Marine Certified Flexible Air Ducts

marine series

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certified quality

Meets European Marine Equipment Directive

The dimensions, tolerances, and mechanical resistance of all flexible ducts are tested, classified and certified according to EN 13180.All technical details are for information only. All information and technical data in this leaflet is subject to change without prior notice. Based on these, permissible length tolerance is (-)3% for stated length (measured after fully streched according to EN 13180)

2812/2023 **164.112/2812/ERO MED 0492**

Certified by Warringtonfire according to requirements of the new Marine Equipment Directive (2014/90/EU). The certificate has validity in both Europe (MED) and USA (USCG)

Marine Certificate

The International Maritime Safety Conventions require the Wheelmark to ensure that the equipment carried on board ships complies with certain safety requirements.
The Wheelmark which is affixed to products in compliance with the Marine Equipment Directive consists of a ships Wheel together with the identification number of the Notified Body and certificate number.

The Marine Equipment Directive 96/98 EN has come into force on January 1st 1999 and covers a range of equipment carried on board ships registered under the flags of the European Union member states. It was established to ensure that, equipment which must comply with the requirements of international conventions (e.g. SOLAS) agreed by the International Maritime Organization also meets common standards of safety and performance across the EU. Approval requirements are also harmonized, which ensures certificates issued in one Member State are accepted by all states across the EU. The Directive applies to all "Community Registered Ships" and is mandatory since January 1, 2001.

Besides being based on the Mutual Recognition Agreement (MRA) between the US and the EU, the certificates of products are both MED&UGC approved, thus the products can also be used for the flag ships of US.

AFS is your partner when it comes to flexible ducting solutions in Marine Applications. All around the World, AFS HVAC product perform excellent level of quality.

Comfortable, environment friendly, user-friendly, safe, healthy indoor air quality can be supported by AFS Marine series on board. The air you breathe helps you live life to the fullest today and tomorrow.

Our Marine certification is secured by 25 years of experience and our outstanding quality in comfort and safety ventilation systems.

ALUAFS.FMARINE

Duct Construction	:	3 ply aluminium 1 ply polyester
Nominal Thickness of Inner Duct	:	74 micron
Diameter Range (Ø)	:	82 - 800 mm
Wire Spacing		35 mm (Ø ≥ 127 mm)
Operating Temperature Range	:	-30 °C / +250 °C
Air Velocity	:	30 m/s (max)
Operating Pressure	:	+3000 Pa (max)
Standard Length	:	10 m
Packing	:	Individual cardboard box single cardboard box
Reaction to Fire	:	Limited combustibility
Certificates	:	M0 (France) [CSTB]

ÉMISSIONS DANS L'AIR INTÉRIEUR* A+ A+ A B C

*Information on the emission level of volatile substances into indoor air, presenting a risk of toxicity by inhalation, on a scale ranging from A+ (very low emissions) to C (high emissions)

164.112/2812/ERO MED 0492

PACKING

ISOAFS-ALU.FECOSOFTMARINE

Inner Duct Construction	:	3 ply aluminium 1 ply polyester
Nominal Thickness of Inner Duct	:	74 micron
Jacket Construction	:	1 ply aluminium 2 ply polyester
Nominal Thickness of Jacket	:	45 micron
Insulation - Thickness - Density	:	Glass wool - 25mm - 16 kg/m³
Diameter Range (Ø)	:	82 - 800 mm
Wire Spacing	:	35 mm (Ø ≥ 127 mm)
Operating Temperature Range	:	-30 °C / +250 °C
Air Velocity	:	30 m/s (max)
Operating Pressure	:	+3000 Pa (max)
Standard Length	:	10 m
Packing	:	10 m per single cardboard box
Reaction to Fire	:	Difficult to ignite
Certificates	:	M0 + M1 (France) [CSTB]

EMISSIONS DANS L'AIR INTÉRIEUR* A+ A+ A B C

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ecosoft Naturally Different

164.112/2812/ERO MED 0495

*50 mm insulation available

SONOAFS-ALU.FBECOSOFTMARINE

Inner Duct Construction	:	3 ply aluminium 1 ply polyester (Perforated)
Nominal Thickness of Inner Duct	:	74 micron
Barrier Construction	:	1 ply polyethylene
Barrier Thickness	:	12 Micron
Outer Jacket Construction	:	1 ply aluminium 2 ply polyester
Nominal Thickness of Jacket	:	45 micron
Insulation - Thickness - Density	:	Glass wool - 25mm - 16 kg/m³
Diameter Range (Ø)	:	82 - 800 mm
Wire Spacing	:	35 mm (Ø ≥ 127 mm)
Operating Temperature Range	:	-30 °C / +150 °C
Air Velocity	:	30 m/s (max)
Operating Pressure	:	+3000 Pa (max)
Standard Length	:	10 m
Packing	:	Single cardboard box
Certificates	:	M0 + M1 (France) [CSTB]

