



- Aluminium laminated, polyester reinforced structure
- Resistant to high temperature & pressure
- Easy to install, flexible and lightweight
- Wide product range with uninsulated, thermally and acoustically insulated types
- Used for transportation of conditioned or free air in HVAC systems.

FLEXIBLE AIR DUCTS AND ACCESSORIES

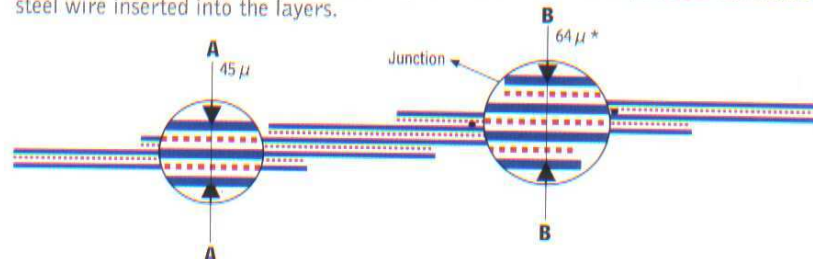
ODE DUCTFLEX

Flexible Air Ducts and Accessories

DUCTFLEX
ODE[®]
www.ductflex.com.tr

ODE DUCTFLEX PRODUCTION TECHNOLOGY

ODE Ductflex flexible air ducts transport the conditioned or free air coming from the main channels and distribute them to places. They consist of several layers of aluminium and polyester laminated and a bronze covered spiral steel wire inserted into the layers.



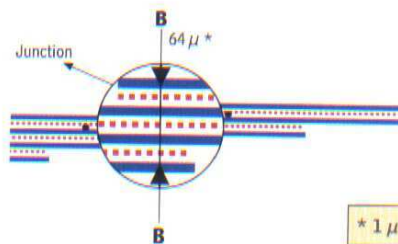
Wall Thickness of the Duct

A - A SECTION

3 layers of aluminium foil
+
2 layers of polyester
=
45 micron

B - B SECTION

4 layers of foil
+
3 layers of polyester
=
64 micron



B - B SECTION

Aluminium foil with 7 μ thickness (4 layers)
+
Polyester with 12 μ thickness (3 layers)
=
64 micron

* 1 μ = 1/1000 mm

The aluminium foil and the polyester layers are adhered and shifted with respect to each other and then are wrapped around the steel wire. By this technology, a continuous structure with several layers will be formed and therefore ODE Ductflex flexible air ducts have better mechanical and fire resistance.

TECHNICAL PROPERTIES

TECHNICAL PROPERTIES	UNIT	ALU SERIES		ISO SERIES			SONO SERIES		
		ALU FD	ALU FD 112	ISO FD 25	ISO FD 250	ISO FD 2500	SONO FD 25	SONO FD 250	SONO FD 2500
Structure	-	Aluminium polyester laminated	Aluminium polyester laminated	ALU FD /Insulation/ Outer Jacket	ALU FD 112 /Insulation/ Outer Jacket	ALU FD 112 /Insulation/ ALU FD 112	Micro Perforated ALU FD /Insulation/ Outer Jacket	Micro Perforated ALU FD 112 /Insulation/ Outer Jacket	Micro Perforated ALU FD 112 /Insulation/ ALU FD 112
Total Thickness (B-B Section)	micron	64 ¹	112 ²	-	-	-	-	-	-
Insulation Thickness ³	mm	-	-	25	25	25	25	25	25
Insulation Density	k/g/m ³	-	-	16	16	16	16	16	16
Service Temperature (Inner Duct)	°C	-30/+140	-30/+250	-30/+140	-30/+250	-30/+250	-30/+140	-30/+250	-30/+250
Service Temperature (Outer Duct)	°C	-30/+140	-30/+250	-30/+140	-30/+140	-30/+250	-30/+140	-30/+140	-30/+250
Max. Operating Pressure	Pa	2500	3000	2500	3000	3000	2500	3000	3000
Max. Air Velocity	m/sn	30	30	25	30	30	25	30	30
Diameter Range	mm	102-508	102-508	102-508	102-508	102-508	102-508	102-508	102-508
Standard Length	m	10	10	10	10	10	10	10	10
Standard Colour	-	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Wire Spacing	mm	36 mm (18 mm) ⁴	-	-	-	-	-	-	-

1) Total thickness in A-A section is 45 micron.

2) Total thickness in A-A section is 87 micron.

3) 50 mm insulation thickness is available for all series upon request.

4) In case of special demand ALU FD series ducts could be produced double wired. (wire spacing : 18mm)

PRODUCT RANGE

ALU SERIES

ALU Series Ducts are completely flexible, lightweight laminate ducts for mechanical and air conditioning systems. The ducts consist of several layers of aluminium and polyester; with intermediate steel spring coil added. The ducts can be attached to round and oval connection parts without any problems.



ISO SERIES

ISO Series Ducts consist of an inner duct, thermally insulated with a glasswool layer and provided with an outer jacket. They prevent heat loss/gain and condensation in ventilation systems. The ducts can be attached to round and oval connection parts without any problems.

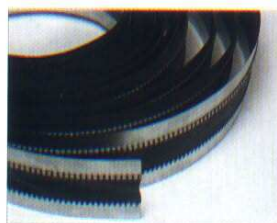


SONO SERIES

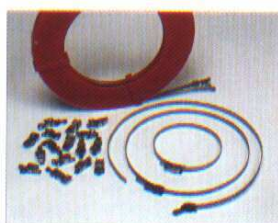
SONO Series Ducts are completely flexible ducts and insulated thermally and acoustically for mechanical ventilation and air conditioning systems. The micro-perforated inner duct is insulated with glass wool layer. As a standard feature of SONO FD 25 a polyester barrier has been applied between the micro-perforated inner duct and glass wool to prevent diffusion of the glass fibres in the air stream. The ducts can be attached to round and oval connection parts without any problems. By its special micro-perforated design, it has excellent noise reduction values.



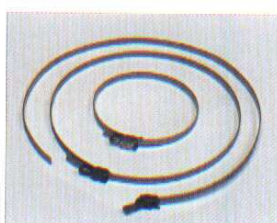
ACCESSORIES



FD Connector



Multibant-Multiclamps



Metal Clamp



Nylon Clamp



Flexible Silencers



Metal Quadrant



Nylon Quadrant



ODE Aluminium Foil Tape