

STANDARD CONSTRUCTION
FRAME:

6063T5 EXTRUDED ALUMINUM.
 NOMINAL WALL THICKNESS OF 0.075"
 7/8" FLANGE

BLADES:

6063T5 EXTRUDED ALUMINUM.
 NOMINAL WALL THICKNESS OF 0.092"
 SPACED AT APPROX. 1/2" CENTERS.
 ALL SIZES INCLUDE REMOVABLE CORE.

STANDARD NECK SIZES:

LISTED SIZE - 1/2"

STANDARD FACE SIZES:

HEIGHT: 2" MINIMUM, 22" MAXIMUM
 WIDTH: 6" MINIMUM, 72" MAXIMUM

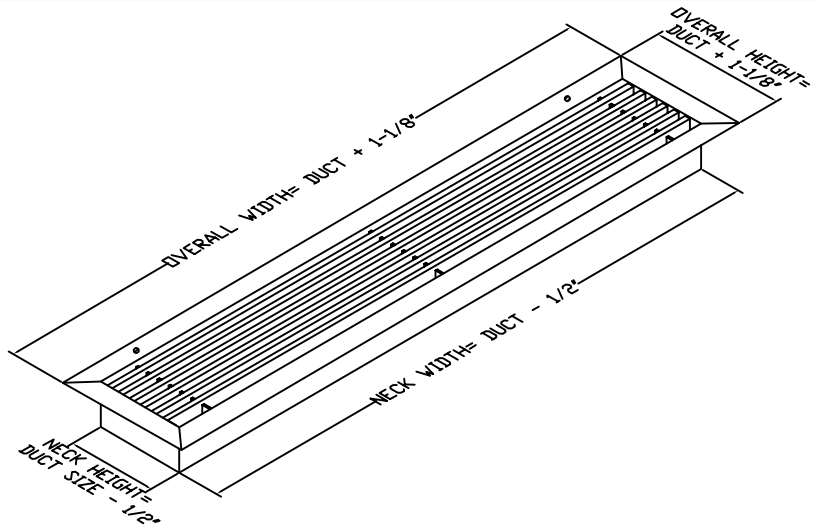
FINISH:

SKY WHITE POWDER COAT (STANDARD)
 MILL FINISH (OPTIONAL)

AXALTA 100% POLYESTER POWDER COATING GIVES AN ATTRACTIVE BRIGHT WHITE FINISH AND PROVIDES ADDITIONAL PROTECTION FROM AGING AND WEAR.

OPTIONS:

STEEL OPPOSED BLADE DAMPER (OBD)
 *FOR MORE DETAILS SEE SUBMITTAL "OBD"



