Semi-rigid ducting

FLX-HDPE/FLX-HDPE-A

Description

FLX-HDPE and FLX-HDPE-A plastic ducts are used to air distribution in domestic ventilation systems. Relatively small diameters allow to hide the installation in ceilings, screeds or suspended ceilings. FLX-HDPE and FLX-HDPE-A semi-rigid ducts are connected to other system components like plenum boxes or distribution boxes with a simple push fit connection. Application of seals on the FLX-PLO plenum boxes' spigots guarantees high air tightness system. FLX-HDPE and FLX-HDPE-A semi-rigid ducting is made of high-impact polyethylene. This makes the entire ventilation ductwork very durable. FLX-HDPE-A ducts are complying with European norm **EN 17192:2018** for rigid or semi-rigid non-metallic ductwork, which defines the test methods and performance characteristics like airtightness, pressure drop, reaction to fire, resistance to external pressure , thermal resistance and microbial resistance.

FLX-HDPE-75 semi-rigid ducts without an antibacterial coating are gray.

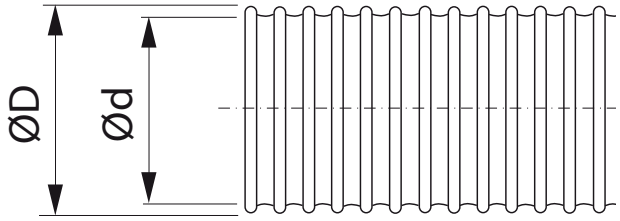
The semi-rigid ducting is delivered in 50-metre long coils.

Dimensions of the coil:
FLX-HDPE-A-50: 1200cm x 40cm
FLX-HDPE-A-63: 1200cm x 40cm
FLX-HDPE-75/FLX-HDPE-A-75: 1100cm x 40cm
FLX-HDPE-90/FLX-HDPE-A-90: 1400cm x 50cm

Product code example
Product code: **FLX - HDPE - 75**

type
material
diameter

Dimensions



Product code	ØD [mm]	Ød [mm]	Bend radius [m]	Weight [kg]
FLX-HDPE-A-50	50	41	0.23	0.23
FLX-HDPE-A-63	63	51	0.26	0.26
FLX-HDPE-75	75	63	0.29	0.31
FLX-HDPE-A-75	75	63	0.29	0.31
FLX-HDPE-90	90	75	0.33	0.42
FLX-HDPE-A-90	90	75	0.33	0.42

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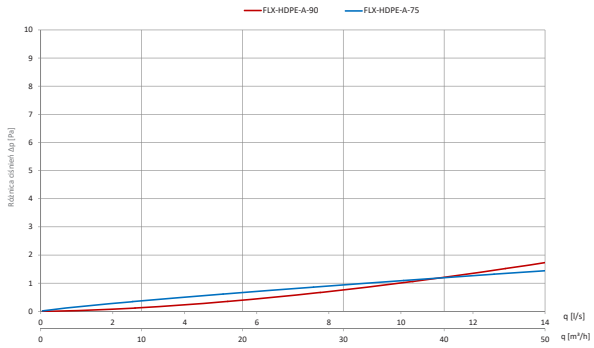
FLX-HDPE/FLX-HDPE-A

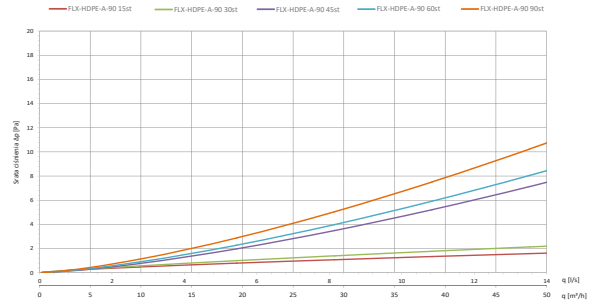
Technical data

Pressure drop for 75 and 90mm ducts,
straight section L=1m

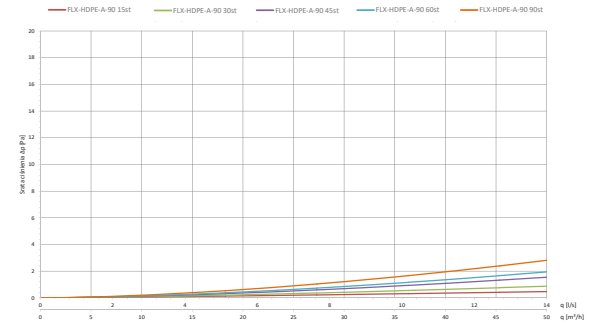


* greater pressure drop for higher airflow for 90mm duct occurs because of its curved inner structure

Pressure drop for FLX-HDPE-A-90 duct with various bend radiuses 15-90° L=1,5m



Pressure drop for FLX-HDPE-A-75 duct with various bend radiuses 15-90° L=1,5m



Characteristics of the product according to EN 17192:2018

Air tightness class	ATC 3 (old C)	EN 12237
Service temperature	STL -20°C to STH +100°C	EN 17192:2019-01
Reaction to fire class	E	EN 13501-1
Resistance to external pressure	DN63mm: 343 N DN75mm: 394 N DN90mm: 366 N	EN 17192:2019-01
Thermal resistance	λm=0,3900 W/(m·k)	EN 12664:2002
Microbial resistance	R = 2,9	EN ISO 22196:2011