

**STANDARD CONSTRUCTION**
**DIFFUSER:**

 6063T5 EXTRUDED ALUMINUM  
 NOMINAL WALL THICKNESS OF 0.60"

**PANEL:**

24 GAUGE GALVANIZED STEEL

**FINISH:**

SKY-WHITE (STANDARD)

AXALTA 100% POLYESTER POWDER COAT

**FEATURES:**

 INSTALLED DIFFUSER FACE IS REMOVABLE BY  
 REPOSITIONING TENSION SPRINGS.  
 FACTORY SET 4-WAY PATTERN CONTROLLERS ADJUSTABLE.  
 OPTIONAL OPPOSED BLADE DAMPER.  
 USE OF DAMPER INCREASES TOTAL HEIGHT TO 4".

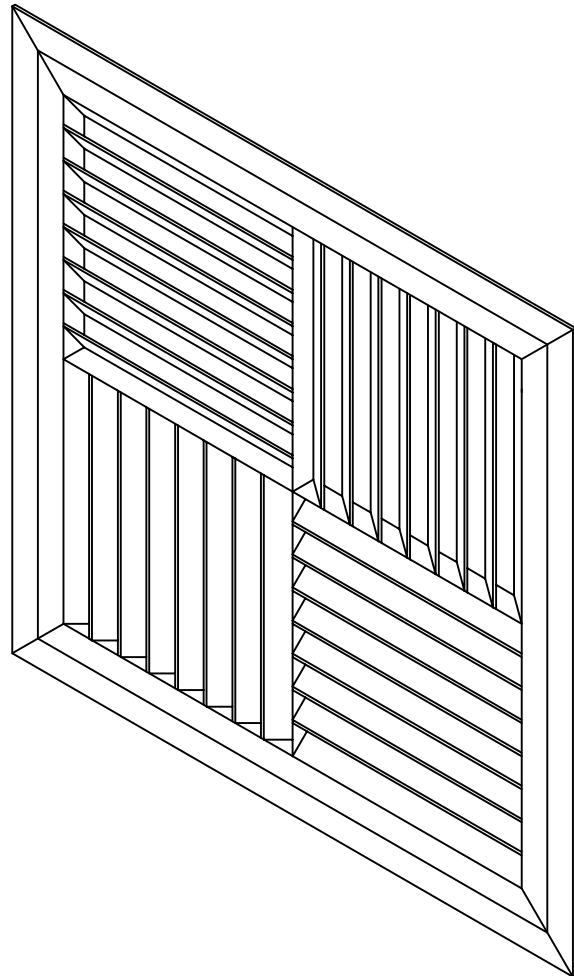
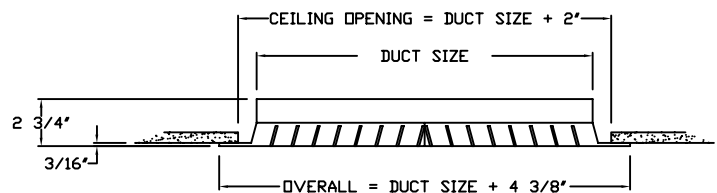
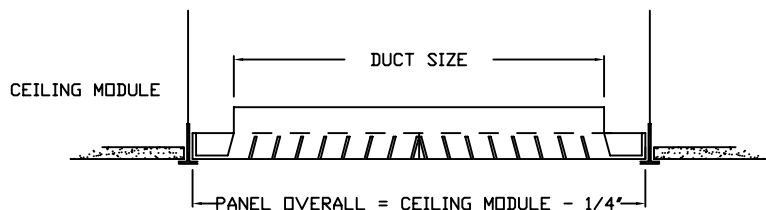
**STANDARD SIZES:**

TYPE 1	TYPE 6
8" X 8"	8" X 8"
10" X 10"	10" X 10"
12" X 12"	12" X 12"
14" X 14"	14" X 14"
16" X 16"	16" X 16"
18" X 18"	18" X 18"
20" X 20"	-
22" X 22"	-
24" X 24"	-

\* **BORDER TYPE 1:**  
 NECK SIZES 8" X 8" MIN. 24" X 24" MAX.

\* **BORDER TYPE 6:**  
 8" X 8" MIN. 16" X 16" MAX.  
 ON 24" X 24" PANEL SIZE, 18" X 18" WITH NO PANEL

JOB NAME:
LOCATION:
ARCHITECT:
ENGINEER:
CONTRACTOR:
CONTACT GRILLE TECH INC. FOR ADDITIONAL INFORMATION OR WITH SPECIAL REQUIREMENTS.  5101 NW 36TH AVE MIAMI, FL 33142 PHONE: 305-537-0053 FAX: 305-537-0064  WEB: WWW.GRILLETECHINC.COM EMAIL: SALES@GRILLETECHINC.COM


