RECTANGULAR ATTENUATORS – MODEL: PGL

CONSTRUCTION

- CASING:
  LOCK FORMED, PRE-GALVANISED STEEL SHEET OF 0.9mm THICKNESS. ALL FIXINGS ARE BY RIVETS.

- INSULATION :
  2 INCH THICK ROCKWOOL FIBERS BOUND WITH THERMOSETTING BINDER FACED WITH VAPOR-RETARDANT ALUMINUM FOIL FROM ONE SIDE. AND COMPLIES WITH ASTM C612.
  NON COMBUSTIBLE (EN ISO 1182)
  50 KG/M^3 DENSITY (ASTM C303).
  FUNGI-RESISTANT (ASTM C665).

- SPLITTERS:
  GALVANISED SHEET. BENDED TO FORM CHANNEL SECTIONS, FIXED WITH RIVETS. PERFORATED SHEET OF 0.7MM THICKNESS IS USED TO COVER THE SPLITTERS.

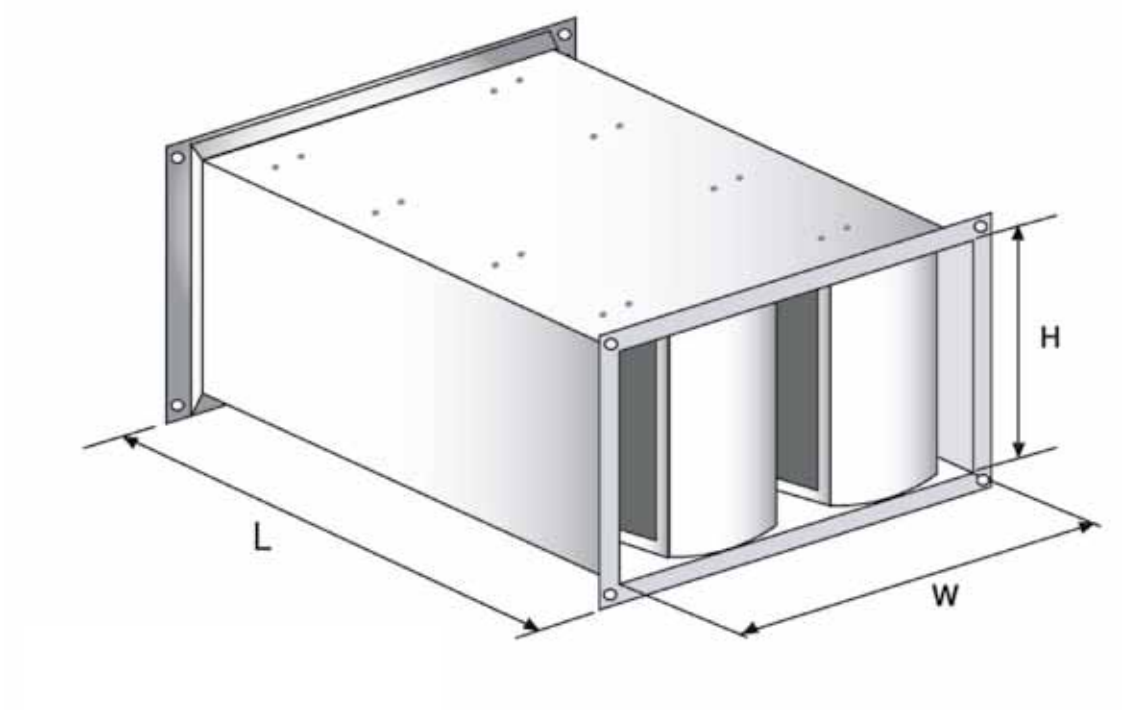
- FLANGES : ROLL FORMED DUCTO MATE 35mm FLANGES.

BETA INDUSTRIAL LLC Certifies that Sound Attenuators PGL-B - L850 & PGL-B L1150 shown herein are Licensed to bear AMCA seal. Sound Attenuators are certified by AMCA to ASTM standard **E477-13e1** and comply with requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to dynamic insertion loss & Airflow generated sound power level.

ADVANTAGES

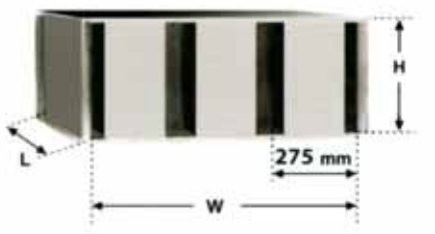
* Efficient at medium and high frequencies.
* AMCA certified performance for PGL-B L-850mm & PGL-B L-1150mm
* Suitable for installation in fire rated ductwork (2h) & smoke exhaust ductwork (400 deg C - 2h).

DIMENSIONS:



Ordering Key:

P	G	L	A	W	X	H	X	L
RECTANGULAR SOUND ATTENUATOR PGL MODEL								
AIRWAY CODE: A,B,C,D,E OR F								
SIZE: WIDTH X HEIGHT X LENGTH								



SERIES PGL

LOW PRESSURE LOSS RECTANGULAR ATTENUATORS
ATTENUATOR PERFORMANCE - AIR WAY CODE A

Lengths 850 mm and 1150 mm

LENGTH	STATIC INSERTION LOSS OCTAVE BAND MEAN FREQUENCY (Hz)							
	63	125	250	500	1K	2K	4K	8K
850	7	11	19	33	38	35	27	23
1150	8	14	24	41	41	39	33	27

TABLE OF VOLUME FLOW RATES (m³/s)

HEIGHT (mm)	WIDTH (mm) 275	550	825	1100	1375	1650	1925	2200
300	0.38	0.76	1.14	1.52				
400	0.51	1.02	1.53	2.04	2.55			
500	0.65	1.29	1.94	2.58	3.23	3.87	4.52	
600	0.79	1.57	2.35	3.14	3.92	4.70	5.49	6.27
700	0.92	1.83	2.75	3.66	4.57	5.49	6.40	7.32
800	1.05	2.09	3.14	4.18	5.23	6.27	7.32	8.36
900	1.18	2.35	3.53	4.70	5.88	7.05	8.23	9.40
1000	1.31	2.62	3.92	5.23	6.53	7.84	9.14	10.5
1100	1.44	2.88	4.31	5.75	7.18	8.62	10.1	11.5
1200		3.14	4.70	6.27	7.84	9.40	11.0	12.6
1300		3.40	5.10	6.79	8.49	10.2	11.9	13.6
1400		3.66	5.49	7.32	9.14	11.0	12.8	14.7
1500		3.92	5.88	7.84	9.80	11.8	13.7	15.7
1600		4.18	6.27	8.36	10.5	12.6	14.7	16.8
1700		4.44	6.66	8.88	11.1	13.4	15.6	17.8
1800		4.70	7.05	9.40	11.8	14.1	16.5	18.8
1900		4.97	7.45	9.93	12.4	14.9	17.4	19.9
2000		5.23	7.84	10.5	13.1	15.7	18.3	20.9
2100		5.49	8.23	11.0	13.7	16.5	19.2	22.0
2200		5.75	8.62	11.5	14.4	17.3	20.1	23.0
2300			9.01	12.1	15.1	18.1	21.1	24.1
2400			9.40	12.6	15.7	18.8	22.0	25.1*

