

- Insulated
- Aluminium laminated
- Acoustically insulated



Acoustic laminated aluminium flexible ducts type SONOFLEX 25

The SONOFLEX 25 is a thermally and acoustically insulated duct, consisting of a micro-perforated inner duct and a laminated 3-layer outer jacket. The pink fibreglass anti-allergic insulation has been developed especially for flexible ducting. A polyester barrier is applied between the fibreglass insulation and the inner duct to avoid the diffusion of insulation particles in the air stream.

Application

- The SONOFLEX 25 flexible ducts are used in ventilation, air conditioning, and air handling systems where high mechanical strength, temperature, fire-resistance, and thermal and sound attenuating qualities are required

Composition

- Micro-perforated inner duct consisting of
 - 1 layer of 7 μ aluminium
 - 1 layer of 12 μ polyester (PET)
 - 1 layer of 12 μ aluminized polyester (PET)
 - Total thickness without glue: 31 μ
- Metalized polyester outer jacket 3-layer laminate, consisting of
 - 2 layers of polyester of 12 μ each
 - 1 layer aluminium of 7 μ
 - Total thickness without glue: 31 μ
- Fibreglass insulation:
 - Density: 16 kg/m³
 - Thickness: 25 mm
 - Thermal resistance: 0,65 K.m²/W
 - Thermal conductivity: 0,039 W/m K
 - Colour: pink
- Polyester barrier of 12 μ between insulation and inner duct
- Wire spacing: a steel spiral spring with a pitch of 25mm (Ø82-90mm), 36mm (Ø102-508mm)
- Colour: Aluminium

Specifications

- Temperature range: From - 30°C till + 140°C
- Air velocity (max): 20 m/s
- Operating pressure: -188 up to 2500 Pa
- Center bend radius: 1 x Diameter minimum
- Diameter range: 82 mm - 508 mm
- Fire class: B - s1, d0 according to EN13501-1

Flexible ducts

- As the product does not contain PVC, no toxic vapours are released should fire occur
- Produced according EN 13180: Dia Class B, Tightness Class C, Sag<4°, Crushing strength 13-35kg compressed; 2-5kg uncompressed.

Packaging

- Each standard length of 10 m is compressed in an individual, reinforced cardboard box

Chemical resistance

- Good resistance to many organic solvents
- Moderate resistance to acid and base

Static properties

- The SONOFLEX 25 is suitable for applications where static discharges have to be avoided

