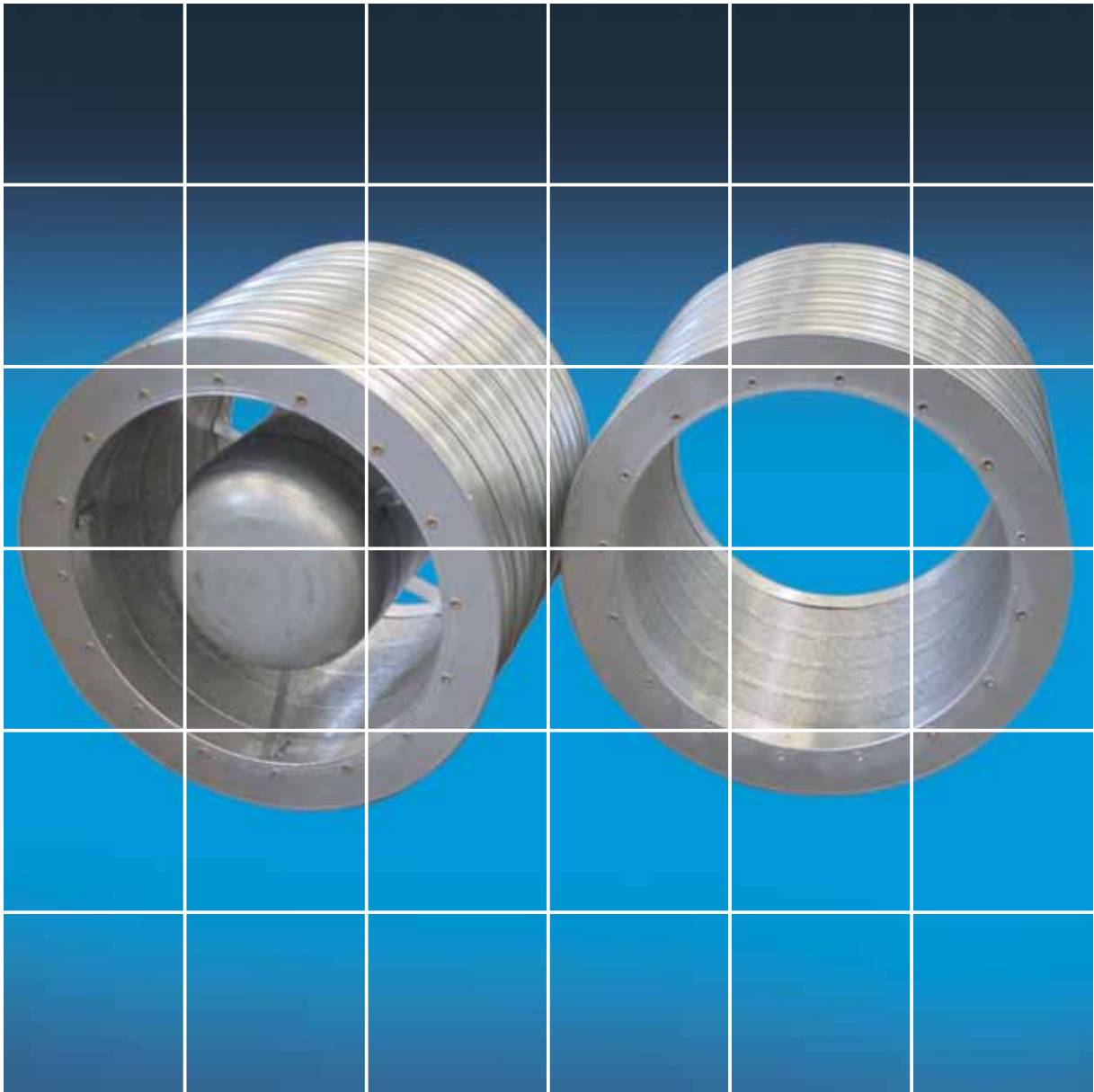




HA₂
HOTCHKISS
AIR ACOUSTICS



C 3 & C 4 C I R C U L A R A T T E N U A T O R S

Description

Hotchkiss Air Acoustic type C3 & C4 Circular attenuators are available in all standard circular fan sizes from 315mm to 1250mm diameter.