Lengths 1450 mm and 1750 mm

LENGTH	STATIC INSERTION LOSS OCTAVE BAND MEAN FREQUENCY (Hz)							
	63	125	250	500	1K	2K	4K	8K
1450	9	17	29	46	44	42	37	31
1750	10	20	35	50	46	44	39	35

TABLE OF VOLUME FLOW RATES (m³/s)

HEIGHT (mm)	WIDTH (mm) 275	550	825	1100	1375	1650	1925	2200
300	0.34	0.68	1.01	1.35				
400	0.46	0.91	1.37	1.82	2.28			
500	0.58	1.16	1.73	2.31	2.89	3.47	4.04	
600	0.71	1.41	2.11	2.81	3.52	4.22	4.92	5.62
700	0.82	1.64	2.46	3.28	4.10	4.92	5.74	6.56
800	0.94	1.88	2.81	3.75	4.69	5.62	6.56	7.50
900	1.06	2.11	3.16	4.22	5.27	6.33	7.38	8.43
1000	1.17	2.35	3.52	4.69	5.86	7.03	8.20	9.37
1100	1.29	2.58	3.87	5.16	6.44	7.73	9.02	10.3
1200		2.81	4.22	5.62	7.03	8.43	9.84	11.3
1300		3.05	4.57	6.09	7.61	9.14	10.7	12.2
1400		3.28	4.92	6.56	8.20	9.84	11.5	13.2
1500		3.52	5.27	7.03	8.78	10.6	12.3	14.1
1600		3.75	5.62	7.50	9.37	11.3	13.2	15.0*
1700		3.98	5.97	7.96	9.96	12.0	14.0	16.0*
1800		4.22	6.33	8.43	10.6	12.7	14.8*	16.9*
1900		4.45	6.68	8.90	11.2	13.4	15.6*	
2000		4.69	7.03	9.37	11.7	14.1	16.4*	
2100		4.92	7.38	9.84	12.3	14.8*	17.2*	
2200		5.16	7.73	10.3	12.9	15.5*		
2300			8.08	10.8	13.5	16.2*		
2400			8.43	11.3	14.1	16.9*		

* SEE NOTE 7

Lengths 2050 mm and 2350 mm

LENGTH	STATIC INSERTION LOSS OCTAVE BAND MEAN FREQUENCY (Hz)							
	63	125	250	500	1K	2K	4K	8K
2050	12	23	40	50	50	45	43	41
2350	13	26	44	50	50	46	46	43

TABLE OF VOLUME FLOW RATES (m³/s)

HEIGHT (mm)	WIDTH (mm) 275	550	825	1100	1375	1650	1925	2200
300	0.31	0.62	0.92	1.23				
400	0.42	0.83	1.25	1.66	2.08			
500	0.53	1.06	1.58	2.11	2.63	3.16	3.69	
600	0.65	1.29	1.93	2.57	3.21	3.85	4.49	5.14
700	0.75	1.50	2.25	3.00	3.75	4.49	5.24	5.99
800	0.86	1.71	2.57	3.43	4.28	5.14	5.99	6.85
900	0.97	1.93	2.89	3.58	4.82	5.78	6.74	7.70
1000	1.07	2.14	3.21	4.28	5.35	6.42	7.49	8.56
1100	1.18	2.36	3.53	4.71	5.88	7.06	8.24	9.41
1200		2.57	3.85	5.14	6.42	7.70	8.99	10.3*
1300		2.78	4.17	5.56	6.95	8.34	9.73	11.2*
1400		3.00	4.49	5.99	7.49	8.99	10.5*	
1500		3.21	4.82	6.42	8.02	9.63	11.3*	
1600		3.43	5.14	6.85	8.56	10.3*		
1700		3.64	5.46	7.27	9.09	10.9*		
1800		3.85	5.78	7.70	9.63*			
1900		4.07	6.10	8.13	10.2*			
2000		4.28	6.42	8.56	10.7*			
2100		4.49	6.74	8.99	11.3*			
2200		4.71	7.06	9.41				
2300			7.38	9.84				
2400			7.70	10.3*				

*SEE NOTE 7

NOTES:

1. Tabulated volume flow rates will result at 60 Pa pressure losses for ducted attenuators, at air density of 1.2 kg/m³
2. Pressure loss varies in proportion to density.
3. Pressure loss varies in proportion to the square of the volume flow rate.
4. Maximum allowable volume flow rate is 1,25* the values given in the tables, pressure loss varying in proportion to the square of the factor.
5. Approximate regenerated noise levels.

Volume Flow Rate	NC	A-Scale
Over 0.63 to 0.8 * Tabulated Values	30	35
Over 0.8 to 1.0 * Tabulated Values	35	40
Over 1.0 to 1.25 * Tabulated Values	40	45

6. Tabulated values apply to attenuators ducted both sides. For pelnum entry and/or discharge the pressure loss is to be multiplied by the appropriate factor below.

