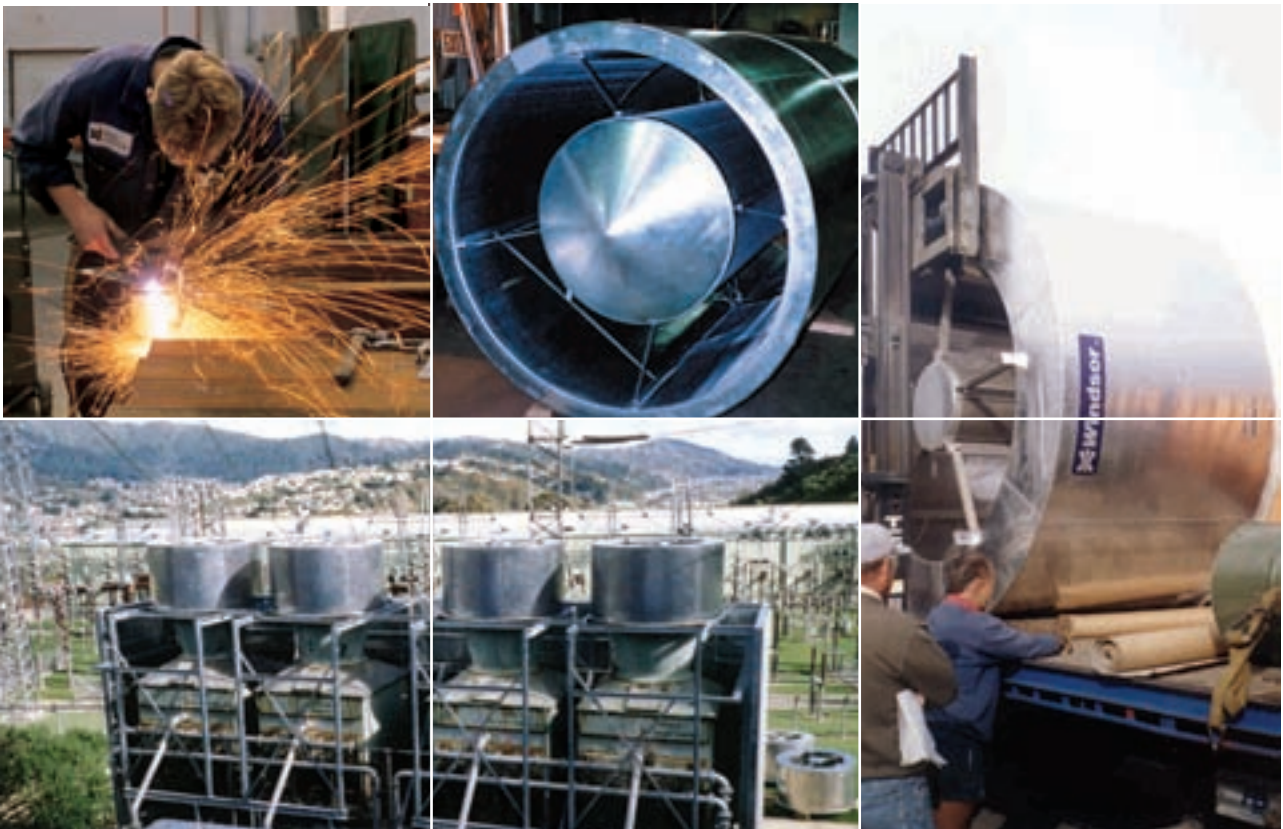
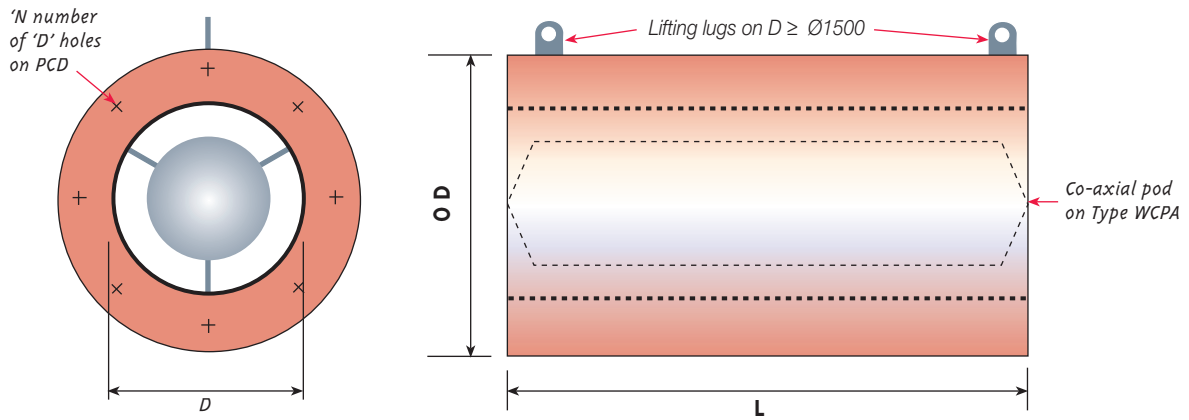


Setting the standards

CYLINDRICAL SOUND ATTENUATORS





Nominal size 'D'	Dimensions (mm)			Standard drillings*			Weight (kg)			
	O D	L		N # of holes	d Thread	PCD mm	WCA		WCPA	
		ID	2D				ID	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

