



SEMIFLEX STANDARD, PROFI



SEMIFLEX SONO, TERMO

Diameter range (mm)

	80	100	110	125	140	150	160	180	200	225	250	280	315	355	400	450	500
STANDARD	•	•	•	•	•	•	•	•	•	-	•	-	•	•	•	•	•
PROFI	•	•	•	•	•	•	•	•	•	-	•	-	•	•	•	•	•
SONO	•	•	-	•	•	-	•	-	•	-	•	-	•	•	•	-	-
TERMO	•	•	-	•	•	-	•	-	•	-	•	-	•	•	•	-	-

Technical parameters

Semi-rigid flexible hose made of Al foil, folding with extremely strong „Triplock“ multiple lock.

- for mechanical ventilation and climate control ducts
- for smoke and dust extraction
- Highly mechanically resistant
- STANDARD, PROFI – supplied in lengths of 3 or 5 m compressed to 1/3 of the length (type STANDARD DN 80–250 to 1/5), by pulling both ends the duct is stretched

- SONO, TERMO – supplied stretched in 1 m length or by agreement (this range only on request)
- hoses are not suitable for chimney liners and flue gas extraction
- operating temperature -25 °C to +200 °C
- max. air velocity in the pipe 25 m/s
- max. operating pressure 2 000 Pa
- pressure drops see graph

Variants:

- SEMIFLEX STANDARD thickness 0.08 mm
- SEMIFLEX PROFI thickness 0.12 mm
- SEMIFLEX SONO soundproofed mineral wool layer 25 mm, thickness 0.12 mm
- SEMIFLEX TERMO thermally insulated mineral wool layer 25 mm, thickness 0.12 mm

Additional illustrations

Equivalent length

$$Z = Q \times \frac{D}{300}$$

Z = Equivalent length (m)
Q = Coefficient for bending loss
D = Pipe diameter (mm)

Example

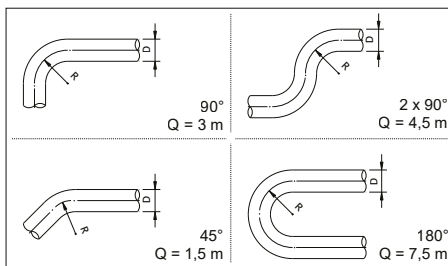
Air velocity = 5 m/s
Pipe diameter = 203 mm
Pressure loss = ?

90° bend = 1 piece
Pipe length = 4 m

Pressure drop per 1 m of pipe = 3.12 Pa (see graph)
Coefficient for bending loss = 3 m (see table)

$$\text{Equivalent length} = 3 \times \frac{200}{300} = 2.0 \text{ m}$$

$$\text{Pressure loss} = (2.0 + 4) \times 3.12 \text{ Pa/m} = 18.72 \text{ Pa}$$



Temperature	-20°C	-0°C	+20°C	+40°C	+60°C	+80°C	+100°C
Correction.	1.158	1.073	1.000	0.936	0.880	0.830	0.785

SEMIFLEX (R/D = 1)