Length	Plenum to Duct	Duct to Plenum	Plenum to Plenum
850/1150	1.15	2.78	3.03
1450/1750	1.13	2.51	2.63
2050/2350	1.10	2.26	2.60

7. Selection marked * are available only with the shorter attenuator

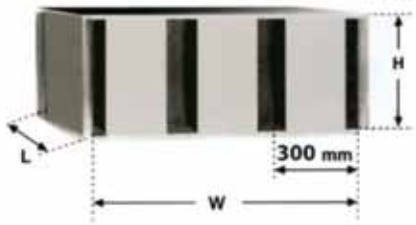
In collaboration with: Donkin Fans

SERIES PGL

RECTANGULAR ATTENUATORS - AIR WAY CODE B

DYNAMIC INSERTION LOSS RATING:

FORWARD FLOW (+)/ REVERSE FLOW (-)



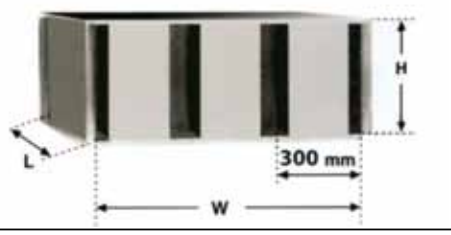
Model Dimensions (W x H x L)	Face Velocity		Static Pressure		Octave Band Center Frequency (Hz)							
	(fpm)	(m/s)	(in.wg)	(Pa)	63	125	250	500	1000	2000	4000	8000
PGL-B (W24in. x H24in. x L22in.) (W600mm x H600mm x L550mm)	-1500	-7.62	0.8	200	4	4	11	21	24	21	17	12
	-1000	-5.08	0.35	88	4	4	11	16	28	26	17	13
	-500	-2.54	0.09	23	4	3	10	15	28	25	17	14
	0	0	-	-	3	3	9	14	27	24	17	14
	500	2.54	0.09	23	3	3	9	13	27	25	18	14
	1000	5.08	0.35	88	2	2	8	12	26	25	18	13
	1500	7.62	0.8	200	1	2	8	12	26	24	17	13
	2000	10.16	1.35	336	1	2	8	12	23	23	19	14
PGL-B (W24in. x H24in. x L35in.) (W600mm x H600mm x L850mm) (AMCA Certified)	-1500	-7.62	0.87	217	6	7	15	25	31	26	19	13
	-1000	-5.08	0.38	95	5	7	15	24	35	30	19	14
	-500	-2.54	0.10	25	5	6	14	23	35	29	19	15
	0	0	-	-	4	6	13	22	34	28	19	15
	500	2.54	0.10	25	4	5	13	21	34	29	20	15
	1000	5.08	0.38	95	3	5	12	20	33	29	20	15
	1500	7.62	0.87	217	2	5	11	19	32	28	20	15
	2000	10.16	1.53	381	2	4	11	19	29	27	21	16
PGL-B (W24in. x H24in. x L46in.) (W600mm x H600mm x L1150mm) (AMCA Certified)	-1500	-7.62	1.03	257	7	10	20	33	32	25	23	15
	-1000	-5.08	0.47	117	6	10	19	32	34	36	24	16
	-500	-2.54	0.12	30	5	10	18	30	45	36	23	17
	0	0	-	-	4	8	17	29	44	36	23	18
	500	2.54	0.12	30	4	8	16	28	43	36	24	19
	1000	5.08	0.47	117	3	7	16	27	42	36	25	18
	1500	7.62	1.03	257	3	7	15	26	38	33	25	19
	2000	10.16	1.86	463	2	6	14	25	30	29	25	19
PGL-B (W24in. x H24in. x L58in.) (W600mm x H600mm x L1450mm)	-1500	-7.62	1.06	264	9	13	24	37	39	30	25	16
	-1000	-5.08	0.492	123	7	13	23	40	41	40	26	17
	-500	-2.54	0.126	32	6	13	22	38	52	40	25	18
	0	0	-	-	5	11	21	37	51	40	25	19
	500	2.54	0.126	32	5	10	20	36	50	40	26	20
	1000	5.08	0.492	123	4	10	20	35	49	40	27	20
	1500	7.62	1.06	264	4	10	18	33	44	37	28	21
	2000	10.16	1.959	488	3	8	17	32	36	33	27	21
PGL-B (W24in. x H24in. x L70in.) (W600mm x H600mm x L1750mm)	-1500	-7.62	1.161	289	11	17	29	41	47	35	27	17
	-1000	-5.08	0.528	132	9	17	28	48	49	45	29	19
	-500	-2.54	0.135	34	8	17	27	46	60	44	27	20
	0	0	-	-	7	14	25	45	58	45	27	21
	500	2.54	0.135	34	7	13	24	44	57	45	29	22
	1000	5.08	0.528	132	6	13	24	43	56	45	30	22
	1500	7.62	1.161	289	5	13	22	41	51	41	31	23
	2000	10.16	2.092	521	4	11	21	39	43	38	30	23
PGL-B (W24in. x H24in. x L84in.) (W600mm x H600mm x L2100mm)	-1500	-7.62	1.226	306	13	20	33	45	54	40	29	18
	-1000	-5.08	0.557	139	10	20	32	56	56	49	31	20
	-500	-2.54	0.142	36	9	20	31	54	67	48	29	21
	0	0	-	-	8	17	29	53	65	49	29	22
	500	2.54	0.142	36	8	15	28	52	64	49	31	23
	1000	5.08	0.557	139	7	16	28	51	63	49	32	24
	1500	7.62	1.226	306	6	16	25	48	57	45	34	25
	2000	10.16	2.208	550	5	13	24	46	49	42	32	25
PGL-B (W24in. x H24in. x L96in.) (W600mm x H600mm x L2400mm)	-1500	-7.62	1.291	322	15	24	38	49	62	45	31	19
	-1000	-5.08	0.586	146	12	24	37	64	64	54	34	22
	-500	-2.54	0.149	38	11	24	36	62	75	52	31	23
	0	0	-	-	10	20	33	61	72	54	32	24
	500	2.54	0.149	38	10	18	32	60	71	54	34	25
	1000	5.08	0.586	146	9	19	32	59	70	54	35	26
	1500	7.62	1.291	322	7	19	29	56	64	49	37	27
	2000	10.16	2.324	579	6	16	28	53	56	47	35	27

SERIES PGL

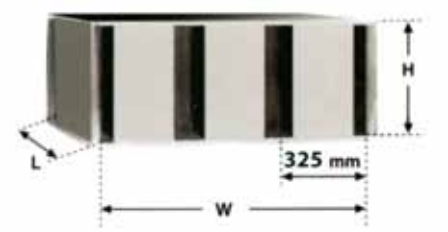
RECTANGULAR ATTENUATORS - AIR WAY CODE B

GENERATED SOUND POWER LEVEL:

FORWARD FLOW (+)/ REVERSE FLOW (-)



