

DOUBLE DEFLECTION GRILLE GLDD Series

GL270, GS277 renamed to be GLDD series



APPLICATION

The most efficient and silent grille in the industry for sidewall mounting, recommended for application requiring control of both air pattern spread and drop plus an equal distribution over the entire face of the grille.

FEATURED STANDARD CONSTRUCTION

•FRAME :

- Constructed from heavy extruded aluminum with 1 $\frac{3}{16}$ " (30 mm) flange face border with a 1" (25mm) overlap margin.
- Interlocked corners and mechanically stacked to form a rigid frame.

•BLADES :

- Constructed of solid extruded aluminum with an airfoil cross section, 3/4" spaced from center to center.
- Easy adjustment without any special key or tool.
- Front and Rear blades are securely held in place with tension wire.
- GLDD-H :Front blades horizontal individually adjustable, Rear blades vertical individually adjustable.
- GLDD-V :Front blades vertical individually adjustable, Rear blades horizontal individually adjustable.

•SIZES :

- Minimum length of 4" and 4" height.

•FINISH :

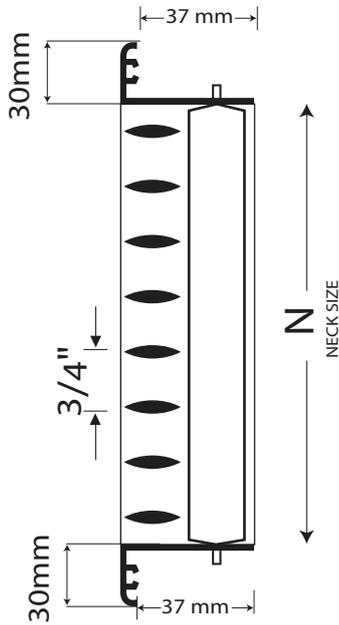
- Standard finish is white color (RAL 9010).

OPTIONS

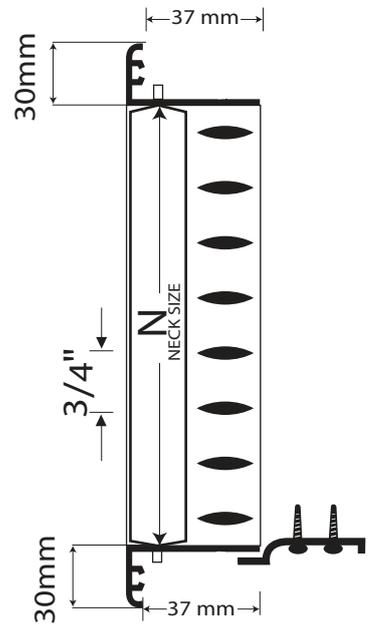
- With Concealed clips, concealed screw fastening or countersunk screw in the border for fixation. *(Please refer to Page 3)*
- Other colors available upon request.
- Plastic bearing for fixing blade instead of tension wire.
- With Foam gasket on the back of the frame.
- With Opposed blade damper.
- With Equalizing grid.
- LS Light Shield black color (RAL9005)
- BO Metal blank-off black color (RAL9005)
- Insect Screen

N.B: A 1 cm clearance is deducted from your order neck size.

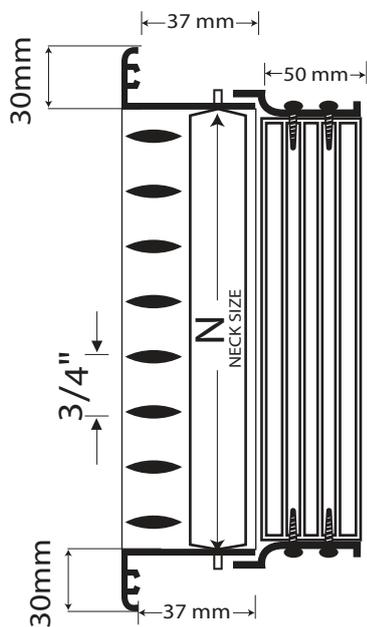
DIMENSIONS & ILLUSTRATIONS



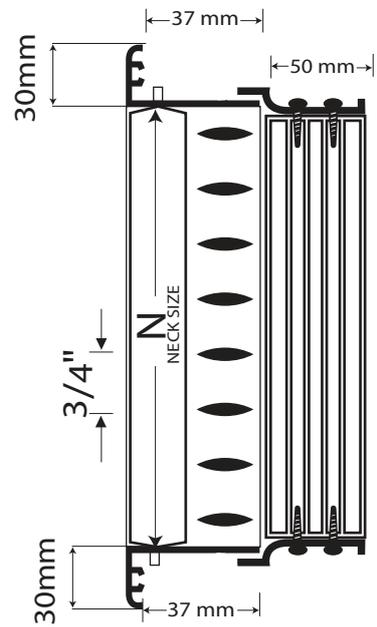
Front Blades Horizontal & Rear blades Vertical



Front Blades Vertical & Rear blades Horizontal



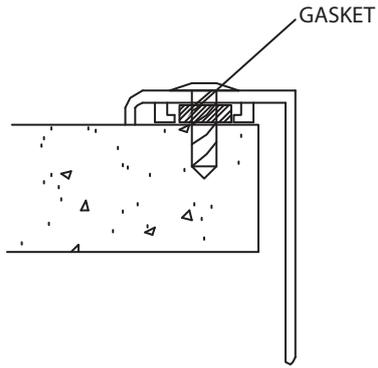
Front Blades Horizontal & Rear blades Vertical
with Opposed Damper



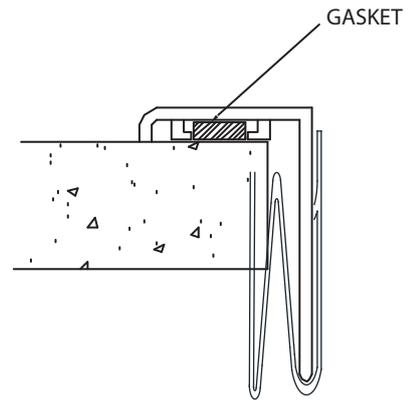
Front Blades Vertical & Rear blades Horizontal
with Opposed Damper

N.B: This drawing shows the actual neck size where a 1cm clearance was deducted from order neck size

INSTALLATION DETAILS



SCREW HOLES



CONCEALED CLIPS

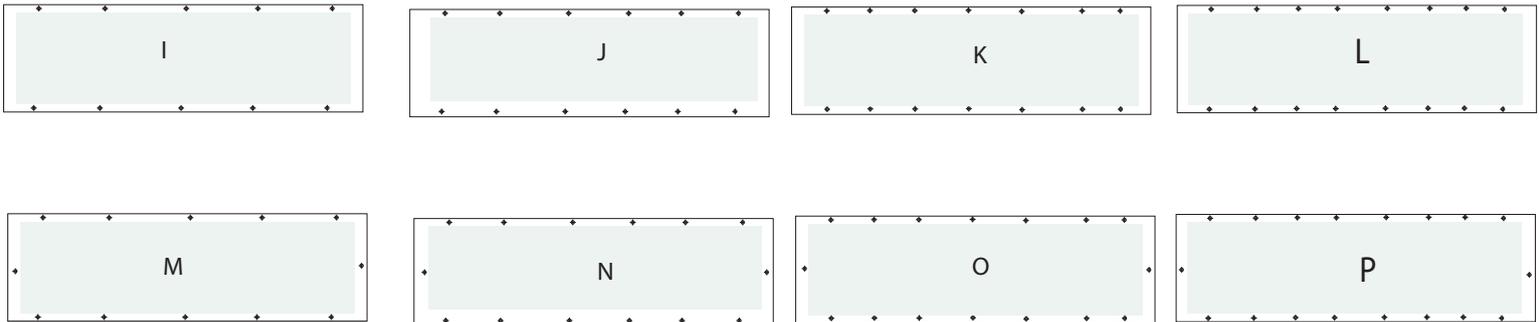
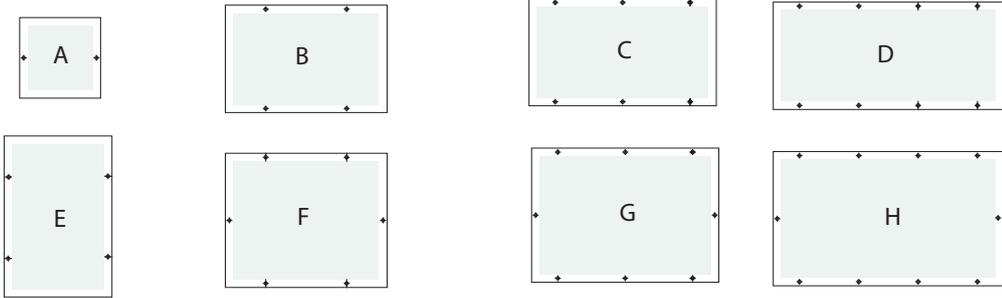
DOUBLE DEFLECTION GRILLE