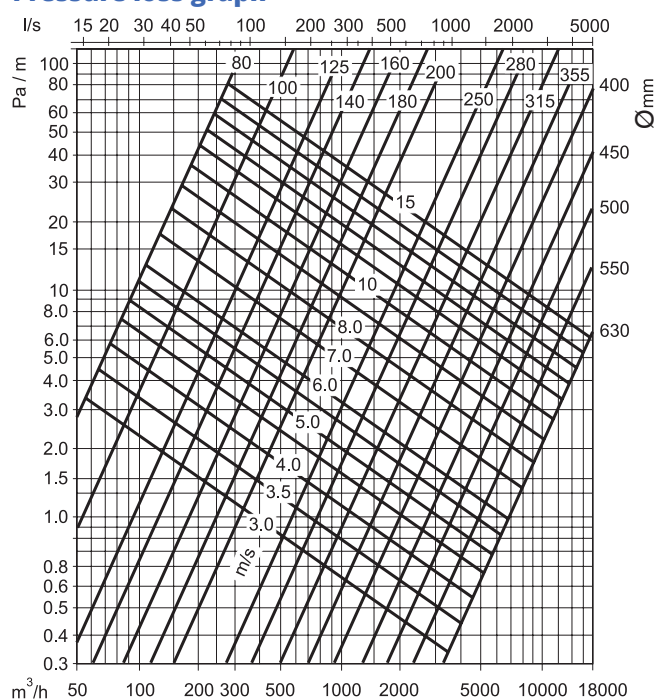
Restrictions

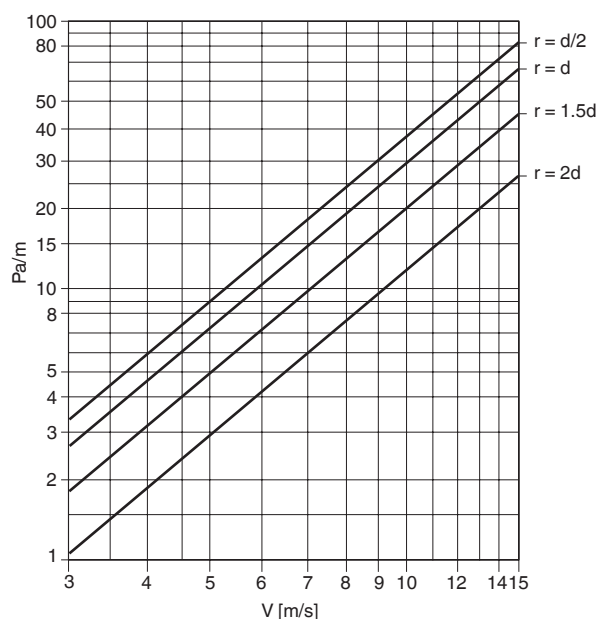
- The SONOFLEX 25 ducts are not suitable for transporting air with a high concentration of acid and base
- The SONOFLEX 25 can not be used for discharging combustion gases from open fire places and oil-fired boilers

Accessories

- Clamps type MCA, NCA and CRA+SCA
- Aluminium tape, type ALUTAPE

Pressure loss graph



Pressure loss in 90° bend


Sound attenuation for 1m duct - Tolerance +/- 2 dB	
false	

SONOFLEX 25		Sound attenuation for 1, 2 and 3m duct							
Ø [mm]	L [m]	dB - f [Hz]							
		63	125	250	500	1000	2000	4000	8000
82	1	3	5	15	20	31	40	41	30
	2	5	8	15	25	38	44	44	47
	3	4	10	19	30	37	47	46	46
102	1	11	15	21	25	34	29	31	22
	2	13	17	22	25	43	48	31	22
	3	16	17	28	39	43	48	32	22
127	1	9	13	21	24	26	26	31	21
	2	13	13	21	26	34	37	32	24
	3	14	18	27	38	41	44	33	25
152	1	5	5	12	19	19	24	25	15
	2	8	11	20	28	35	37	27	15
	3	10	13	31	32	33	40	29	25
165	1	5	8	12	29	28	27	31	18
	2	14	15	17	27	35	44	36	26
	3	17	17	25	37	39	37	37	27
185	1	10	11	11	21	20	18	20	17
	2	10	11	27	29	30	35	20	18
	3	17	19	32	35	32	39	39	24
203	1	2	6	13	23	22	27	23	17
	2	8	11	21	26	39	29	34	20
	3	22	21	23	35	38	36	39	28
229	1	5	8	18	18	20	22	15	13
	2	11	19	31	29	30	30	16	11
	3	10	17	33	33	29	36	34	23
254	1	4	10	17	19	19	21	14	14
	2	3	7	17	24	27	27	23	19
	3	5	10	20	30	32	28	32	24
305	1	5	9	18	17	17	12	8	8
	2	12	14	28	25	25	19	10	9
	3	12	18	30	30	33	35	15	13
315	1	3	16	18	17	19	16	10	8
	2	5	13	21	20	22	24	16	11
	3	9	18	21	25	30	28	23	16
356	1	3	10	14	14	11	11	7	5
	2	5	13	22	20	19	19	10	9
	3	8	12	25	24	27	28	21	15
406	1	2	9	17	15	20	10	5	3
	2	7	14	16	16	22	16	8	6
	3	8	18	17	18	22	20	13	8
457	1	-	11	12	10	10	7	6	-
	2	-	19	20	18	18	12	12	-
	3	-	23	25	25	23	17	14	-
508	1	-	9	10	10	11	8	5	-
	2	-	21	17	17	19	13	10	-
	3	-	24	26	25	27	15	15	-

Order example
Sonoflex 25, 254

Explanation :

Sonoflex 25 = Type of flexible duct

254 = Diameter of flexible duct