

$$A = \frac{q}{v}$$

A = Cross sectional area of duct (m²)

q = Air amount (m³/s)

v = Air velocity (m/s)

Square duct: $A = b \cdot h \Rightarrow b \cdot h = \frac{q}{v}$

Circular duct: $A = \pi \cdot r^2$

$$r = \frac{d}{2} \Rightarrow A = \pi \cdot \frac{d^2}{4} \Rightarrow$$

$$d = \sqrt{\frac{q \cdot 4}{v \cdot \pi}}$$

	Recommended air velocity in m/s		
	Dwellings	Schools Offices Theatre Etc.	Industrial buildings
Main duct	3,5 – 4,5	5,0 - 6,5	6,0 – 9,0
Branch duct	3,0	3,0 – 4,5	4,0 – 5,0
Connection duct	2,5	3,0 – 3,5	4,0

Duct dimension	Max air amount l/s (m ³ /h)
Ø160 mm	67 (242)
Ø200 mm	121 (436)
Ø250 mm	218 (785)
Ø315 mm	401 (1443)
Ø400 mm	751 (2704)
Ø500 mm	1355 (4847)

Sizing of main ducts

Room	Supply of fresh air		Removal of indoor air	
	Natural ventilation (single-family houses)	Mechanical	Natural ventilation (single-family houses)	Mechanical
Habitable rooms	Opening windows, hatches or external doors; and by natural ventilation: one or more fresh air vents with a total unobstructed opening of no less than 60 cm ² per 25 m ² floor area.	Opening windows, hatches or external doors. one or more fresh air vents with a total unobstructed opening of no less than 30 cm ² per 25 m ² floor area.		
Kitchens	An opening of no less than 100 cm ² onto an access space and an opening window, hatch or external door.		An exhaust duct with a cross section of no less than 200 cm ² .	20 l/s + Extractor hood above the cooker
Bathrooms and lavatories	An opening of no less than 100 cm ² into an access space. In addition – if the room comprises an external wall – an opening window, hatch or external door.		An exhaust duct with a cross section of no less than 200 cm ² .	15 l/s
Separate lavatory and utility room	An opening of no less than 100 cm ² into an access space. In addition, if the room comprises an external wall, it must have an opening window, hatch or external door.		An exhaust duct with a cross section of no less than 200 cm ² .	10 l/s
Basement rooms	Supply of fresh air through one or more fresh air vents.		At least one basement room by natural ventilation via an exhaust duct with a cross section of no less than 200 cm ² .	10 l/s
Shared access routes	An opening window, fresh air vent or air lock. Fresh air must be supplied near the floor of the room.			



Beskrivelse

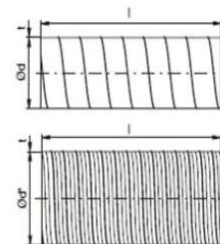
Spiralfalsede rør SR er som standard udført i galvaniseret plade.

SR kan udføres i alternative materialer:
Aluminium pladetykkelse, max. t = 0,9 mm
Plastbelagt pladetykkelse, max.t = 0,7 mm
Rustfri stål pladetykkelse, max.t = 0,9 mm

Udvendig forstærkningspræg f.o.m. Ød = 400 *
Der kan forstærkningspræges ned til Ød = 250

Ved mellemliggende dimensioner, kontakt Lindab.

Dimensioner



*) Med udadgående forstærkningspræg.

Ød nom mm	Omr. m	Areal m ²	t std mm	Standard længder			Vægt kg/m
				l ₁	l ₂	l ₃	
63	0,198	0,003	0,5	6	3		1,00
80	0,251	0,005	0,5	6	3	2	1,20
100	0,314	0,008	0,5	6	3	2	1,50
125	0,393	0,012	0,5	6	3	2	1,80
160	0,503	0,020	0,5	6	3	2	2,30
200	0,628	0,031	0,5	6	3	2	2,90
250	0,785	0,049	0,5	6	3	2	3,60
315	0,990	0,078	0,6	6	3	2	5,50
355	1,115	0,099	0,6	6	3	2	6,20
400	1,257	0,126	0,6	6	3	2	7,00
450	1,414	0,159	0,6	6	3		7,80
500	1,571	0,196	0,6	6	3	2	8,70
560	1,759	0,246	0,7	6	3		11,4
630	1,979	0,312	0,7	6	3	2	12,6
710	2,231	0,396	0,7	6	3		14,4
800	2,513	0,503	0,7	6	3		20,9
1000	3,142	0,785	0,9	6			26,2
1250	3,927	1,227	0,9	6			32,7
1400	4,398	1,539	1,25	6			52,0
1500	4,712	1,767	1,25	6			55,7
1600	5,027	2,011	1,25	6			59,4

