

# Semi-flexible stainless steel duct

## AF-SN



### Description

STAL FLEX ducts are made by coiling 60 mm-wide stainless steel strips. This flexible duct type is designed for building ventilation ducts which require resistance to high temperature and chemicals, and flexible connections with the equipment and components of the ventilation system. The ducts can also be used for connecting gas stoves in fireplace air heating systems.

**Packaging:** 3-metre sections

**Flexibility:** The minimum duct bending radius is 2.5 times the duct diameter ( $R = 1.5D$ )

**Temperature range:**  $-30^{\circ}\text{C}$  to  $+500^{\circ}\text{C}$

**Max. humidity:** 95%

**Maximum acceptable static pressure:** 2000 Pa

**Maximum acceptable static vacuum:** 1000 Pa

**Flow rate:**

Recommended operating velocity: max. 7 m/s

Maximum flow velocity: 25 m/s

**Fire resistance:** non-flammable

**Available materials - Product code example**

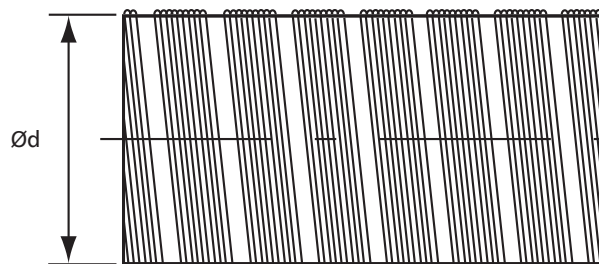
AF-SN-...- 1.4404/316L - stainless steel sheet

