-way-Throw (m)	7.3	8.2	9.1	9.7	10.3	10.9	11.5
	3-way-Throw (m)	6.7	7.9	8.5	9.1	9.7	10.3	10.9
	4-way-Throw (m)	4.8	5.2	5.8	6.1	6.7	7.0	7.3
Ø400mm (0.126)sqm	Airflow (l/s)	255	319	383	447	511	574	638
	Total Pressure (PA)	13	21	30	40	52	66	82
	NC (noise criteria)	21	27	31	36	38	41	45
	1-way-Throw (m)	10.9	12.1	13.0	14.2	15.2	16.1	17.0
	2-way-Throw (m)	8.5	9.4	10.3	10.9	11.8	12.4	13.0
	3-way-Throw (m)	7.9	8.8	9.7	10.6	11.2	11.8	12.4
	4-way-Throw (m)	5.5	6.1	6.7	7.0	7.6	7.9	8.5



PERFORMANCE DATA

24" (W) x 24" (H) / 600mm(W) x 600mm(H) (ROUND DAMPER)

Neck Size	Neck Velocity(m/s)	2.0	2.5	3.0	3.5	4.0	4.5	5.0
6" X 6" inches (0.25)sqft	Airflow (l/s)	47	59	71	83	94	106	118
	Total Pressure (PA)	5	8	11	15	19	24	30
	NC (noise criteria)	-	-	11	15	19	22	25
	1-way-Throw (m)	4.2	4.8	5.2	5.5	5.8	6.4	6.7
	2-way-Throw (m)	3.3	3.6	3.9	4.2	4.5	4.8	5.2
	3-way-Throw (m)	3.3	3.6	3.9	4.2	4.2	4.5	4.8
	4-way-Throw (m)	2.1	2.4	2.7	2.7	3.0	3.0	3.3
8" X 8" inches (0.444)sqft	Airflow (l/s)	84	105	126	147	168	189	210
	Total Pressure (PA)	6	9	14	18	24	30	37
	NC (noise criteria)	-	12	17	21	24	29	31
	1-way-Throw (m)	5.5	6.1	6.7	7.3	7.9	8.2	8.5
	2-way-Throw (m)	4.2	4.8	5.2	5.5	6.1	6.4	6.7
	3-way-Throw (m)	4.2	4.5	5.2	5.2	5.8	6.1	6.4
	4-way-Throw (m)	2.7	3.0	3.3	3.6	3.9	4.2	4.2
10" X10" inches (0.694)sqft	Airflow (l/s)	131	164	197	229	262	295	328
	Total Pressure (PA)	8	11	16	23	29	37	45
	NC (noise criteria)	-	17	20	26	28	30	34
	1-way-Throw (m)	7.0	7.6	8.5	9.1	9.7	10.3	10.6
	2-way-Throw (m)	5.5	6.1	6.4	7.0	7.6	7.9	8.2
	3-way-Throw (m)	5.2	5.8	6.1	6.7	7.0	7.6	7.9
	4-way-Throw (m)	3.6	3.9	4.2	4.5	4.8	5.2	5.5
12" X12" inches (1.0)sqft	Airflow (l/s)	189	236	283	330	378	425	472
	Total Pressure (PA)	9	14	20	28	36	45	55
	NC (noise criteria)	14	20	24	27	32	35	38
	1-way-Throw (m)	8.2	9.1	10.0	10.6	11.5	12.1	12.7
	2-way-Throw (m)	6.4	7.0	7.6	8.2	8.8	9.4	10.0
	3-way-Throw (m)	6.1	6.7	7.3	7.9	8.5	9.1	9.4
	4-way-Throw (m)	4.2	4.5	4.8	5.5	5.5	6.1	6.4
14" X14" inches (1.361)sqft	Airflow (l/s)	257	321	385	450	514	578	642
	Total Pressure (PA)	11	17	25	9	43	55	67
	NC (noise criteria)	17	23	26	30	35	38	42
	1-way-Throw (m)	9.4	10.6	11.5	12.4	13.3	14.2	14.8
	2-way-Throw (m)	7.3	8.2	9.1	9.7	10.3	10.9	11.5
	3-way-Throw (m)	6.7	7.9	8.5	9.1	9.7	10.3	10.9
	4-way-Throw (m)	4.8	5.2	5.8	6.1	6.7	7.0	7.3

24"(W) x 24"(H) or 600mm(W) x 600mm(H) (OPPOSED BLADE DAMPER [OBD])

Neck Size	Neck Velocity(m/s)	2	2.5	3	3.5	4	4.5	5
16" X 16" inches (1.778)sqft	Airflow (l/s)	336	419	503	587	671	755	839
	Total Pressure (PA)	13	21	30	40	52	66	82
	NC (noise criteria)	21	27	31	36	38	41	45
	1-way-Throw (m)	10.9	12.1	13.0	14.2	15.2	16.1	17.0
	2-way-Throw (m)	8.5	9.4	10.3	10.9	11.8	12.4	13.0
	3-way-Throw (m)	7.9	8.8	9.7	10.6	11.2	11.8	12.4
	4-way-Throw (m)	5.5	6.1	6.7	7.0	7.6	7.9	8.5
18" X 18" inches (2.25)sqft	Airflow (l/s)	425	531	637	743	849	956	1062
	Total Pressure (PA)	16	25	35	48	62	79	98
	NC (noise criteria)	23	28	32	38	42	45	48
	1-way-Throw (m)	12.1	13.6	14.8	16.1	17.0	18.2	19.1
	2-way-Throw (m)	9.4	10.6	11.5	12.7	13.0	13.9	14.5
	3-way-Throw (m)	9.1	10.0	10.9	11.8	12.4	13.3	13.9
	4-way-Throw (m)	6.1	6.7	7.3	7.9	8.5	8.8	9.7
20" X 20" inches (2.778)sqft	Airflow (l/s)	524	655	787	918	1049	1180	1311
	Total Pressure (PA)	19	29	42	56	75	94	114
	NC (noise criteria)	25	29	34	40	43	46	48
	1-way-Throw (m)	13.3	14.8	16.4	17.6	18.8	20.0	21.2
	2-way-Throw (m)	10.3	11.5	12.7	13.6	14.5	15.5	16.4
	3-way-Throw (m)	10.0	10.9	12.1	13.0	13.9	14.8	15.5
	4-way-Throw (m)	6.7	7.3	8.2	8.8	9.4	10.0	10.3
22" X 22" inches (3.361)sqft	Airflow (l/s)	634	793	952	1110	1269	1428	1586
	Total Pressure (PA)	22	35	50	67	88	111	134
	NC (noise criteria)	26	31	36	41	46	48	50
	1-way-Throw (m)	14.8	16.4	17.9	19.4	20.6	22.1	23.0
	2-way-Throw (m)	11.5	13.3	13.9	15.2	16.1	17.0	17.9
	3-way-Throw (m)	10.9	12.4	13.3	14.2	15.2	16.7	17.0
	4-way-Throw (m)	7.3	8.2	8.8	9.7	10.3	10.9	11.5
24" X 24" inches (4.0)sqft	Airflow (l/s)	755	944	1133	1321	1510	1699	1888
	Total Pressure (PA)	25	39	57	77	101	125	156
	NC (noise criteria)	28	33	38	43	48	51	52
	1-way-Throw (m)	16.1	17.9	17.0	21.2	22.7	23.9	25.2
	2-way-Throw (m)	12.7	13.9	15.2	16.4	18.2	18.5	19.4
	3-way-Throw (m)	11.8	13.0	14.5	15.5	16.7	17.6	18.5
	4-way-Throw (m)	7.9	8.8	9.7	10.3	11.2	11.8	12.4



4 WAY EGG CRATE DIFFUSER



Product Code

4WEC

Material	Galvanized Steel (Standard Type)	Aluminium (Standard Type)	Stainless Steel 304/316 (Standard Type)
Blade	0.4mm	0.4mm	0.6mm
Frame	0.6mm	1.0mm	0.7mm
Construction			
Square Hole			
Width	32mm (Standard)		
Product Thickness			
Finishing	FF 160 / 23 / CS 3 (Standard) Semi Gloss White Powder Coated Epoxy Polyester		
Accessories	Opposed Blade Damper (Square) Opposed Blade Damper (Square) + Collar Round Damper Insect Screen Filter		
Product of Product	Fixed Type Swing Type Removable Type		
Product Detail	600(W) X 600(H) Base (Standard) 24" (W) X 24" (H) Base (Standard)		
Note	Base Deduct 6mm Neck Deduct 12mm		

PERFORMANCE DATA



24"(W) x 24"(H) / 600mm(W) x 600mm(H) (ROUND DAMPER)

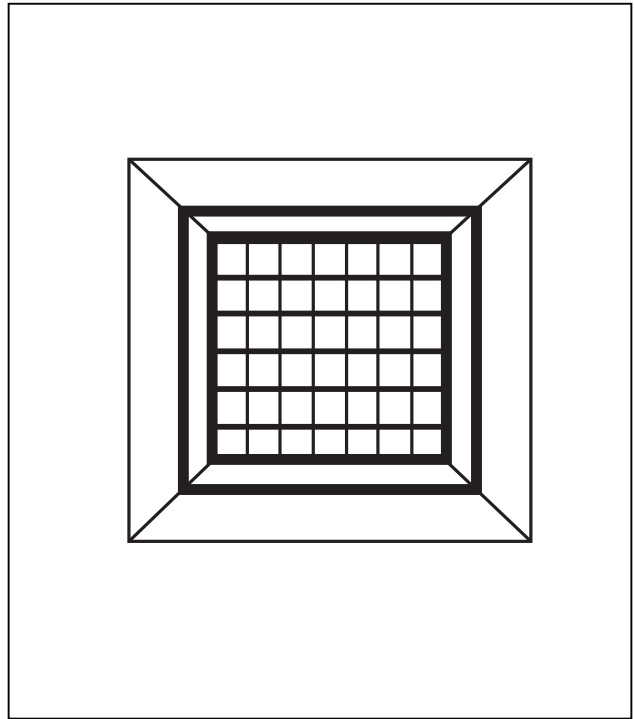
Neck Size	Neck Velocity(m/s)	2	2.5	3	3.5	4	4.5	5
Ø150mm (0.018)sqm	Airflow (l/s)	36	45	54	63	72	81	90
	Total Pressure (PA)	5	8	11	15	19	24	30
	NC (noise criteria)	-	-	10	11	12	14	16
	1-way-Throw (m)	4.2	4.8	5.2	5.5	5.8	6.4	6.7
	2-way-Throw (m)	3.3	3.6	3.9	4.2	4.5	4.8	5.2
	3-way-Throw (m)	3.3	3.6	3.9	4.2	4.2	4.5	4.8
	4-way-Throw (m)	2.1	2.4	2.7	2.7	3.0	3.0	3.3
Ø200mm (0.032)sqm	Airflow (l/s)	64	80	96	112	128	144	160
	Total Pressure (PA)	10	11	15	21	26	33	41
	NC (noise criteria)	-	-	-	22	25	28	31
	1-way-Throw (m)	5.5	6.1	6.7	7.3	7.9	8.2	8.5
	2-way-Throw (m)	4.2	4.8	5.2	5.5	6.1	6.4	6.7
	3-way-Throw (m)	4.2	4.5	5.2	5.2	5.8	6.1	6.4
	4-way-Throw (m)	2.7	3.0	3.3	3.6	3.9	4.2	4.2
Ø250mm (0.049)sqm	Airflow (l/s)	100	125	150	175	199	224	249
	Total Pressure (PA)	11	16	24	31	40	52	64
	NC (noise criteria)	-	-	22	26	30	32	35
	1-way-Throw (m)	7.0	7.6	8.5	9.1	9.7	10.3	10.6
	2-way-Throw (m)	5.5	6.1	6.4	7.0	7.6	7.9	8.2
	3-way-Throw (m)	5.2	5.8	6.1	6.7	7.0	7.6	7.9
	4-way-Throw (m)	3.6	3.9	4.2	4.5	4.8	5.2	5.5
Ø300mm (0.071)sqm	Airflow (l/s)	144	179	215	251	287	323	359
	Total Pressure (PA)	16	25	33	47	59	75	86
	NC (noise criteria)	-	22	26	30	33	36	40
	1-way-Throw (m)	8.2	9.1	10.0	10.6	11.5	12.1	12.7
	2-way-Throw (m)	6.4	7.0	7.6	8.2	8.8	9.4	10.0
	3-way-Throw (m)	6.1	6.7	7.3	7.9	8.5	9.1	9.4
	4-way-Throw (m)	4.2	4.5	4.8	5.5	5.5	6.1	6.4
Ø350mm (0.097)sqm	Airflow (l/s)	195	244	293	342	391	440	489
	Total Pressure (PA)	13	21	29	40	52	66	78
	NC (noise criteria)	-	22	25	31	34	37	41
	1-way-Throw (m)	9.4	10.6	11.5	12.4	13.3	14.2	14.8
	2-way-Throw (m)	7.3	8.2	9.1	9.7	10.3	10.9	11.5
	3-way-Throw (m)	6.7	7.9	8.5	9.1	9.7	10.3	10.9
	4-way-Throw (m)	4.8	5.2	5.8	6.1	6.7	7.0	7.3
Ø400mm (0.126)sqm	Airflow (l/s)	255	319	383	447	511	574	638
	Total Pressure (PA)	13	21	30	40	52	66	82
	NC (noise criteria)	21	27	31	36	38	41	45
	1-way-Throw (m)	10.9	12.1	13.0	14.2	15.2	16.1	17.0
	2-way-Throw (m)	8.5	9.4	10.3	10.9	11.8	12.4	13.0
	3-way-Throw (m)	7.9	8.8	9.7	10.6	11.2	11.8	12.4
	4-way-Throw (m)	5.5	6.1	6.7	7.0	7.6	7.9	8.5