GLDD Series

INSTALLATION DETAILS

Screw hole Position

	4" (10)	14" (35)	16" (40)	22" (55)	24" (60)	36" (90)	38" (95)	54" (135)	56" (140)	78" (195)	80" (200)	102" (255)	104" (260)	126" (315)	128" (320)	144" (360)
4" (10)																
		A	B		C		D			I	J		K		L	
22" (55)																
24" (60)																
		E	F		G		H			M	N		O		P	
60" (150)																





DOUBLE DEFLECTION GRILLE

GLDD Series

PERFORMANCE DATA

CFM (L/s)	Grilles Sizes in Inch (mm)	7x4 (1780x102) 6x5 (152x127)			8x4 (203x102) 7x5 (178x127) 6x6 (152x152)			8x5 (203x127) 7x6 (178x152) 10x4 (254x102)			12x4 (305x102) 10x5 (254x127) 8x6 (203x152)			16x4 (406x102) 12x5 (305x127) 10x6 (254x152)			
		DEFLECTION	0°	22½°	45°	0°	22½°	45°	0°	22½°	45°	0°	22½°	45°	0°	22½°	45°
		AK (ft²)	0.12	0.117	0.105	0.144	0.14	0.12	0.176	0.17	0.15	0.21	0.2	0.18	0.27	0.26	0.24
50 (24)	Velocity- Fpm (m/s)	415 (2.1)	425 (2.2)	475 (2.4)	345 (1.7)	355 (1.8)	415 (2.1)										
	T.P - In Wg (Pa)	0.008 (2)	0.01 (3)	0.016 (4)	0.006 (2)	0.007 (2)	0.012 (3)										
	Throw(Ft)@100,50Fpm	7-14	6-12	4-9	7-13	5-11	3-8										
	NC	<15	<15	<15	<15	<15	<15										
75 (35)	Velocity- Fpm (m/s)	625 (3.2)	640 (3.3)	715 (3.6)	520 (2.6)	535 (2.7)	625 (3.2)	425 (2.2)	445 (2.3)	500 (2.5)	360 (1.8)	375 (1.9)	415 (2.1)	280 (1.4)	290 (1.5)	315 (1.6)	
	T.P - In Wg (Pa)	0.019 (5)	0.022 (6)	0.036 (9)	0.013 (3)	0.016 (4)	0.026 (7)	0.009 (2)	0.011 (3)	0.017 (4)	0.006 (2)	0.007 (2)	0.012 (3)	0.009 (2)	0.009 (2)	0.021 (5)	
	Throw(Ft)@100,50Fpm	10-18	9-16	6-12	9-16	8-15	5-10	5-8	4-7	3-5	8-15	6-11	5-7	7-20	6-12	4-9	
	NC	<15	<15	16	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	
100 (47)	Velocity- Fpm (m/s)	835 (4.2)	855 (4.3)	950 (4.8)	695 (3.5)	715 (3.6)	835 (4.2)	570 (2.9)	590 (3)	665 (3.4)	480 (2.4)	500 (2.5)	555 (2.8)	370 (1.9)	385 (2)	415 (2.1)	
	T.P - In Wg (Pa)	0.033 (8)	.039 (10)	.064 (16)	0.023 (6)	0.028 (7)	.046 (12)	0.016 (4)	0.019 (5)	0.031 (8)	0.011 (3)	0.013 (3)	0.021 (5)	0.013 (3)	0.017 (4)	0.027 (7)	
	Throw(Ft)@100,50Fpm	14-22	12-19	9-15	12-20	10-17	8-13	10-18	8-15	6-10	11-18	8-14	6-9	9-23	8-14	5-10	
	NC	<15	<15	19	<15	<15	18	<15	<15	16	<15	<15	<15	<15	<15	<15	
150 (71)	Velocity- Fpm (m/s)	1250 (6.4)	1280 (6.5)	1430 (7.3)	1040 (5.3)	1070 (5.4)	1250 (6.4)	850 (4.3)	880 (4.5)	1000 (5.1)	715 (3.6)	750 (3.8)	835 (4.2)	555 (2.8)	580 (2.9)	625 (3.2)	
	T.P - In Wg (Pa)	0.075 (19)	0.089 (22)	0.145 (36)	0.053 (13)	0.063 (16)	0.104 (26)	0.035 (9)	0.043 (11)	0.069 (17)	0.025 (6)	0.03 (8)	0.048 (12)	0.02 (5)	0.025 (6)	0.041 (10)	
	Throw(Ft)@100,50Fpm	21-32	19-27	13-22	19-29	16-25	11-18	17-26	14-22	10-15	16-25	13-20	9-13	14-28	12-19	8-13	
	NC	21	21	24	19	20	22	15	16	19	<15	<15	17	<15	<15	<15	
200 (94)	Velocity- Fpm (m/s)	1665 (8.5)	1710 (8.7)	1905 (9.7)	1390 (7.1)	1430 (7.3)	1665 (8.5)	1135 (5.8)	1175 (6)	1335 (6.8)	950 (4.8)	1000 (5.1)	1110 (5.6)	740 (3.8)	770 (3.9)	835 (4.2)	
	T.P - In Wg (Pa)	0.132 (33)	0.158 (40)	0.258 (65)	0.095 (24)	0.112 (28)	0.184 (46)	0.063 (16)	0.077 (19)	0.124 (31)	0.044 (11)	0.054 (14)	0.085 (21)	0.027 (7)	0.033 (8)	0.054 (14)	
	Throw(Ft)@100,50Fpm	30-42	25-35	17-28	27-38	23-31	14-23	24-35	20-29	13-20	21-34	18-26	12-18	19-33	16-24	11-17	
	NC	30	31	33	24	24	27	20	21	23	16	16	20	<15	<15	17	
250 (118)	Velocity- Fpm (m/s)	2085 (10.6)	2135 (10.85)	2380 (12.1)	1735 (8.8)	1785 (9.1)	2085 (10.6)	1420 (7.2)	1470 (7.5)	1665 (8.5)	1190 (6)	1250 (6.4)	1390 (7.1)	925 (4.7)	960 (4.9)	1040 (5.3)	
	T.P - In Wg (Pa)	0.207 (52)	0.246 (62)	0.402 (101)	0.148 (37)	0.176 (44)	0.288 (72)	0.099 (25)	0.12 (30)	0.192 (48)	0.069 (17)	0.084 (21)	0.134 (34)	0.042 (11)	0.052 (13)	0.084 (21)	
	Throw(Ft)@100,50Fpm	38-50	32-43	21-32	35-47	29-40	17-28	31-44	26-36	16-25	28-41	23-33	15-23	24-38	20-29	14-21	
	NC	36	37	39	32	32	35	25	25	28	21	21	25	16	17	21	
300 (141)	Velocity- Fpm (m/s)				2085 (10.6)	2145 (10.9)	2500 (12.7)	1705 (8.7)	1765 (8.97)	2000 (10.2)	1430 (7.3)	1500 (7.6)	1665 (8.5)	1110 (5.6)	1155 (5.9)	1250 (6.4)	
	T.P - In Wg (Pa)				0.212 (53)	0.252 (63)	0.412 (103)	0.142 (36)	0.172 (43)	0.277 (69)	0.099 (25)	0.12 (30)	0.192 (48)	0.061 (15)	0.075 (19)	0.122 (31)	
	Throw(Ft)@100,50Fpm				43-55	34-48	20-32	35-51	34-43	20-29	34-46	28-38	18-27	28-40	24-35	17-25	
	NC				36	37	40	32	32	35	26	26	30	21	21	25	
350 (165)	Velocity- Fpm (m/s)							1990 (10.1)	2060 (10.5)	2335 (11.9)	1665 (8.5)	1750 (8.9)	1945 (9.9)	1295 (6.6)	1345 (6.8)	1460 (7.4)	
	T.P - In Wg (Pa)							0.194 (49)	0.235 (59)	0.377 (94)	0.122 (31)	0.164 (41)	0.261 (65)	0.083 (21)	0.102 (26)	0.164 (41)	
	Throw(Ft)@100,50Fpm							39-57	35-49	24-33	36-51	32-44	22-31	33-46	29-40	20-29	
	NC							36	37	39	32	33	35	26	27	29	
400 (189)	Velocity- Fpm (m/s)										1905 (9.7)	2000 (10.2)	2220 (11.3)	1480 (7.5)	1540 (7.8)	1665 (8.5)	
	T.P - In Wg (Pa)										0.176 (44)	0.215 (54)	0.342 (86)	0.108 (27)	0.134 (34)	0.215 (54)	
	Throw(Ft)@100,50Fpm										41-53	36-47	26-37	38-50	34-46	24-35	
	NC										36	37	39	31	32	34	
500 (236)	Velocity- Fpm (m/s)													1850 (9.4)	1925 (9.8)	2085 (10.6)	
	T.P - In Wg (Pa)													0.168 (42)	0.208 (52)	0.327 (82)	
	Throw(Ft)@100,50Fpm													45-58	39-52	29-42	
	NC													35	36	38	