**Product code example**

Product code: AF-SN - aaa - bbbb

type \_\_\_\_\_  
 $\varnothing d$  \_\_\_\_\_  
 lenght \_\_\_\_\_

### Dimensions

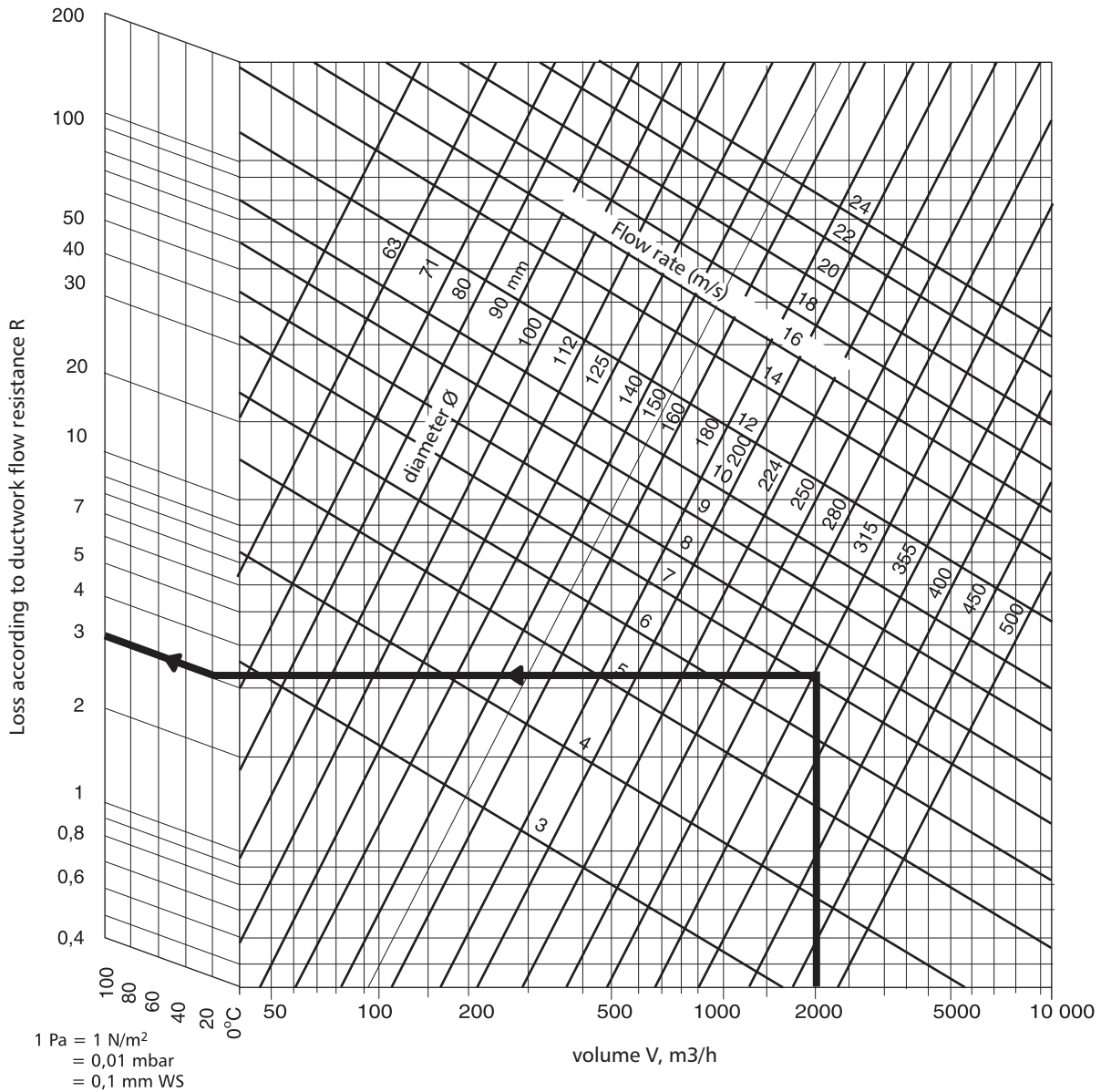


$\varnothing d_{1\text{nom}}$ (mm)	$\varnothing d_{2\text{nom}}$ (mm)	Length L (mm)
80	83	3000
85	88	3000
90	93	3000
100	103	3000
110	113	3000
115	118	3000
120	123	3000
125	128	3000
130	133	3000
133	136	3000
135	138	3000
140	143	3000
150	154	3000
160	164	3000
180	184	3000
200	204	3000
224	228	3000
250	254	3000
300	304	3000
315	319	3000
355	359	3000
400	404	3000

ALNOR® FLEX/STAL® FLEX ventilation ducts

**AF-AL, AF-SN****Technical specifications**

Straight-line pressure drop chart

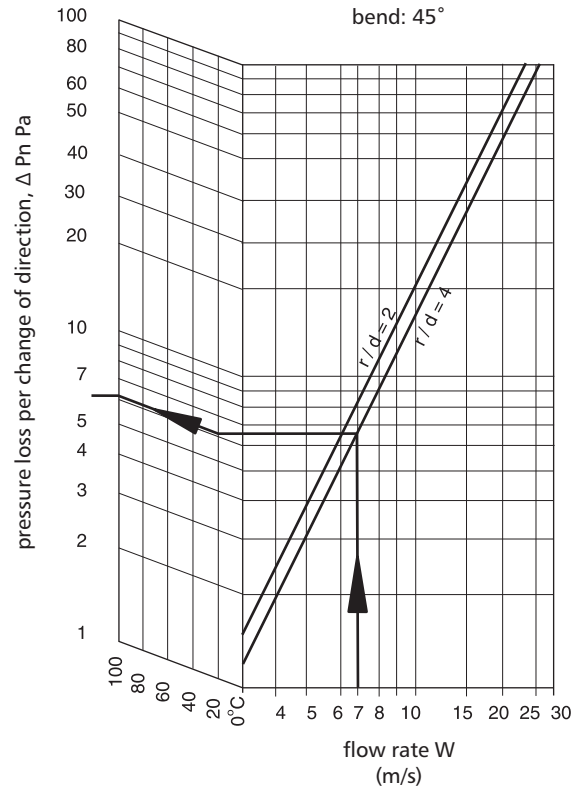
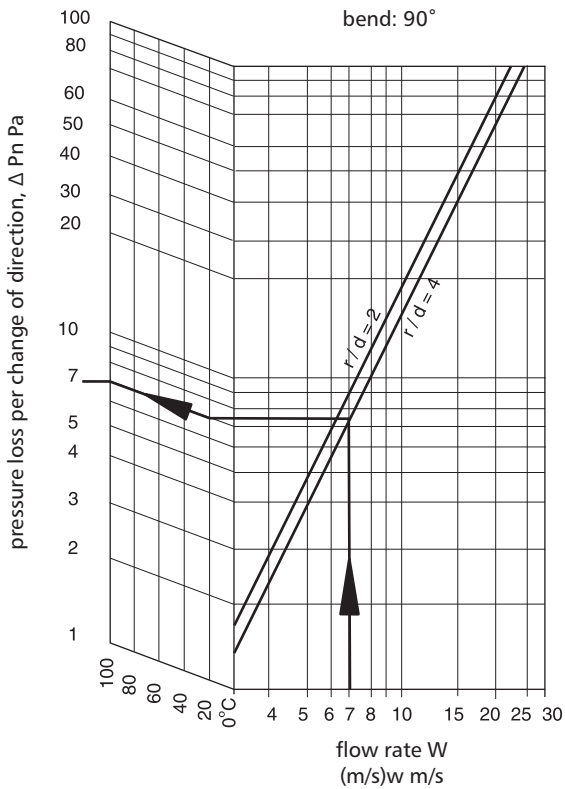