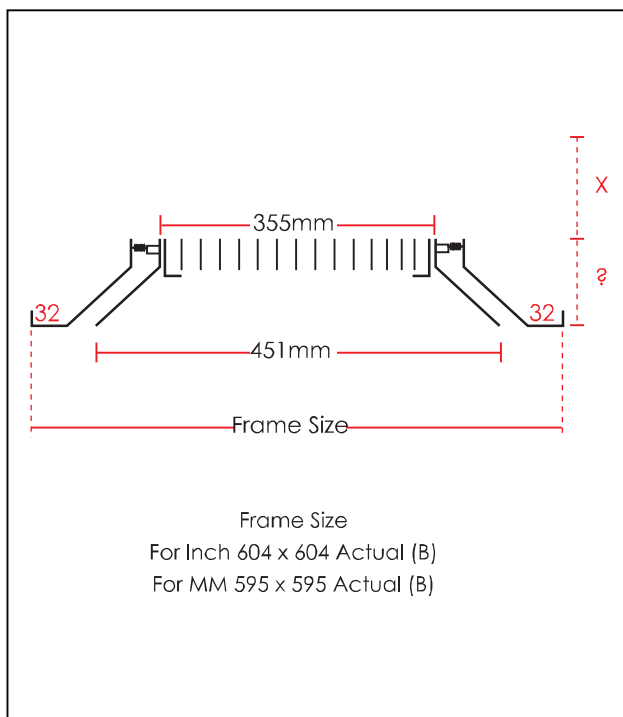
Isometric View



Top View



Side View



Standard Sizes

Neck Size mm	Base Size mm	Ceiling Opening mm

PERFORMANCE DATA



24"(W) x 24"(H) / 600mm(W) x 600mm(H) (ROUND DAMPER)

Neck Size	Neck Velocity(m/s)	2.0	2.5	3.0	3.5	4.0	4.5	5.0
6" X 6" inches (0.25)sqft	Airflow (l/s)	47	59	71	83	94	106	118
	Total Pressure (PA)	5	8	11	15	19	24	30
	NC (noise criteria)	-	-	11	15	19	22	25
	1-way-Throw (m)	4.2	4.8	5.2	5.5	5.8	6.4	6.7
	2-way-Throw (m)	3.3	3.6	3.9	4.2	4.5	4.8	5.2
	3-way-Throw (m)	3.3	3.6	3.9	4.2	4.2	4.5	4.8
	4-way-Throw (m)	2.1	2.4	2.7	2.7	3.0	3.0	3.3
8" X 8" inches (0.444)sqft	Airflow (l/s)	84	105	126	147	168	189	210
	Total Pressure (PA)	6	9	14	18	24	30	37
	NC (noise criteria)	-	12	17	21	24	29	31
	1-way-Throw (m)	5.5	6.1	6.7	7.3	7.9	8.2	8.5
	2-way-Throw (m)	4.2	4.8	5.2	5.5	6.1	6.4	6.7
	3-way-Throw (m)	4.2	4.5	5.2	5.2	5.8	6.1	6.4
	4-way-Throw (m)	2.7	3.0	3.3	3.6	3.9	4.2	4.2
10" X10" inches (0.694)sqft	Airflow (l/s)	131	164	197	229	262	295	328
	Total Pressure (PA)	8	11	16	23	29	37	45
	NC (noise criteria)	-	17	20	26	28	30	34
	1-way-Throw (m)	7.0	7.6	8.5	9.1	9.7	10.3	10.6
	2-way-Throw (m)	5.5	6.1	6.4	7.0	7.6	7.9	8.2
	3-way-Throw (m)	5.2	5.8	6.1	6.7	7.0	7.6	7.9
	4-way-Throw (m)	3.6	3.9	4.2	4.5	4.8	5.2	5.5
12" X12" inches (1.0)sqft	Airflow (l/s)	189	236	283	330	378	425	472
	Total Pressure (PA)	9	14	20	28	36	45	55
	NC (noise criteria)	14	20	24	27	32	35	38
	1-way-Throw (m)	8.2	9.1	10.0	10.6	11.5	12.1	12.7
	2-way-Throw (m)	6.4	7.0	7.6	8.2	8.8	9.4	10.0
	3-way-Throw (m)	6.1	6.7	7.3	7.9	8.5	9.1	9.4
	4-way-Throw (m)	4.2	4.5	4.8	5.5	5.5	6.1	6.4
14" X14" inches (1.361)sqft	Airflow (l/s)	257	321	385	450	514	578	642
	Total Pressure (PA)	11	17	25	9	43	55	67
	NC (noise criteria)	17	23	26	30	35	38	42
	1-way-Throw (m)	9.4	10.6	11.5	12.4	13.3	14.2	14.8
	2-way-Throw (m)	7.3	8.2	9.1	9.7	10.3	10.9	11.5
	3-way-Throw (m)	6.7	7.9	8.5	9.1	9.7	10.3	10.9
	4-way-Throw (m)	4.8	5.2	5.8	6.1	6.7	7.0	7.3



PERFORMANCE DATA

24"(W) x 24"(H) or 600mm(W) x 600mm(H) (OPPOSED BLADE DAMPER [OBD])

Neck Size	Neck Velocity(m/s)	2	2.5	3	3.5	4	4.5	5
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16" X 16" inches (1.778)sqft	Airflow (l/s)	336	419	503	587	671	755	839
	Total Pressure (PA)	13	21	30	40	52	66	82
	NC (noise criteria)	21	27	31	36	38	41	45
	1-way-Throw (m)	10.9	12.1	13.0	14.2	15.2	16.1	17.0
	2-way-Throw (m)	8.5	9.4	10.3	10.9	11.8	12.4	13.0
	3-way-Throw (m)	7.9	8.8	9.7	10.6	11.2	11.8	12.4
	4-way-Throw (m)	5.5	6.1	6.7	7.0	7.6	7.9	8.5

18" X 18" inches (2.25)sqft	Airflow (l/s)	425	531	637	743	849	956	1062
	Total Pressure (PA)	16	25	35	48	62	79	98
	NC (noise criteria)	23	28	32	38	42	45	48
	1-way-Throw (m)	12.1	13.6	14.8	16.1	17.0	18.2	19.1
	2-way-Throw (m)	9.4	10.6	11.5	12.7	13.0	13.9	14.5
	3-way-Throw (m)	9.1	10.0	10.9	11.8	12.4	13.3	13.9
	4-way-Throw (m)	6.1	6.7	7.3	7.9	8.5	8.8	9.7

20" X 20" inches (2.778)sqft	Airflow (l/s)	524	655	787	918	1049	1180	1311
	Total Pressure (PA)	19	29	42	56	75	94	114
	NC (noise criteria)	25	29	34	40	43	46	48
	1-way-Throw (m)	13.3	14.8	16.4	17.6	18.8	20.0	21.2
	2-way-Throw (m)	10.3	11.5	12.7	13.6	14.5	15.5	16.4
	3-way-Throw (m)	10.0	10.9	12.1	13.0	13.9	14.8	15.5
	4-way-Throw (m)	6.7	7.3	8.2	8.8	9.4	10.0	10.3

22" X 22" inches (3.361)sqft	Airflow (l/s)	634	793	952	1110	1269	1428	1586
	Total Pressure (PA)	22	35	50	67	88	111	134
	NC (noise criteria)	26	31	36	41	46	48	50
	1-way-Throw (m)	14.8	16.4	17.9	19.4	20.6	22.1	23.0
	2-way-Throw (m)	11.5	13.3	13.9	15.2	16.1	17.0	17.9
	3-way-Throw (m)	10.9	12.4	13.3	14.2	15.2	16.7	17.0
	4-way-Throw (m)	7.3	8.2	8.8	9.7	10.3	10.9	11.5

24" X 24" inches (4.0)sqft	Airflow (l/s)	755	944	1133	1321	1510	1699	1888
	Total Pressure (PA)	25	39	57	77	101	125	156
	NC (noise criteria)	28	33	38	43	48	51	52
	1-way-Throw (m)	16.1	17.9	17.0	21.2	22.7	23.9	25.2
	2-way-Throw (m)	12.7	13.9	15.2	16.4	18.2	18.5	19.4
	3-way-Throw (m)	11.8	13.0	14.5	15.5	16.7	17.6	18.5
	4-way-Throw (m)	7.9	8.8	9.7	10.3	11.2	11.8	12.4



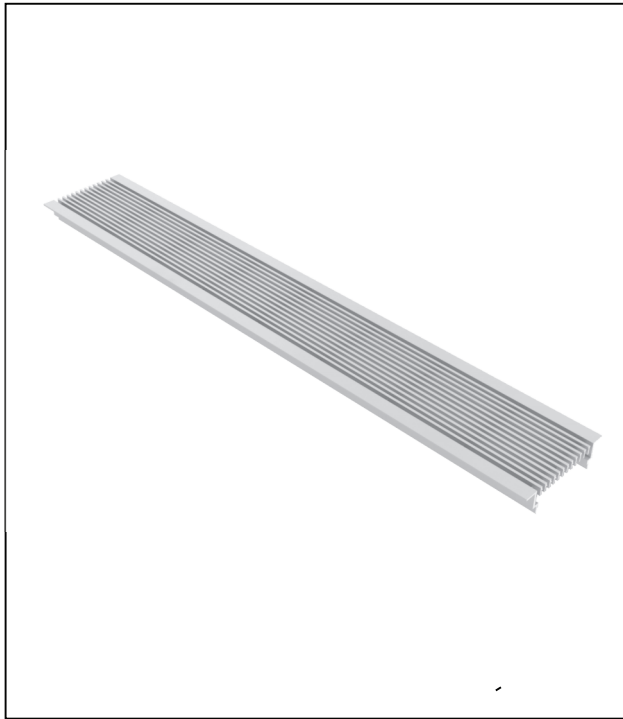
Product Code

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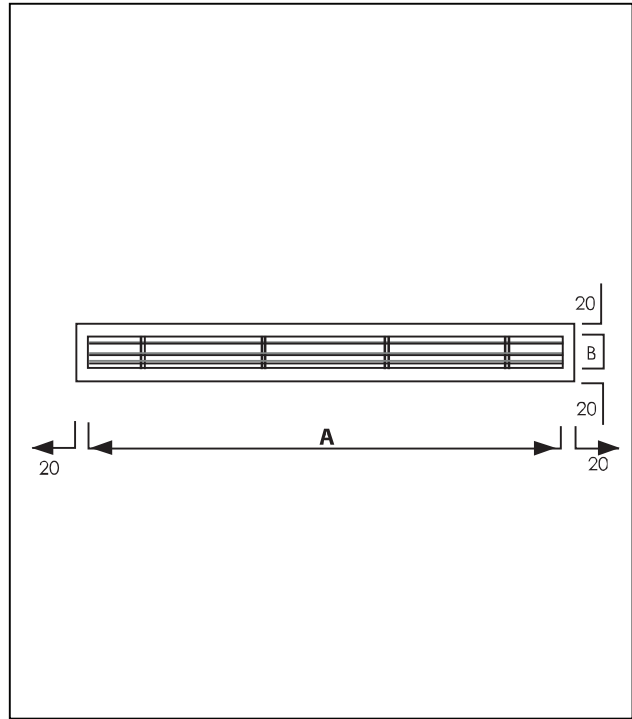
	Aluminium	Stainlss Steel 304 / 316
Frame Blade Construction	1.1mm 1.2mm	1.2mm 1.1mm
Spacing	12mm	
Degree	0° (Standard)	
Width	20mm	
Product Thickness	32mm	
Finishing	FF160 / 23 / CS3 (Standard) (Semi Gloss White Powder Coated Epoxy Polyester)	
Accessories	Opposed Blade Damper Opposed Blade Damper + Collar Round Damper Round Collar Insect Screen Filter Netting Plenum Box	
Type of Product	Fixed Type Swing Type Removable Type	
Product Detail	Minimum Frame Size : 100mm(L) x 100mm(H)(Neck Size) Maximun Frame Size : 2400mm(L) X 1200mm(H)(Neck Size) Minimum Blade Size : 100mm Length Maximun Blade Size : 100mm Length (Approximately 450mm will have blade support at behind) Note Base Deduct 6mm Neck Deduct 12mm	