See Notes on last page of performance.



DOUBLE DEFLECTION GRILLE

GLDD Series

PERFORMANCE DATA

CFM (L/s)	Grilles Sizes in Inch (mm)	18x4 (457x102) 14x5 (356x127) 12x6 (305x152) 8x8 (203x203)			20x4 (508x102) 16x5 (406x127) 14x6 (356x152) 10x8 (254x203)			24x4 (610x102) 18x5 (457x127) 16x6 (406x152)			28x4 (711x102) 20x5 (510x127) 18x6 (457x152) 12x8 (305x203) 10x10 (254x254)			30x4 (762x102) 24x5 (610x127) 20x6 (508x152) 14x8 (356x203) 12x10 (305x254)			
		DEFLECTION	0°	22½°	45°	0°	22½°	45°	0°	22½°	45°	0°	22½°	45°	0°	22½°	45°
		AK (ft²)	0.31	0.3	0.27	0.37	0.36	0.32	0.42	0.41	0.36	0.48	0.47	0.42	0.55	0.54	0.48
100 (47)	Velocity- Fpm (m/s)	325 (1.7)	335 (1.7)	370 (1.9)	270 (1.4)	280 (1.4)	315 (1.6)										
	T.P - In Wg (Pa)	0.006 (2)	0.006 (2)	0.014 (4)	0.004 (1)	0.005 (1)	0.008 (2)										
	Throw(Ft)@100,50Fpm	7-14	6-12	4-9	7-13	5-11	3-8										
	NC	<15	<15	<15	<15	<15	<15										
150 (71)	Velocity- Fpm (m/s)	485 (2.5)	500 (2.5)	555 (2.8)	405 (2.1)	415 (2.1)	470 (2.4)	360 (1.8)	365 (1.9)	415 (2.1)	315 (1.6)	320 (1.6)	355 (1.8)				
	T.P - In Wg (Pa)	0.013 (3)	0.013 (3)	0.031 (8)	0.009 (2)	0.011 (3)	0.023 (6)	0.006 (2)	0.008 (2)	0.013 (3)	0.006 (2)	0.007 (2)	0.010 (3)				
	Throw(Ft)@100,50Fpm	17-31	13-23	11-17	16-25	13-18	9-13	16-27	13-19	9-13	12-25	11-15	6-14				
	NC	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15				
200 (94)	Velocity- Fpm (m/s)	645 (3.3)	665 (3.4)	740 (3.8)	540 (2.7)	560 (2.8)	625 (3.2)	475 (2.4)	490 (2.5)	555 (2.8)	415 (2.1)	425 (2.2)	475 (2.4)	365 (1.9)	370 (1.9)	415 (2.1)	
	T.P - In Wg (Pa)	0.023(6)	0.024(6)	0.055(14)	0.015 (4)	0.02 (5)	0.03 (8)	0.012 (3)	0.015 (4)	0.024 (6)	0.010 (3)	0.017 (4)	0.019 (5)	0.008 (2)	0.010 (3)	0.018 (4)	
	Throw(Ft)@100,50Fpm	21-36	17-26	13-19	19-31	15-20	11-15	19-31	15-22	11-16	15-29	14-20	8-16	14-23	11-18	7-13	
	NC	<15	<15	17	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	
300 (141)	Velocity- Fpm (m/s)	970 (4.9)	1000 (5.1)	1110 (5.6)	810 (4.1)	835 (4.2)	940 (4.8)	715 (3.6)	730 (3.7)	835 (4.2)	625 (3.2)	640 (3.3)	715 (3.6)	545 (2.8)	555 (2.8)	625 (3.2)	
	T.P - In Wg (Pa)	0.051 (13)	0.056 (14)	0.112 (28)	0.035 (9)	0.043 (11)	0.067 (17)	0.027 (7)	0.035 (9)	0.055 (14)	0.023 (6)	0.029 (7)	0.043 (11)	0.016 (4)	0.022 (6)	0.032 (8)	
	Throw(Ft)@100,50Fpm	26-40	22-30	16-23	25-39	19-26	15-20	24-37	20-28	14-20	20-34	19-25	11-19	19-28	16-23	10-16	
	NC	16	17	22	<15	15	18	<15	<15	20	<15	<15	16	<15	<15	<15	
400 (189)	Velocity- Fpm (m/s)	1290 (6.6)	1335 (6.8)	1480 (7.5)	1080 (5.5)	1110 (5.6)	1250 (6.6)	950 (4.8)	975 (5)	1110 (5.6)	835 (4.2)	850 (4.3)	950 (4.8)	730 (3.7)	740 (3.8)	835 (4.2)	
	T.P - In Wg (Pa)	0.090 (23)	0.100 (25)	0.200 (50)	0.062 (16)	0.076 (19)	0.120 (30)	0.049 (12)	0.062 (16)	0.096 (24)	0.040 (10)	0.051 (13)	0.077 (19)	0.029 (7)	0.036 (9)	0.057 (14)	
	Throw(Ft)@100,50Fpm	35-48	30-40	20-30	33-48	29-37	20-28	30-42	25-34	17-24	26-39	23-30	14-22	24-34	21-28	13-20	
	NC	25	26	32	24	25	30	20	21	26	<15	17	22	<15	16	21	
500 (236)	Velocity- Fpm (m/s)	1615 (8.2)	1665 (8.5)	1850 (9.4)	1350 (6.8)	1390 (7.1)	1565 (8)	1190 (6)	1220 (6.2)	1390 (7.1)	1040 (5.3)	1065 (5.4)	1190 (6)	910 (4.6)	925 (4.7)	1040 (5.3)	
	T.P - In Wg (Pa)	.14 (35)	.156 (39)	.314 (79)	.096 (24)	.119 (30)	.186 (47)	.078 (20)	.096 (24)	.15 (38)	0.063 (16)	0.079 (20)	0.120 (30)	0.046 (12)	.057 (14)	.089 (22)	
	Throw(Ft)@100,50Fpm	42-55	37-48	26-36	39-51	34-44	23-32	36-47	31-40	20-28	33-44	29-37	17-26	29-40	26-33	15-24	
	NC	34	35	38	27	28	35	26	28	32	21	23	28	19	20	28	
600 (283)	Velocity- Fpm (m/s)	1935 (10.6)	2000 (10.85)	2220 (12.1)	1620 (10.6)	1665 (10.9)	1875 (12.7)	1430 (8.7)	1465 (8.97)	1665 (10.2)	1250 (7.3)	1275 (7.6)	1430 (8.4)	1090 (5.6)	1110 (5.9)	1250 (6.4)	
	T.P - In Wg (Pa)	0.204 (51)	0.225 (56)	0.452 (113)	0.138 (34)	0.171 (43)	0.27 (68)	0.112 (28)	0.138 (35)	0.215 (54)	0.091 (23)	0.114 (29)	0.174 (44)	0.066 (17)	0.082 (21)	0.128 (32)	
	Throw(Ft)@100,50Fpm	47-60	41-54	31-41	43-56	38-49	27-37	40-52	35-44	23-33	36-48	32-40	20-29	32-45	29-36	18-26	
	NC	39	40	43	35	36	40	30	31	36	28	30	34	25	27	31	
700 (330)	Velocity- Fpm (m/s)	2260 (11.5)	2335 (11.85)	2595 (13.1)	1890 (9.6)	1945 (9.9)	2190 (11.1)	1665 (8.5)	1710 (8.7)	1945 (9.9)	1460 (7.4)	1490 (7.6)	1665 (8.5)	1275 (6.5)	1295 (6.6)	1460 (7.4)	
	T.P - In Wg (Pa)	0.275 (69)	0.305 (76)	0.610 (152)	0.188 (47)	0.244 (61)	0.365 (91)	0.152 (38)	0.188 (47)	0.294 (74)	0.124 (31)	0.155 (39)	0.235 (59)	0.090 (23)	0.110 (28)	0.174 (44)	
	Throw(Ft)@100,50Fpm	52-65	46-59	37-47	47-61	42-53	32-41	43-57	38-48	27-36	39-52	34-44	23-32	36-49	31-40	20-29	
	NC	43	44	47	39	41	44	36	38	41	33	36	39	30	32	37	
800 (378)	Velocity- Fpm (m/s)				2160 (11)	2220 (11.3)	2500 (12.7)	1905 (9.7)	1950 (9.9)	2220 (11.3)	1665 (8.5)	1700 (8.6)	1905 (9.7)	1455 (7.4)	1480 (7.5)	1665 (8.5)	
	T.P - In Wg (Pa)				0.246 (62)	0.305 (76)	0.478 (120)	0.198 (50)	0.245 (61)	0.385 (96)	0.161 (40)	0.201 (50)	0.31 (78)	0.116 (29)	0.144 (36)	0.226 (57)	
	Throw(Ft)@100,50Fpm				53-65	49-57	37-45	49-61	44-53	33-41	44-56	38-48	28-37	40-53	35-45	25-34	
	NC				44	44	47	40	41	44	38	39	42	33	35	39	
900 (425)	Velocity- Fpm (m/s)							2145 (10.9)	2195 (11.2)	2500 (12.7)	1875 (9.5)	1915 (9.7)	2145 (10.9)	1635 (8.3)	1665 (8.5)	1875 (9.5)	
	T.P - In Wg (Pa)							0.250 (63)	0.310 (78)	0.486 (122)	0.205 (51)	0.256 (64)	0.390 (98)	0.148 (37)	0.182 (46)	0.286 (72)	
	Throw(Ft)@100,50Fpm							51-65	47-58	38-45	47-60	43-54	33-41	44-57	39-50	29-38	
	NC							44	45	48	41	42	45	37	38	42	

