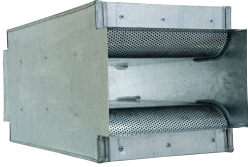


Cross Talk Sound Attenuators

Cross talk sound attenuators



SC series

Advantages

- Reduce noise transfer in adjacent room.
- Easy installation.

APPLICATION

- SCS type is designed for in-line duct mounting in a ventilation system where rooms are served by branches of common duct galvanized sheet metal construction to BS 2989 grade Z2 G275 with DW144 Class B code.

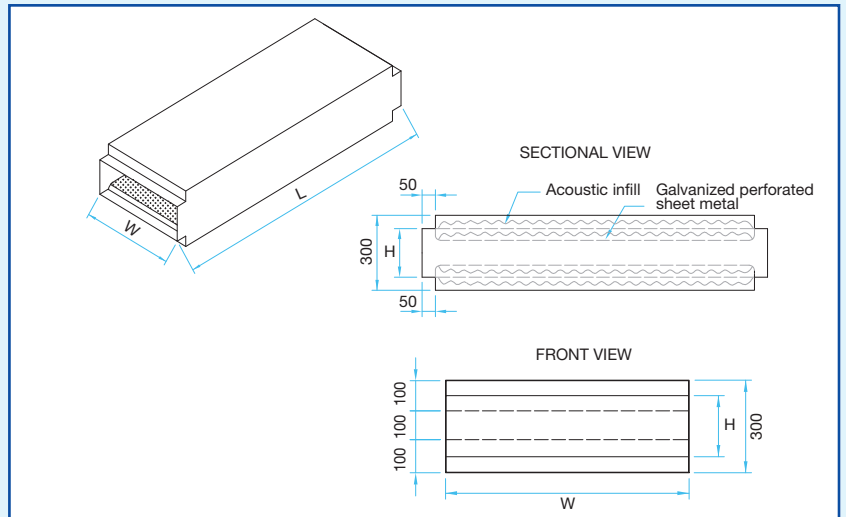
DESCRIPTION

- The splitters contain acoustic infill which complies with Class O building regulations.
- The splitters are radiussed at both ends to minimize air pressure loss and regenerated noise.

CONSTRUCTION

- Casing and side splitters manufactured from 20 ga. galvanised sheet metal. Casing formed with pittsburgh lock formed seams with mastic sealant. The construction complies with SMACNA & DW 144 standards. Plain ends for duct connection as standard.
- The side baffles contain acoustic infill with glass cloth facing and contained behind galvanised perforated metal. This dual protection prevents damage and fiber erosion up to 30 m/s airway velocity. The splitters are radiussed at both ends to minimise air pressure loss.

DIMENSIONS (mm)



PRESSURE DROP

QUICK SELECTION

Design noise criterion in noise critical area	Attenuator length required (mm)	Total noise reduction at 500 Hz, dB
NC45	500	30
NC40	750	35
NC35	1000	40
NC30	1250	45
NC25	1500	50

INSERTION LOSS, D. IN dB

Attenuator length L (mm)	Octave band central frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
500	5	7	10	15	23	17	13	11
750	6	9	14	23	37	29	22	16
1000	8	11	19	31	48	37	28	21
1250	9	14	23	38	50	44	32	26
1500	10	16	27	45	50	50	39	31

Attenuator Type	Air velocity, v, in m/s at duct size B x H		2.0	3.0	4.0	5.0
	Self noise guide against velocity		NC 25	NC 30	NC 35	NC 40
	Width B (mm)	Height H (mm)	Volume flow V liters / seconds			
SCS - 1	100	100	20	30	40	50
	150	100	30	45	60	75
	200	100	40	60	80	100
Pressure loss, Δp in Pa			<5	<5	<5	<5
SCS - 2	150	150	45	70	90	115
	200	150	60	90	120	150
	250	150	75	115	150	190
	300	150	90	135	180	225
Pressure loss, Δp in Pa			<5	<5	<5	<5
SCS - 3	200	200	80	120	160	200
	250	200	100	150	200	250
	300	200	120	180	240	300
	350	200	140	210	280	350
	400	200	160	240	320	400
Pressure loss, Δp in Pa			<5	10	15	25
SCS - 4	250	250	125	190	250	315
	300	250	150	225	300	375
	350	250	175	265	350	440
	400	250	200	300	400	500
	450	250	225	340	450	565
	500	250	250	375	500	625
Pressure loss, Δp in Pa			10	20	35	50
SCS - 5	300	300	180	270	360	450
	350	300	210	315	420	525
	400	300	240	360	480	600
	450	300	270	405	540	675
	500	300	300	450	600	750
	550	300	330	495	660	825
	600	300	360	540	720	900
Pressure loss, Δp in Pa			15	30	55	85