Model Dimensions (W x H x L)	Face Velocity		Static Pressure		Octave Band Center Frequency (Hz)							
	(fpm)	(m/s)	(in.wg)	(Pa)	63	125	250	500	1000	2000	4000	8000
PGL-B (W24in. x H24in. x L22in.) (W600mm x H600mm x L550mm)	-1500	-7.62	0.80	200	63	61	58	60	66	68	58	49
	-1000	-5.08	0.35	88	66	51	50	54	58	52	42	31
	-500	-2.54	0.09	23	65	43	41	42	37	25	19	24
	500	2.54	0.09	23	66	42	37	39	34	24	19	24
	1000	5.08	0.35	88	65	51	50	53	51	50	42	30
	1500	7.62	0.80	200	64	63	60	60	61	60	57	48
	2000	10.16	1.35	336	76	69	68	67	67	66	65	58
PGL-B (W24in. x H24in. x L35in.) (W600mm x H600mm x L850mm) (AMCA Certified)	-1500	-7.62	0.87	217	62	60	57	60	66	68	58	49
	-1000	-5.08	0.38	95	65	50	50	54	58	52	43	31
	-500	-2.54	0.10	25	65	44	41	41	36	25	19	24
	500	2.54	0.10	25	66	43	37	38	34	24	19	24
	1000	5.08	0.38	95	65	52	50	52	51	49	42	30
	1500	7.62	0.87	217	65	63	60	60	60	59	56	47
	2000	10.16	1.53	381	76	69	68	67	67	66	64	58
PGL-B (W24in. x H24in. x L46in.) (W600mm x H600mm x L1150mm) (AMCA Certified)	-1500	-7.62	1.03	257	66	59	58	60	66	71	61	52
	-1000	-5.08	0.47	117	60	52	51	55	64	55	48	37
	-500	-2.54	0.12	30	59	46	41	42	38	28	20	23
	500	2.54	0.12	30	64	46	38	38	36	27	19	23
	1000	5.08	0.47	117	62	53	50	52	52	50	45	34
	1500	7.62	1.03	257	72	62	60	59	60	60	58	50
	2000	10.16	1.86	463	75	69	68	67	67	66	66	60
PGL-B (W24in. x H24in. x L58in.) (W600mm x H600mm x L1450mm)	-1500	-7.62	1.06	264	65	58	57	60	66	71	61	52
	-1000	-5.08	0.492	123	59	51	51	55	64	55	49	37
	-500	-2.54	0.126	32	59	47	41	43	39	28	20	22
	500	2.54	0.126	32	64	47	38	37	36	27	19	23
	1000	5.08	0.492	123	62	54	50	51	52	49	45	34
	1500	7.62	1.06	264	73	62	60	59	59	59	57	49
	2000	10.16	1.959	488	75	69	68	67	67	66	65	60
PGL-B (W24in. x H24in. x L70in.) (W600mm x H600mm x L1750mm)	-1500	-7.62	1.161	289	64	57	57	60	66	71	62	53
	-1000	-5.08	0.528	132	59	51	51	56	65	56	50	38
	-500	-2.54	0.135	34	59	48	41	40	36	28	20	24
	500	2.54	0.135	34	64	48	39	37	36	27	19	23
	1000	5.08	0.528	132	63	55	50	51	52	49	45	34
	1500	7.62	1.161	289	75	62	60	59	59	59	57	49
	2000	10.16	2.092	521	75	70	68	67	67	66	65	60
PGL-B (W24in. x H24in. x L84in.) (W600mm x H600mm x L2100mm)	-1500	-7.62	1.226	306	63	56	56	60	66	71	62	53
	-1000	-5.08	0.557	139	58	50	51	56	65	56	51	38
	-500	-2.54	0.142	36	59	49	41	39	35	28	20	24
	500	2.54	0.142	36	64	49	39	36	36	27	19	23
	1000	5.08	0.557	139	63	56	50	50	52	48	45	34
	1500	7.62	1.226	306	76	62	60	59	58	58	56	48
	2000	10.16	2.208	550	75	70	68	67	67	66	64	60
PGL-B (W24in. x H24in. x L96in.) (W600mm x H600mm x L2400mm)	-1500	-7.62	1.291	322	62	55	56	60	66	71	63	54
	-1000	-5.08	0.586	146	58	50	51	57	66	57	52	39
	-500	-2.54	0.149	38	59	50	41	38	34	28	20	25
	500	2.54	0.149	38	64	50	40	36	36	27	19	23
	1000	5.08	0.586	146	64	57	50	50	52	48	45	34
	1500	7.62	1.291	322	78	62	60	59	58	58	56	48
	2000	10.16	2.324	579	75	71	68	67	67	66	64	60



RECTANGULAR ATTENUATORS – MODEL: PGL

SERIES PGL

LOW PRESSURE LOSS RECTANGULAR ATTENUATORS
ATTENUATOR PERFORMANCE - AIR WAY CODE C

Lengths 850 mm and 1150 mm

LENGTH	STATIC INSERTION LOSS OCTAVE BAND MEAN FREQUENCY (Hz)							
	63	125	250	500	1K	2K	4K	8K
850	6	9	15	26	32	27	18	15
1150	7	10	19	35	37	32	24	16

TABLE OF VOLUME FLOW RATES (m³/s)

HEIGHT	WIDTH (mm)						
(mm)	**325**	**650**	**975**	**1300**	**1625**	**1950**	**2275**
300	0.67	1.33	2.00				
400	0.91	1.81	2.72	3.62			
500	1.16	2.31	3.46	4.61	5.77	6.92	
600	1.42	2.83	4.24	5.65	7.07	8.48	9.89
700	1.65	3.30	4.95	6.59	8.24	9.89	11.6
800	1.89	3.77	5.65	7.54	9.42	11.3	13.2
900	2.12	4.24	6.36	8.48	10.6	12.8	14.9
1000	2.36	4.71	7.07	9.42	11.8	14.2	16.5
1100	2.59	5.18	7.77	10.4	13.0	15.6	18.2
1200	2.83	5.65	8.48	11.3	14.2	17.0	19.8
1300	3.06	6.12	9.18	12.3	15.3	18.4	21.5
1400		6.59	9.89	13.2	16.5	19.8	23.1
1500		7.07	10.6	14.2	17.7	21.2	24.8
1600		7.54	11.3	15.1	18.9	22.6	26.4
1700		8.01	12.0	16.0	20.0	24.0	28.1
1800		8.48	12.8	17.0	21.2	25.5	29.7
1900		8.95	13.5	17.9	22.4	26.9	31.3
2000		9.42	14.2	18.9	23.6	28.3	33.0
2100		9.89	14.9	19.8	24.8	29.7	34.6
2200		10.4	15.6	20.8	25.9	31.1	36.3
2300		10.9	16.3	21.7	27.1	32.5	37.9*
2400		11.3	17.0	22.6	28.3	33.9	39.6*