See Notes on last page of performance.



DOUBLE DEFLECTION GRILLE

GLDD Series

PERFORMANCE DATA

CFM (L/s)	Grilles Sizes in Inch (mm)	36x4 (914x102) 28x5 (711x127) 22x6 (559x152) 16x8 (406x203) 14x10 (356x254)			40x4 (1020x102) 24x6 (610x152) 18x8 (457x203) 16x10 (406x254) 12x12 (305x305)			48x4 (1219x102) 36x5 (914x127) 30x6 (762x152) 18x10 (457x254) 14x12 (356x305)			34x6 (864x152) 24x8 (610x203) 20x10 (508x254) 16x12 (406x305) 14x14 (356x356)			60x4 (1524x102) 48x5 (1219x127) 36x6 (914x152) 18x12 (457x305) 16x14 (406x356)				
		DEFLECTION			0°	22½°	45°	0°	22½°	45°	0°	22½°	45°	0°	22½°	45°		
		AK (ft²)			0.65	0.63	0.57	0.72	0.7	0.63	0.86	0.83	0.75	0.94	0.92	0.83	1.07	1.04
200 (94)	Velocity- Fpm (m/s)	310 (1.6)	315 (1.6)	350 (1.8)	280 (1.4)	285 (1.5)	315 (1.6)											
	T.P - In Wg (Pa)	0.005 (1)	0.006 (2)	0.01 (3)	0.004 (1)	0.005 (1)	0.009 (2)											
	Throw(Ft)@100,50Fpm	11-18	9-16	6-12	10-15	6-13	4-8											
	NC	<15	<15	<15	<15	<15	<15											
300 (141)	Velocity- Fpm (m/s)	460 (2.3)	475 (2.4)	525 (2.7)	415 (2.1)	430 (2.2)	475 (2.4)	350 (1.8)	360 (1.8)	400 (2.0)	320 (1.6)	325 (1.7)	360 (1.8)					
	T.P - In Wg (Pa)	0.012 (3)	0.013 (3)	0.023 (6)	0.01 (3)	0.011 (3)	0.02 (6)	0.007 (2)	0.008(2)	0.013(3)	0.006(2)	0.007(2)	0.012(3)					
	Throw(Ft)@100,50Fpm	15-23	12-19	8-14	14-19	9-18	6-10	12-16	10-15	6-10	10-19	9-16	4-10					
	NC	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15					
400 (189)	Velocity- Fpm (m/s)	615 (3.1)	635 (3.2)	700 (3.6)	555 (2.8)	570 (2.9)	635 (3.2)	465 (2.3)	480 (2.4)	535 (2.7)	425 (2.2)	435 (2.2)	480 (2.5)	375 (1.9)	385 (2)	425 (2.2)		
	T.P - In Wg (Pa)	0.021(5)	0.023(6)	0.041(10)	0.018(5)	0.019(5)	0.034(9)	0.012(3)	0.022(6)	0.024(6)	0.011(3)	0.012(3)	0.021(5)	0.008(2)	0.009(2)	0.016(4)		
	Throw(Ft)@100,50Fpm	21-30	17-25	10-17	18-25	14-21	8-14	16-21	13-19	8-13	13-23	12-19	6-13	17-21	16-20	13-17		
	NC	<15	<15	17	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15		
500 (236)	Velocity- Fpm (m/s)	770 (3.9)	795 (4)	875 (4.4)	695 (3.5)	715 (3.6)	795 (4)	580 (2.9)	600 (3)	665 (3.4)	530 (2.7)	545 (2.8)	600 (3.1)	470 (2.4)	480 (2.4)	530 (2.7)		
	T.P - In Wg (Pa)	0.033 (8)	0.036 (9)	0.112(16)	0.027 (7)	0.030 (8)	0.053(13)	0.020 (5)	0.022 (6)	0.038(10)	0.017(4)	0.018(5)	0.033 (8)	0.014 (4)	0.023 (6)	0.026 (7)		
	Throw(Ft)@100,50Fpm	26-37	23-31	12-20	22-31	19-24	11-18	20-27	17-23	10-17	17-27	15-22	8-17	19-27	18-22	16-20		
	NC	17	18	25	15	17	22	15	15	19	<15	<15	16	18	19	20		
600 (283)	Velocity- Fpm (m/s)	925 (4.7)	950 (4.8)	1055 (5.4)	835 (4.2)	855 (4.3)	950 (4.8)	700 (3.6)	725 (3.7)	800 (4.1)	640 (3.3)	650 (3.3)	725 (3.7)	560 (2.8)	580 (3)	640 (3.3)		
	T.P - In Wg (Pa)	0.048 (12)	0.052 (13)	0.092 (23)	0.039 (10)	0.043 (11)	0.076 (19)	0.028 (7)	0.031 (8)	0.055 (14)	0.024 (6)	0.027 (7)	0.047 (12)	0.019 (5)	0.020 (5)	0.037 (9)		
	Throw(Ft)@100,50Fpm	29-40	26-34	15-24	27-38	24-31	14-23	24-34	20-27	12-22	21-31	18-25	11-20	21-30	20-24	17-21		
	NC	24	25	30	22	23	28	19	20	25	16	17	22	22	24	26		
700 (330)	Velocity- Fpm (m/s)	1075 (5.5)	1110 (5.6)	1230 (6.3)	970 (4.9)	1000 (5.1)	1110 (5.6)	815 (4.1)	845 (4.3)	935 (4.8)	745 (3.8)	760 (3.9)	845 (4.3)	655 (3.3)	675 (3.4)	745 (3.8)		
	T.P - In Wg (Pa)	0.065 (16)	0.071 (18)	0.126 (32)	0.054 (14)	0.058 (15)	0.103 (26)	0.039 (10)	0.042 (11)	0.075 (19)	0.033 (8)	0.037 (9)	0.064 (16)	0.026 (7)	0.027 (7)	0.050 (13)		
	Throw(Ft)@100,50Fpm	33-45	28-37	18-26	30-42	26-35	17-26	27-38	23-30	16-25	25-35	21-28	14-23	24-34	21-26	17-22		
	NC	28	30	35	26	28	33	24	24	30	20	20	26	24	24	28		
800 (378)	Velocity- Fpm (m/s)	1230 (6.2)	1270 (6.5)	1405 (7.1)	1110 (5.6)	1145 (5.8)	1270 (6.5)	930 (4.7)	965 (4.9)	1065 (5.4)	850 (4.3)	870 (4.4)	965 (4.9)	750 (3.8)	770 (3.9)	850 (4.3)		
	T.P - In Wg (Pa)	0.085 (21)	0.093 (23)	0.165 (41)	0.07 (18)	0.076 (19)	0.136 (34)	0.050 (13)	0.055 (14)	0.098 (25)	0.043 (11)	0.048 (12)	0.084 (21)	0.034 (9)	0.037 (9)	0.066 (17)		
	Throw(Ft)@100,50Fpm	37-49	32-41	23-32	34-46	29-38	21-30	31-43	27-34	20-28	29-40	25-32	18-26	27-37	22-29	17-23		
	NC	31	33	38	30	32	37	27	28	34	24	24	30	26	27	30		
900 (425)	Velocity- Fpm (m/s)	1385 (7)	1430 (7.3)	1580 (8)	1250 (6.4)	1285 (6.5)	1430 (7.3)	1045 (5.3)	1085 (5.5)	1200 (6.1)	955 (4.9)	980 (5)	1085 (5.5)	840 (4.3)	865 (4.4)	960 (4.9)		
	T.P - In Wg (Pa)	0.108 (27)	0.117 (29)	0.208 (52)	0.089 (22)	0.096 (17)	0.170 (43)	0.064 (16)	0.070 (18)	0.124 (31)	0.055 (14)	0.061 (15)	0.106 (27)	0.045 (11)	0.048 (12)	0.083 (21)		
	Throw(Ft)@100,50Fpm	41-53	36-47	27-35	39-50	34-45	26-34	34-45	31-39	24-31	32-42	29-36	22-30	30-40	27-34	21-28		
	NC	36	37	41	35	36	40	32	32	37	29	29	33	28	28	32		
1000 (471)	Velocity- Fpm (m/s)	1540 (7.8)	1590 (8.1)	1755 (8.9)	1390 (7.1)	1430 (7.3)	1585 (8.1)	1165 (5.9)	1205 (6.1)	1335 (6.8)	1065 (5.4)	1085 (5.5)	1205 (6.1)	935 (4.7)	960 (4.9)	1065 (5.4)		
	T.P - In Wg (Pa)	0.134 (34)	0.145 (36)	0.257 (64)	0.110 (28)	0.119 (30)	0.212 (53)	0.079 (20)	0.086 (22)	0.153 (38)	0.068 (17)	0.076 (19)	0.132 (33)	0.056 (14)	0.059 (15)	0.103 (26)		
	Throw(Ft)@100,50Fpm	46-57	41-51	31-40	44-55	40-49	30-38	38-48	36-44	28-36	35-45	33-40	26-34	34-43	32-39	25-33		
	NC	40	41	44	38	39	43	37	37	41	34	34	38	30	31	35		
1200 (566)	Velocity- Fpm (m/s)				1665 (8.5)	1715 (8.7)	1905 (9.7)	1395 (7.1)	1445 (7.3)	1600 (8.1)	1275 (6.5)	1305 (6.6)	1445 (7.3)	1120 (5.7)	1155 (5.9)	1275 (6.5)		
	T.P - In Wg (Pa)				0.159 (40)	0.171 (43)	0.305 (76)	0.114 (29)	0.124 (31)	0.220 (55)	0.098 (25)	0.109 (27)	0.189 (47)	0.076 (19)	0.084 (21)	0.148 (37)		
	Throw(Ft)@100,50Fpm				49-60	46-55	37-45	46-54	43-52	36-43	43-51	41-49	35-42	40-48	38-46	31-39		
	NC				41	42	46	39	39	43	36	36	40	33	33	37		
1400 (661)	Velocity- Fpm (m/s)							1630 (8.3)	1685 (8.6)	1865 (9.5)	1490 (7.6)	1520 (7.7)	1685 (8.6)	1310 (6.6)	1345 (6.8)	1490 (7.6)		
	T.P - In Wg (Pa)							0.155 (39)	0.168 (42)	0.300 (75)	0.134 (34)	0.148 (37)	0.257 (64)	0.104 (26)	0.115 (29)	0.201 (50)		
	Throw(Ft)@100,50Fpm							53-61	48-57	42-48	53-59	48-57	42-48	47-54	43-51	37-44		
	NC							41	41	45	38	39	43	35	36	40		

See Notes on last page of performance.