The C3 & C4 range of attenuators have standard length options of 1x nominal fan diameter (C31/C41) or 2x nominal fan diameter (C32/C42).

Type C3

Supplied without a central acoustic pod.

Type C4

Supplied with a central acoustic pod (and consequentially offer a higher acoustic performance).

Construction

Attenuator construction for this range comprises external pre-galvanised sheet steel tube outer casing, manufactured in accordance with HVCA DW 144 specification, end rings fitted with tapped inserts to suit the relevant fan drilling detail.

The attenuator inner bore is manufactured from perforated pre-galvanised sheet steel spiral tube, retaining a 45 kg/m³ density acoustic media with a surface particulate membrane. This material has a Class 1 rating for surface spread of flame when measured to BS 476 (part 7 1971) and is suitable for velocities up to 30 m/s.

Special Finishes

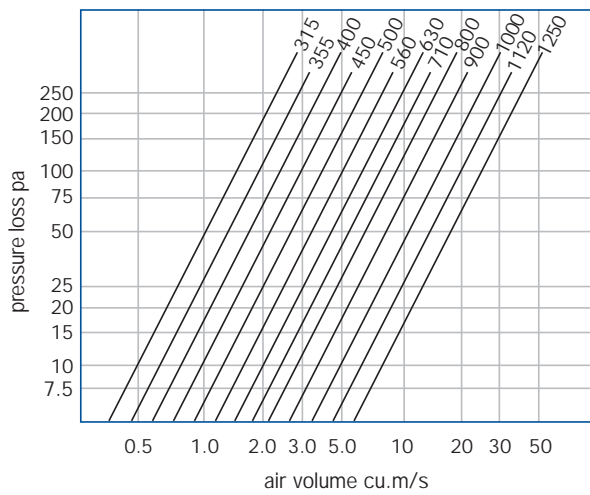
Where required C3 and C4 range of attenuators can be supplied in the following finish options:

- Stainless Steel to required grade
- Heavy-duty case construction
- External polyester powder coat paint finish, to BS/RAL standard colour range

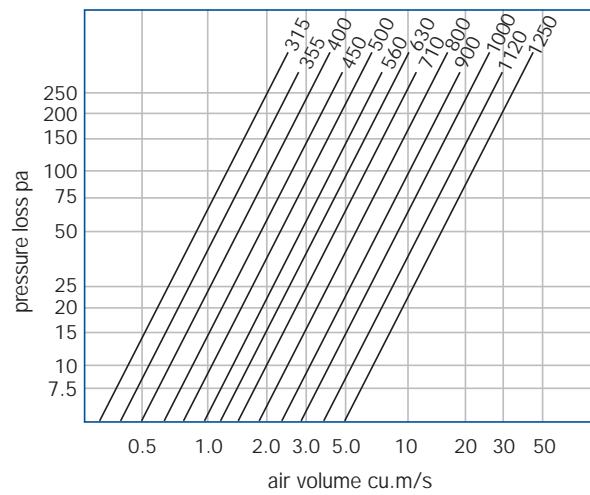
C3 Attenuators			Octave band mid frequencies					
Code	i.d	L	125	250	500	1k	2k	4k
C31/315	315	315	3	5	9	13	10	6
C32/315	315	600	6	9	15	19	16	12
C31/355	355	355	4	5	10	13	10	5
C32/355	355	710	7	10	17	20	15	11
C31/400	400	400	4	5	11	12	9	5
C32/400	400	800	8	11	17	21	16	12
C31/450	450	450	4	6	12	13	10	7
C32/450	450	900	8	12	19	22	15	12
C31/500	500	500	5	7	13	13	10	6
C32/500	500	1000	8	12	20	23	15	11
C31/560	560	560	5	6	12	13	10	6
C32/560	560	1120	8	12	19	23	15	12
C31/630	630	630	4	9	14	15	8	6
C32/630	630	1260	7	13	21	22	12	11
C31/710	710	710	4	8	13	14	7	5
C32/710	710	1420	7	13	20	19	11	10
C31/800	800	800	4	8	13	12	7	5
C32/800	800	1600	8	13	21	18	11	10
C31/900	900	900	4	8	13	12	7	5
C32/900	900	1800	8	13	21	18	11	10
C31/1000	1000	1000	5	9	13	11	6	4
C32/1000	1000	2000	9	14	21	18	12	9
C31/1250	1250	1250	5	8	12	10	5	4
C32/1250	1250	2500	9	14	20	18	11	8

