

ALUMINIUM & PVC COMBINED FLEXIBLE AIR DUCTS



TYPES:

COMBIAFS

ACOUSTIC COMBIAFS
(perforated inner surface)

NO-CONDENSATION

COMBIAFS

- COMBIAFS is produced from multi-layer aluminium & polyester strengthened with high tension steel spring wire, covered with a PVC layer. COMBIAFS is recommended for discharging welding fumes (where high mechanical resistance is required), low and medium pressure heating, cooling and air conditioning systems.
- COMBIAFS is more effective against condensation than a standard non-insulated aluminium flexible air duct. To maintain indoor air quality at a certain level, preventing condensation is important. Accumulation of water on the duct surface arising from condensation leads to problems such as mold growth and corrosion, which would cause serious health problems and deformation of building materials and components.
- In order to prevent condensation the surface temperature of the duct shall be kept higher than the dew point of the air surrounding it. A PVC layer on the outer surface of COMBIAFS acts as an insulation which makes the duct more impermeable to water and keeps surface temperature higher.
- Punctures and tears could also lead to condensation and air leaks. Prevention from such deformations is achieved by adding a PVC layer which maintains more mechanical resistance than aluminum flexible air duct.
- COMBIAFS is elastic and flexible. It can be easily fitted to circular, oval, or rectangular connectors.

PROPERTIES & ADVANTAGES

ALUMINIUM LAMINATED INNER FLEXIBLE DUCT

- Impermeable to UV rays
- High resistance to UV rays
- Resistant to chemicals

HIGH TENSION STEEL WIRE

- High durability
- High resistance to deformation
- Easy to install

FLEXIBLE & SEAMLESS CONSTRUCTION

- Easy to store
- Easy to transport
- Low installation cost
- Airtight
- Low operation and maintenance costs

PVC SLEEVE

- High resistance to wear and tear
- High mechanical resistance
- High resistance to UV rays
- Resistant to chemicals

SMOOTH INNER SURFACE

- Minimum pressure loss
- Anti-static
- Dust proof interior

TECHNICAL PROPERTIES

TYPE	COMBIAFS	ACOUSTIC COMBIAFS
Construction	3 ply aluminium 2 ply polyester 1 ply PVC	3 ply aluminium (perforated) 2 ply polyester (perforated) 1 ply PVC
Nominal Thickness	170 micron	170 micron
PVC Color	Black	Black
Available Diameters	Ø 52 mm – Ø 800 mm	Ø 52 mm – Ø 800 mm
Temperature Range	-30 °C / +150 °C	-30 °C / +150 °C
Air Velocity	30 m/s (max)	30 m/s (max)
Operating Pressure	3000 Pa (max)	3000 Pa (max)
Standard Length	10 m	10 m
Packing	Single cardboard box	Single cardboard box

FIRE CERTIFICATE

Italy Class 1

CERTIFICATE

Russia GOST-R GOST-R

Available on request

- Customized lengths
- Private label
- Net packing
- Plastic bag packing
- Bulk packing
- Grey PVC color
- White PVC color

ALTERNATIVE CONSTRUCTIONS

PRODUCT NAME	DIFFERENCE FROM THE STANDARD TYPE
COMBIAFS GREY ACOUSTIC COMBIAFS GREY	Grey PVC color
COMBIAFS WHITE ACOUSTIC COMBIAFS WHITE	White PVC color