Lengths 1450 mm and 1750 mm

LENGTH	STATIC INSERTION LOSS OCTAVE BAND MEAN FREQUENCY (Hz)							
	63	125	250	500	1K	2K	4K	8K
1450	7	12	23	42	41	37	28	19
1750	8	15	28	46	43	41	33	21

TABLE OF VOLUME FLOW RATES (m³/s)

HEIGHT	WIDTH (mm)						
(mm)	**325**	**650**	**975**	**1300**	**1625**	**1950**	**2275**
300	0.60	1.20	1.79				
400	0.82	1.63	2.44	3.25			
500	1.04	2.08	3.11	4.15	5.18	6.22	
600	1.28	2.55	3.82	5.09	6.36	7.63	8.90
700	1.49	2.97	4.45	5.94	7.42	8.90	10.4
800	1.70	3.39	5.09	6.78	8.48	10.2	11.9
900	1.91	3.82	5.73	7.63	9.54	11.5	13.4
1000	1.12	4.24	6.36	8.48	10.6	12.8	14.9
1100	2.33	4.67	7.00	9.33	11.7	14.0	16.4
1200	2.55	5.09	7.63	10.2	12.8	15.3	17.8
1300	2.76	5.51	8.27	11.1	13.8	10.6	19.3
1400		5.94	8.90	11.9	14.9	17.8	20.8
1500		6.36	9.54	12.8	15.9	19.1	22.3
1600		6.78	10.2	13.6	17.0	20.4	23.8*
1700		7.21	10.8	14.4	18.1	21.7	25.3*
1800		7.63	11.5	15.3	19.1	22.9*	26.7*
1900		8.06	12.1	16.1	20.2	24.2*	
2000		8.48	12.8	17.0	21.2	25.5	
2100		8.90	13.4	17.8	22.3	26.7*	
2200		9.33	14.0	18.7	23.3		
2300		9.75	14.7	19.5	24.4*		
2400		10.2	15.3	20.4	25.5*		

* SEE NOTE 7

Lengths 2050 mm and 2350 mm

LENGTH	STATIC INSERTION LOSS OCTAVE BAND MEAN FREQUENCY (Hz)							
	63	125	250	500	1K	2K	4K	8K
2050	7	9	32	50	47	44	38	24
2350	8	10	37	50	50	47	44	28

TABLE OF VOLUME FLOW RATES (m³/s)

HEIGHT	WIDTH (mm)						
(mm)	**325**	**650**	**975**	**1300**	**1625**	**1950**	**2275**
300	0.54	1.08	1.62				
400	0.54	1.48	2.2	2.95			
500	0.95	1.89	2.84	3.78	4.73	5.67	
600	1.17	2.34	3.50	4.67	5.83	7.00	8.16
700	1.36	2.72	4.08	5.44	6.80	8.16	9.52
800	1.56	3.11	4.67	6.22	7.77	9.33	10.9
900	1.75	3.50	5.25	7.00	8.75	10.5	12.3
1000	1.95	3.89	5.83	7.77	9.72	11.7	13.6
1100	2.14	4.28	6.41	8.55	10.7	12.9	15.0
1200	2.34	4.67	7.00	9.33	11.7	14.0	16.4*
1300	2.53	5.06	7.58	10.1	12.7	15.2	
1400		5.44	8.16	10.9	13.6	16.4*	
1500		5.83	8.75	11.7	14.6	17.5*	
1600		6.22	9.33	12.5	15.6*		
1700		6.61	9.91	13.3	16.6*		
1800		7.00	10.5	14.0	17.5*		
1900		7.39	11.1	14.8			
2000		7.77	11.7	15.6*			
2100		8.16	12.3	16.4*			
2200		8.55	12.9	17.1*			
2300		8.94	13.4				
2400		9.33	14.0				

* SEE NOTE 7

NOTES:

1. Tabulated volume flow rates will result at 60 Pa pressure losses for ducted attenuators, at air density of 1.2 kg/m³
2. Pressure loss varies in proportion to density.
3. Pressure loss varies in proportion to the square of the volume flow rate.
4. Maximum allowable volume flow rate is 1,25* the values given in the tables, pressure loss varying in proportion to the square of the factor.
5. Approximate regenerated noise levels.

Volume Flow Rate	NC	A-Scale
Over 0.63 to 0.8 * Tabulated Values	30	35
Over 0.8 to 1.0 * Tabulated Values	35	40
Over 1.0 to 1.25 * Tabulated Values	40	45

6. Tabulated values apply to attenuators ducted both sides. For pelnum entry and/or discharge the pressure loss is to be multiplied by the appropriate factor below.

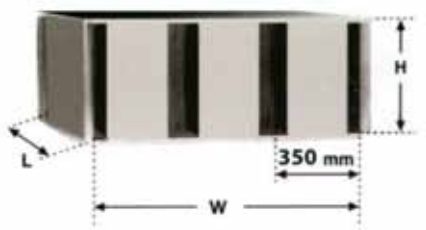
Length	Plenum to Duct	Duct to Plenum	Plenum to Plenum
850/1150	1.25	3.48	3.73
1450/1750	1.20	3.01	3.22
2050/2350	1.17	2.69	2.86

7. Selection marked * are available only with the shorter attenuator

in collaboration with: Donkin Fans

SERIES PGL

LOW PRESSURE LOSS RECTANGULAR ATTENUATORS
ATTENUATOR PERFORMANCE - AIR WAY CODE D



Lengths 850 mm and 1150 mm

LENGTH	STATIC INSERTION LOSS OCTAVE BAND MEAN FREQUENCY (Hz)							
	63	125	250	500	1K	2K	4K	8K
850	6	7	14	22	30	23	15	12
1150	6	9	18	31	34	28	19	13

TABLE OF VOLUME FLOW RATES (m³/s)

