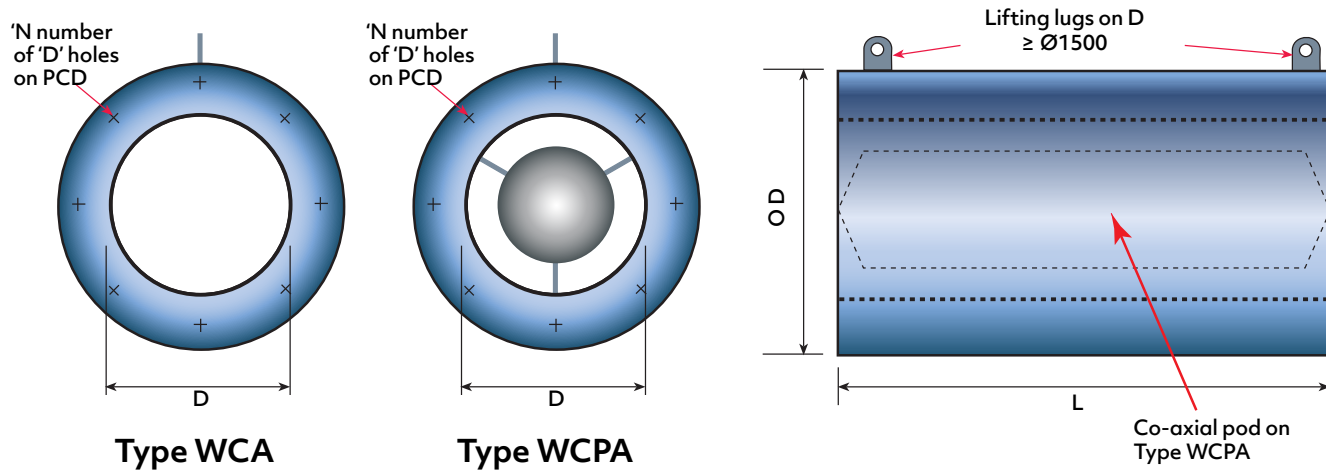


# Cylindrical Sound Attenuators



Windsor cylindrical sound attenuators provide an efficient method of reducing your factory noise emissions.

## Dimensions



Nominal size "D"	Dimensions (mm)			Standard Drillings *			Weight (kg)			
	OD	L		N # of holes	D Thread	PCD mm	WCA		WCPA	
		1D	2D				1D	2D	1D	2D
150	240	150	300	4	M6	184	1.8	3.6		
190	280	190	380	4	M6	216	2.4	4.8		
240	330	240	480	4	M8	273	3.4	6.8		
300	460	305	610	8	M10	349	9.5	16	13	19
380	540	380	760	8	M12	425	12	21	17	26
480	640	483	965	8	M12	541	21	33	25	40
610	757	580	1130	12	M12	668	26	44	35	55
760	920	760	1520	12	M12	821	43	74	56	92
965	1155	965	1930	16	M16	1035	80	146	96	170
1220	1410	1180	2330	20	M16	1289	116	235	155	290
1520	1720	1520	3140	12	M16	1626	246	501	318	603

\* Non standard sizes and flange drillings are available to order

## End reflection corrections

Nominal dia mm	Octave band mid frequency (Hz)				
	63	125	250	500	1K
150	21	15	10	5	1
190	19	13	8	4	1
240	17	12	7	3	
300	15	10	5	2	
380	14	8	4	1	
480	11	6	2		
610	9	5	1		
760	8	3	1		
965	6	2			
1220	5	1			
1520	3	1			

## Construction

- Hot dipped galvanised casing.
- Rot & vermin proof, flame resistant acoustic linings protected by perforated galvanised inner skin.

## Performance

Figures are based on fully ducted systems.

It is recommended that where a WPCA attenuator is used on an axial flow fan inlet, a spacer duct 1 x diameter long is fitted between the inlet flange and the attenuator

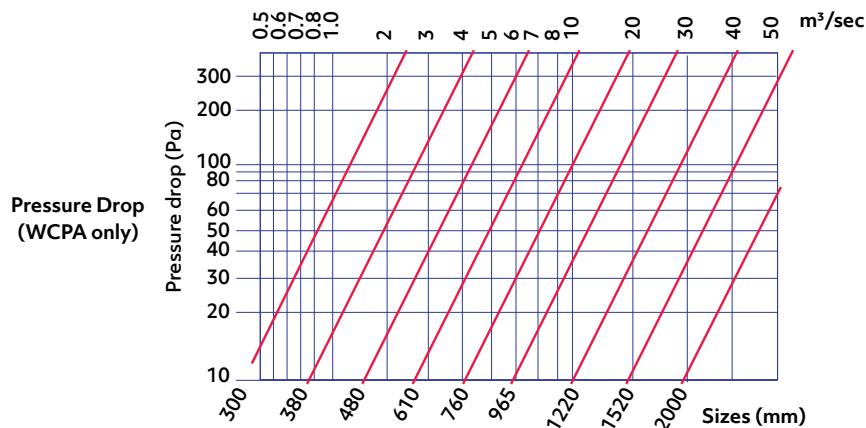
If the attenuator is the terminal component (ie Not ducted) a degree of additional attenuation may be added

