



SONAIR SCS series

Standard Construction Codes



Attenuator series	nominal diameter Dn	external diameter Dx	standard Length (mm)	Optional code
SCS-50	100	200	500	[M]
			1000	[M]
	125	225	500	[M]
			1000	[M]
	150	250	500	[M]
			1000	[M]
	160	250	500	[M]
			1000	[M]
	200	300	500	[M]
			1000	[M]
	225	315	500	[M]
			1000	[M]
250	350	500	[M]	
		1000	[M]	
300	400	500	[M]	
		1000	[M]	
315	400	500	[M]	
		1000	[M]	

Circular Attenuators

Circular duct attenuator constructed from galvanised sheet steel, acoustic infill and perforated metal sheet

Applications

For ventilation ducts or air conditioning installation, to reduce airborne noise transmission.

Materials

- Outer casing**
 -Outer casings of standard circular attenuators silencers shall be made of quality galvanized steel, [or 316/304 stainless steel, aluminum].
- Acoustic infill faced with perforated sheet steel**
 - Acoustically absorptive material of a proper density to obtain the specified acoustic performance and be packed under not less than 5% compression to eliminate voids due to vibration and settling. Material shall be with laminated non-woven glass fibre fabric to provide protection against abrasion at air velocities of up to 20 m/s- Highly biodegradable, no health risk; moisture-repellent; rot-proof impregnation and non-flammable.

Fire class – A1

Option selection

[M] – Melinex lining

order example

SCS-50-DN250/1000 [M]

codes explained:

SCS-50 - Sound attenuator model with 50 mm thickness
 DN250/1000 - Nominal diam/Length
 Optional code [M] - Melinex infill

all type of Lengths possible upon request





SCS-50	standard Length (mm)	Static Attenuation (EN ISO 7235)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
100	500	3	5	8	14	23	30	18	13
	1000	4	9	15	27	42	50	43	25
125	500	3	4	7	12	21	23	21	10
	1000	4	7	12	23	38	42	29	20
150	500	2	3	7	10	19	17	9	9
	1000	3	6	10	20	35	30	19	15
160	500	2	3	6	10	18	17	8	8
	1000	3	5	9	19	34	30	18	15
200	500	1	2	5	9	16	13	5	6
	1000	2	4	8	16	31	22	12	11
225	500	1	2	5	8	15	12	4	4
	1000	2	4	7	15	29	20	10	9
250	500	1	2	4	8	14	10	3	4
	1000	2	3	6	14	28	17	8	9
300	500	1	1	3	7	12	7	2	3
	1000	1	2	5	12	25	13	5	6
315	500	1	1	3	7	12	7	2	3
	1000	1	2	5	12	25	13	5	6

Other Lengths possible upon request





Circular Attenuators

Circular duct attenuator constructed from galvanised sheet steel, acoustic infill and perforated metal sheet

Applications

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Materials

- **Outer casing**
-Outer casings of standard circular attenuators silencers shall be made of quality galvanized steel, [or 316/304 stainless steel, aluminum].
- **Acoustic infill faced with perforated sheet steel**
- Acoustically absorptive material of a proper density to obtain the specified acoustic performance and be packed under not less than 5% compression to eliminate voids due to vibration and settling. Material shall be with laminated non-woven glass fibre fabric to provide protection against abrasion at air velocities of up to 20 m/s- Highly biodegradable, no health risk; moisture-repellent; rot-proof impregnation and non-flammable.

Fire class – A1

Option selection

[M] – Melinex lining

Attenuator series	nominal diameter Dn	external diameter Dx	standard Length (mm)	Optional code
SCS-100	250	450	500	[M]
			1000	[M]
	300	500	500	[M]
			1000	[M]
	315	500	500	[M]
			1000	[M]
	355	560	500	[M]
			1000	[M]
	400	600	500	[M]
			1000	[M]
	450	650	500	[M]
			1000	[M]
	500	700	500	[M]
			1000	[M]
			1250	[M]
			560	[M]
	560	710	1000	[M]
			1250	[M]
	600	800	600	[M]
			1000	[M]
	630	800	1250	[M]
			630	[M]
	630	800	1000	[M]
			1250	[M]
710	900	710	[M]	
		1000	[M]	
		1500	[M]	
800	1000	800	[M]	
		1000	[M]	
800	1000	1500	[M]	
		900	[M]	
900	1210	1500	[M]	
		2000	[M]	
1000	1250	1000	[M]	
		1500	[M]	
1000	1250	2000	[M]	
		1120	[M]	
1120	1400	1500	[M]	
		2000	[M]	
1250	1500	1250	[M]	
		1500	[M]	
		2000	[M]	

other diameters upon request

other Lengths possible upon request

order example

SCS-100-DN600/1000 [M]

codes explained:

SCS-100 - Sound attenuator model with 100 mm thickness
DN600/1000 - Nominal diam/Length
Optional code [M] - Melinex infill





SCS-100	standard Length (mm)	Static Attenuation (EN ISO 7235)								
		Dn	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
250	500		2	4	7	14	21	13	6	5
	1000		3	8	14	26	33	21	11	9
300	500		2	3	6	13	18	10	4	4
	1000		3	6	12	24	29	16	8	7
315	500		2	3	6	13	18	10	4	4
	1000		3	6	12	24	29	16	8	7
355	500		2	3	5	11	16	9	4	3
	1000		3	6	11	22	27	14	9	8
400	500		1	3	6	12	17	8	3	3
	1000		2	5	11	23	25	12	5	5
450	500		1	3	6	15	13	11	9	7
	1000		2	5	10	22	23	11	4	5
500	500		1	2	6	15	12	10	8	7
	1000		2	4	10	21	22	10	4	4
	1250		2	6	14	30	27	13	5	6
560	560		1	2	6	15	12	10	8	7
	1000		2	4	10	21	22	10	4	4
	1250		2	6	14	30	27	13	5	6
600	600		1	3	8	17	14	12	7	6
	1000		2	6	11	22	16	15	9	7
	1250		3	7	14	28	21	17	12	11
630	630		1	3	8	17	14	12	7	6
	1000		2	6	11	22	16	15	9	7
	1250		3	7	14	28	21	17	12	11
710	710		1	3	9	15	11	9	8	8
	1000		2	4	9	21	14	12	9	8
	1500		3	5	13	17	17	14	11	9
800	800		2	4	9	12	11	8	7	5
	1200		3	5	15	25	34	28	16	13
	1500		3	6	17	32	43	35	21	17
900	1000		2	4	9	15	10	8	7	6
	1500		2	6	13	19	14	9	8	7
	2000		4	7	17	26	16	13	10	9
1000	1000		2	5	10	14	10	6	5	4
	1500		3	6	14	19	12	8	8	6
	2000		4	7	18	25	15	9	8	8
1120	1120		2	6	15	21	22	15	8	7
	1500		3	10	21	29	34	22	13	11
	2000		6	14	27	38	43	26	15	12
1250	1250		2	3	11	15	9	7	5	4
	1500		2	2	14	17	10	7	5	4
	2500		3	8	19	22	11	8	6	5

Other Lengths possible upon request