HEIGHT	WIDTH (mm)					
(mm)	**350**	**700**	**1050**	**1400**	**1750**	**2100**
300	0.83	1.66	2.49			
400	1.13	2.26	3.39	4.52		
500	1.45	2.89	4.33	5.78	7.22	
600	1.78	3.55	5.32	7.09	8.86	10.7
700	2.07	4.14	6.21	8.27	10.4	12.4
800	2.37	4.73	7.09	9.45	11.9	14.2
900	2.66	5.32	7.98	10.7	13.3	16.0
1000	2.96	5.91	8.86	11.9	14.8	17.8
1100	3.25	6.50	9.75	13.0	16.3	19.5
1200	3.55	7.09	10.7	14.2	17.8	21.3
1300	3.84	7.68	11.6	15.4	19.2	23.1
1400	4.14	8.27	12.4	16.6	20.7	24.8
1500		8.86	13.3	17.8	22.2	26.6
1600		9.45	14.2	18.9	23.7	28.4
1700		10.1	15.1	20.1	25.1	30.2
1800		10.7	16.0	21.3	26.6	31.9
1900		11.3	16.9	22.5	28.1	33.7
2000		11.9	17.8	23.7	29.6	35.5
2100		12.4	18.6	24.8	31.0	37.2
2200		13.0	19.5	26.0	32.5	39.0
2300		13.6	20.4	27.2	34.0	40.8
2400		14.2	21.3	28.4	35.5	42.6

Lengths 1450 mm and 1750 mm

LENGTH	STATIC INSERTION LOSS OCTAVE BAND MEAN FREQUENCY (Hz)							
	63	125	250	500	1K	2K	4K	8K
1450	7	11	21	39	39	34	24	15
1750	7	14	25	44	43	38	29	17

TABLE OF VOLUME FLOW RATES (m³/s)

HEIGHT	WIDTH (mm)					
(mm)	**350**	**700**	**1050**	**1400**	**1750**	**2100**
300	0.74	1.47	2.21			
400	1.01	2.02	3.03	4.04		
500	1.30	2.60	3.89	5.19	6.49	
600	1.61	3.21	4.82	6.42	8.03	9.63
700	1.88	3.75	5.62	7.49	9.37	11.3
800	2.14	4.28	6.42	8.56	10.7	12.9
900	2.41	4.82	7.23	9.63	12.1	14.5
1000	2.68	5.35	8.03	10.7	13.4	16.1
1100	2.95	5.89	8.83	11.8	14.8	17.7
1200	3.21	6.42	9.63	12.9	16.1	19.3
1300	3.48	6.96	10.5	14.0	17.4	20.9
1400	3.75	7.49	11.3	15.0	18.8	22.5
1500		8.03	12.1	16.1	20.1	24.1
1600		5.56	12.9	17.2	21.4	25.7
1700		9.10	13.7	18.2	22.8	27.3*
1800		9.63	14.5	19.3	24.1	28.9*
1900		10.2	15.3	20.4	25.5	30.5*
2000		10.7	16.1	21.4	26.8*	
2100		11.3	16.9	22.5	28.1*	
2200		11.8	17.7	23.6	29.5*	
2300		12.5	18.5	24.7	30.8*	
2400		12.9	19.3	25.7		*SEE NOTE 7

Lengths 2050 mm and 2350 mm

LENGTH	STATIC INSERTION LOSS OCTAVE BAND MEAN FREQUENCY (Hz)							
	63	125	250	500	1K	2K	4K	8K
2050	8	16	30	48	46	42	34	20
2350	9	19	34	50	48	46	39	22

TABLE OF VOLUME FLOW RATES (m³/s)

HEIGHT	WIDTH (mm)					
(mm)	**350**	**700**	**1050**	**1400**	**1750**	**2100**
300	0.68	1.35	2.03			
400	0.93	1.86	2.78	3.71		
500	1.20	2.39	3.58	4.77	5.96	
600	1.48	2.96	4.43	5.91	7.38	8.86
700	1.73	3.45	5.17	6.89	8.61	10.4
800	1.97	3.94	5.91	7.87	9.84	11.8
900	2.22	4.43	6.64	8.86	11.1	13.3
1000	2.46	4.92	7.38	9.84	12.3	14.8
1100	2.71	5.41	8.12	10.9	13.6	16.3
1200	2.96	5.91	8.86	11.8	14.8	17.7
1300	3.20	6.40	9.60	12.8	16.0	19.2*
1400	3.45	6.89	10.4	13.8	17.3	
1500		7.38	11.1	14.8	18.5*	
1600		7.87	11.8	15.8	19.7*	
1700		8.37	12.6	16.8		
1800		8.86	13.3	17.7		
1900		9.35	14.1	28.7*		
2000		9.84	14.8	19.7*		
2100		10.4	15.5			
2200		10.9	16.3			
2300		11.4	17.0			
2400		11.8	17.7			*SEE NOTE 7

NOTES:

1. Tabulated volume flow rates will result at 60 Pa pressure losses for ducted attenuators, at air density of 1.2 kg/m³
2. Pressure loss varies in proportion to density.
3. Pressure loss varies in proportion to the square of the volume flow rate.
4. Maximum allowable volume flow rate is 1,25* the values given in the tables, pressure loss varying in proportion to the square of the factor.
5. Approximate regenerated noise levels.

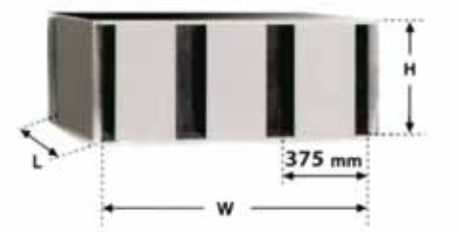
Volume Flow Rate	NC	A-Scale
Over 0.63 to 0.8 * Tabulated Values	30	35
Over 0.8 to 1.0 * Tabulated Values	35	40
Over 1.0 to 1.25 * Tabulated Values	40	45

6. Tabulated values apply to attenuators ducted both sides. For pelnum entry and/or discharge the pressure loss is to be multiplied by the appropriate factor below.