C3 Attenuators			Octave band mid frequencies					
Code	i.d	L	125	250	500	1k	2k	4k
C41/315	315	315	5	8	11	14	15	11
C42/315	315	600	9	13	19	23	21	19
C41/355	355	355	6	9	12	16	15	11
C42/355	355	710	9	14	20	25	22	20
C41/400	400	400	6	9	12	16	14	10
C42/400	400	800	9	14	22	25	21	19
C41/450	450	450	6	9	13	19	19	16
C42/450	450	900	9	13	22	24	23	21
C41/500	500	500	6	10	14	19	18	15
C42/500	500	1000	9	14	24	26	24	21
C41/560	560	560	6	10	14	20	19	16
C42/560	560	1120	10	14	24	27	26	23
C41/630	630	630	6	9	16	22	19	17
C42/630	630	1260	10	15	25	30	28	26
C41/710	710	710	7	10	17	22	18	15
C42/710	710	1420	11	16	26	31	30	26
C41/800	800	800	6	11	19	17	15	13
C42/800	800	1600	11	17	25	25	24	21
C41/900	900	900	6	11	19	17	15	13
C42/900	900	1800	11	17	25	25	24	21
C41/1000	1000	1000	6	11	20	18	15	13
C42/1000	1000	2000	11	18	26	26	25	20
C41/1250	1250	1250	7	12	20	18	15	11
C42/1250	1250	2500	12	20	28	27	24	18