DOUBLE DEFLECTION GRILLE

GLDD Series

PERFORMANCE DATA

CFM (L/s)	Grilles Sizes in Inch . (mm)	40x6 (1016x152) 30x8 (762x203) 24x10 (610x254) 22x12 (559x305) 18x14 (457x356) 16x16 (406x406)			48x6 (1219x152) 36x8 (914x203) 30x10 (762x254) 24x12 (610x305) 20x14 (508x356) 18x16 (457x406)			60x6 (1524x152) 40x8 (1016x203) 36x10 (914x254) 30x12 (762x305) 24x14 (610x356) 18x18 (457x457)			72x6 (1829x152) 48x8 (1219x203) 32x12 (812x305) 26x14 (660x356) 24x16 (610x406) 20x20 (508x508)			42x10 (1067x254) 36x12 (914x305) 30x14 (762x356) 26x16 (660x406) 24x18 (610x457) 22x20 (559x508)				
		DEFLECTION		0°	22½°	45°	0°	22½°	45°	0°	22½°	45°	0°	22½°	45°	0°	22½°	45°
		AK (ft²)		1.28	1.25	1.12	1.44	1.4	1.26	1.66	1.62	1.46	1.96	1.91	1.72	2.22	2.17	1.95
500 (236)	Velocity- Fpm (m/s)	390 (2)	400 (2)	445 (2.3)	345 (1.8)	355 (1.8)	395 (2)											
	T.P - In Wg (Pa)	.010 (3)	.011 (3)	.018 (5)	.008 (2)	.009 (2)	.015 (4)											
	Throw(Ft)@100,50Fpm NC	18-26 16	16-20 17	14-18 19	16-24 <15	15-19 <15	12-17 <15											
600 (283)	Velocity- Fpm (m/s)	470 (2.3)	480 (2.4)	535 (2.7)	415 (2.1)	425 (2.1)	475 (2.4)	360 (1.8)	370 (1.9)	410 (2.1)	305 (1.6)	315 (1.6)	350 (1.8)	270 (1.4)	275 (1.4)	310 (1.6)		
	T.P - In Wg (Pa)	0.014 (4)	0.015 (4)	0.026 (7)	0.011 (3)	0.013 (3)	0.022 (6)	0.008 (2)	0.010 (3)	0.016 (4)	0.006 (2)	0.007 (2)	0.012 (3)	0.005 (1)	0.006 (1)	0.012 (3)		
	Throw(Ft)@100,50Fpm NC	20-29 20	18-22 21	15-19 23	18-28 <15	17-21 <15	14-18 19	18-23 <15	15-20 <15	11-17 15	15-22 <15	13-17 <15	9-15 <15	14-19 <15	13-18 <15	12-16 <15		
800 (378)	Velocity- Fpm (m/s)	625 (3.2)	640 (3.3)	715 (3.6)	555 (2.8)	570 (2.9)	635 (3.2)	480 (2.4)	495 (2.5)	550 (2.8)	410 (2.1)	420 (2.1)	465 (2.4)	360 (1.8)	370 (1.9)	410 (2.1)		
	T.P - In Wg (Pa)	0.025 (6)	0.027 (7)	.047 (12)	0.020 (5)	0.023 (6)	.039 (10)	0.015 (4)	0.017 (4)	0.029 (7)	0.011 (3)	0.018 (5)	0.021 (5)	0.009 (2)	0.010 (3)	0.019 (5)		
	Throw(Ft)@100,50Fpm NC	25-35 23	21-27 24	14-20 27	23-32 18	19-23 19	16-26 23	22-28 <15	18-25 15	14-20 20	19-26 <15	17-22 <15	13-19 17	17-21 <15	16-20 <15	14-18 <15		
1000 (471)	Velocity- Fpm (m/s)	780 (4.0)	800 (4.1)	895 (4.5)	695 (3.5)	715 (3.6)	795 (4.0)	600 (3.1)	620 (3.1)	685 (3.5)	510 (2.6)	525 (2.7)	580 (3.0)	450 (2.3)	460 (2.3)	515 (2.6)		
	T.P - In Wg (Pa)	.038 (10)	.043 (11)	.074 (19)	.032 (8)	.036 (9)	.061 (15)	.023 (6)	.026 (7)	.045 (11)	.017 (4)	.020 (5)	.034 (9)	.014 (4)	.015 (4)	.027 (7)		
	Throw(Ft)@100,50Fpm NC	32-41 26	28-35 27	22-29 31	29-36 22	25-32 23	19-25 27	26-33 18	24-30 19	19-25 24	23-30 15	21-27 16	17-23 21	21-26 <15	19-23 <15	16-20 17		
1200 (566)	Velocity- Fpm (m/s)	940 (4.8)	960 (4.9)	1070 (5.4)	835 (4.2)	855 (4.4)	950 (4.8)	725 (3.7)	740 (3.8)	820 (4.2)	610 (3.1)	630 (3.2)	700 (3.5)	540 (2.7)	555 (2.8)	615 (3.1)		
	T.P - In Wg (Pa)	0.055 (14)	0.062 (16)	0.106 (27)	0.045 (11)	0.051 (13)	0.087 (22)	0.033 (8)	0.038 (10)	0.065 (16)	0.025 (6)	0.028 (7)	0.048 (12)	0.019 (5)	0.022 (6)	0.039 (10)		
	Throw(Ft)@100,50Fpm NC	38-45 29	34-42 30	28-36 34	34-41 26	31-38 26	26-33 30	30-38 23	29-35 23	24-30 27	27-34 20	26-32 20	21-27 24	25-31 17	23-28 17	29-24 22		