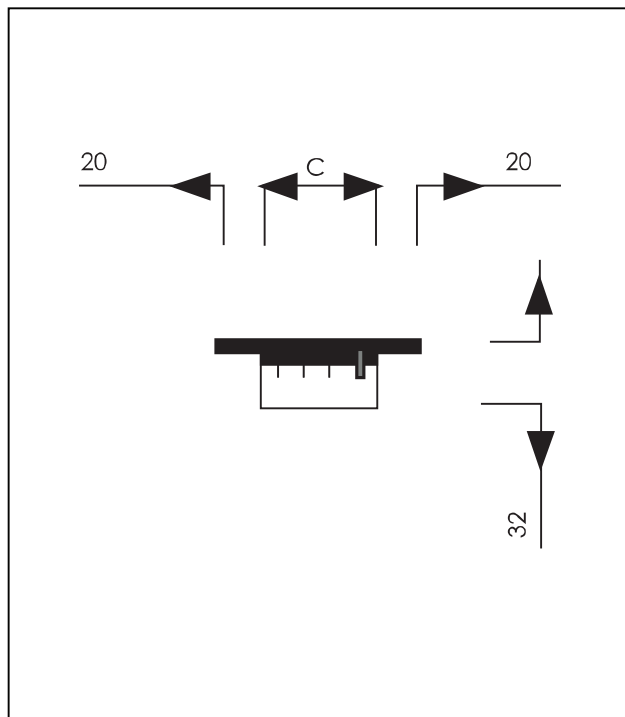
Isometric View



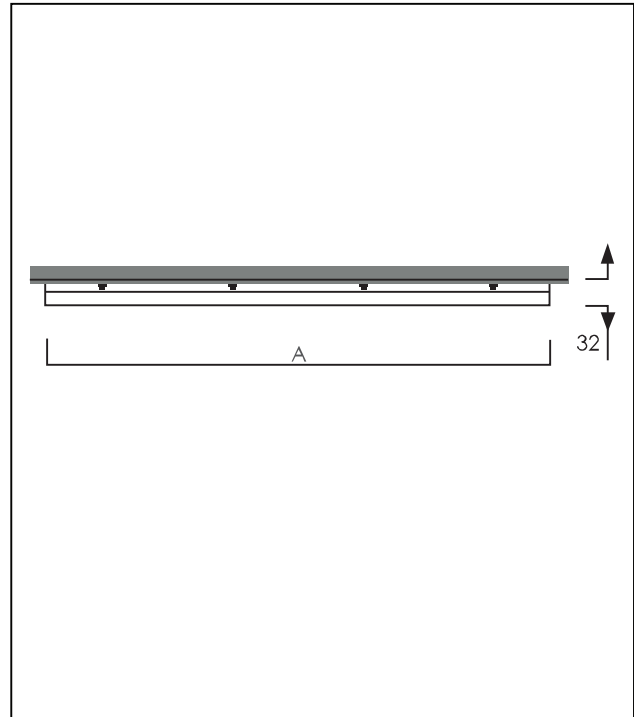
Top View



Side View



Side View



PERFORMANCE DATA



1/4" Spacing 1/8" Bars 0 degree Deflection

Area (Sq.m)	Nominal duct width (mm)	Total Static Pressure (PA)	3	6	11	17	25	33	44	56	69
0.003	38	l/s per m	5.7	9.0	11.8	14.2	17.0	20.8	24.1	26.4	29.7
		NC	-	-	12	19	24	27	31	35	38
		Throw (m) - Sill/floor	0.6	0.9	1.5	2.1	2.7	3.3	3.6	4.2	4.8
		Throw (m) - Side wall	1.5	2.4	3.0	3.6	4.2	4.8	5.1	5.7	6.3
0.004	50	l/s per m	9.0	13.7	17.9	22.7	26.9	31.1	35.4	40.1	44.8
		NC	-	-	12	17	22	27	30	35	37
		Throw (m) - Sill/floor	0.6	1.5	2.1	3.0	3.6	4.2	4.8	5.4	5.7
		Throw (m) - Side wall	1.8	2.7	3.6	4.5	5.1	5.7	6.3	6.9	7.5
0.006	63	l/s per m	11.8	18.4	24.5	31.1	36.8	42.5	49.6	55.7	61.3
		NC	-	-	13	18	24	29	33	36	40
		Throw (m) - Sill/floor	0.6	1.8	2.7	3.3	4.5	5.1	5.7	6.3	6.9
		Throw (m) - Side wall	2.1	3.0	3.6	4.8	5.7	6.6	6.9	8.4	9.0
0.008	75	l/s per m	15.6	24.1	31.1	39.6	48.1	55.7	62.3	68.4	78.8
		NC	-	-	14	20	24	29	35	36	41
		Throw (m) - Sill/floor	0.6	1.8	3.0	3.6	5.1	6.0	6.6	7.2	7.8
		Throw (m) - Side wall	2.1	3.0	3.9	5.4	6.0	6.9	8.1	9.3	9.9
0.009	88	l/s per m	19.3	28.3	38.7	48.6	58.0	66.1	77.9	88.7	96.7
		NC	-	-	15	20	25	30	34	39	41
		Throw (m) - Sill/floor	0.9	2.4	3.3	4.8	5.7	6.6	7.2	7.8	8.4
		Throw (m) - Side wall	2.4	3.6	4.8	6.0	6.9	7.8	8.7	9.9	10.5
0.011	100	l/s per m	22.7	35.4	46.2	57.6	68.4	81.6	92.5	104.3	115.6
		NC	-	-	16	21	27	32	35	38	42
		Throw (m) - Sill/floor	1.2	2.7	3.9	4.8	6.0	6.9	7.2	7.8	8.7
		Throw (m) - Side wall	2.7	3.9	5.1	6.3	7.5	8.1	9.0	10.2	11.4
0.014	125	l/s per m	30.2	44.4	59.0	74.6	88.7	103.8	120.3	132.1	148.7
		NC	-	-	18	23	26	31	36	39	42
		Throw (m) - Sill/floor	1.5	3.0	4.5	5.4	6.6	7.5	8.4	9.0	9.6
		Throw (m) - Side wall	2.7	4.2	5.4	6.6	8.1	9.0	10.2	10.8	12.0
0.018	150	l/s per m	36.8	55.2	73.1	92.0	110.9	128.4	152.0	165.2	184.0
		NC	-	10	18	25	29	35	38	41	45
		Throw (m) - Sill/floor	1.8	3.0	4.5	5.7	7.2	7.8	8.7	9.6	10.2
		Throw (m) - Side wall	3.0	4.8	6.0	7.5	8.4	9.0	10.2	12.0	13.2

** NC- Noise Critefion number based upom absorption of 10dB
Throw-Horizontal throw in meters to a terminal velocity of 0.25m/s

1/2" Spacing 1/4" Bars 0 degree Deflection

Area (Sq.m)	Nominal duct width (mm)	Total Static Pressure (PA)	3	6	10	16	23	31	39	50	63
0.002	38	l/s per m	4.7	7.6	10.4	12.3	15.1	17.5	19.8	22.7	24.1
		NC	-	-	13	18	25	29	33	37	39
		Throw (m) - Sill/floor	0.6	0.9	1.5	2.4	3.0	3.6	4.2	4.5	5.1
		Throw (m) - Side wall	1.5	2.4	3.0	3.9	4.2	5.1	5.4	6.0	6.6
0.004	50	l/s per m	8.5	12.3	16.5	21.2	25.5	30.2	33.0	38.2	42.5
		NC	-	-	12	19	24	29	31	35	37
		Throw (m) - Sill/floor	0.6	1.5	2.1	3.0	3.6	4.5	5.1	5.4	6.0
		Throw (m) - Side wall	1.8	2.7	3.6	4.5	5.1	6.0	6.6	6.9	7.8



PERFORMANCE DATA

0.006	63	l/s per m	11.8	18.4	24.5	30.7	37.3	43.4	50.0	56.6	61.3
		NC	-	-	14	20	24	32	35	38	41
		Throw (m) - Sill/floor	0.9	2.1	2.7	3.9	4.5	5.4	6.3	6.9	7.2
		Throw (m) - Side wall	2.1	3.0	3.9	5.1	6.0	6.6	7.5	8.7	9.3
0.008	75	l/s per m	16.0	24.5	33.0	41.5	50.0	57.6	66.1	74.6	83.5
		NC	-	-	15	21	26	32	34	38	40
		Throw (m) - Sill/floor	0.9	2.4	3.3	4.2	5.1	6.0	6.9	7.5	8.1
		Throw (m) - Side wall	2.1	3.6	4.5	5.4	6.6	7.5	8.4	9.6	10.5
0.010	88	l/s per m	20.8	31.1	42.0	52.4	61.3	70.8	82.6	94.4	104.8
		NC	-	-	16	22	26	31	35	38	40
		Throw (m) - Sill/floor	1.2	2.7	3.9	4.8	6.0	6.6	7.5	8.1	9.0
		Throw (m) - Side wall	2.4	3.9	5.1	6.3	7.2	8.1	9.0	9.9	11.1
0.012	100	l/s per m	24.5	38.2	62.3	75.5	78.8	84.9	100.0	113.3	125.5
		NC	-	-	17	22	28	33	37	41	42
		Throw (m) - Sill/floor	1.2	3.0	4.2	5.1	6.3	7.2	7.8	8.7	9.6
		Throw (m) - Side wall	2.7	4.2	5.4	6.6	7.8	8.7	9.3	10.8	11.7
0.016	125	l/s per m	33.5	50.5	68.0	84.9	101.5	121.8	135.0	150.1	167.5
		NC	-	10	19	23	28	33	38	41	43
		Throw (m) - Sill/floor	1.5	3.3	4.8	5.7	6.9	7.8	8.4	9.3	10.5
		Throw (m) - Side wall	3.0	4.5	6.0	6.9	8.4	9.6	10.2	11.4	12.6
0.021	150	l/s per m	42.5	62.3	88.7	105.7	126.5	146.3	167.5	188.8	209.5
		NC	-	11	19	25	29	34	39	42	45
		Throw (m) - Sill/floor	1.8	3.3	4.5	6.0	7.2	7.8	9.0	9.6	11.1
		Throw (m) - Side wall	3.6	5.1	6.0	7.2	9.0	10.2	10.8	12.3	13.5

** NC- Noise Critetion number based upom absorption of 10dB
Throw-Horizontal throw in meters to a terminal velocity of 0.25m/s

1/2" Spacing 1/8" Bars 0 degree Deflection

Area (Sq.m)	Nominal duct width (mm)	Total Static Pressure (PA)	2	5	9	15	20	27	36	46	56
0.003	38	l/s per m	6.6	10.4	12.7	16.5	19.3	23.1	26.0	29.3	33.0
		NC	-	-	16	23	27	30	34	37	38
		Throw (m) - Sill/floor	0.6	0.9	1.5	2.4	3.0	3.6	3.9	4.5	4.8
		Throw (m) - Side wall	1.5	2.4	2.4	3.9	4.2	5.1	5.4	6.0	6.6
0.005	50	l/s per m	10.9	15.1	20.3	26.4	31.1	36.8	41.5	45.3	53.8
		NC	-	-	12	16	22	26	30	32	36
		Throw (m) - Sill/floor	0.6	1.5	2.4	3.0	3.6	4.5	5.1	5.4	6.0
		Throw (m) - Side wall	1.8	2.7	3.6	4.5	5.4	6.0	6.0	6.9	7.8
0.007	63	l/s per m	14.2	19.8	27.4	35.4	42.0	49.6	56.6	63.7	70.8
		NC	-	-	11	17	21	25	30	32	35
		Throw (m) - Sill/floor	0.6	1.8	3.0	3.6	4.5	5.1	6.0	6.3	7.5
		Throw (m) - Side wall	2.1	3.0	4.2	5.1	5.7	6.6	7.5	8.4	9.6
0.009	75	l/s per m	17.5	27.4	36.3	45.3	54.7	67.0	73.1	80.2	92.5
		NC	-	-	11	17	22	25	31	32	35
		Throw (m) - Sill/floor	0.9	2.4	3.3	4.2	5.1	6.0	6.6	7.5	7.8
		Throw (m) - Side wall	2.4	3.3	4.5	5.4	6.3	7.5	8.4	9.3	10.2
0.011	88	l/s per m	21.2	32.6	43.9	54.3	66.1	75.5	89.2	96.3	108.5
		NC	-	-	11	17	21	25	30	32	35
		Throw (m) - Sill/floor	1.2	2.7	3.9	4.8	6.0	6.6	7.5	8.1	9.0
		Throw (m) - Side wall	2.4	3.9	5.1	6.3	7.2	8.1	9.0	9.9	10.8

PERFORMANCE DATA



0.013	100	I/s per m	26.0	38.7	52.4	66.1	79.3	92.5	105.2	118.0	132.1
		NC	-	-	12	17	24	26	30	33	36
		Throw (m) - Sill/floor	1.2	3.0	4.2	5.1	6.3	7.2	7.8	8.4	9.3
		Throw (m) - Side wall	2.7	4.2	5.4	6.0	7.8	8.7	9.3	10.8	12.0

0.017	125	I/s per m	34.0	50.0	68.0	84.0	101.5	118.0	135.0	157.1	173.7
		NC	-	-	12	17	22	27	30	36	38
		Throw (m) - Sill/floor	1.5	3.3	4.5	5.7	6.9	7.5	8.4	9.3	9.9
		Throw (m) - Side wall	3.3	4.5	6.0	6.9	8.4	9.3	10.2	11.4	12.3

0.020	150	I/s per m	41.5	64.2	84.0	104.3	125.1	147.2	167.5	188.8	210.5
		NC	-	-	13	18	22	26	30	34	38
		Throw (m) - Sill/floor	1.8	3.3	4.8	5.7	7.2	7.8	8.7	9.6	9.9
		Throw (m) - Side wall	3.6	5.1	6.3	7.5	9.0	10.2	10.8	12.3	13.5

**** NC- Noise Criterion number based upon absorption of 10dB**
Throw-Horizontal throw in meters to a terminal velocity of 0.25m/s