Length	Plenum to Duct	Duct to Plenum	Plenum to Plenum
850/1150	1.29	3.83	4.10
1450/1750	1.24	3.33	3.54
2050/2350	1.20	2.96	3.15

7. Selection marked * are available only with the shorter attenuator

In collaboration with: Donkin Fans



RECTANGULAR ATTENUATORS – MODEL: PGL

SERIES PGL

LOW PRESSURE LOSS RECTANGULAR ATTENUATORS
ATTENUATOR PERFORMANCE - AIR WAY CODE E

Lengths 850 mm and 1150 mm

LENGTH	STATIC INSERTION LOSS OCTAVE BAND MEAN FREQUENCY (Hz)							
	63	125	250	500	1K	2K	4K	8K
850	5	7	13	20	26	20	13	9
1150	6	8	17	27	31	25	15	10

TABLE OF VOLUME FLOW RATES (m³/s)

HEIGHT / WIDTH (mm)	375	750	1125	1500	1875	2250
(mm)						
300	1.01	2.02	3.03			
400	1.38	2.75	4.13	5.50		
500	1.76	3.52	5.28	7.04	8.80	
600	2.17	4.33	6.50	8.66	10.9	13.0
700	2.53	5.06	7.58	10.1	12.7	15.2
800	2.89	5.78	8.66	11.6	14.5	17.4
900	3.25	6.50	9.75	13.0	16.3	19.5
1000	3.61	7.22	10.9	14.5	18.1	21.7
1100	3.97	7.94	11.9	15.9	19.9	23.9
1200	4.33	8.66	13.0	17.4	21.7	26.0
1300	4.69	9.39	14.1	18.8	23.5	28.2
1400	5.06	10.1	15.2	20.2	25.3	30.4
1500	5.42	10.9	16.3	21.7	27.1	32.5
1600		11.6	17.4	23.1	28.9	34.7
1700		12.3	18.4	24.6	30.7	36.8
1800		13.0	19.5	26.0	32.5	39.0
1900		13.8	20.6	27.5	34.3	41.2
2000		14.5	21.7	28.9	36.1	43.3
2100		15.2	22.8	30.4	37.9	45.5
2200		15.9	23.9	31.8	39.7	47.7
2300		16.6	24.9	33.2	41.5	49.8
2400		17.4	26.0	34.7	43.3	52.0*

Lengths 1450 mm and 1750 mm

LENGTH	STATIC INSERTION LOSS OCTAVE BAND MEAN FREQUENCY (Hz)							
	63	125	250	500	1K	2K	4K	8K
1450	7	10	20	34	37	29	18	12
1750	7	12	24	39	40	34	22	13

TABLE OF VOLUME FLOW RATES (m³/s)

HEIGHT / WIDTH (mm)	375	750	1125	1500	1875	2250
(mm)						
300	0.92	1.84	2.75			
400	1.26	2.51	3.76	5.01		
500	1.61	3.22	4.82	6.43	8.03	
600	1.99	3.97	5.95	7.93	9.91	11.9
700	2.32	4.63	6.94	9.25	11.6	13.9
800	2.65	5.29	7.93	10.6	13.2	15.9
900	2.98	5.95	8.92	11.9	14.9	17.9
1000	3.31	6.61	9.91	13.2	16.6	19.9
1100	3.64	7.27	10.9	14.6	18.2	21.8
1200	3.97	7.93	11.9	15.9	19.9	23.8
1300	4.30	8.59	12.9	17.2	21.5	25.8
1400	4.63	9.25	13.9	18.5	23.2	27.8
1500	4.96	9.91	14.9	19.9	24.8	29.8
1600		10.6	15.9	21.2	26.5	31.7*
1700		11.3	16.9	22.5	28.1	33.7*
1800		11.9	17.9	23.8	29.8	35.7*
1900		12.6	18.9	25.1	31.4*	
2000		13.2	19.9	26.5	33.1	
2100		13.9	20.8	27.8	34.7*	
2200		14.6	21.8	29.1	36.4*	
2300		15.2	22.8	30.4		
2400		15.9	23.8	31.7*		*SEE NOTE 7

Lengths 2050 mm and 2350 mm

LENGTH	STATIC INSERTION LOSS OCTAVE BAND MEAN FREQUENCY (Hz)							
	63	125	250	500	1K	2K	4K	8K
2050	7	15	28	44	45	38	25	14
2350	8	17	32	47	50	42	28	15

TABLE OF VOLUME FLOW RATES (m³/s)

HEIGHT / WIDTH (mm)	375	750	1125	1500	1875	2250
(mm)						
300	0.84	1.67	2.51			
400	1.15	2.30	3.45	4.59		
500	1.49	2.97	4.45	5.94	7.42	
600	1.85	3.69	5.54	7.38	9.23	11.1
700	2.16	4.31	6.46	8.61	10.8	13.0
800	2.46	4.92	7.38	9.84	12.3	14.8
900	2.77	5.54	8.30	11.1	13.9	16.6
1000	3.08	6.15	9.23	12.3	15.4	18.5
1100	3.3.9	6.77	10.2	13.6	16.9	20.3
1200	3.69	7.38	11.1	14.8	18.5	22.2*
1300	4.00	8.00	12.0	16.0	20.0	24.0*
1400	4.31	8.61	13.0	17.3	21.6*	
1500	4.62	9.23	13.9	18.5	23.1*	
1600		9.84	14.8	19.7		
1700		10.5	15.7	20.9		
1800		11.1	16.6	22.2*		
1900		11.7	17.6	23.4*		
2000		12.3	18.5			
2100		13.0	19.4			
2200		13.6	20.3			
2300		14.2	21.3*			
2400		14.8	22.2*			*SEE NOTE 7

NOTES:

1. Tabulated volume flow rates will result at 60 Pa pressure losses for ducted attenuators, at air density of 1.2 kg/m³
2. Pressure loss varies in proportion to density.
3. Pressure loss varies in proportion to the square of the volume flow rate.
4. Maximum allowable volume flow rate is 1,25* the values given in the tables, pressure loss varying in proportion to the square of the factor.
5. Approximate regenerated noise levels.

Volume Flow Rate	NC	A-Scale
Over 0.63 to 0.8 * Tabulated Values	30	35
Over 0.8 to 1.0 * Tabulated Values	35	40
Over 1.0 to 1.25 * Tabulated Values	40	45

6. Tabulated values apply to attenuators ducted both sides. For pelnum entry and/or discharge the pressure loss is to be multiplied by the appropriate factor below.