1400 (661)	Velocity- Fpm (m/s)	1095 (5.6)	1120 (5.7)	1250 (6.4)	970 (4.9)	1000 (5.1)	1110 (5.6)	845 (4.3)	865 (4.4)	960 (4.9)	715 (3.6)	735 (3.7)	815 (4.1)	630 (3.2)	645 (3.3)	720 (3.6)		
	T.P - In Wg (Pa)	0.075 (19)	.084 (21)	.146 (37)	.062 (16)	.070 (18)	.118 (30)	.045 (11)	.051 (13)	.088 (22)	.034 (9)	.039 (10)	.066 (17)	.027 (7)	.030 (8)	.054 (14)		
	Throw(Ft)@100,50Fpm NC	43-50 32	39-47 33	33-40 37	37-46 29	35-42 30	30-367 34	34-42 27	32-39 28	27-34 32	31-39 24	29-36 25	24-31 29	30-37 21	27-33 21	22-28 27		
1600 (755)	Velocity- Fpm (m/s)	1250 (6.4)	1280 (6.5)	1430 (7.3)	1110 (5.6)	1140 (5.8)	1270 (6.5)	965 (4.9)	990 (5)	1095 (5.6)	815 (4.1)	840 (4.3)	930 (4.7)	720 (3.7)	735 (3.7)	820 (4.2)		
	T.P - In Wg (Pa)	0.098 (25)	0.110 (28)	0.190 (48)	0.080 (20)	0.091 (23)	0.155 (39)	0.059 (15)	0.067 (17)	0.115 (29)	0.045 (11)	0.050 (13)	0.086 (22)	0.035 (9)	0.039 (10)	0.070 (18)		
	Throw(Ft)@100,50Fpm NC	47-54 36	43-51 37	36-44 40	42-50 33	39-46 33	33-40 37	38-46 31	35-43 32	30-38 36	35-43 29	32-40 29	27-35 34	35-42 25	31-38 26	25-32 31		
1800 (850)	Velocity- Fpm (m/s)	1405 (7.1)	1440 (7.3)	1605 (8.2)	1250 (6.4)	1285 (6.5)	1430 (7.3)	1085 (5.5)	1110 (5.6)	1235 (6.3)	920 (4.7)	940 (4.8)	1045 (5.3)	810 (4.1)	830 (4.2)	925 (4.7)		
	T.P - In Wg (Pa)	0.124 (31)	0.139 (35)	0.240 (60)	0.102 (26)	0.115 (29)	0.196 (49)	0.075 (19)	0.084 (21)	0.146 (37)	0.056 (14)	0.063 (16)	0.109 (27)	0.045 (11)	0.050 (13)	0.089 (22)		
	Throw(Ft)@100,50Fpm NC	52-58 40	48-56 40	41-47 44	47-54 36	43-51 37	36-44 41	42-51 35	39-47 35	33-41 40	40-48 33	36-44 33	30-38 38	38-46 29	35-42 30	27-35 35		
2000 (944)	Velocity- Fpm (m/s)	1565 (8)	1600 (8.1)	1785 (9.1)	1390 (7.1)	1430 (7.3)	1585 (8.1)	1205 (6.1)	1235 (6.3)	1370 (7)	1020 (5.2)	1045 (5.3)	1165 (5.9)	900 (4.6)	920 (4.7)	1025 (5.2)		
	T.P - In Wg (Pa)	0.154 (39)	0.172 (43)	0.295 (74)	0.126 (32)	0.142 (36)	0.243 (61)	0.092 (23)	0.104 (26)	0.179 (45)	0.070 (18)	0.079 (20)	0.134 (34)	0.056 (14)	0.061 (15)	0.110 (28)		
	Throw(Ft)@100,50Fpm NC	55-65 44	52-61 44	45-51 48	52-58 40	47-56 41	41-48 44	46-54 38	43-52 38	37-44 43	43-51 36	40-48 36	33-42 40	41-50 32	38-46 33	30-39 38		
2200 (1038)	Velocity- Fpm (m/s)				1530 (7.8)	1570 (8)	1745 (8.9)	1325 (6.7)	1360 (6.9)	1505 (7.7)	1120 (5.7)	1150 (5.8)	1280 (6.5)	990 (5.0)	1015 (4.7)	1130 (5.7)		
	T.P - In Wg (Pa)				0.152 (38)	0.172 (43)	0.293 (73)	0.112 (28)	0.126 (32)	0.216 (54)	0.084 (21)	0.095 (24)	0.162 (41)	0.067 (17)	0.074 (19)	0.132 (33)		
	Throw(Ft)@100,50Fpm NC				54-65 43	49-60 44	43-51 47	51-58 41	47-56 41	41-47 46	47-56 38	44-52 38	36-45 43	45-56 35	41-49 35	33-42 40		
2400 (1133)	Velocity- Fpm (m/s)							1445 (7.3)	1480 (7.5)	1645 (8.4)	1225 (6.2)	1255 (6.4)	1395 (7.1)	1080 (5.5)	1105 (5.6)	1230 (6.3)		
	T.P - In Wg (Pa)							0.133 (33)	0.150 (38)	0.257 (64)	0.100 (25)	0.113 (28)	0.194 (49)	0.080 (20)	0.088 (22)	0.157 (39)		
	Throw(Ft)@100,50Fpm NC							53-65 44	49-59 44	42-51 49	50-62 40	46-56 41	39-48 45	48-60 38	44-53 38	36-45 43		

