



TYPES:
ALUAFS.45
 (M1, difficult to ignite)
ALUAFS.F
 (M0, limited combustibility)

ALUAFS

- ALUAFS non-insulated aluminium flexible air ducts are specifically produced for low and medium pressure heating, cooling, ventilation, exhaust and air conditioning systems.
- Airtight ALUAFS is produced from multi-layer aluminium and polyester, strengthened with high tension hard steel spring wire.
- ALUAFS has high elasticity and flexibility. It can be easily fitted to circular, oval or rectangular connectors.
- The fire resistance of ALUAFS has been tested and certified by various international bodies.

PROPERTIES & ADVANTAGES

ALUMINIUM LAMINATED BODY

- Difficult to ignite (ALUAFS. 45)
- Limited combustibility (ALUAFS.F)
- Impermeable to UV rays
- High resistance to UV rays
- 98 % reflective
- Resistant to chemicals

FLEXIBLE & SEAMLESS CONSTRUCTION

- Easy to store
- Easy to transport
- Low installation cost
- High resistance to wear and tear
- Airtight
- Low operation and maintenance costs

SMOOTH INNER SURFACE

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

HIGH TENSION STEEL WIRE

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

TECHNICAL PROPERTIES

TYPE	ALUAFS.45	ALUAFS.F
Fire Resistance	Difficult to ignite	Limited combustibility
Construction	2 ply aluminium 1 ply polyester	3 ply aluminium 1 ply polyester
Nominal Thickness	45micron	74 micron
Available Diameters	Ø 52 mm – Ø 800 mm	Ø 82 mm – Ø 800 mm
Temperature Range	-30 °C / +150 °C	-30 °C / + 250 °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

France		M1	M0
United Kingdom (BS 476 Part 6&7)	EXOVA		
Italy	CSI		
Switzerland	swissol		6q3
United Kingdom (EN 13501-1)	EXOVA		
Europe			EN ISO 1716 gross calorific value test report

CERTIFICATE

Russia	PC	GOST-R	GOST-R
USA	Intertek		
USA	Intertek		

Available on request

- Customized lengths
- Private label
- Net packing
- Plastic bag packing
- Bulk packing



Perfect FLEX™

Perfect FLEX™

**Non
Insulated
Aluminum
Flexible
Air Ducts**

**TECHNO
METAL**
S.A.E

تكنوميٲال



بكل قٲر .. صنع في مصر

FKRA adv. +202 37620834/5

Address: Obour city, 1st industrial Area, Block 13037, PC.#54

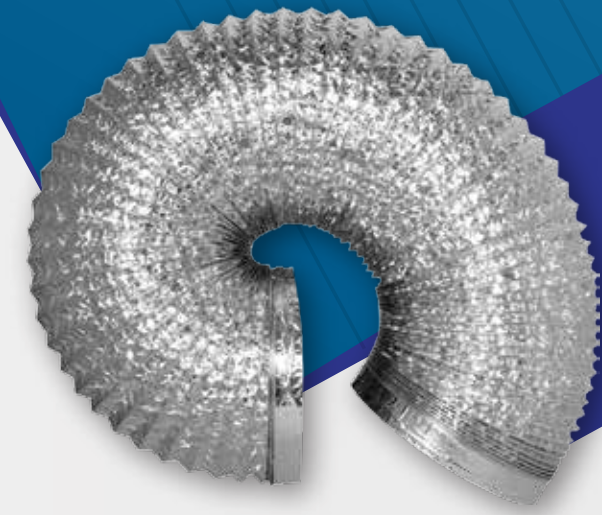
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Aluminum Flexible Air Ducts



The image displays two different styles of aluminum flexible air ducts. On the left is a duct with a fine, woven mesh pattern, shown in a U-shape. On the right is a duct with a prominent corrugated or ribbed design, also shown in a U-shape. Both ducts are silver in color and have a flexible, malleable appearance. They are set against a background of blue and white geometric shapes.

- | Type | <i>Perfect</i> Flex - Alum.-Alum. |
|---------------------------------|--|
| Duct construction | 4-Ply Alum. foil/Polyester + Alum. foil/Polyester |
| Average thickness of duct | 50 Micron for Alum. /Polyester & 78 Micron for Alum. /Alum. flexible air duct. |
| Available Diameter (Ø) | 2.5" , 3" , 4" , 5" , 6" , 8" ,10" ,12" ,14" , 16" ,18" & 20 " |
| Temperture Range | -30°C / 200°C |
| Air velocity | 30 m/s (max.) |
| Operating Pressure | 3000 Pa. (max.) |
| Standard length | 10 m |
| Packing | Single cadboard box |
| Reaction to fire | Difficult to ignite |
| Surface Burning Characteristics | All components are self-extinguishing and will not support flame.
Max. Flame Spread: 25 Max. Smoke Developed: 50 |

[illegible]

معمل القياسات والعايرة
كلية الهندسة - جامعة القاهرة

Faculty of Engineering - Cairo University

Measurements and Calibration Labs (MCL)

Test Certificate

Certificate No : MCL/ 2241801/G/A

Customer Name : The Egyptian company for manufacture of central air conditioning supplies, Techno-Metal

Customer Address : Obour City - First Industrial Zone - Block No. 13037 - Piece No. 54

Required Test : Fire resistance test at 200 °C

Sample Description : Non insulated aluminum flexible air duct

Sample Dimension : 10 inch diameter – 50 micron thickness

Received Date : 12/08/2018

Date of Test : 15/08/2018

Sample description:

- Non insulated aluminium flexible air duct
- air duct dimensions :10 inch diameter – 50 micron thickness

Technical specification used to conduct the test:

- Guided only by NFPA technical specification in terms of measuring the temperature change with time and the maximum temperature after two hours.