**TYPE 1: SURFACE MOUNT**

**TYPE 6: T-BAR (PANEL TYPE)**

**MCD**

 MODULAR CORE CEILING DIFFUSER  
 PRODUCT SPECIFICATIONS

NOTE: ALL DRAWINGS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

**MC Modular Core 1-Way**

Neck Velocity	FPM	200	300	400	500	600	700
NECK SIZE	Ps	.007	.020	.030	.050	.070	.100
	Pt	.014	.030	.050	.080	.118	.160
<b>8 x 8"</b> Ak .196	CFM	90	130	175	220	265	310
	Throw	5-8	7-10	10-14	12-16	12-18	14-20
	NC	<20	<20	<20	23	28	33
<b>10 x 10"</b> Ak .312	CFM	140	205	275	345	415	485
	Throw	7-10	9-14	12-18	14-20	16-24	19-26
	NC	<20	<20	<20	23	28	33
<b>12 x 12"</b> Ak .444	CFM	200	300	400	500	600	700
	Throw	8-12	11-16	14-20	16-24	19-28	20-30
	NC	<20	<20	<20	25	31	36
<b>14 x 14"</b> Ak .604	CFM	270	405	545	680	815	950
	Throw	9-14	13-20	15-24	20-28	21-34	24-36
	NC	<20	<20	21	27	33	38
<b>16 x 16"</b> Ak .792	CFM	355	530	710	855	1070	1245
	Throw	9-16	15-22	18-28	21-32	25-38	26-40
	NC	<20	>20	21	28	33	38
<b>18 x 18"</b> Ak .995	CFM	450	670	900	1120	1345	1570
	Throw	11-18	17-24	20-30	24-36	27-42	30-46
	NC	<20	<20	22	29	34	39
<b>20 x 20"</b> Ak 1.236	CFM	555	830	1110	1390	1670	1945
	Throw	14-20	19-26	23-32	25-40	30-46	31-48
	NC	<20	<20	23	30	35	40
<b>22 x 22"</b> Ak 1.492	CFM	670	1010	1345	1680	2015	2350
	Throw	15-22	21-30	25-36	31-44	32-50	35-54
	NC	<20	<20	23	31	36	41
<b>24 x 24"</b> Ak 1.776	CFM	800	1200	1600	2000	2400	2800
	Throw	16-24	23-32	27-40	31-48	35-56	39-60
	NC	<20	<20	26	32	38	42

**Notes:**

1. For specific information on allowable noise levels, consult the latest edition of ASHRAE Guide & Data Book: "Fundamentals and Equipment."

**MC Modular Core 2-Way, 2-Way Corner**

Neck Velocity	FPM	200	300	400	500	600	700
NECK SIZE	Ps	.007	.020	.030	.050	.070	.100
	Pt	.014	.030	.050	.080	.118	.160
8 x 8" Ak .196	CFM	90	130	175	220	265	310
	Throw	3-6	5-7	6-10	7-11	8-13	9-14
	NC	<20	<20	<20	23	28	33
10 x 10" Ak .312	CFM	140	205	275	345	415	485
	Throw	5-7	6-10	7-13	9-14	10-17	12-18
	NC	<20	<20	<20	23	28	33
12 x 12" Ak .444	CFM	200	300	400	500	600	700
	Throw	6-8	7-11	9-14	10-17	12-20	13-21
	NC	<20	<20	<20	25	31	36
14 x 14" Ak .604	CFM	270	405	545	680	815	950
	Throw	7-10	9-14	10-17	14-20	15-24	14-25
	NC	<20	<20	21	27	33	36
16 x 16" Ak .792	CFM	355	530	710	855	1070	1245
	Throw	7-11	11-16	13-20	15-22	16-27	18-28
	NC	<20	<20	21	28	33	38
18 x 18" Ak .995	CFM	450	670	900	1120	1345	1570
	Throw	7-13	12-17	14-21	16-25	18-30	20-32
	NC	<20	<20	22	29	34	39
20 x 20" Ak 1.236	CFM	555	830	1110	1390	1670	1945
	Throw	9-14	12-18	15-22	17-28	20-32	21-34
	NC	<20	<20	23	30	35	40
22 x 22" Ak 1.492	CFM	670	1010	1345	1680	2015	2350
	Throw	9-16	15-21	17-25	20-31	21-35	24-38
	NC	<20	<20	23	31	36	41
24 x 24" Ak 1.776	CFM	800	1200	1600	2000	2400	2800
	Throw	10-17	16-22	19-28	21-34	24-39	27-42
	NC	<20	<20	25	32	38	42

**Notes:**

1. For specific information on allowable noise levels, consult the latest edition of ASHRAE Guide & Data Book: "Fundamentals and Equipment."