Construction

- Hot dipped galvanised casing
- Inert, rot proof, flame resistant acoustic linings protected by perforated galvanised inner skin

Performance notes

- Figures are based on fully ducted systems. It is recommended that where a WCPA 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

End Reflection Corrections

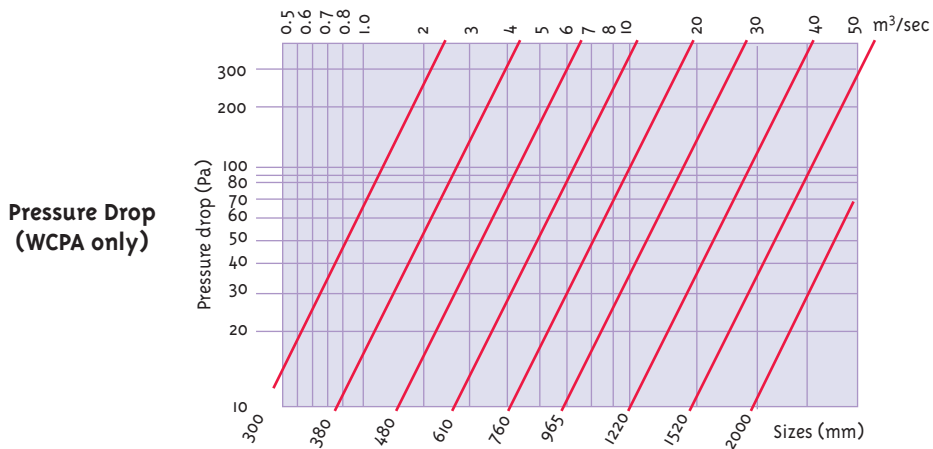
Nominal dia mm	Octave band Mid Frequency (Hz)				
	63	125	250	500	1K
150	21	15	10	5	1
190	19	13	8	4	1
240	17	12	7	3	
300	15	10	5	2	
380	14	8	4	1	
480	11	6	2		
610	9	5	1		
760	8	3	1		
965	6	2			
1220	5	1			
1520	3	1			

- Dynamic insertion loss is not significantly affected by fan speed and noise regeneration reduces generally in line with the fan sound power level

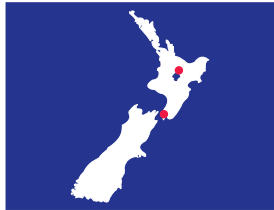
Fan Connected Performance Data

Nominal Fan Diameter 'D'	Attenuator		Approximate Pitch Angle Setting*	Band Number and Octave Band									
	Length	Type		1	2	3	4	5	6	7	8	4k	8k
				63	125	250	500	1k	2k	4k	8k		
150 190 240	2D	WCA-1D	All	2	3	4	9	15	14	9	9		
		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	2D	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	7	12	18	22	17	13	13		
			Med	4	7	11	17	21	17	13	12		
			High	4	7	10	15	19	16	12	10		
2D	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	2D	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	6	8	14	23	24	15	13	10		
			Med	6	8	13	22	22	14	13	9		
			High	6	8	12	20	18	13	11	9		
2D	WCPA-2D	Low	8	11	16	30	39	35	32	22			
		Med	8	11	16	27	32	32	29	19			
		High	8	11	16	24	23	23	24	17			
965 1220	2D	WCPA-1D	Low	4	6	11	22	21	16	14	11		
			Med	4	6	11	20	19	15	13	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		
2D	WCPA-2D	Low	8	11	19	30	32	30	24	17			
		Med	8	11	19	26	27	26	22	16			
		High	8	11	19	21	20	22	20	16			
1520 2000 2450	2D	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		
2D	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°



Windsor Worldwide

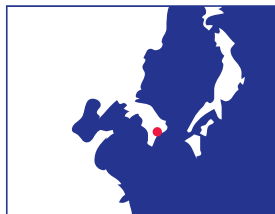


Windsor Engineering Group Ltd.

PO Box 13 348, Johnsonville
Wellington, New Zealand
Tel: +64 4 232 8080
Fax: +64 4 232 5929
email: sales@windsor.co.nz

Windsor Central N.I.

PO Box 1902, Taupo
New Zealand
Tel: +64 7 376 5310
Fax: +64 7 376 5309
email: peter.gillespie@windsor.co.nz



Windsor Korea Co

178-62 Kajwa Dong
Seo-Ku
Inchon, Korea
Tel: +82 32 589 3203
Fax: +82 32 589 3204
email: ysi@xtra.co.nz



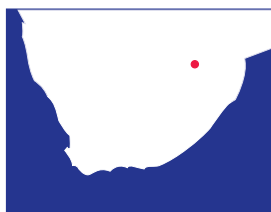
Windsor Kilns Pty Ltd

PO Box 704, Braeside
Victoria 3195, Australia
Tel: +61 3 9586 5799
Fax: +61 3 9580 9820
email: vaughan.furniss@windsorgroup.com.au



Limaq

Av. Pedro de Valdivia N° 0679
Temuco, Chile
Tel: +56 45 261 717
Fax: +56 45 269 976
email: temuco@limaq.com



New Century Sawmill Solutions (Pty) Ltd

PO Box 283
Cresta 2118
Republic of South Africa
Tel: +27 11 478 0900
Fax: +27 11 478 3759
email: newsaw@global.co.za