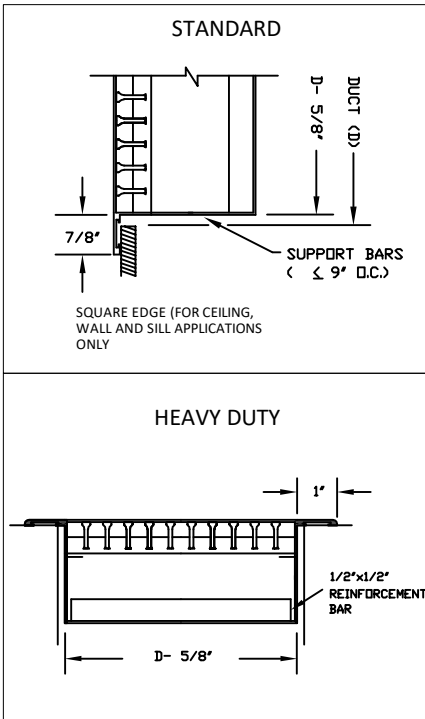
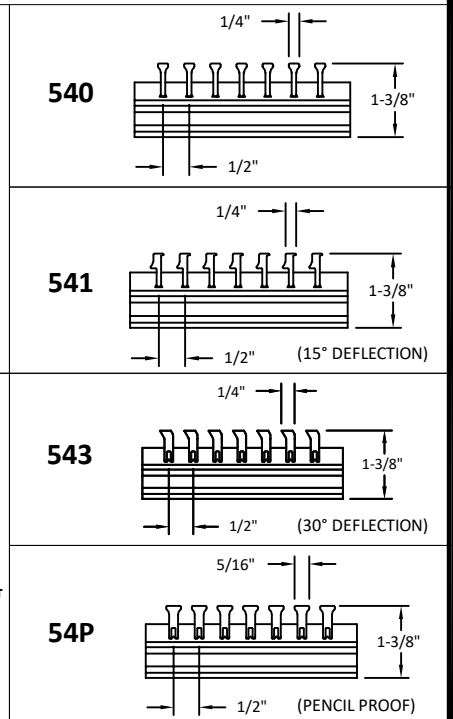
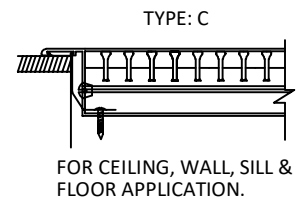
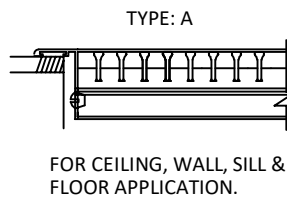
MODELS AVAILABLE	
GRILLE MODELS	REGISTER MODELS
BGO 540 (0° DEFLECTION)	BGD 540 (0° DEFLECTION)
BGO 541 (15° DEFLECTION)	BGD 541 (15° DEFLECTION)
BGO 54P (PENCIL PROOF)	BGD 54P (PENCIL PROOF)
BGO 543 (30° DEFLECTION)	BGD 543 (30° DEFLECTION)

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
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FLANGE

CORE STYLES

FASTENING

BG (540 SERIES)

LINEAR BAR TYPE
 GRILLES/REGISTERS

DRAWN BY: MR	DATE: 5/18/17	SCALE: NOT TO SCALE	DRAWING NO.
CHECKED BY: IG	DATE: 5/31/17	REVISION: 5/18/17	BG540

Bar Grille Sidewall Supply

Sidewall Supply: 0°, 15°, and 30° Deflection

Neck Vel.	FPM	500	700	900	1000	1100	1200	1300
Neck Height	Ps	.012	.024	.040	.050	.060	.072	.084
1 1/2	CFM/Ft	20	28	36	40	44	48	52
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	8-11	11-16	13-18	14-20	15-22	17-24	17-25
	Drop	4	5	5	4.5	5	5	5
	NC	<20	<20	20	23	26	28	31
2	CFM/Ft	30	42	54	60	66	72	78
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	7-10	10-15	13-18	14-20	15-22	17-24	17-25
	Drop	4	5	5	5.5	5.5	5.5	6
	NC	<20	<20	20	23	26	29	31
2 1/2	CFM/Ft	45	63	81	90	99	108	117
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	8-11	11-16	14-20	16-23	17-24	18-26	20-28
	Drop	4	5	5	5.5	5.5	5	6
	NC	<20	<20	20	23	26	29	31
3	CFM/Ft	55	77	99	110	121	132	143
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	8-12	13-18	15-22	17-25	18-26	20-28	21-30
	Drop	5.5	6	6	6	6.5	6	6
	NC	<20	<20	20	23	26	29	31
3 1/2	CFM/Ft	65	91	117	130	143	156	169
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	9-13	13-19	16-23	18-26	20-28	21-30	22-32
	Drop	5.5	6	6	6.5	6.5	6	6
	NC	<20	<20	20	23	26	29	31
4	CFM/Ft	80	112	144	160	176	192	208
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	10-14	15-22	17-25	20-29	22-32	24-34	25-26
	Drop	5.5	6	6	6.5	6.5	7	7
	NC	<20	<20	20	23	26	29	31
6	CFM/Ft	125	175	225	250	275	300	325
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	10-15	15-22	19-27	22-31	23-33	24-35	27-38
	Drop	5.5	6	6	6.5	6.5	7	8
	NC	<20	<20	20	23	26	29	31
8	CFM/Ft	175	245	315	350	385		
	Pt	.016	.031	.051	.062	.075		
	Throw/Ft	12-17	17-24	20-28	23-33	24-34		
	Drop	5.5	6	6.5	6.5	7		
	NC	<20	<20	20	23	26		
10	CFM/Ft	225	315	405	450			
	Pt	.016	.031	.051	.062			
	Throw/Ft	13-19	20-28	23-33	26-37			
	Drop	7.5	8	8.5	8.5			
	NC	<20	<20	20	23			
12	CFM/Ft	275	385	495				
	Pt	.016	.031	.051				
	Throw/Ft	15-21	24-35	27-38				
	Drop	7.5	8	9				
	NC	<20	<20	20				