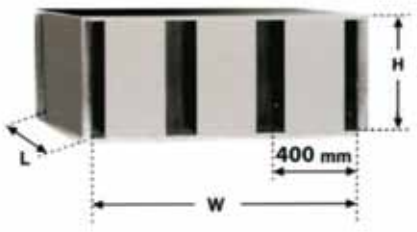
Length	Plenum to Duct	Duct to Plenum	Plenum to Plenum
850/1150	1.35	4.19	4.53
1450/1750	1.28	3.68	3.96
2050/2350	1.25	3.32	3.56

7. Selection marked * are available only with the shorter attenuator

In collaboration with: Donkin Fans

SERIES PGL

LOW PRESSURE LOSS RECTANGULAR ATTENUATORS
ATTENUATOR PERFORMANCE - AIR WAY CODE F



Lengths 850 mm and 1150 mm

LENGTH	STATIC INSERTION LOSS OCTAVE BAND MEAN FREQUENCY (Hz)							
	63	125	250	500	1K	2K	4K	8K
850	5	6	12	18	21	16	11	7
1150	5	8	16	24	28	21	12	8

TABLE OF VOLUME FLOW RATES (m³/s)

HEIGHT (mm)	WIDTH (mm) 400	800	1200	1600	2000
300	1.20	2.41	3.61		
400	1.65	3.29	4.93	6.57	
500	2.11	4.21	6.32	8.43	10.6
600	2.60	5.20	7.79	10.4	13.0
700	3.03	6.06	9.09	12.2	15.2
800	3.47	6.93	10.4	13.9	17.3
900	3.90	7.79	11.7	15.6	19.5
1000	4.33	8.66	13.0	17.3	21.7
1100	4.76	9.52	14.3	19.1	23.8
1200	5.20	10.4	15.6	20.8	26.0
1300	5.63	11.3	16.9	22.5	28.2
1400	6.06	12.2	18.2	24.3	30.3
1500	6.50	13.0	19.5	26.0	32.5
1600	6.93	13.9	20.8	27.7	34.7
1700		14.8	22.1	29.5	36.8
1800		15.6	23.4	31.2	39.0
1900		16.5	24.7	32.9	41.2
2000		17.3	26.0	34.7	43.3
2100		18.2	27.3	36.4	45.5
2200		19.1	28.6	38.1	47.6
2300		19.9	29.9	39.9	49.8
2400		20.8	31.2	41.6	52.0*

Lengths 1450 mm and 1750 mm

LENGTH	STATIC INSERTION LOSS OCTAVE BAND MEAN FREQUENCY (Hz)							
	63	125	250	500	1K	2K	4K	8K
1450	6	10	20	30	35	25	14	9
1750	6	12	23	35	39	28	15	10

TABLE OF VOLUME FLOW RATES (m³/s)

HEIGHT (mm)	WIDTH (mm) 400	800	1200	1600	2000
300	1.11	2.22	3.32		
400	1.52	3.04	4.56	6.07	
500	1.96	3.91	5.86	7.82	9.77
600	2.42	4.84	7.26	9.68	12.1
700	2.83	5.65	8.47	11.3	14.2
800	3.23	6.46	9.68	12.9	16.2
900	3.63	7.26	10.9	14.6	18.2
1000	4.04	8.07	12.1	16.2	20.2
1100	4.44	8.88	13.3	17.8	22.2
1200	4.84	9.68	14.6	19.4	24.2
1300	5.25	10.5	15.8	21.0	26.3
1400	5.65	11.3	17.0	22.6	28.3
1500	6.05	12.1	18.2	24.2	30.3
1600	6.46	12.9	19.4	25.8	32.3
1700		13.8	20.6	27.5	34.3
1800		14.6	21.8	29.1	36.3*
1900		15.4	23.0	30.7	38.3*
2000		16.2	24.2	32.3	40.4*
2100		17.0	25.4	33.9	
2200		17.8	26.7	35.5*	
2300		18.6	27.9	37.1*	
2400		19.4	29.1	38.8*	

*SEE NOTE 7

Lengths 2050 mm and 2350 mm

LENGTH	STATIC INSERTION LOSS OCTAVE BAND MEAN FREQUENCY (Hz)							
	63	125	250	500	1K	2K	4K	8K
2050	7	14	27	40	45	32	17	10
2350	8	16	30	45	50	36	18	11

TABLE OF VOLUME FLOW RATES (m³/s)

HEIGHT (mm)	WIDTH (mm) 400	800	1200	1600	2000
300	1.02	2.04	3.06		
400	1.41	2.81	4.22	5.63	
500	1.83	3.66	5.48	7.31	9.13
600	2.29	4.57	6.86	9.14	11.5
700	2.67	5.33	8.00	10.7	13.4
800	3.05	6.10	9.14	12.2	15.3
900	3.43	6.86	10.3	13.7	17.2
1000	3.81	7.62	11.5	15.3	19.1
1100	4.19	8.38	12.6	16.8	21.0
1200	4.57	9.14	13.7	18.3	22.9
1300	4.95	9.90	14.9	19.8	24.8*
1400	5.33	10.7	16.0	21.4	26.7*
1500	5.71	11.5	17.2	22.9	
1600	6.10	12.2	18.3	24.4*	
1700		13.0	19.5	25.9*	
1800		13.7	20.6	27.4	
1900		14.5	21.7		
2000		15.3	22.9		
2100		16.0	24.0		
2200		16.8	25.2*		
2300		17.6	26.3*		
2400		18.3	27.4*		

*SEE NOTE 7

NOTES:

1. Tabulated volume flow rates will result at 60 Pa pressure losses for ducted attenuators, at air density of 1.2 kg/m³
2. Pressure loss varies in proportion to density.
3. Pressure loss varies in proportion to the square of the volume flow rate.
4. Maximum allowable volume flow rate is 1,25* the values given in the tables, pressure loss varying in proportion to the square of the factor.
5. Approximate regenerated noise levels.

Volume Flow Rate	NC	A-Scale
Over 0.63 to 0.8 * Tabulated Values	30	35
Over 0.8 to 1.0 * Tabulated Values	35	40
Over 1.0 to 1.25 * Tabulated Values	40	45

6. Tabulated values apply to attenuators ducted both sides. For plenum entry and/or discharge the pressure loss is to be multiplied by the appropriate factor below.

Length	Plenum to Duct	Duct to Plenum	Plenum to Plenum
850/1150	1.40	4.61	5.03
1450/1750	1.34	4.13	4.50
2050/2350	1.31	3.79	4.12

7. Selection marked * are available only with the shorter attenuator

In collaboration with: Donkin Fans