## MC Modular Core 3-Way

Neck Velocity	FPM	200	300	400	500	600	700
NECK SIZE	Ps	.007	.020	.030	.050	.070	.100
	Pt	.014	.030	.050	.080	.118	.160
<b>8 x 8"</b>	CFM	90	130	175	220	265	310
	Throw A	2-4	3-5	4-7	5-8	6-9	7-10
	Throw B	3-6	5-7	7-10	8-11	9-13	10-14
	Ak .196 NC	<20	<20	<20	23	28	33
<b>10 x 10"</b>	CFM	140	205	275	345	415	485
	Throw A	3-5	4-7	5-9	6-10	7-12	10-13
	Throw B	5-7	6-10	7-13	9-14	10-17	13-18
	Ak .312 NC	<20	<20	<20	23	28	33
<b>12 x 12"</b>	CFM	200	300	400	500	600	700
	Throw A	3-6	5-8	7-10	8-12	9-14	10-15
	Throw B	5-8	7-11	9-14	11-17	12-20	14-21
	Ak .444 NC	<20	<20	<20	25	31	36
<b>14 x 14"</b>	CFM	270	405	545	680	815	950
	Throw A	4-7	6-10	8-12	9-14	11-17	12-18
	Throw B	7-10	9-14	11-17	13-20	15-24	16-25
	Ak .604 NC	<20	<20	21	27	33	38
<b>16 x 16"</b>	CFM	355	530	710	855	1070	1245
	Throw A	5-8	7-11	8-14	11-17	12-19	13-20
	Throw B	6-11	10-16	12-20	15-22	16-27	17-28
	Ak .792 NC	<20	<20	21	28	33	38
<b>18 x 18"</b>	CFM	450	670	900	1120	1345	1570
	Throw A	5-9	8-12	9-15	11-18	12-21	14-22
	Throw B	7-13	12-17	14-21	16-25	19-30	22-32
	Ak .995 NC	<20	<20	22	29	34	39
<b>20 x 20"</b>	CFM	555	830	1110	1390	1670	1945
	Throw A	6-10	9-13	12-16	14-20	15-23	16-25
	Throw B	9-14	13-18	17-22	19-28	20-32	21-34
	Ak 1.236 NC	<20	<20	23	30	35	40
<b>22 x 22"</b>	CFM	670	1010	1345	1680	2015	2350
	Throw A	7-11	10-15	12-18	14-22	16-25	17-26
	Throw B	6-16	15-21	17-25	21-31	23-35	25-38
	Ak 1.492 NC	<20	<20	23	31	36	41
<b>24 x 24"</b>	CFM	800	1200	1600	2000	2400	2800
	Throw A	8-12	11-16	15-20	16-24	18-28	20-30
	Throw B	10-17	16-22	20-28	21-34	25-39	27-42
	Ak 1.776 NC	<20	<20	26	32	38	42

**Notes:**

1. For specific information on allowable noise levels, consult the latest edition of ASHRAE Guide & Data Book: "Fundamentals and Equipment."

**MC Modular Core 4-Way**

Neck Velocity	FPM	200	300	400	500	600	700
NECK SIZE	Ps	.007	.020	.030	.050	.070	.100
	Pt	.014	.030	.050	.080	.118	.160
<b>8 x 8"</b> Ak .196	CFM	90	130	175	220	265	310
	Throw	2-4	3-5	4-7	5-8	6-9	7-10
	NC	<20	<20	<20	23	28	33
<b>10 x 10"</b> Ak .312	CFM	140	205	275	345	415	485
	Throw	3-5	4-7	6-9	7-10	8-12	9-13
	NC	<20	<20	<20	23	28	33
<b>12 x 12"</b> Ak .444	CFM	200	300	400	500	600	700
	Throw	3-6	5-8	6-10	7-12	8-14	10-15
	NC	<20	<20	<20	25	31	36
<b>14 x 14"</b> Ak .604	CFM	270	405	545	680	815	950
	Throw	4-7	6-10	7-12	9-14	10-17	12-18
	NC	<20	<20	21	27	33	38
<b>16 x 16"</b> Ak .792	CFM	355	530	710	855	1070	1245
	Throw	5-8	7-11	8-14	11-15	12-19	13-20
	NC	<20	<20	21	26	33	38
<b>18 x 18"</b> Ak .995	CFM	450	670	900	1120	1345	1570
	Throw	6-9	9-12	11-15	12-18	14-21	15-23
	NC	<20	<20	22	29	34	39
<b>20 x 20"</b> Ak 1.236	CFM	555	830	1110	1390	1670	1945
	Throw	6-10	9-13	11-16	13-20	15-23	16-24
	NC	<20	<20	23	30	35	40
<b>22 x 22"</b> Ak 1.492	CFM	670	1010	1345	1680	2015	2350
	Throw	7-11	11-15	12-19	14-22	16-25	18-27
	NC	<20	<20	23	31	36	41
<b>24 x 24"</b> Ak 1.776	CFM	800	1200	1600	2000	2400	2800
	Throw	8-12	12-16	15-20	17-24	18-28	20-30
	NC	<20	<20	26	32	38	42

**Notes:**

1. For specific information on allowable noise levels, consult the latest edition of ASHRAE Guide & Data Book: "Fundamentals and Equipment."