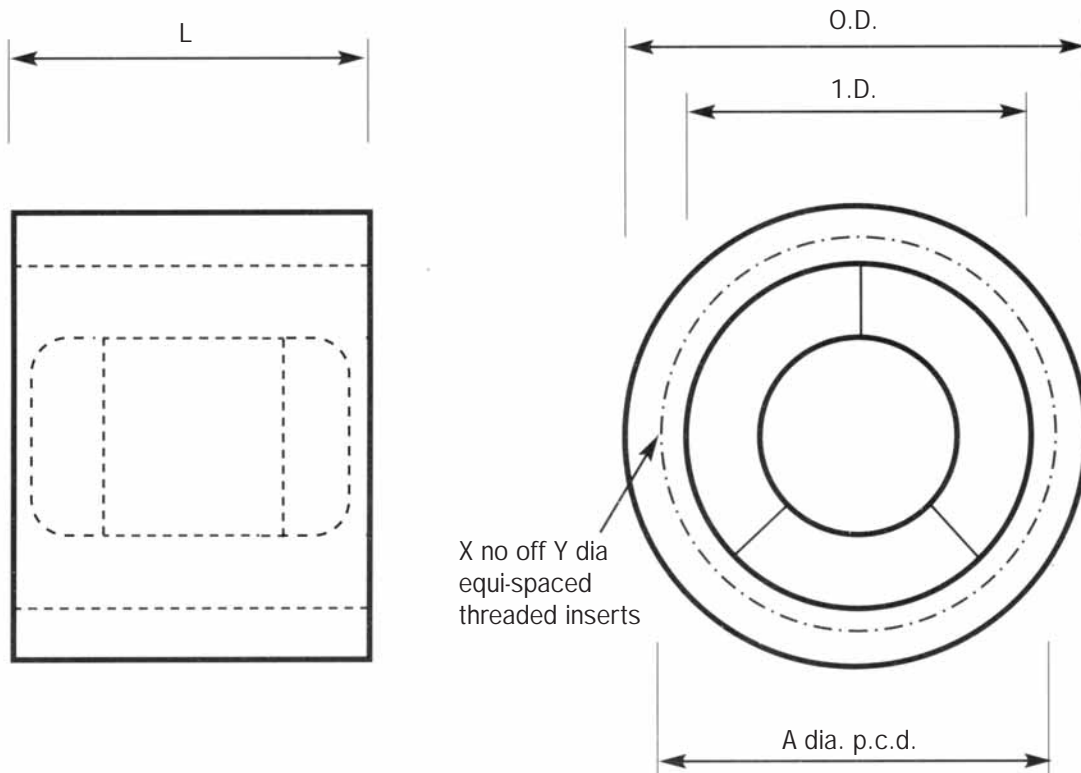
C41 Pressure Loss Chart



C42 Pressure Loss Chart



Pressure losses for C31 & C32 Attenuators (without central acoustic pod) are negligible



Note central acoustic pod indicated above is supplied for attenuator type C4 only

C3 & C4 circular attenuator details

C3 Attenuator code	C4 Attenuator code	i.d-inside diameter	o.d-outside diameter	"L" length	"A" p.c.d.	"X" No off fixings	"Y" Fixing	C3 weight kg	C4 weight kg
C31/315	C41/315	315	450	315	355	8	8mm	14	19
C32/315	C42/315	315	450	630	355	8	8mm	17	23
C31/355	C41/355	355	500	355	395	8	8mm	18	23
C32/355	C42/355	355	500	710	395	8	8mm	21	28
C31/400	C41/400	400	560	400	450	8	10mm	19	25
C32/400	C42/400	400	560	800	450	8	10mm	24	32
C31/450	C41/450	450	610	450	500	8	10mm	24	34
C32/450	C42/450	450	610	900	500	8	10mm	29	41
C31/500	C41/500	500	660	500	560	12	10mm	27	38
C32/500	C42/500	500	660	1000	560	12	10mm	33	46
C31/560	C41/560	560	710	560	620	12	10mm	30	41
C32/560	C42/560	560	710	1120	620	12	10mm	39	55
C31/630	C41/630	630	800	630	690	12	10mm	32	53
C32/630	C42/630	630	800	1260	690	12	10mm	42	66
C31/710	C41/710	710	900	710	770	16	10mm	45	72
C32/710	C42/710	710	900	1420	770	16	10mm	65	99
C31/800	C41/800	800	1000	800	860	16	10mm	56	81
C32/800	C42/800	800	1000	1600	860	16	10mm	67	108
C31/900	C41/900	900	1120	900	970	16	12mm	87	130
C32/900	C42/900	900	1120	1800	970	16	12mm	105	174
C31/1000	C41/1000	1000	1250	1000	1070	16	12mm	101	162
C32/1000	C42/1000	1000	1250	2000	1070	16	12mm	138	208
C31/1120	C41/1120	1120	1400	1120	1190	20	12mm	126	204
C32/1120	C42/1120	1120	1400	2240	1190	20	12mm	198	277
C31/1250	C41/1250	1250	1524	1250	1320	20	12mm	148	234
C32/1250	C42/1250	1250	1524	2500	1320	20	12mm	185	344

Note: Alternative diameters available to match all fans

Acoustic Product Range

RAF Rectangular Attenuators & Splitters

Primary Plant Attenuators



CR3 & CR4 Circular Attenuators

Circular Attenuators for Axial Fan Applications



RAS Rectangular Attenuators

Cross Talk & Terminal Attenuators



Ovaline Attenuators

Flat Oval Attenuators for flat oval ducted systems



CR2 Circular Attenuators

Circular Attenuators for "small" Cross Talk & Terminal Applications



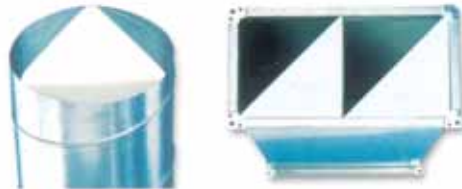
LA Acoustic Louvres

External Acoustic Weather Louvres



Soundpac

Innovative Acoustic Foam "Insert" for circular & rectangular "small" duct applications



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