See Notes on last page of performance.



DOUBLE DEFLECTION GRILLE

GLDD Series

PERFORMANCE DATA

CFM (L/s)	Grilles Sizes in Inch (mm)	60x8 (1524x203) ; 48x10 (1219x254) 40x12 (1016x305) ; 36x14 (914x356) 30x16 (762x406) ; 26x18 (660x457) 24x20 (610x508)			72x8 (1829x203) ; 60x10 (1524x254) 48x12 (1219x305) ; 36x16 (914x406) 30x18 (762x457) ; 28x20 (660x508) 24x24 (610x610)			48x14 (1219x356) 36x18 (914x457) 32x20 (812x508) 28x24 (711x610)		
		DEFLECTION AK (ft²)	0°	22½°	45°	0°	22½°	45°	0°	22½°
1000 (471)	Velocity- Fpm (m/s)	400 (2)	410 (2.1)	460 (2.3)	345 (1.8)	355 (1.8)	395 (2)	290 (1.5)	300 (1.5)	330 (1.7)
	T.P - In Wg (Pa)	0.011 (3)	0.013 (3)	0.022 (6)	0.008 (2)	0.009 (2)	0.015 (4)	0.006 (2)	0.008 (2)	0.011 (3)
	Throw(Ft)@100,50Fpm	17-23	15-20	12-18	15-21	14-19	11-17	14-21	13-20	8-14
	NC	<15	<15	<15	<15	<15	<15	<15	<15	<15
1200 (566)	Velocity- Fpm (m/s)	480 (2.4)	495 (2.5)	550 (2.8)	415 (2.1)	425 (2.2)	475 (2.4)	350 (1.8)	360 (1.8)	400 (2.0)
	T.P - In Wg (Pa)	0.014 (4)	0.018 (5)	0.032 (8)	0.011 (3)	0.013 (3)	0.022 (6)	0.009 (2)	0.010 (3)	0.016 (4)
	Throw(Ft)@100,50Fpm	22-28	20-26	17-22	20-26	18-25	14-20	17-24	15-23	10-17
	NC	<15	15	18	<15	<15	16	<15	<15	<15
1400 (661)	Velocity- Fpm (m/s)	560 (2.9)	575 (2.9)	640 (3.3)	485 (2.5)	495 (2.5)	555 (2.8)	410 (2.1)	420 (2.1)	470 (2.4)
	T.P - In Wg (Pa)	0.022 (6)	0.025 (6)	0.043 (11)	0.016 (4)	0.018 (5)	0.031 (8)	0.012 (3)	0.014 (4)	0.022 (6)
	Throw(Ft)@100,50Fpm	28-35	25-32	20-25	25-33	23-30	18-23	20-28	18-26	13-21
	NC	19	20	25	15	16	20	<15	<15	18
1600 (755)	Velocity- Fpm (m/s)	645 (3.3)	660 (3.3)	735 (3.7)	555 (2.8)	570 (2.9)	630 (3.2)	466 (2.4)	480 (2.4)	535 (2.7)
	T.P - In Wg (Pa)	0.029 (7)	0.032 (8)	0.056 (14)	0.020 (5)	0.023 (6)	0.040 (10)	0.015 (4)	0.018 (5)	0.029 (7)
	Throw(Ft)@100,50Fpm	33-40	29-36	23-30	30-37	26-33	20-28	23-31	21-29	16-24
	NC	23	24	28	19	20	24	15	16	21
1800 (850)	Velocity- Fpm (m/s)	725 (3.7)	740 (3.8)	825 (4.2)	625 (3.2)	640 (3.2)	710 (3.6)	525 (2.7)	535 (2.7)	600 (3)
	T.P - In Wg (Pa)	0.036 (9)	0.041 (10)	0.071 (18)	0.026 (7)	0.03 (8)	0.051 (13)	0.019 (5)	0.022 (6)	0.037 (9)
	Throw(Ft)@100,50Fpm	36-44	33-40	24-32	32-39	28-36	22-29	27-34	24-32	19-27
	NC	27	28	33	24	24	28	18	20	24
2000 (944)	Velocity- Fpm (m/s)	805 (4.1)	825 (4.2)	915 (4.7)	690 (3.5)	710 (3.6)	790 (4)	585 (3)	595 (3)	665 (3.4)
	T.P - In Wg (Pa)	0.045 (11)	0.051 (13)	0.088 (22)	0.032 (8)	0.037 (9)	0.063 (16)	0.024 (6)	0.028 (7)	0.046 (12)
	Throw(Ft)@100,50Fpm	39-48	36-44	28-36	34-43	32-39	24-33	31-38	27-35	21-29
	NC	30	32	35	27	28	34	24	25	29
2200 (1038)	Velocity- Fpm (m/s)	885 (4.5)	905 (4.6)	1010 (5.1)	760 (3.9)	780 (4)	870 (4.4)	640 (3.3)	655 (3.3)	735 (3.7)
	T.P - In Wg (Pa)	0.055 (14)	0.061 (15)	0.106 (27)	0.038 (10)	0.045 (11)	0.077 (19)	0.028 (7)	0.037 (9)	0.057 (14)
	Throw(Ft)@100,50Fpm	42-52	39-47	30-38	37-47	33-41	27-35	33-41	30-38	23-31
	NC	33	34	37	29	30	35	26	27	32
2400 (1133)	Velocity- Fpm (m/s)	965 (4.9)	990 (5)	1100 (5.6)	830 (4.2)	850 (4.3)	950 (4.8)	700 (3.6)	715 (3.6)	800 (4.1)
	T.P - In Wg (Pa)	0.065 (16)	0.073 (18)	0.126 (32)	0.046 (12)	0.053 (13)	0.091 (23)	0.034 (9)	0.040 (10)	0.067 (17)
	Throw(Ft)@100,50Fpm	46-57	42-50	34-42	41-51	35-45	30-38	36-45	31-40	26-34
	NC	36	36	40	31	32	36	28	28	35
2800 (1321)	Velocity- Fpm (m/s)	1125 (5.7)	1150 (5.9)	1285 (6.5)	970 (4.9)	995 (5.0)	1105 (5.6)	815 (4.1)	835 (4.2)	935 (4.7)
	T.P - In Wg (Pa)	0.088 (22)	0.099 (25)	0.172 (43)	0.063 (16)	0.072 (18)	0.123 (31)	0.047 (12)	0.054 (14)	0.090 (23)
	Throw(Ft)@100,50Fpm	53-63	48-57	40-49	46-57	41-51	35-44	41-51	36-45	30-38
	NC	41	42	45	37	38	41	32	33	37
3200 (1510)	Velocity- Fpm (m/s)				1105 (5.6)	1135 (5.8)	1265 (6.4)	935 (4.7)	955 (4.9)	1065 (5.4)
	T.P - In Wg (Pa)				0.082 (21)	0.094 (24)	0.161 (40)	0.061 (15)	0.070 (18)	0.118 (30)
	Throw(Ft)@100,50Fpm				52-63	48-57	40-49	45-56	41-50	34-43
	NC				41	42	46	38	39	42

See Notes on last page of performance.