Test Method:

- The flexible air duct placed inside a regular flame length and thickness of 5 cm and 60 cm width and temperature 200 °C and measured temperatures of the gases inside the flexible air duct until the temperature inside the flexible air duct within 200 °C temperature was recorded every 15 minutes inside the surface of the flexible air duct for two hours and set temperatures between 200 °C to 210 °C

Test result:

- The flexible air duct passed the test, according to the test specification that is guided without any change in the shape or dimensions of the face of the flexible air duct show temperatures around 200°C for two hours in a semi-enclosed space.

NB:

- The test is not considered a test standard for fire according to standard specifications referred to above.
- This certificate was given to a sample provided at the client's request and without any responsibility on us.

Tested By
Mr. Osama Shaaban

Reviewed by
Eng. Sally Hammam

Approved by
Dr. Prof. T. W. Abou Arab

Lab Supervisor
Issue Date :19/08/2018

Technical Manager
MCL Director

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كلية الهندسة - جامعة القاهرة - قسم القياسات والعايرة
TWO/19/08/2018 TFW/04/11 - TFW/04/11
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ISO AFS-ALU

THERMALLY INSULATED ALUMINIUM
FLEXIBLE AIR DUCTS
NON-CONDENSATION



AFS®

afs.com.tr

ISOAFS-ALU

THERMALLY INSULATED ALUMINIUM FLEXIBLE AIR DUCTS

NON-CONDENSATION

ISOAFS-ALU thermally insulated aluminium flexible air ducts are specifically produced for low and medium pressure heating, cooling, ventilation, exhaust, and air conditioning systems. ISOAFS-ALU is produced from multi-layer aluminium and metallized polyester, strengthened with high tension hard steel spring wire, surrounded with glass wool insulation and an aluminium vapour barrier.

Thermally & acoustically insulated aluminium flexible air duct,

ALUMINIUM LAMINATED BODY & JACKET

- Fire retardant: United Kingdom BS 476 Part 6&7
- Impermeable to UV rays
- Highly resistant to UV rays
- 98 % reflective
- Resistant to chemicals

FLEXIBLE & SEAMLESS CONSTRUCTION

SMOOTH INNER SURFACE

- Minimal pressure loss

HIGH TENSION STEEL WIRE

GLASS WOOL INSULATION

- Heat resistant (EN 13501-1, Class A1, UL 723, FSI = 0, SDI = 0)
- Minimal energy loss
- Perfect insulation property

TECHNICAL PROPERTIES

Inner Duct Construction	1 ply aluminium 2 ply metallized polyester
Jacket Construction	1 ply aluminium 2 ply polyester
Available Diameters	Ø 82 mm - Ø 800 mm
Temperature Range	-30 °C / +150 °C
Air Velocity	30 m/s (max)
Operating Pressure	3000 Pa (max)
Insulation	Glass wool
Insulation Thickness	25 mm
Insulation Density	16 kg/m ³
Standard Length	10 m
Certificate	
Russia	PG GOST-R

AFS®



**FLEXIBLE KANAL
TİCARETİ LTD. ŞTİ.**

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1468. Cadde No:153 Ostim
06370 Ankara / Türkiye
T : +90-312-395-4860
F : +90-312-395-4868
www.afs.com.tr

- Easy to fit circular, oval or rectangular connectors

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Perfect FLEX™

Perfect Flex insulated flexible air duct



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PERFECT FLEX INSULATED FLEXIBLE AIR DUCT

Perfect Flex insulated flexible air duct Thermally and acoustically insulated flexible air ducts are specifically produced for low and medium pressure heating, cooling, ventilation, exhaust and air conditioning systems, it has high elasticity and flexibility. Airtight insulated flexible air duct Perfect Flex is produced from : multi-layer of Alum./polyester tapes strengthened with high tensile hard steel spring wire . The steel wire is completely encapsulated within two layers of tough polyester film securely bonded together by using water based , fire resistance adhesive , the outer and inner layer of this core flexible duct also has an aluminum foil laminated to it for added strength and fire resistance performance. The inner flexible air Duct surrounded with Fiber glass Density 16 or 24 [Kg/m3], thick 25 or 50 [mm] then covered with Aluminium Jacket .



PERFECT FLEX PROPERTIES

& ADVANTAGES :

- Difficult to ignite
- Dampens mechanical vibration
- Excellent sound attenuation
- Minimum pressure loss
- Dust proof interior
- High Tension steel wire & High resistance to deformation
- Resistant to chemicals
- High resistance to wear and tear jacket
- Easy to store
- Easy to transport
- Low installation cost



Perfect Flex insulated flexible air duct	
Duct construction	4-Ply Alum. foil/Polyester + Alum. foil/Polyester
Average thickness of duct	50 Micron for Alum. /Polyester & 78 Micron for Alum. /Alum. flexible air duct.
Temperture Range	-30 °C / +150 °C
Diameter Range	6" , 8" , 10" , 12" , 14" , 16" , 18" & 20 " any other diameter available with M.O.Q
Insulation	Fiber Glass
Insulation Thickness	25 mm – 50 mm
Insulation Density	16 kg/m ³ - 24 kg/m ³
Jacket	Aluminium
Air velocity	30 m/s (max.)
Operating Pressure	3000 Pa. (max.)
Standard length	10 m
Packing	Single cadboard box
Reaction to fire	Difficult to Ignite comply with : M1 (France) Class B-S1-d0 (Europe)