Notes:

1. Data based on bar grille installed in a sidewall 1 ft. below a 9 ft. ceiling, supplying air across a unobstructed ceiling surface.
2. Throw based on a 4 ft. grille. For less than 4 ft., subtract 20% per foot shorter. For longer, add 20% up to 60%.
3. Drop based on 0° deflection supply air with 20° cooling differential. Drop for 15° and 30° deflection is approximately 40% less than shown (Blade Deflection to ceiling).
4. NC based on 4 ft. grille. For larger grilles, add 1.5 NC per foot to a max 5 NC. For smaller than 4 ft., subtract 3 NC per foot.

Bar Grille Sill Supply

Sill Supply: 0°, 15°, and 30° Deflection

Neck Vel.	FPM	500	700	900	1000	1100	1200	1300
Neck Height	Ps	.012	.024	.040	.050	.060	.072	.084
1 1/2	CFM/Ft	20	28	36	40	44	48	52
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	6-9	9-13	10-14	11-16	13-18	13-19	14-20
	NC	<20	<20	20	23	26	29	31
2	CFM/Ft	30	42	54	60	66	72	78
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	5-8	8-12	10-14	11-16	13-18	13-19	14-20
	NC	<20	<20	20	23	26	29	31
2 1/2	CFM/Ft	45	63	81	90	99	108	117
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	6-9	9-13	11-16	13-18	13-19	15-21	15-22
	NC	<20	<20	20	23	26	29	31
3	CFM/Ft	55	77	99	110	121	132	143
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	7-10	10-14	13-18	14-20	15-21	15-22	17-24
	NC	<20	<20	20	23	26	29	31
3 1/2	CFM/Ft	65	91	117	130	143	156	169
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	7-10	10-15	13-18	15-21	15-22	17-24	18-26
	NC	<20	<20	20	23	26	29	31
4	CFM/Ft	80	112	144	160	176	192	208
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	8-11	13-18	14-20	16-23	18-26	19-27	20-29
	NC	<20	<20	20	23	26	29	31
6	CFM/Ft	125	175	225	250	275	300	325
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	8-12	13-18	15-22	17-25	18-26	20-28	21-30
	NC	<20	<20	20	23	26	29	31
8	CFM/Ft	175	245	315	350	385		
	Pt	.016	.031	.051	.062	.075		
	Throw/Ft	10-14	13-19	15-22	18-26	19-27		
	NC	<20	<20	20	23	26		
10	CFM/Ft	225	315	405	450			
	Pt	.016	.031	.051	.062			
	Throw/Ft	10-15	15-22	18-26	21-30			
	NC	<20	<20	20	23			
12	CFM/Ft	275	385	495				
	Pt	.016	.031	.051				
	Throw/Ft	12-17	21-31	22-38				
	NC	<20	<20	20				

Notes:

1. Data based on a bar grille installed horizontally on the top surface of a 30" high sill enclosure and supplying air vertically toward a 9 ft ceiling.
2. Throw values shown are the sum of vertical distance from the grille to ceiling plus the horizontal distance the mixed air moves out across the ceiling. For comfort throw values selected should reach the ceiling and move out horizontally a distance of 10 to 15 feet from the active wall.
3. NC shown is based on a 4ft grille. NC for larger units, add 1.5 NC per foot over 4' up to 5 NC larger than shown. For shorter than 4', subtract 3 NC per foot under 4'.