1/4" Spacing 1/8" Bars 15 degree Deflection

Area (Sq.m)	Nominal duct width (mm)	Total Static Pressure (PA)	3	6	11	18	25	33	44	56	70
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0.003	38	I/s per m	6.6	9.9	13.2	16.5	19.3	23.1	26.0	28.3	32.1
		NC	-	14	21	29	33	38	41	46	47
		Throw (m) - Sill/floor	0.6	1.2	1.5	2.4	3.0	3.6	4.2	4.5	5.1
		Throw (m) - Side wall	1.5	2.4	3.3	3.6	4.2	4.8	5.7	6.0	6.6

0.004	50	I/s per m	9.9	13.7	17.9	23.1	28.3	33.5	36.8	41.5	46.2
		NC	-	12	20	25	30	35	40	42	45
		Throw (m) - Sill/floor	0.6	1.5	2.1	3.0	3.6	4.2	4.8	5.4	5.7
		Throw (m) - Side wall	1.8	2.7	3.6	4.2	4.8	5.4	6.0	6.6	7.2

0.006	63	I/s per m	12.3	17.9	24.1	30.7	36.3	42.5	49.6	55.2	60.4
		NC	-	12	20	25	30	35	40	43	45
		Throw (m) - Sill/floor	0.6	1.8	2.7	3.3	4.5	4.8	5.7	6.3	6.6
		Throw (m) - Side wall	2.1	3.0	3.6	4.5	6.0	6.3	7.2	8.1	8.7

0.008	75	I/s per m	15.1	22.7	33.0	38.7	47.2	56.6	61.3	70.8	78.3
		NC	-	12	20	26	31	35	38	43	45
		Throw (m) - Sill/floor	0.9	2.1	3.0	3.9	4.8	5.7	6.6	6.9	7.2
		Throw (m) - Side wall	2.1	3.3	4.2	5.1	6.3	6.9	8.1	8.7	9.6

0.009	88	I/s per m	18.9	27.4	37.8	46.7	56.6	66.1	75.5	84.0	93.9
		NC	-	12	20	27	32	36	41	42	45
		Throw (m) - Sill/floor	0.9	2.7	3.6	4.2	5.4	6.3	6.9	7.5	8.1
		Throw (m) - Side wall	2.1	3.6	4.8	5.4	6.6	7.5	8.7	9.3	10.2

0.011	100	I/s per m	21.7	33.5	44.4	55.7	66.1	77.9	88.7	103.8	106.7
		NC	-	13	22	26	32	37	40	45	47
		Throw (m) - Sill/floor	1.2	3.0	3.9	4.8	6.0	6.6	7.5	7.8	8.7
		Throw (m) - Side wall	2.4	3.9	5.1	6.0	7.2	8.1	9.0	9.9	11.1

0.014	125	I/s per m	28.3	42.9	57.6	72.2	84.9	103.8	114.7	130.7	143.0
		NC	-	14	22	28	33	39	41	46	48
		Throw (m) - Sill/floor	1.2	3.0	4.2	5.1	6.3	7.2	7.8	8.7	9.9
		Throw (m) - Side wall	3.0	4.2	5.7	6.6	7.8	8.7	9.0	10.5	12.0

0.017	150	I/s per m	34.9	52.4	70.8	87.8	105.7	126.0	141.1	158.6	177.0
		NC	-	14	22	28	35	40	42	47	48
		Throw (m) - Sill/floor	1.5	3.3	4.5	5.7	6.9	7.8	8.7	9.3	9.9
		Throw (m) - Side wall	3.3	4.5	6.0	7.2	8.4	9.3	10.2	11.4	12.3

**** NC- Noise Criterion number based upon absorption of 10dB**
Throw-Horizontal throw in meters to a terminal velocity of 0.25m/s

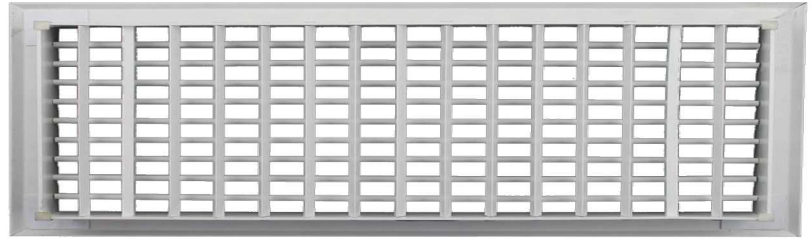
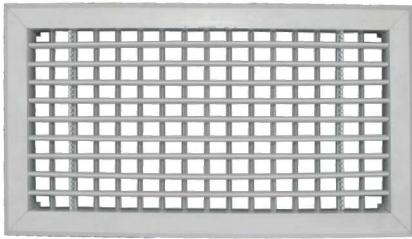


1/2" Spacing 1/4" Bars 15 degree Deflection

Area (Sq.m)	Nominal duct width (mm)	Total Static Pressure (PA)	3	6	12	19	27	36	50	63	75
0.003	38	l/s per m	5.7	8.5	11.8	15.1	17.5	20.8	23.6	26.4	30.2
		NC	-	16	25	31	35	40	44	47	50
		Throw (m) - Sill/floor	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.1
		Throw (m) - Side wall	1.5	2.4	3.3	3.9	4.5	5.1	5.7	6.3	6.9
0.004	50	l/s per m	9.0	13.2	18.4	23.1	27.4	31.1	36.3	42.0	46.2
		NC	-	11	18	25	30	35	40	42	47
		Throw (m) - Sill/floor	0.6	1.5	2.4	3.0	3.9	4.5	5.1	5.7	6.0
		Throw (m) - Side wall	1.8	2.7	3.6	4.5	5.4	6.0	6.9	7.2	7.8
0.006	63	l/s per m	12.7	18.9	26.0	31.6	38.2	44.8	50.0	56.6	64.2
		NC	-	11	18	25	32	35	40	42	47
		Throw (m) - Sill/floor	0.6	1.8	3.0	3.6	4.5	5.1	6.0	6.6	6.9
		Throw (m) - Side wall	2.1	3.0	4.2	5.1	6.0	6.6	7.5	8.4	9.0
0.008	75	l/s per m	16.0	24.1	33.0	40.1	48.1	57.6	66.1	73.6	81.6
		NC	-	11	18	25	32	34	38	42	44
		Throw (m) - Sill/floor	0.9	2.1	3.3	4.2	5.1	6.0	6.6	7.5	7.8
		Throw (m) - Side wall	2.1	3.6	4.5	5.7	6.6	7.5	8.7	9.3	10.5
0.010	88	l/s per m	19.8	30.2	39.6	50.0	59.5	70.8	79.3	89.7	99.1
		NC	-	12	20	26	31	35	40	43	48
		Throw (m) - Sill/floor	0.9	1.2	3.6	4.8	5.7	6.6	7.2	7.8	8.7
		Throw (m) - Side wall	2.7	3.9	5.1	6.0	7.2	8.4	9.0	9.9	11.1
0.012	100	l/s per m	24.5	36.3	48.6	59.0	70.8	84.9	96.7	113.3	122.7
		NC	-	13	20	27	32	39	40	46	48
		Throw (m) - Sill/floor	1.2	3.0	4.2	5.1	6.3	6.9	7.8	8.4	9.3
		Throw (m) - Side wall	2.7	4.2	5.4	6.3	7.5	8.7	9.6	11.1	11.4
0.015	125	l/s per m	31.1	48.1	63.2	78.3	94.4	110.9	126.0	142.5	158.1
		NC	-	13	20	27	33	37	40	45	48
		Throw (m) - Sill/floor	1.5	3.3	4.5	5.7	6.6	7.5	8.4	9.3	9.9
		Throw (m) - Side wall	3.6	4.8	6.0	7.2	8.1	9.0	9.9	11.1	12.0
0.019	150	l/s per m	40.1	59.9	79.3	99.1	118.9	139.2	159.5	183.6	199.2
		NC	-	15	23	30	35	40	45	46	51
		Throw (m) - Sill/floor	1.8	3.0	4.8	6.0	7.2	7.8	8.7	9.6	10.8
		Throw (m) - Side wall	3.9	5.4	6.6	7.5	9.0	9.9	10.8	11.4	13.2

** NC- Noise Critetion number based upom absorption of 10dB
 Throw-Horizontal throw in meters to a terminal velocity of 0.25m/s

DOUBLE DEFLECTION GRILLE

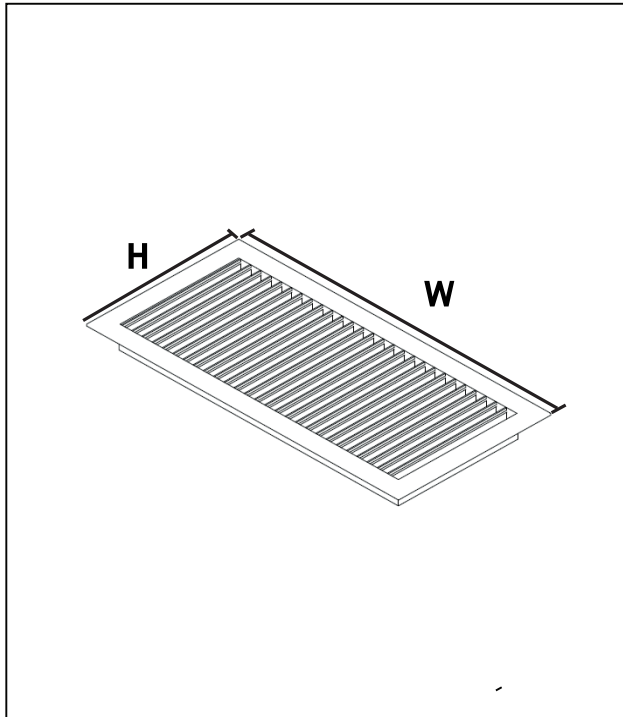


Product Code

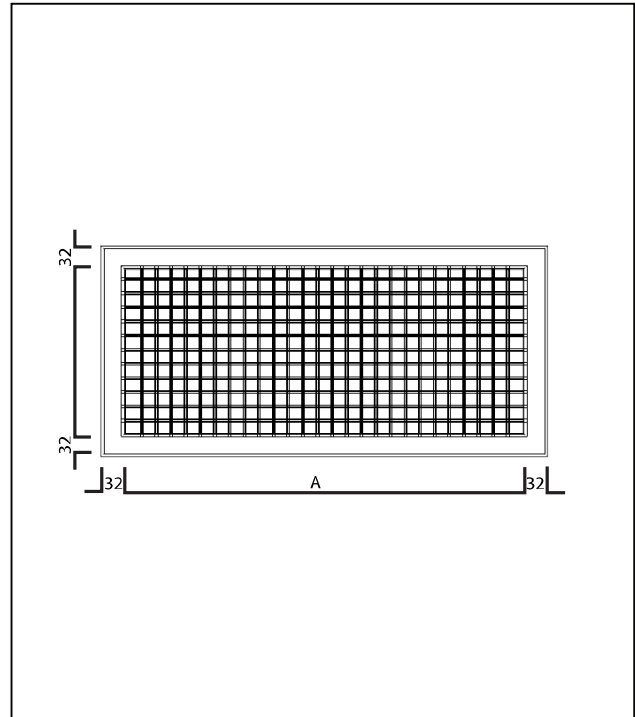
DD

	Galvanised Steel	Aluminium	Stainlss Steel 304 / 316
Frame Blade Construction	0.6mm 0.6mm	1.1mm0.8mm	0.7mm 0.8mm
Spacing	20mm		
Width	15mm		
Product Thickness	32mm	45mm	
Finishing	FF160 / 23 / CS3 (Standard) (Semi Gloss White Powder Coated Epoxy Polyester)		
Accessories	Opposed Blade Damper		
	Opposed Blade Damper + Collar		
	Round Damper		
	Round Collar		
	Insect Screen		
	Filter		
	Netting		
Type of Product	Volume Control Damper		
	Fixed Type Swing Type Removable Type		
Product Detail	Minimum Frame Size : 100mm(L) x 100mm(H) (Neck Size)		
	Maximun Frame Size : 2400mm(L) X 1200mm(H) (Neck Size)		
	Minimum Blade Size : 100mm Length		
	Maximun Blade Size : 600mm Length (Approximately 450mm will have blade support at behind)		

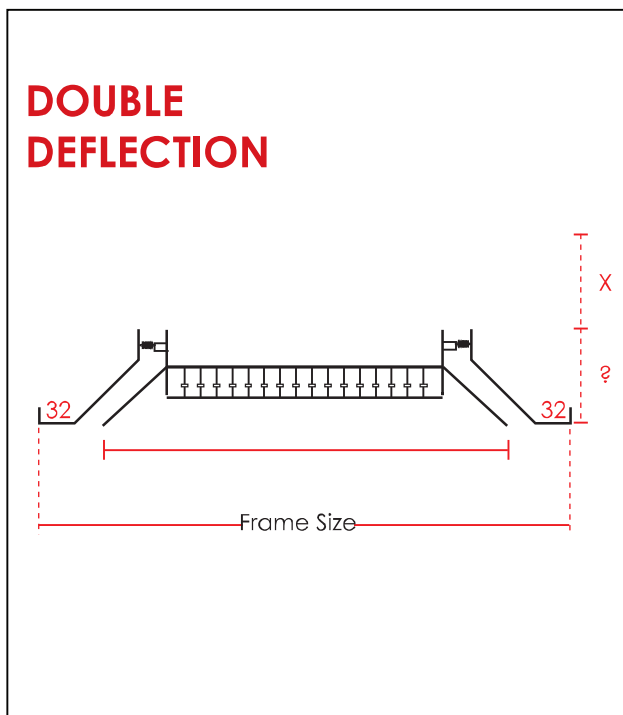
Isometric View



Top View



Side View



Standard Size

W	H	B

PERFORMANCE DATA



A: Grille Face Size: 240mm x 240mm (Neck Size: 180mm x 180mm)