# ALNOR® FLEX/STAL® FLEX ventilation ducts

## AF-AL, AF-SN

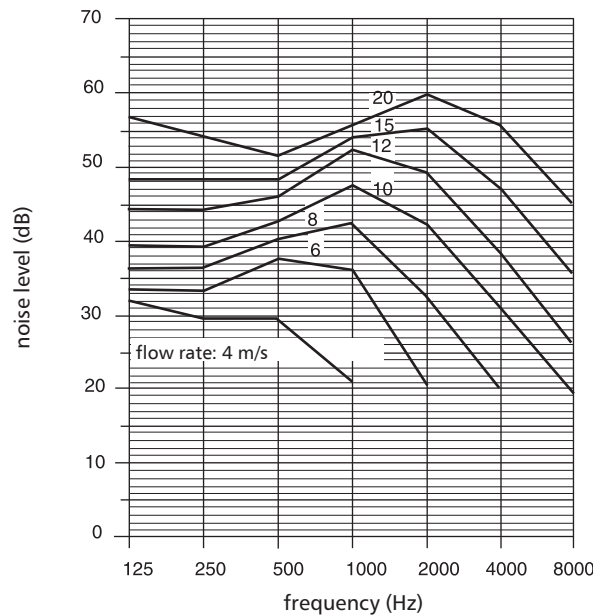
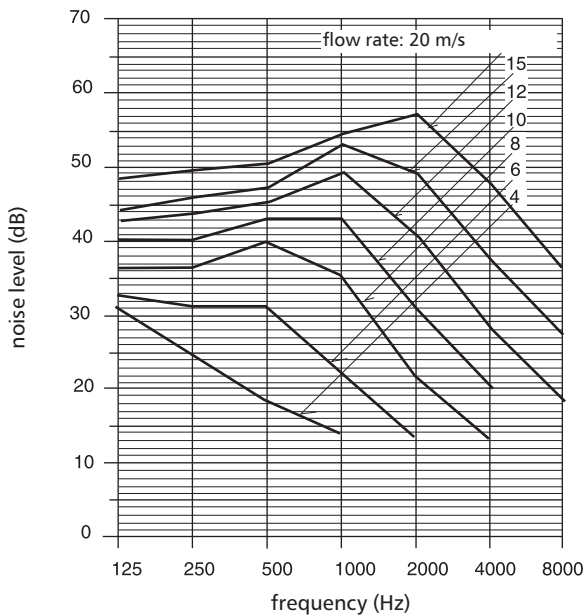
### Technical specifications

Pressure drop chart for 90° and 45° ductwork bends



1 Pa = 1 N/m<sup>2</sup>  
 = 0,01 mbar  
 = 0,1 mm WS

Noise level in ALNOR® FLEX and STAL® FLEX ducts, standard diameters from 100 mm to 300 mm



Noise level in ALNOR® FLEX and STAL® FLEX ducts  
 Straight run

Noise level in ALNOR® FLEX and STAL® FLEX ducts  
 Bend, 90°, r = d