# Fan Connected Performance Data - Dynamic Insertion Loss (dB)



Nominal fan dia "D" (mm)	Attenuator		Approx pitch angle setting*	Band N° and Octave band							
				1	2	3	4	5	6	7	8
	Length	Type		63	125	250	500	1K	2K	4K	8K
150 190 240	1D	WCA-1D	All	2	3	4	9	15	14	9	9
	2D	WCA-2D	Low	4	6	8	17	24	23	17	17
			Med	4	6	8	16	23	22	17	17
High			4	6	7	14	21	22	16	16	
300 380 480	1D	WCA-1D	All	2	4	6	10	14	10	7	8
		WCPA-1D	Low	4	6	8	13	20	21	18	16
			Med	4	6	8	12	18	19	16	14
	High		4	6	8	11	13	16	12	11	
	2D	WCA-2D	Low	4	6	8	13	20	21	18	16
			Med	4	6	8	12	18	19	16	14
			High	4	6	8	11	13	16	12	11
		WCPA-2D	Low	7	10	15	24	32	35	30	28
			Med	7	10	15	21	26	26	24	22
High			7	10	15	16	15	17	13	13	
610 760	1D	WCA-1D	All	3	4	8	14	14	9	8	7
		WCPA-1D	Low	4	6	9	17	26	21	18	12
			Med	4	6	9	17	23	20	18	11
			High	4	6	9	16	17	16	14	11
	2D	WCA-2D	Low	4	6	9	17	26	21	18	12
			Med	4	6	9	17	23	20	18	11
			High	4	6	9	16	17	16	14	11
		WCPA-2D	Low	6	8	14	23	24	15	13	10
			Med	6	8	14	23	24	15	13	10
965 1220	1D	WCA-1D	All	3	4	9	14	12	8	7	7
		WCPA-1D	Low	3	4	9	14	12	8	7	7
			Med	4	6	11	22	21	16	14	11
			High	4	6	11	17	17	14	12	11
	2D	WCA-2D	Low	6	8	14	22	20	13	12	10
			Med	6	8	13	21	18	12	11	10
			High	6	8	12	19	15	11	10	9
		WCPA-2D	Low	8	11	19	30	32	30	24	17
			Med	8	11	19	26	27	26	22	16
1520 2000 2450	1D	WCA-1D	All	4	5	10	14	11	7	6	6
		WCPA-1D	Low	5	7	12	21	20	14	12	9
			Med	5	7	12	19	18	13	11	9
			High	5	7	12	15	16	12	10	8
	2D	WCA-2D	Low	8	9	15	20	19	12	11	9
			Med	8	9	14	20	17	11	10	9
			High	8	9	13	19	14	10	9	8
		WCPA-2D	Low	10	14	22	28	31	29	18	15
			Med	10	14	22	25	27	25	16	15
High	10	14	22	21	21	21	15	14			

\*Pitch angles correspond approximately to settings of 10°, 20° and 30°



## Some of our other sound attenuators



## Other products & services

[windsor.sales@windsor.co.nz](mailto:windsor.sales@windsor.co.nz)

Windsor Engineering Group provides full-life service and maintenance support to customers throughout New Zealand.

Our dedicated service team provides installation, commissioning, routine maintenance, emergency cover and engineered upgrade work for all industrial applications and works with customers from all industry sectors.

Other products & services offered include:

### Air filtration

- Chemical gas & odour filtration
- Filter media
- Frames, housings & accessories
- HEPA filters
- Hospital & clean room equipment
- Panel filters
- Pocket filters
- Servicing & parts

### Coils

- Air handling units
- Boiler heat recovery units
- Direct expansion coils
- Finned tube
- Laundry coils
- Special coils
- Stainless steel water coils
- Steam coils
- Thermal fluid coils & tube bundles
- Unit heaters
- Water coils

### Cooling towers

- Packaged cooling towers
- Site erected cooling towers
- Servicing & parts

### Energy

- Air Heaters
- Biomass conversions
- Boilers
- Servicing & parts

### Expanded metals

- Animal cages, benches, bird proofing, building cladding
- Car grilles, ceiling panels, correctional facilities & transport
- Decorative panels, display stands
- Filters, fire screens, flooring, gratings, grilles
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- Racks, screens for anti-glare, privacy, sun & ventilation
- Shelving, security mesh, street furniture
- Strengthening and reinforcing material for concrete & plastic products, trays, ventilation

### Heat exchangers

### Industrial fans & blowers

- Blowers
- Clean air fans
- Material handling fans
- MVR fans
- Packaged blowers
- Specialised fans

### Material handling equipment

- Pneumatic transfer
- Rotary valves
- Silos

### Noise control

- Acoustic enclosures & louvres
- Attenuators
- Specialised attenuation

**Please contact our Wellington sales office for attenuators:**

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