Bar Grille Floor Supply

Floor Supply: 0°, 15°, and 30° Deflection

Neck Vel.	FPM	500	700	900	1000	1100	1200	1300
Neck Height	Ps	.012	.024	.040	.050	.060	.072	.084
1 1/2	CFM/Ft	20	28	36	40	44	48	52
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	6-9	9-13	10-14	11-16	13-18	13-19	14-20
	NC	<20	<20	20	23	26	29	31
2	CFM/Ft	30	42	54	60	66	72	78
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	5-8	8-12	10-14	11-16	13-18	13-19	14-20
	NC	<20	<20	20	23	26	29	31
2 1/2	CFM/Ft	45	63	81	90	99	108	117
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	6-9	9-13	11-16	13-18	13-19	15-21	15-22
	NC	<20	<20	20	23	26	29	31
3	CFM/Ft	55	77	99	110	121	132	143
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	7-10	10-14	13-18	14-20	15-21	15-22	17-24
	NC	<20	<20	20	23	26	29	31
3 1/2	CFM/Ft	65	91	117	130	143	156	169
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	7-10	10-15	13-18	15-21	15-22	17-24	18-26
	NC	<20	<20	20	23	26	29	31
4	CFM/Ft	80	112	144	160	176	192	208
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	8-11	13-18	14-20	16-23	18-26	19-27	20-29
	NC	<20	<20	20	23	26	29	31
6	CFM/Ft	125	175	225	250	275	300	325
	Pt	.016	.031	.051	.062	.075	.090	.105
	Throw/Ft	8-12	13-18	15-22	17-25	18-26	20-28	21-30
	NC	<20	<20	20	23	26	29	31
8	CFM/Ft	175	245	315	350	385		
	Pt	.016	.031	.051	.062	.075		
	Throw/Ft	10-14	13-19	15-22	18-26	19-27		
	NC	<20	<20	20	23	26		
10	CFM/Ft	225	315	405	450			
	Pt	.016	.031	.051	.062			
	Throw/Ft	10-15	15-22	18-26	21-30			
	NC	<20	<20	20	23			
12	CFM/Ft	275	385	495				
	Pt	.016	.031	.051				
	Throw/Ft	12-17	22-31	21-30				
	NC	<20	<20	20				

Notes:

1. Data based on a pencil proof bar grille installed in the floor 6" from the wall surface and supplying air vertically toward a 9' ceiling.
2. Throw values shown are the sum of the vertical distance from the face of the grille to the ceiling, plus the required horizontal distance the mixed air mass moves out across the ceiling. For comfort conditions, throw values should be selected to reach the ceiling and move out horizontally across the ceiling a distance of 10 to 15 feet from the active wall.
3. NC shown is based on a 4 foot grille width. To find NC for units larger than 4 foot, add 1.5 NC for each foot over 4 foot up to 5 NC larger than shown. For NC on units smaller than 4 foot subtract 3 NC per foot.

Bar Grille Floor Return Supply

Return: 0°, 15°, and 30° Deflection

NECK VEL.	FPM	150	200	250	300	350	400	450	500
NECK HEIGHT	Ps(-)	.020	.030	.040	.060	.080	.100	.120	.150
1 1/2	CFM	20	26	33	39	46	52	59	65
	NC	<20	<20	20	25	28	31	35	45
2	CFM	27	36	45	54	63	72	81	90
	NC	<20	<20	20	35	40	45	50	55
2 1/2	CFM	35	46	58	69	81	92	104	115
	NC	<20	<20	20	35	40	45	50	55
3	CFM	40	54	68	81	94	105	122	135
	NC	<20	<20	20	35	40	45	50	55
3 1/2	CFM	45	60	75	90	105	120	135	150
	NC	<20	<20	20	35	40	45	50	55
4	CFM	51	68	85	102	119	136	153	170
	NC	<20	<20	20	35	40	45	50	55
6	CFM	69	92	115	138	161	184	207	230
	NC	<20	<20	20	35	40	45	50	55
8	CFM	86	114	143	171	200	228	257	285
	NC	<20	<20	20	35	40	45	50	55
10	CFM	102	136	170	204	238	272	306	340
	NC	<20	<20	20	35	40	45	50	55
12	CFM	114	152	190	228	266	304	342	380
	NC	<20	<20	20	35	40	45	50	55

Notes:

1. Neck Velocity and CFM shown are per linear foot of width.
2. To find CFM for 30° and PP deflections. Multiply CFM shown x .95.