S bends for smoke duct sections DSK-FAP

Description

S bends for smoke duct sections DSK type is used to install in single smoke and heat extraction duct systems. S bends distribute air movement evenly when it is necessary to bypass a barrier or other system duct. The lower the height h, the less the air flow is disturbed. Products can be made of: galvanized steel sheet - corrosion class C3-L/C2-M; sheet with aluminium zinc coating - corrosion class C4-M/C3-H.

The products are CE marked according to the standard LST EN 12101-7 and are used in smoke and heat control systems (for more information see the product declaration).

Maximum smoke duct section width x height, [mm]	Classification according LST EN 13501-4
≤ 1250x1000	**E_{600} 120 (h_o) S1500 single**

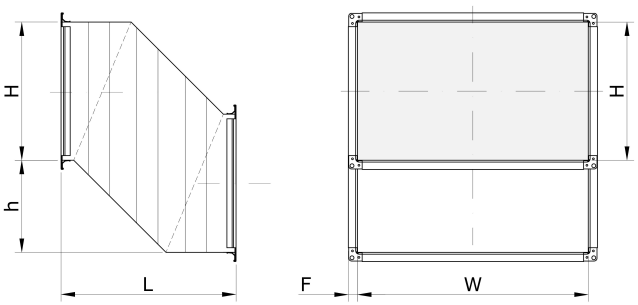
Ordering code

..... DSK-FAP500300-400-150

- Galvanized steel - Aluminium zinc-AZ
- Product
- Size
- Length L, mm
- Height h, mm

Sample: DSK-FAP500300-400-150 – made of galvanized steel sheet s bend for smoke duct sections, dimensions WxH- 500x300 mm, length 400 mm, height h 150 mm.

Dimension



	W [mm]	H [mm]
Minimum dimensions	200	200
Maximum dimensions	1250	1000
Connection flange	F30	

The length L of the smoke duct S bend depends of the dimensions h and H. It is calculated for each product in the way that passage area of bend is not clamped.

Technical data

Large-sized s bends are internally reinforced with rods, single or cross joints. Surfaces is made with reinforcement, stiffened with transverse trapezoid corrugations, resulting in low self-noise and greater resistance to pressure vibrations.

The pressure losses of the rectangular system are calculated using data from round ducts. Calculate the cross area and take the nearest smaller cross area of the circular bend 90°.

Weight formula [kg] (galvanized steel)	W [mm]	H [mm]
m[kg]=14*(W[m]*L[m]+H[m]*L[m]) +3(W[m]+H[m])	Up to 699	Up to 699
m[kg]=14,9*(W[m]*L[m]+H[m]*L[m]) +3,4(W[m]+H[m])	From 700 up to 1250	From 700 up to 1000