EMISSIONS DANS L'AIR INTÉRIEUR* A+ A+ A B C

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ecosoft Naturally Different

164.112/2812/ERO MED 0494

*50 mm insulation available

SLEEVEAFS.B ECOSOFT MARINE

Diameter Range (ø)
82 - 508 mm

Standard Length
10 m

Barrier Type
Polyethylene

Barrier Thickness
12 micron

Jacket Construction
1 ply aluminium
2 ply polyester

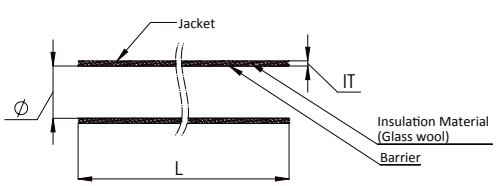
Jacket Thickness
45 micron

Operating Temperature Range
-30 °C / +90 °C

Insulation Material
ECOSOFT Glass wool

Thickness
25 mm

Density
16 kg/m³



SLEEVEAFS.B ECOSOFT MARINE (50 mm insulated)

Diameter Range (ø)
82 - 508 mm

Standard Length
10 m

Barrier Type
Polyethylene

Barrier Thickness
12 micron

Jacket Construction
1 ply aluminium
2 ply polyester

Jacket Thickness
45 micron

Operating Temperature Range
-30 °C / +90 °C

Insulation Material
ECOSOFT Glass wool

Thickness
50 mm

Density
16 kg/m³

ÉMISSIONS DANS L'AIR INTÉRIEUR* A+ A+ A B C

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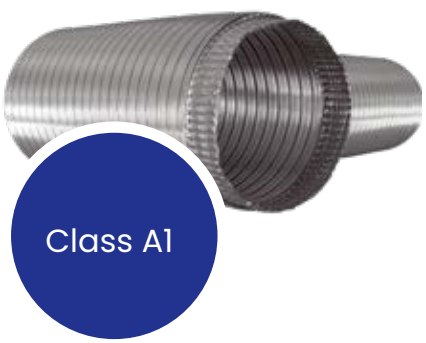
ecosoft Natural. Different

164.112/2812/ERO MED 0493

SEMIAFS

Duct Construction	:	Corrugated aluminium
Nominal Thickness of Duct	:	90 micron
Diameter Range (ø)	:	80-800 mm
Operating Temperature Range	:	-25 °C / + 250 °C
Air Velocity	:	25 m/s (max)
Operating Pressure	:	+5000 pa (max)
Standard Length	:	1,5 m / 3,0 m / 6,0 m
Packing	:	Single nylon package / Bulk packing
Reaction to Fire	:	Non-combustibility
Certificates	:	Class A1 (EN 13501-1) Flame Spread IndeX:0 [UL 723 as per UL 181] Smoke Developed Index:0 [UL 723 as per UL 181] Letter / MED Approval without testing



SEMIAFS.C

Duct Construction	:	Corrugated aluminium
Nominal Thickness of Duct	:	90 micron
Diameter Range (ø)	:	80-500 mm
Operating Temperature Range	:	-25 °C / + 250 °C
Air Velocity	:	25 m/s (max)
Operating Pressure	:	+5000 pa (max)
Standard Length	:	1,5 m / 3,0 m / 6,0 m
Packing	:	Single nylon package / Bulk packing
Reaction to Fire	:	Non-combustibility
Certificates	:	Class A1 (EN 13501-1) Letter / MED Approval without testing

SEMIAFS-INOX

Duct Construction	:	Corrugated 316 L stainless steel continous interlock system
Nominal Thickness of Duct	:	100 micron
Diameter Range (ø)	:	80-800 mm
Operating Temperature Range	:	- 30 °C / + 500 °C
Air Velocity	:	25 m/s (max)
Operating Pressure	:	+12000 pa (max)
Standard Length	:	1,0 m / 1,5 m / 2,0 m / 2,5 m / 3,0 m / 5,0 m
Packing	:	Single nylon package
Reaction to Fire	:	Non-combustible
Certificates	:	Class A1 (EN 13501-1) Letter / MED Approval without testing

look up
notice
the fresh air

ÉMISSIONS DANS L'AIR INTÉRIEUR*

A+

A+ A B C

*Information on the emission level of volatile substances into indoor air, presenting a risk of toxicity by inhalation, on a scale ranging from A+ (very low emissions) to C (high emissions)

ecosoft
Naturally Different

Marine Flexible Air Ducts

FLEXIBLE KANAL AŞ

İvedik O.S.B. Havalandırmacılar Cad.
No: 153, 06370 Yenimahalle ANKARA/TÜRKİYE
T: +90 312 395 48 60
F: +90 312 395 48 68

afs.com.tr

afsflex

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