Flow Rate (l/s)	Pressure Drop (Pa)	Throw (m)	NR	P.W.L.						
				125	250	500	1000	2000	4000	8000
75	6	> 8	15	36.7	33.1	27.1	17.0	6.8	9.4	17.5
91	9	> 8	17	40.0	36.5	31.7	22.5	13.0	13.6	18.1
107	13	> 8	21	42.7	39.2	35.6	27.1	18.1	17.0	18.7
117	15	> 8	23	44.2	40.7	37.6	29.6	20.9	18.8	19.0
127	19	> 8	25	45.6	42.2	39.6	31.9	23.5	20.6	19.3
138	22	> 8	28	47.0	43.6	41.6	34.3	26.2	22.4	19.6
156	29	> 8	31	49.1	45.7	44.5	37.8	30.1	25.0	20.0
173	36	> 8	33	50.7	47.4	46.8	40.6	33.2	27.0	20.4
185	41	> 8	35	51.8	48.5	48.4	42.5	35.3	28.4	20.6
201	50	> 8	37	53.2	49.9	50.4	44.8	37.9	30.2	20.9
220	60	> 8	39	54.7	51.4	52.5	47.3	40.7	32.0	21.2
239	72	> 8	41	56.1	52.9	54.4	49.7	43.4	33.8	21.5

: Grille Face Size: 240mm x 290mm (Neck Size: 180mm x 230mm)

Flow Rate	Pressure Drop	Throw (M)	NR	P.W.L.						
				125	250	500	1000	2000	4000	8000
87	5	> 8	15	38.4	34.0	28.1	18.1	8.3	10.5	17.9
95	6	> 8	16	39.9	35.6	30.3	20.6	11.2	12.4	18.2
106	7	> 8	18	41.7	37.3	32.7	23.5	14.4	14.5	18.6
119	10	> 8	21	43.7	39.4	35.5	26.9	18.2	17.1	19.0
133	12	> 8	24	45.5	41.2	38.1	30.0	21.6	19.3	19.4
147	15	> 8	26	47.1	42.9	40.4	32.7	24.7	21.4	19.7
160	18	> 8	28	48.6	44.4	42.5	35.2	27.5	23.2	20.0
177	22	> 8	31	50.2	46.0	44.8	38.0	30.6	25.3	20.4
195	28	> 8	33	51.9	47.7	47.1	40.8	33.7	27.4	20.7
214	34	> 8	35	53.4	49.3	49.2	43.4	36.6	29.3	21.0
235	41	> 8	38	54.9	50.8	51.4	46.0	39.5	31.2	21.4
258	50	> 8	40	56.5	52.4	53.6	48.6	42.5	33.2	21.7

C: Grille Face Size: 240mm x 340mm (Neck Size: 180mm x 280mm)

Flow Rate (l/s)	Pressure Drop (Pa)	Throw (m)	NR	P.W.L.						
				125	250	500	1000	2000	4000	8000
106	5	> 8	16	41.0	36.0	30.6	21.0	11.8	12.8	18.5
116	6	> 8	18	42.5	37.5	32.8	23.6	14.7	14.7	18.9
129	7	> 8	21	44.2	39.3	35.2	26.5	17.9	16.9	19.2
145	10	> 8	24	46.2	41.3	38.0	29.9	21.8	19.4	19.6
162	12	> 8	26	48.0	43.2	40.6	32.9	25.2	21.7	20.0
178	15	> 8	29	49.7	44.8	42.9	35.7	28.2	23.7	20.4
195	18	> 8	31	51.2	46.3	45.0	38.2	31.0	25.6	20.7
212	22	> 8	33	52.5	47.7	46.9	40.5	33.6	27.3	20.9
228	25	> 8	35	53.8	49.0	48.7	42.6	36.0	28.9	21.2
245	29	> 8	36	54.9	50.2	50.3	44.6	38.2	30.4	21.5
262	34	> 8	38	56.0	51.3	51.8	46.4	40.2	31.7	21.7
278	39	> 8	40	57.0	52.3	53.3	48.2	42.2	33.0	21.9



PERFORMANCE DATA

Flow Rate (l/s)	Pressure Drop (Pa)	Throw (m)	NR	P.W.L.						
	4	> 8	16	41.5	35.9	30.4	20.6	11.6	12.7	18.7
	5	> 8	18	43.2	37.6	32.7	23.5	14.8	14.8	19.1
	6	> 8	21	45.0	39.5	35.4	26.6	18.3	17.1	19.5
	8	> 8	24	47.2	41.7	38.4	30.3	22.4	19.9	19.9
	10	> 8	27	49.0	43.5	40.9	33.3	25.8	22.1	20.3
	14	> 8	30	51.1	45.7	43.9	36.8	29.7	24.7	20.7
	16	> 8	32	52.5	47.1	45.9	39.2	32.4	26.5	21.0
	19	> 8	34	53.8	48.4	47.7	41.4	34.8	28.1	21.3
	21	> 8	35	54.6	49.3	48.9	42.8	36.4	29.2	21.5
	26	> 8	37	56.1	50.8	51.0	45.4	39.2	31.1	21.8
	31	> 8	39	57.5	52.2	53.0	47.7	41.9	32.8	22.1
	37	> 8	41	58.8	53.5	54.8	49.9	44.3	34.4	22.3

	3	> 8	16	41.5	35.4	29.6	19.6	10.7	12.0	18.8
	5	> 8	20	45.0	39.0	34.5	25.6	17.3	16.4	19.5
	6	> 8	23	46.9	40.9	37.2	28.7	20.8	18.8	19.9
	8	> 8	25	48.5	42.6	39.5	31.6	24.0	20.9	20.3
	9	> 8	27	49.8	43.9	41.3	33.6	26.3	22.5	20.5
	11	> 8	29	51.4	45.5	43.5	36.3	29.3	24.4	20.8
	13	> 8	31	52.7	46.9	45.4	38.6	31.9	26.1	21.1
	16	> 8	33	54.1	48.3	47.4	41.0	34.6	27.9	21.4
	19	> 8	35	55.5	49.7	49.3	43.3	37.1	29.7	21.7
	22	> 8	37	56.7	50.9	51.1	45.4	39.4	31.2	22.0
	26	> 8	39	57.9	52.2	52.8	47.4	41.7	32.7	22.2
	30	> 8	41	59.1	53.4	54.5	49.5	44.0	34.2	22.5

	2	> 8	16	41.3	34.5	28.0	17.7	8.8	10.7	18.9
	3	> 8	17	43.5	36.7	31.1	21.4	12.9	13.5	19.3
	4	> 8	20	45.5	38.7	33.9	24.7	16.6	16.0	19.7
	5	> 8	23	47.5	40.8	36.7	28.1	20.4	18.5	20.1
	6	> 8	25	49.0	42.4	38.9	30.7	23.4	20.5	20.5
	7	> 8	27	50.5	43.8	40.9	33.2	26.1	22.3	20.8
	8	> 8	29	52.3	45.7	43.5	36.2	29.5	24.6	21.1
	10	> 8	32	53.8	47.2	45.6	38.8	32.4	26.5	21.5
	12	> 8	34	55.2	48.6	47.6	41.2	35.0	28.2	21.8
	15	> 8	36	56.9	50.3	50.0	44.0	38.1	30.3	22.1
	19	> 8	38	58.5	51.9	52.2	46.7	41.1	32.3	22.4
	23	> 8	41	59.9	53.4	54.3	49.1	43.9	34.2	22.7

PERFORMANCE DATA



G: Grille Face Size: 240mm x 640mm (Neck Size: 180mm x 580mm)

Flow Rate (l/s)	Pressure Drop (Pa)	Throw (m)	NR	P.W.L.						
				125	250	500	1000	2000	4000	8000
125	1	> 8	16	41.2	33.7	26.8	16.2	7.3	9.8	18.9
146	2	> 8	17	43.8	36.4	30.4	20.5	12.1	13.0	19.5
167	3	> 8	19	46.0	38.6	33.6	24.2	16.3	15.8	19.9
188	4	> 8	22	48.0	40.6	36.3	27.5	20.0	18.2	20.3
213	5	> 8	25	50.0	42.7	39.3	31.1	24.0	20.9	20.8
234	6	> 8	27	51.6	44.3	41.4	33.7	26.9	22.8	21.1
255	7	> 8	29	53.0	45.8	43.4	36.1	29.6	24.6	21.4
276	8	> 8	31	54.3	47.1	45.3	38.3	32.0	26.3	21.7
296	9	> 8	33	55.5	48.3	47.0	40.4	34.3	27.8	21.9
331	12	> 8	36	57.4	50.2	49.6	43.4	37.8	30.1	22.3
365	15	> 8	38	59.0	51.9	51.9	46.2	40.9	32.2	22.6
400	18	> 8	40	60.5	53.4	54.0	48.8	43.7	34.0	22.9

H: Grille Face Size: 395mm x 495mm (Neck Size: 325mm x 425mm)

Flow Rate (l/s)	Pressure Drop (Pa)	Throw (m)	NR	P.W.L.						
				125	250	500	1000	2000	4000	8000
152	1	> 8	17	43.4	35.1	28.3	17.9	9.6	11.3	19.5
180	2	> 8	18	46.2	37.9	32.3	22.6	14.8	14.8	20.1
217	3	> 8	22	49.4	41.1	36.7	27.9	20.7	18.7	20.8
257	4	> 8	27	52.2	43.9	40.7	32.6	26.1	22.3	21.3
286	5	> 8	29	54.1	45.9	43.4	35.9	29.7	24.7	21.7
314	6	> 8	31	55.5	47.3	45.3	38.2	32.3	26.4	22.0
341	7	> 8	33	56.9	48.7	47.3	40.6	35.0	28.2	22.3
369	8	> 8	35	58.2	50.1	49.1	42.8	37.4	29.8	22.6
396	10	> 8	37	59.4	51.3	50.8	44.8	39.7	31.3	22.8
421	11	> 8	38	60.4	52.3	52.3	46.5	41.6	32.6	23.0
449	12	> 8	40	61.4	53.4	53.7	48.3	43.6	33.9	23.3
477	14	> 8	41	62.4	54.4	55.1	50.0	45.4	35.2	23.5

I: Grille Face Size: 445mm x 495mm (Neck Size: 375mm x 425mm)

Flow Rate (l/s)	Pressure Drop (Pa)	Throw (m)	NR	P.W.L.						
				125	250	500	1000	2000	4000	8000
159	1	> 8	17	43.7	34.9	27.9	17.3	9.1	11.0	19.6
191	1	> 8	18	46.8	37.9	32.2	22.5	14.9	14.8	20.3
223	2	> 8	22	49.3	40.6	35.8	26.8	19.7	18.0	20.8
255	3	> 8	25	51.5	42.8	39.0	30.6	23.9	20.8	21.3
287	4	> 8	28	53.5	44.8	41.7	33.9	27.6	23.3	21.7
319	4	> 8	30	55.2	46.6	44.2	36.8	30.9	25.5	22.0
351	5	> 8	32	56.8	48.2	46.4	39.5	33.9	27.5	22.4
383	6	> 8	35	58.3	49.7	48.5	41.9	36.6	29.3	22.7
414	8	> 8	36	59.6	51.0	50.3	44.2	39.1	31.0	23.0
446	9	> 8	38	60.8	52.3	52.1	46.3	41.4	32.5	23.2
478	10	> 8	40	62.0	53.5	53.7	48.2	43.6	34.0	23.4
510	12	> 8	41	63.0	54.5	55.2	50.0	45.6	35.3	23.7

J: Grille Face Size: 495mm x 495mm (Neck Size: 425mm x 425mm)

Flow Rate (l/s)	Pressure Drop (Pa)	Throw (m)	NR	P.W.L.						
				125	250	500	1000	2000	4000	8000
166	1	> 8	17	44.0	34.7	27.6	16.9	8.8	10.7	19.8
206	1	> 8	18	47.5	38.3	32.6	22.9	15.5	15.2	20.5
242	2	> 8	22	50.2	41.1	36.4	27.4	20.6	18.6	21.1
278	3	> 8	26	52.5	43.4	39.7	31.3	24.9	21.5	21.5
303	3	> 8	28	54.0	44.9	41.7	33.8	27.7	23.3	21.8
342	4	> 8	31	56.0	46.9	44.5	37.2	31.5	25.9	22.3
372	5	> 8	33	57.4	48.3	46.5	39.5	34.1	27.6	22.5
401	6	> 8	34	58.6	49.6	48.3	41.6	36.4	29.2	22.8
439	7	> 8	37	60.1	51.1	50.4	44.2	39.3	31.1	23.1
481	8	> 8	39	61.6	52.7	52.5	46.7	42.1	33.0	23.4
510	9	> 8	40	62.6	53.7	53.9	48.4	43.9	34.2	23.6
537	10	> 8	41	63.5	54.5	55.1	49.8	45.6	35.3	23.8



OPPOSED BLADE DAMPER (OBD)

Opposed blade damper is designed to provide even air distribution for entire diffuser face.

It is control by adjustable lever arm and it is able to set at various opening area.



FAN BLADE DAMPER

Fan blade damper is adjustable from diffuser side by using screw driver or specific tools.



