

THERMAL INSULATED ALUMINIUM FLEXIBLE AIR DUCTS



PRODUCTION TYPES:

ISOFLEX 40

ISOFLEX 60

ISOFLEX 70

NO-CONDENSATION

ISOFLEX

- ISOFLEX thermal insulated aluminium flexible air ducts are specifically produced for low medium and high pressure heating, cooling, ventilation, exhaust and air conditioning systems.
- Airtight ISOFLEX produced from multi-layer aluminium and polyester, strengthened with high tension steel spring wire, surrounded with glass wool insulation and an aluminium vapour barrier.
- ISOFLEX has high elasticity and flexibility. It can be easily fitted to circular and oval connectors.

PROPERTIES & ADVANTAGES

ALUMINIUM LAMINATED BODY

- Difficult to ignite (ISOFLEX 40, 60, 70)
- Resistant to chemicals

FLEXIBLE & SEAMLESS CONSTRUCTION

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

SMOOTH INNER SURFACE

- Minimum pressure loss

HIGH TENSION STEEL WIRE

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

GLASS WOOL INSULATION

- UL 723
(Flame Spread index <25)
(Smoke Developed index <50)
- No fiber erosion
- Minimal energy loss
- Perfect insulation property
- No-condensation

ALUMINIUM LAMINATED JACKET

- Difficult to ignite
- High resistance to wear and tear

TECHNICAL PROPERTIES

TYPE	ISOFLEX 40	ISOFLEX 60	ISOFLEX 70
Fire Resistance	Difficult to ignite	Difficult to ignite	Difficult to ignite
Inner Duct Construction	2 ply aluminium 1 ply polyester	3 ply aluminium 2 ply polyester	3 ply aluminium 2 ply polyester
Jacket Construction	1 ply aluminium 2 ply polyester	1 ply aluminium 2 ply polyester	1 ply aluminium 2 ply polyester
Nominal Thickness (Inner Duct / Jacket)	40 micron / 45 micron	60 micron / 45 micron	70 micron / 45 micron
Available Diameters	Ø 102 mm. - Ø 457 mm.	Ø 102 mm. - Ø 457 mm.	Ø 102 mm. - Ø 457 mm.
Temperature Range	-30 °C /+150 °C	-30 °C /+150 °C	-30 °C /+150 °C
Air Velocity	25 m/s (max)	30 m/s (max)	30 m/s (max)
Operating Pressure	2500 Pa (max)	3000 Pa (max)	3000 Pa (max)
Insulation / Thickness / Density	25 mm / 16 kg/m ² 25 mm / 24 kg/m ²	25 mm / 16 kg/m ² 25 mm / 24 kg/m ²	25 mm / 16 kg/m ² 25 mm / 24 kg/m ²
Wire Spacing	35 mm.	35 mm.	25 mm.
Standard Length	10 m	10 m	10 m
Packing	Single cardboard box	Single cardboard box	Single cardboard box