DOUBLE DEFLECTION GRILLE

GLDD Series

PERFORMANCE DATA

CFM (L/s)	Grilles Sizes in Inch (mm)	72x10 (1829x254) 48x16 (1219x406) 36x20 (914x508) 30x24 (762x610)			72x12 (1829x305) 60x14 (1524x356) 48x18 (1219x457) 36x24 (914x610)			72x14 (1829x356) 60x16 (1524x406) 48x20 (1219x508) 30x30 (762x762)			
		DEFLECTION	0°	22½°	45°	0°	22½°	45°	0°	22½°	45°
		AK (ft²)	3.72	3.63	3.25	4.46	4.35	3.9	5	4.87	4.37
1200 (566)	Velocity- Fpm (m/s)	325 (1.6)	330 (1.7)	370 (1.9)							
	T.P - In Wg (Pa)	0.007 (2)	0.009 (2)	0.015 (4)							
	Throw(Ft)@100,50Fpm	19-24	18-23	13-22							
	NC	<15	<15	<15							
1600 (755)	Velocity- Fpm (m/s)	430 (2.2)	440 (2.2)	490 (2.5)	360 (1.8)	370 (1.9)	410 (2.1)	320 (1.6)	330 (1.7)	365 (1.9)	
	T.P - In Wg (Pa)	0.013 (3)	0.015 (4)	0.026 (7)	0.009 (2)	0.010 (3)	0.018 (5)	0.007 (2)	0.008 (2)	0.014 (4)	
	Throw(Ft)@100,50Fpm	23-29	21-28	16-25	16-26	15-23	14-20	18-25	9-19	8-15	
	NC	<15	15	19	<15	15	15	<15	<15	<15	
2000 (944)	Velocity- Fpm (m/s)	540 (2.7)	550 (2.8)	615 (3.1)	450 (2.3)	460 (2.3)	515 (2.6)	400 (2.0)	410 (2.1)	460 (2.3)	
	T.P - In Wg (Pa)	0.020 (5)	0.024 (6)	0.041 (10)	0.014 (4)	0.016 (4)	0.031 (8)	0.011 (3)	0.013 (3)	0.023 (6)	
	Throw(Ft)@100,50Fpm	27-34	24-32	19-27	21-30	20-27	17-23	21-28	13-23	11-18	
	NC	19	20	24	15	16	20	<15	15	16	
2400 (1133)	Velocity- Fpm (m/s)	645 (3.3)	660 (3.4)	740 (3.7)	540 (2.7)	550 (2.8)	615 (3.1)	480 (2.4)	485 (2.5)	550 (2.8)	
	T.P - In Wg (Pa)	0.029 (7)	0.034 (8)	0.059 (15)	0.020 (5)	0.023 (6)	0.040 (10)	0.016 (4)	0.019 (5)	0.033 (8)	
	Throw(Ft)@100,50Fpm	31-39	27-36	22-29	26-34	23-31	19-26	24-31	17-27	14-21	
	NC	25	25	29	20	21	25	18	19	21	
2800 (1322)	Velocity- Fpm (m/s)	755 (3.8)	770 (3.9)	860 (4.4)	630 (3.2)	645 (3.3)	720 (3.6)	560 (2.8)	575 (2.9)	640 (3.3)	
	T.P - In Wg (Pa)	0.040 (10)	0.046 (12)	0.080 (20)	0.027 (7)	0.032 (8)	0.054 (14)	0.022 (6)	0.025 (6)	0.045 (11)	
	Throw(Ft)@100,50Fpm	36-45	31-40	25-33	31-38	26-35	21-28	27-35	21-31	17-24	
	NC	28	29	36	25	26	30	22	23	26	
3200 (1510)	Velocity- Fpm (m/s)	860 (4.4)	880 (4.5)	985 (5)	715 (3.6)	735 (3.7)	820 (4.2)	640 (3.3)	655 (3.3)	730 (3.7)	
	T.P - In Wg (Pa)	0.052 (13)	0.061 (15)	0.102 (26)	0.036 (9)	0.042 (11)	0.071 (18)	0.029 (7)	0.033 (8)	0.059 (15)	
	Throw(Ft)@100,50Fpm	40-50	35-45	29-36	35-44	30-40	24-33	30-38	25-35	20-27	
	NC	33	33	38	29	30	36	26	27	31	
3600 (1699)	Velocity- Fpm (m/s)	970 (4.9)	990 (5)	1110 (5.6)	805 (4.1)	830 (4.2)	925 (4.7)	720 (3.7)	740 (3.8)	825 (4.2)	
	T.P - In Wg (Pa)	0.066 (17)	0.077 (19)	0.130 (33)	0.045 (11)	0.053 (13)	0.090 (23)	0.037 (9)	0.042 (11)	0.074 (19)	
	Throw(Ft)@100,50Fpm	46-55	41-50	34-42	39-48	35-44	28-37	33-41	30-38	23-30	
	NC	39	40	43	33	34	38	30	31	36	
4000 (1888)	Velocity- Fpm (m/s)	1075 (5.5)	1100 (5.6)	1230 (6.2)	895 (4.5)	920 (4.8)	1025 (5.2)	800 (4.1)	820 (4.2)	915 (4.6)	
	T.P - In Wg (Pa)	0.083 (21)	0.095 (24)	0.163 (41)	0.056 (14)	0.065 (16)	0.111 (28)	0.046 (12)	0.052 (13)	0.092 (23)	
	Throw(Ft)@100,50Fpm	52-61	47-56	39-48	44-53	40-48	32-40	37-45	34-42	26-34	
	NC	43	44	47	40	41	45	34	35	39	

NOTES:

- 1- Performance Data is Based on ASHREA 70-91
- 2- CFM (L/s): AIRFLOW based on Standard air density and ISOTHERMAL conditions.
- 3- Ak: FREE Area of the grille in Ft2
- 4- Velocity: Face discharge velocity in feet per minute- fpm (m/s) based on FREE Area
- 5- TOTAL pressure (T.P): Inches of Water Gauge (Pa)
- 6- Noise Criteria: NC Level is based on room attenuaion of 10db (sound power level Re: 10-12Watts)
- 7- Throw: Projection distance in FEET from diffuser discharge at which the maximum velocity has been reduced to specified terminal velocity (Vt). Data show are for 100,50 Terminal velocity in fpm
- 8- Throw are for Horizontal (wall mounted) based on Isothermal conditions.
- 9- Refer to Table for Correction Factor for varios Models
 - i- Throw, total pressure drop & AK free area factor are multiplier
 - ii- NC is additional

MODELS	Throw	Total Pressure	N.C	A.K
GLSD & GLDD With OBD	1	1	0	1
GLSD & GLDD Without OBD	0.97	0.89	-4	1.06