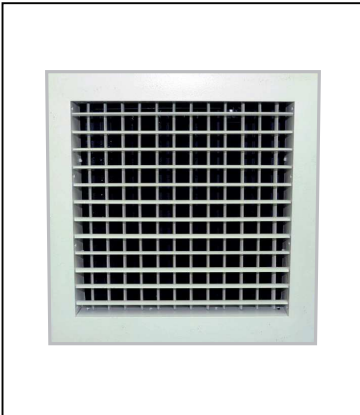
OPPOSED BLADE DAMPER (OBD) C/W ROUND COLLAR

Opposed blade damper C/W round collar enable easy connection for flexible duct and having even air distribution.

TYPES OF DOUBLE DEFLECTION



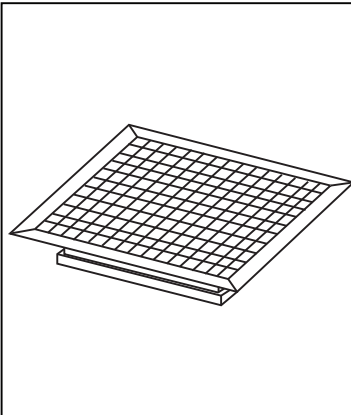
Ajustable Double Deflection



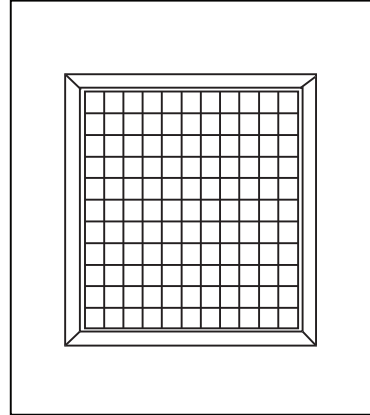
Ajustable DD Thick Blade



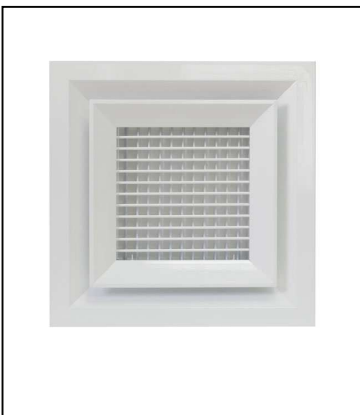
Isometric View



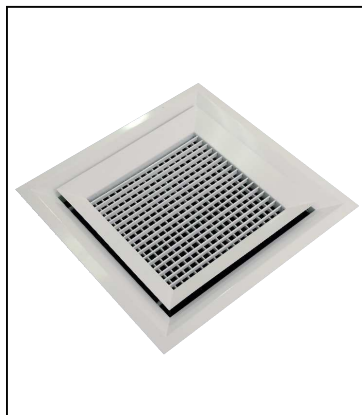
Top View



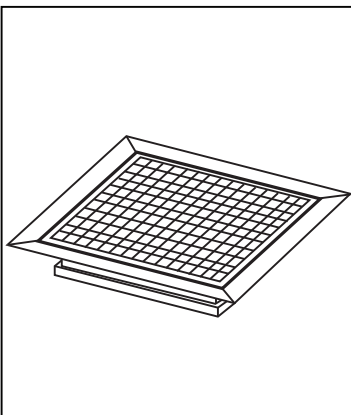
4 Way DD Centre Core



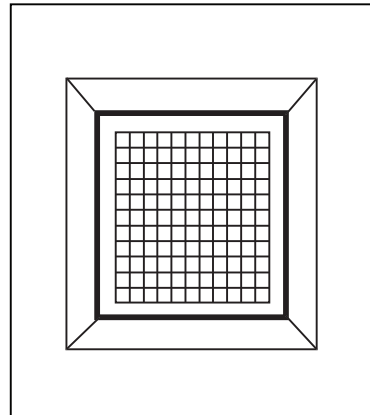
4 Way DD Centre Core



Isometric View



Top View



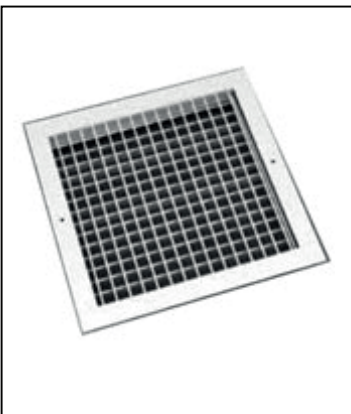
Ajustable Double Deflection



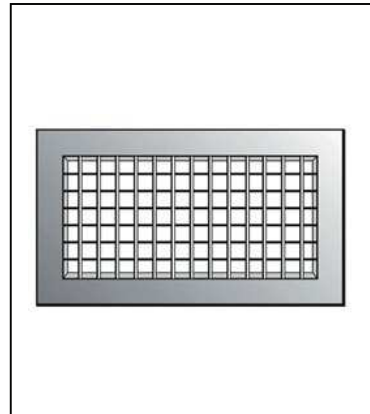
Ajustable DD Thick Blade



Isometric View



Top View





SINGLE DEFLECTION GRILLE



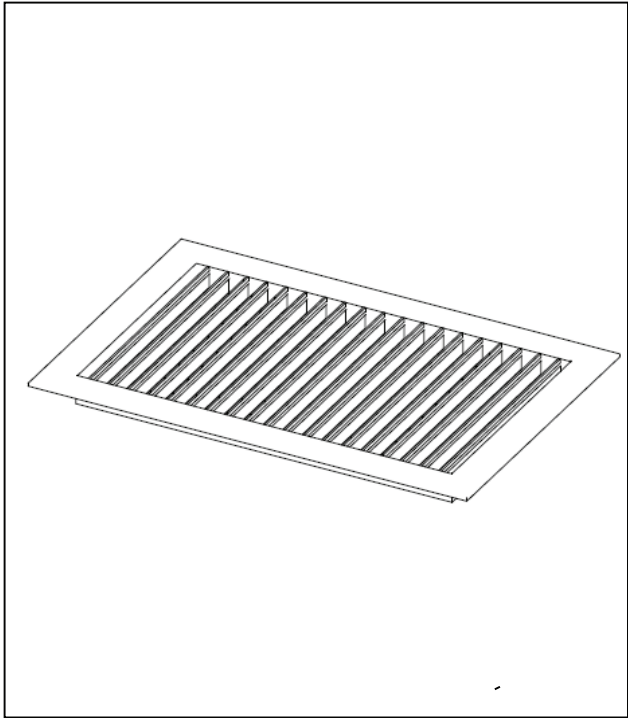
Product Code

SD

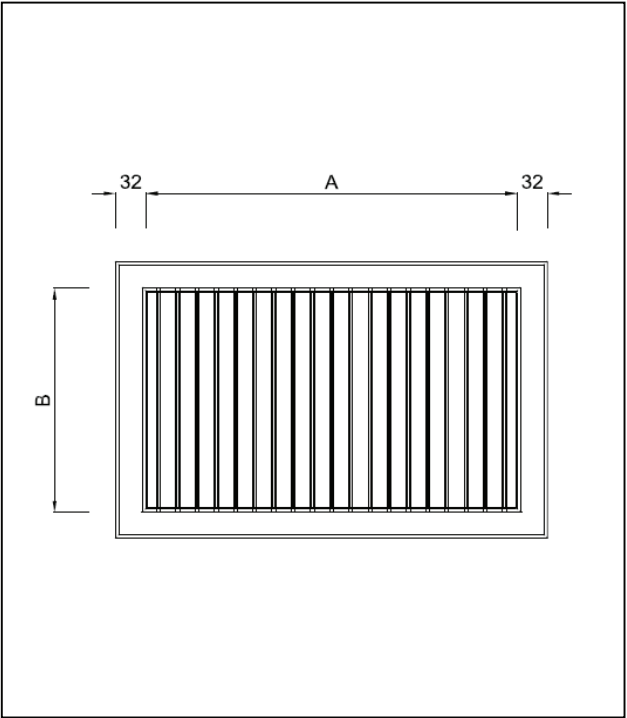
	Galvanised Steel	Aluminium	Stainlss Steel 304 / 316
Frame Blade Construction	0.6mm 0.8mm	1.1mm 0.8mm	0.7mm 0.8mm
Spacing	20mm		
Width	15mm(Standard)		20mm
Product Thickness	38mm	45mm	50mm
Finishing	FF160 / 23 / CS3 (Standard) (Semi Gloss White Powder Coated Epoxy Polyester)		
Accessories	Opposed Blade Damper Opposed Blade Damper + Collar Round Damper Round Collar Insect Screen Filter Netting		
Type of Product	Fixed Type Swing Type Removable Type		
Product Detail	Minimum Frame Size : 100mm(L) x 100mm(H) (Neck Size) Maximun Frame Size : 2400mm(L) X 1200mm(H) (Neck Size) Minimum Blade Size : 100mm Length Maximun Blade Size : 600mm Length (Approximately 450mm will have blade support at behind) Note Base Deduct 6mm Neck Deduct 12mm		



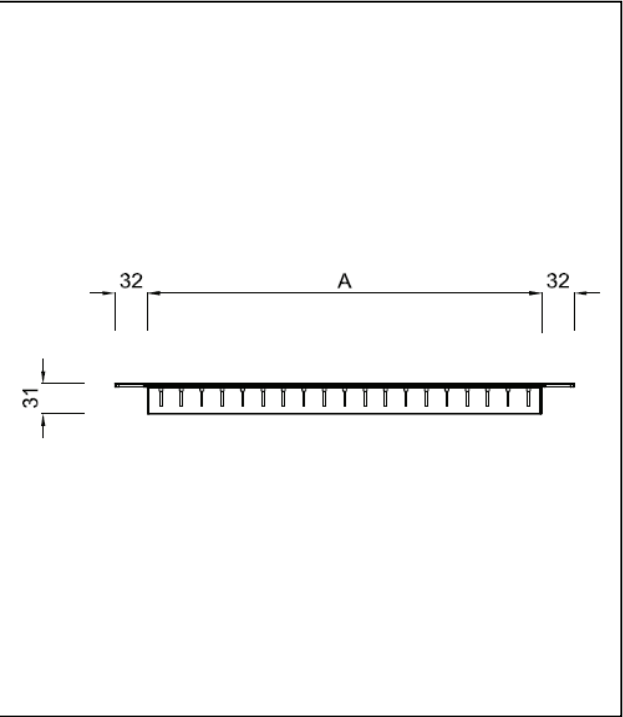
Isometric View



Top View



Side View



Standard Size

Base Size	
imperial	metric
1' x 1'	300 x 300
1' x 2'	300 x 600
2' x 2'	600 x 600
2' x 4'	1200 x 600



PERFORMANCE DATA

NECK SIZE (mm)	NECK AREA (m²)	VELOCITY (m/s)	2.5	3	3.5	4	4.5	5.5	6.5
		STATIC PRESSURE (Pa)	16	22	28	34	40	46	52
250 X 100 200 X 126	0.025	Airflow (l/s)	50	62.5	75	87.5	100	125	150
		NC	-	-	11	17	23	30	39
300 X 100 200 X 150	0.03	Airflow (l/s)	60	75	90	105	120	150	180
		NC	-	-	12	19	25	31	41
400 X 100 200 X 150	0.035	Airflow (l/s)	70	87.5	105	122.5	140	175	210
		NC	-	-	14	21	26	34	43
350 X 125 300 X 150	0.04	Airflow (l/s)	80	100	120	140	160	200	240
		NC	-	-	16	23	28	36	45
350 X 150 250 X 200	0.05	Airflow (l/s)	100	125	150	175	200	250	300
		NC	-	-	16	23	28	36	45
600 X 100 400 X 150	0.06	Airflow (l/s)	120	150	180	210	240	300	360.5
		NC	-	11	18	25	30	37	46
600 X 125 500 X 150 300 X 250	0.075	Airflow (l/s)	150	187.5	225	262.5	300	375	450
		NC	-	11	18	25	30	37	46
400 X 200 550 X 150 350 X 250	0.09	Airflow (l/s)	180	225	270	315	360	450	540
		NC	-	13	21	26	32	39	47
750 X 125 450 X 200 400 X 250	0.1	Airflow (l/s)	200	250	300	350	400	500	600
		NC	-	14	21	28	33	40	48
450 X 250 750 X 150 350 X 300	0.12	Airflow (l/s)	240.10	300	360	420	480	600	720
		NC	-	15	23	29	34	42	49
850 X 150 600 X 200 400 X 300	0.128	Airflow (l/s)	256.22	320	383.9	447.8	511.10	640	768.1
		NC	-	16	23	29	34	42	49
450 X 300 900 X 150 400 X 350	0.136	Airflow (l/s)	270	337.5	450	472.3	540	675	810
		NC	-	16	23	29	34	42	49
900 X 200 600 X 300 750 X 250	0.18	Airflow (l/s)	360	450	540	630	720	900	1080
		NC	-	17	24	30	35	43	51
750 X 350 600 X 450 550 X 500	0.27	Airflow (l/s)	540.2	675	809.7	945	1080	1350	1620
		NC	-	17	25	32	37	45	53
1200 X 300 750 X 450 600 X 600	0.36	Airflow (l/s)	720.30	900	1080	1260	1440	1800	2160
		NC	12	19	26	33	39	47	55

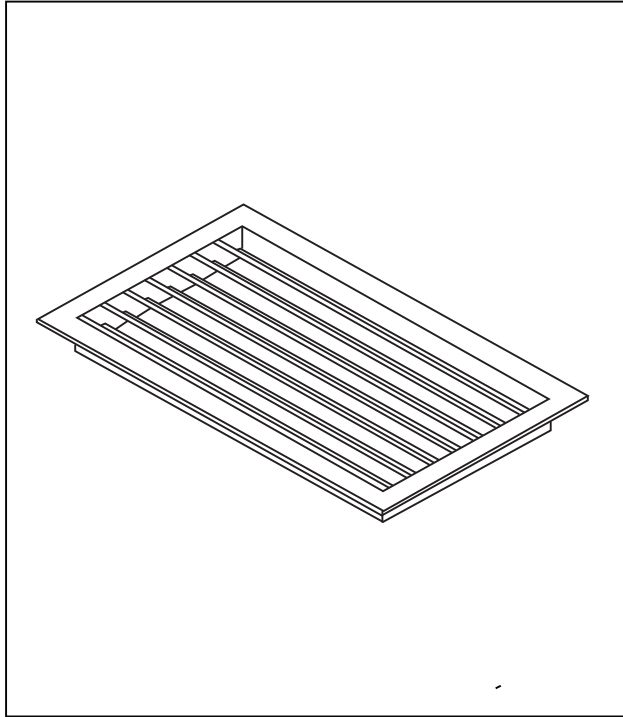


Product Code

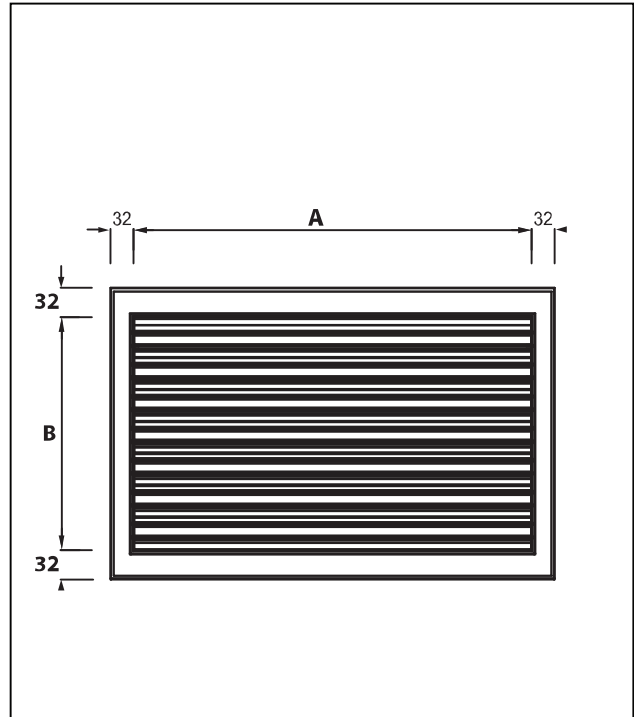
L

	Galvanised Steel	Aluminium	Stainlss Steel 304 / 316
Frame Blade Construction	0.6mm	1.1mm	0.6mm
	0.6mm	1.0mm	0.7mm
Spacing	43mm - 50mm		
Width	32mm(Standard)		
Degree	45°(Standard)		
Product Thickness	38mm	45mm	
Finishing	FF160 / 23 / CS3 (Standard) (Semi Gloss White Powder Coated Epoxy Polyester)		
Accessories	Opposed Blade Damper		
	Opposed Blade Damper + Collar		
	Round Damper		
	Round Collar		
	Insect Screen		
	Filter		
	Netting		
Type of Product	Fixed Type		
	Swing Type		
	Removable Type		
Product Detail	Minimum Frame Size : 100mm(L) x 100mm(H)(Neck Size)		
	Maximun Frame Size : 2400mm(L) X 1200mm(H)(Neck Size)		
	Minimum Blade Size : 100mm Length		
	Maximun Blade Size : 670mm Length		
	(Blade length above 670mm will have centre bone)		
	Note		
	Base Deduct 6mm		
	Neck Deduct 12mm		

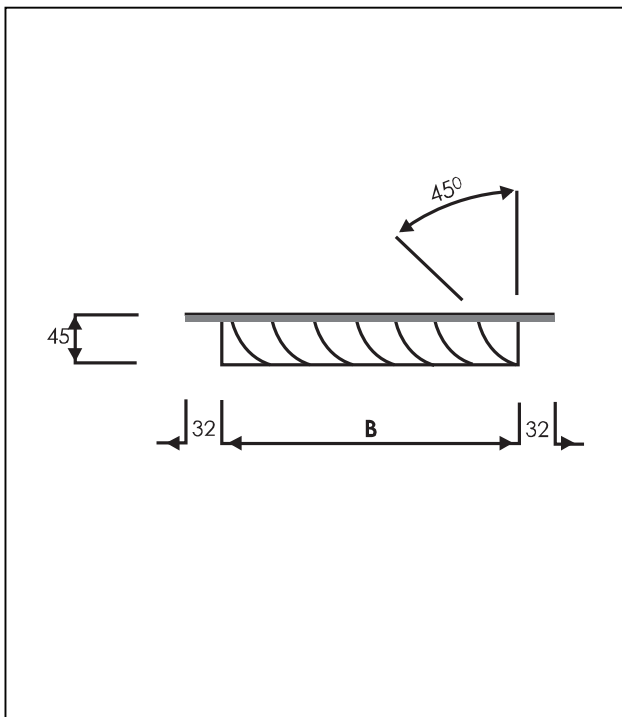
Isometric View



Top View



Side View



Standard Size

Base Size	
imperial	metric
1' x 1'	300 x 300
1' x 2'	300 x 600
2' x 2'	600 x 600
2' x 4'	1200 x 600

PERFORMANCE DATA

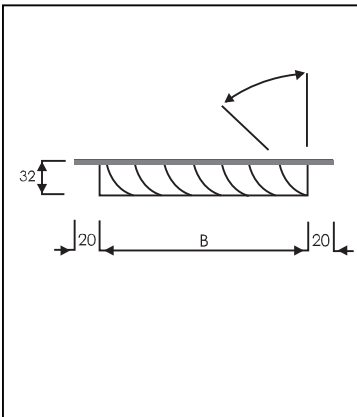


NECK SIZE (mm)	NECK SIZE (mm)	NECK AREA (m²)	VELOCITY (m/s)	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
			STATIC PRESSURE (Pa)	7	11	16	22	27	35	41	41	41
250	100	0.025	Airflow (l/s)	50	62	75	87	100	112	125	137	150
200	125		NC	16	22	27	30	33	36	36	38	42
300	100	0.030	Airflow (l/s)	60	75	90	105	120	135	150	165	180
200	150		NC	19	25	30	34	38	40	42	44	49
350	100	0.035	Airflow (l/s)	70	87	105	122	140	157	175	192	210
175	200		NC	22	26	29	32	36	39	42	44	48
400	100	0.040	Airflow (l/s)	80	100	120	140	160	180	200	220	240
175	225		NC	23	27	31	33	38	40	44	48	50
450	100	0.045	Airflow (l/s)	90	112	135	157	180	202	225	247	270
200	225		NC	24	28	32	34	39	41	45	49	51
500	100	0.050	Airflow (l/s)	100	125	150	175	200	225	250	275	300
200	250		NC	26	30	33	36	41	45	47	51	53
550	100	0.055	Airflow (l/s)	110	137	165	192	220	247	275	302	330
200	275		NC	26	30	32	35	41	44	48	52	54
600	100	0.060	Airflow (l/s)	120	150	180	210	240	270	300	330	360
200	300		NC	27	30	33	35	39	42	45	49	54
650	100	0.065	Airflow (l/s)	130	162	195	227	260	292	325	357	390
200	325		NC	28	31	35	35	38	42	44	49	52
700	100	0.070	Airflow (l/s)	140	175	210	245	280	315	350	385	420
200	350		NC	28	32	33	36	36	38	43	47	51
750	100	0.075	Airflow (l/s)	150	187	225	262	300	337	375	412	450
200	375		NC	28	32	34	36	37	38	43	47	53
800	100	0.080	Airflow (l/s)	160	200	240	280	320	360	400	440	480
200	400		NC	30	29	33	34	38	38	43	48	56
850	100	0.085	Airflow (l/s)	170	212	255	297	340	382	425	467	510
200	425		NC	30	29	34	34	38	38	43	48	57
900	150	0.135	Airflow (l/s)	270	337	405	472	540	607	675	742	810
300	450		NC	31	33	34	37	38	41	43	48	59
950	150	0.143	Airflow (l/s)	285	356	427	499	570	641	712	783	855
300	475		NC	31	34	34	37	40	41	49	52	59
1000	250	0.250	Airflow (l/s)	500	625	750	875	1000	1125	1249	1374	1499
500	500		NC	31	32	33	37	40	41	51	52	60
1050	250	0.263	Airflow (l/s)	525	656	787	918	1050	1181	1312	1443	1574
500	525		NC	33	33	36	38	41	46	48	57	61
1100	250	0.275	Airflow (l/s)	550	687	825	962	1100	1237	1374	1512	1649
500	550		NC	33	35	40	44	47	50	55	59	62
1000	350	0.350	Airflow (l/s)	700	875	1050	1224	1399	1574	1749	1924	2099
550	650		NC	34	35	41	44	47	50	55	59	63
1000	450	0.450	Airflow (l/s)	900	1125	1349	1574	1799	2024	2249	2474	2699
600	750		NC	36	35	44	47	49	53	58	59	65
1000	500	0.500	Airflow (l/s)	1000	1249	1499	1749	1999	2249	2499	2749	2999
600	825		NC	38	40	44	46	49	53	58	59	66
1000	650	0.650	Airflow (l/s)	1299	1624	1949	2274	2599	2924	3249	3573	3898
650	1000		NC	38	43	44	46	46	53	59	59	64
1000	750	0.750	Airflow (l/s)	1499	1874	2249	2624	2999	3374	3748	4123	4498
650	1150		NC	40	44	44	47	46	55	59	62	66
1000	800	0.800	Airflow (l/s)	1599	1999	2399	2799	3199	3598	3998	4398	4798
700	1150		NC	40	45	48	47	51	55	59	62	69
1000	850	0.850	Airflow (l/s)	1699	2124	2549	2974	3399	3823	4248	4673	5098
750	1125		NC	41	45	48	49	52	55	61	65	70
1000	925	0.925	Airflow (l/s)	1849	2312	2774	3236	3698	4161	4623	5085	5548
750	1225		NC	45	47	48	52	55	58	62	68	71
1000	950	0.950	Airflow (l/s)	1899	2374	2849	3324	3798	4273	4748	5223	5698
800	1200		NC	46	47	50	52	56	65	66	70	72
1000	1000	1.000	Airflow (l/s)	1999	2499	2999	3499	3998	4498	4998	5498	5997
900	1150		NC	45	47	51	52	57	65	69	74	74

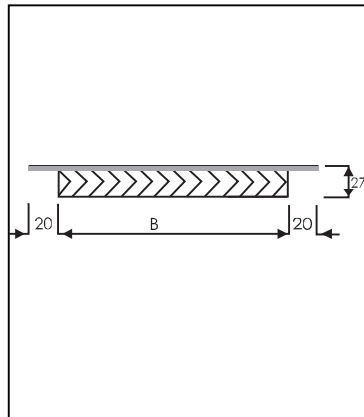


INSTALLATION GUIDE

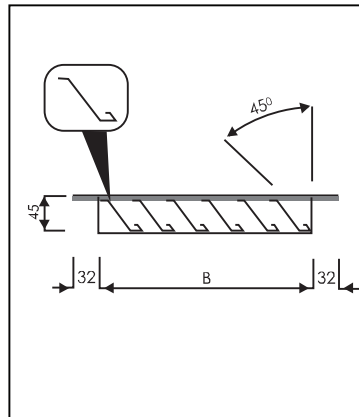
Side View_Curve Blade



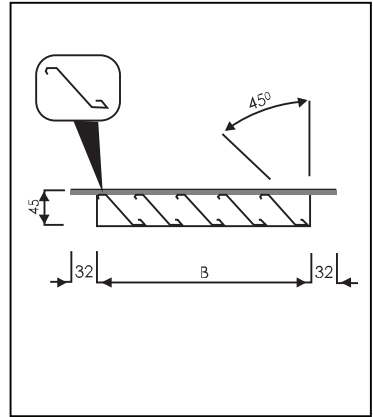
Side View_Transfer Air Grille



Side View_Medium Blade

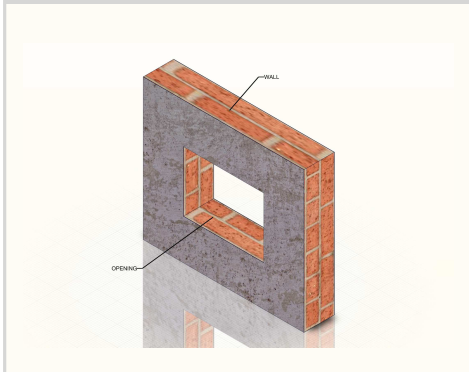


Size View_Weather Proof Vlade

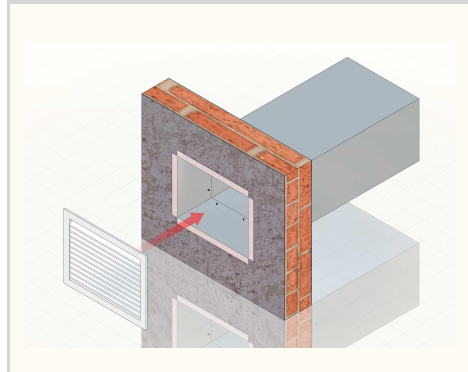


INSTALLATION GUIDES

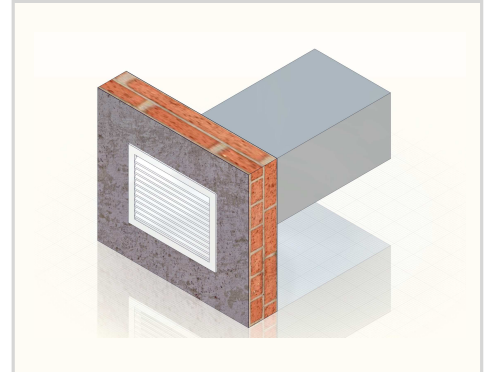
STEP 1



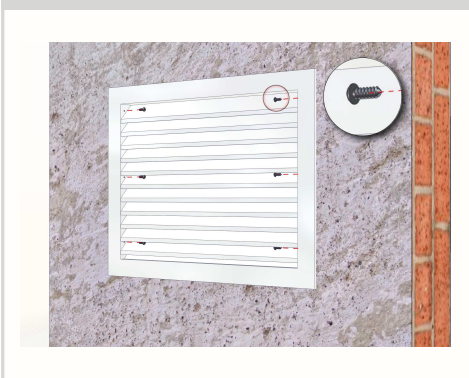
STEP 2



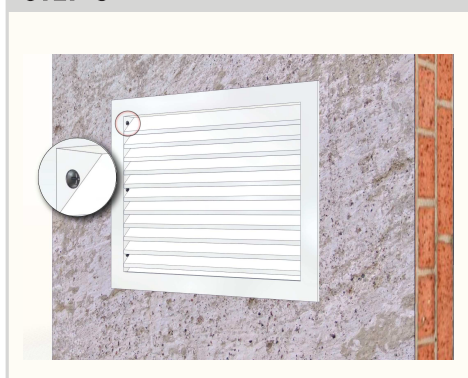
STEP 3



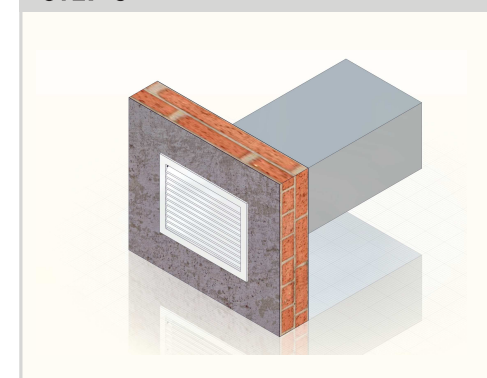
STEP 4

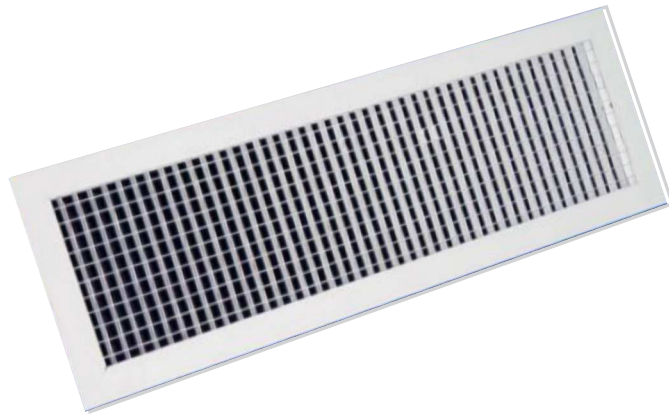


STEP 5



STEP 6





Product Code

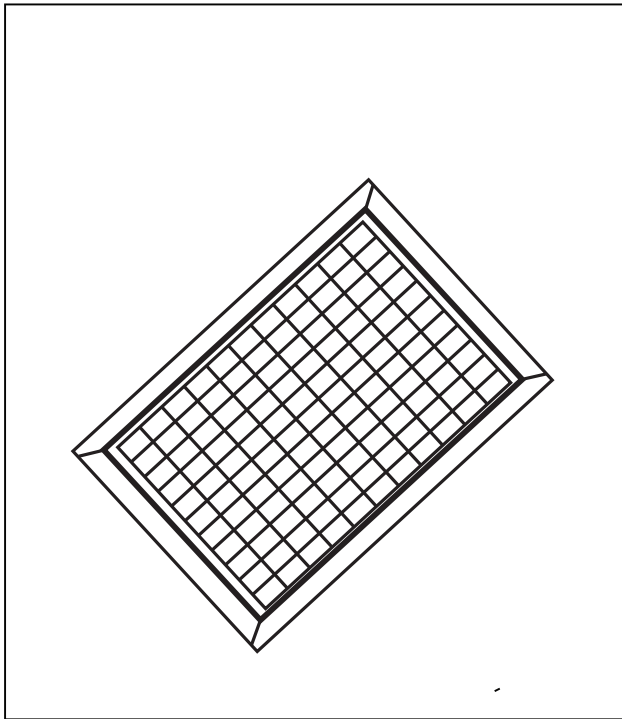
EC

EGG CRATE

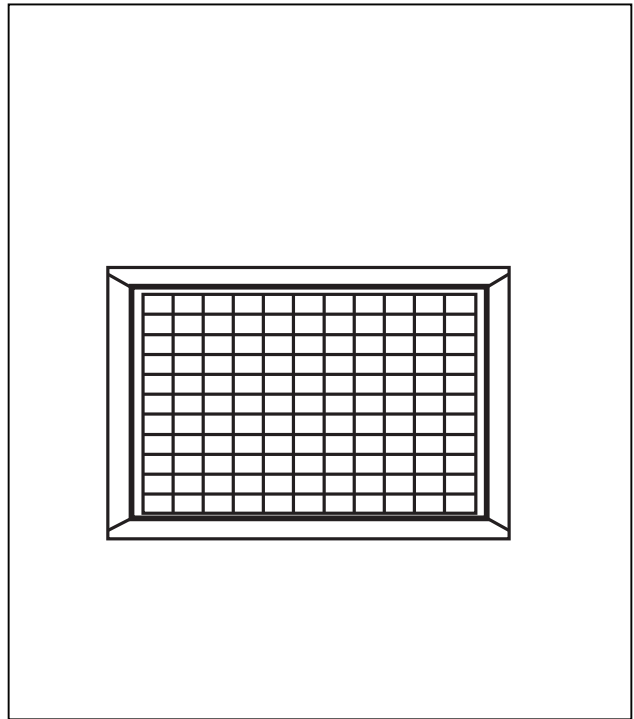
	Galvanised Steel	Aluminium	Stainless Steel 304 / 316
Frame Blade Construction	0.6mm 0.4mm	1.2mm 0.4mm	0.7mm 0.6mm
Square Hole	12mm x 12mm		25mm x 25mm
Width	32mm(Standard)		
Product Thickness	38mm	45mm	50mm
Finishing	FF160 / 23 / CS3 (Standard) (Semi Gloss White Powder Coated Epoxy Polyester)		
Accessories	Opposed Blade Damper Opposed Blade Damper + Collar Round Damper (Helicopter Type) Round Collar Insect Screen Filter Netting Plenum Box		
Type of Product	Fixed Type Swing Type Removable Type		
Product Detail	Minimum Frame Size : 100mm(L) x 100mm(H)(Neck Size) Maximum Frame Size : 2400mm(L) X 1200mm(H)(Neck Size) Minimum Blade Size : 100mm Length Maximum Blade Size : 100mm Length (Approximately 450mm will have blade support at behind) Note Base Deduct 6mm Neck Deduct 12mm		



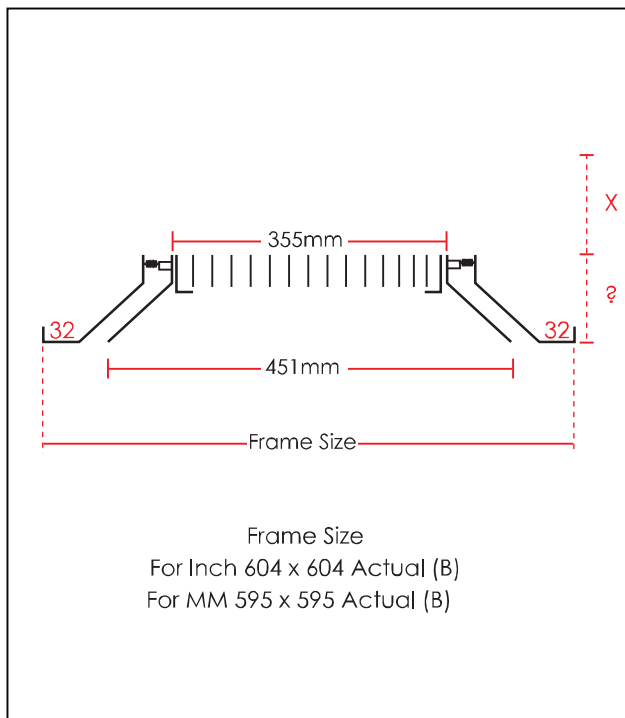
Isometric View



Top View



Side View



Standard Size

Base Size	
inch	mm
12" x 12"	300 x 300
24" x 12"	600 x 300
24" x 24"	600 x 600
48" x 24"	1200 x 600

PERFORMANCE DATA



NECK SIZE (MM)	NECK SIZE (MM)	NECK AREA (m²)	TESTED VELOCITY (m/s)	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
			STATIC PRESSURE (Pa)	7	11	16	22	27	35	41	41	41
250	100	0.025	Airflow (l/s)	50	62	75	87	100	112	125	137	150
200	125		NC	16	22	27	30	33	36	36	38	42
300	100	0.030	Airflow (l/s)	60	75	90	105	120	135	150	165	180
200	150		NC	19	25	30	34	38	40	42	44	49
350	100	0.035	Airflow (l/s)	70	87	105	122	140	157	175	192	210
175	200		NC	22	26	29	32	36	39	42	44	48
400	100	0.040	Airflow (l/s)	80	100	120	140	160	180	200	220	240
175	225		NC	23	27	31	33	38	40	44	48	50
450	100	0.045	Airflow (l/s)	90	112	135	157	180	202	225	247	270
200	225		NC	24	28	32	34	39	41	45	49	51
500	100	0.050	Airflow (l/s)	100	125	150	175	200	225	250	275	300
200	250		NC	26	30	33	36	41	45	47	51	53
550	100	0.055	Airflow (l/s)	110	137	165	192	220	247	275	302	330
200	275		NC	26	30	32	35	41	44	48	52	54
600	100	0.060	Airflow (l/s)	120	150	180	210	240	270	300	330	360
200	300		NC	27	30	33	35	39	42	45	49	54
650	100	0.065	Airflow (l/s)	130	162	195	227	260	292	325	357	390
200	325		NC	28	31	35	35	38	42	44	49	52
700	100	0.070	Airflow (l/s)	140	175	210	245	280	315	350	385	420
200	350		NC	28	32	33	36	36	38	43	47	51
750	100	0.075	Airflow (l/s)	150	187	225	262	300	337	375	412	450
200	375		NC	28	32	34	36	37	38	43	47	53
800	100	0.080	Airflow (l/s)	160	200	240	280	320	360	400	440	480
200	400		NC	30	29	33	34	38	38	43	48	56
850	100	0.085	Airflow (l/s)	170	212	255	297	340	382	425	467	510
200	425		NC	30	29	34	34	38	38	43	48	57
900	150	0.135	Airflow (l/s)	270	337	405	472	540	607	675	742	810
300	450		NC	31	33	34	37	38	41	43	48	59
950	150	0.143	Airflow (l/s)	285	356	427	499	570	641	712	783	855
300	475		NC	31	34	34	37	40	41	49	52	59
1000	250	0.250	Airflow (l/s)	500	625	750	875	1000	1125	1249	1374	1499
500	500		NC	31	32	33	37	40	41	51	52	60
1050	250	0.263	Airflow (l/s)	525	656	787	918	1050	1181	1312	1443	1574
500	525		NC	33	33	36	38	41	46	48	57	61
1100	250	0.275	Airflow (l/s)	550	687	825	962	1100	1237	1374	1512	1649
500	550		NC	33	35	40	44	47	50	55	59	62
1000	350	0.350	Airflow (l/s)	700	875	1050	1224	1399	1574	1749	1924	2099
550	650		NC	34	35	41	44	47	50	55	59	63
1000	450	0.450	Airflow (l/s)	900	1125	1349	1574	1799	2024	2249	2474	2699
600	750		NC	36	35	44	47	49	53	58	59	65
1000	500	0.500	Airflow (l/s)	1000	1249	1499	1749	1999	2249	2499	2749	2999
600	825		NC	38	40	44	46	49	53	58	59	66
1000	650	0.650	Airflow (l/s)	1299	1624	1949	2274	2599	2924	3249	3573	3898
650	1000		NC	38	43	44	46	46	53	59	59	64
1000	750	0.750	Airflow (l/s)	1499	1874	2249	2624	2999	3374	3748	4123	4498
650	1150		NC	40	44	44	47	46	55	59	62	66
1000	800	0.800	Airflow (l/s)	1599	1999	2399	2799	3199	3598	3998	4398	4798
700	1150		NC	40	45	48	47	51	55	59	62	69
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800	1200		NC	46	47	50	52	56	65	66	70	72
1000	1000	1.000	Airflow (l/s)	1999	2499	2999	3499	3998	4498	4998	5498	5997
900	1150		NC	45	47	51	52	57	65	69	74	74



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