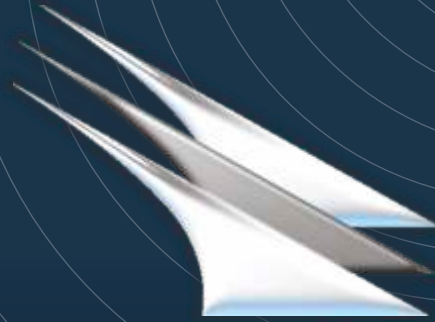




MAT HELLAS
VENTILATION DUCTING



Company Overview



MAT HELLAS OE is located in Greece and working worldwide.

The Flexible Ventilation Ducting products are used for transporting fresh air into underground mines and tunnels.

The company was established in 1973 by Mr. Konstantinos Matthaopoulos, as MATTHAIPOULOS Co. In 2006, the company became MAT HELLAS OE, was modernized and moved into new factory premises. Having four decades of experience to draw on, and fully integrated manufacturing capabilities, we are well positioned to meet our customers' quality and service requirements.

Quality Assurance

MatHellas Flexible Ventilation Ducting Type AFR is certified with the EC-Type Examination Certificate according to European Directive 94/9/EC for "Equipment or Protective Systems intended for use in Potentially Explosive Atmospheres (ATEX)".

MatHellas Flexible Ventilation Ducting Type AFR is conformed to the requirements of the European Standards:

- EN13463-1:2009
- EN50303:2000
- EN 1127-1:2007
- EN 15198:2007
- EN1127-2+A1:2008
- CLC/TR50404:2003

Due to the fact that the equipment's intended use is for mines and it remains functional even if the event of rare incidents relating to equipment with an explosive atmosphere is presenting, the equipment belongs to: GROUP I CATEGORY M1. Therefore on the products is affixed the  mark with the Group (I) and Category (M1) in which belongs.

How to recognize an ATEX product?

➤ The CE logo can be written only on the final product and by the final manufacturer, using the pictogram below with the certificate number:



MatHellas Quality System Administration is certified in accordance with the ISO9001:2008 and ISO14001:2004+Cor1:2009 by Certification Body DQS Hellas member of DQS-UL group and IQNET International Certification Network.



D&B Worldwide Network
Decide with Confidence
DGB D-U-N-S Number: 499967839

ICAP

ISO 9001:2008

ISO 14001:2004

UL

ISO9001:2008 CRN:493094 QM08
ISO14001:2004 CRN:493094 UM

Products

Features

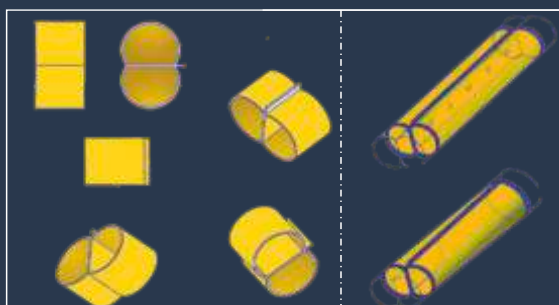
Material (Ducting fabric)	Mathellas 750-FR (Normal FR) Mathellas 750-AFR (Antistatic & FR)-ATEX Certified
Properties	Flame Retardant (FR), Antistatic (AFR)
Diameter	Ø300 up to Ø2500 (mm)
Section Length	15, 20, 25, 50, 100 (m) or other upon request
Included	Coupling system & Suspension system
Certification	ATEX Certified, according to 94/9/EC E.U. directive



Normal Type
Positive Pressure Duct



Spiral Type
Negative Pressure Duct



Twin Type
Biduct

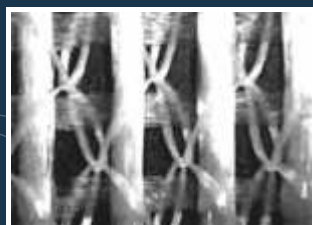


Special Items
Branches Y-type, T-type,
Bends, Reducer cones

Technical Characteristics

MatHellas Ventilation Ducting products are flexible, with a range of diameters and high-strength fabrics with special specifications.

MATHELLAS ducts are manufactured in the highest fabric qualities type FR (Flame Retardant) & AFR (Antistatic & FR). The ducting fabric is knitted polyester yarn inside with PVC-coated surface on both sides.



The specially developed knitted polyester yarn inside give at the duct the maximum high tear resistance and it prevents small holes and cracks from growing and causing the entire duct to tear.

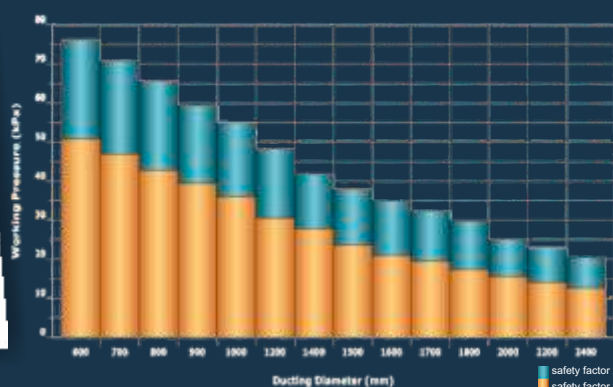
The outside PVC-coating makes the duct airtight and watertight, protects the yarn against UV radiation and chemical effects of light, plus it makes it possible to weld the individual sheets together into a circular duct. The chemical composition of PVC-coating does not contain cadmium (Cd) or any other heavy metal content.

As a result, the ducts are characterized by low weight, and high strength, whilst at the same time it remains a very pliable and easy to handle duct.

The technical characteristics of MatHellas vent-ducts meet the special requirements of each project. The quality of the fabric, the diameter of the duct, the section length, the coupling and the suspension system, are capable of being adapted to the needs of any underground work.

MATHELLAS ducting guarantee a proper aerodynamic design with reduced air pressure loss.

**MAT HELLAS Ventilation Ducting
Pressure Chart**
Highest permitted working pressure



Test Reports



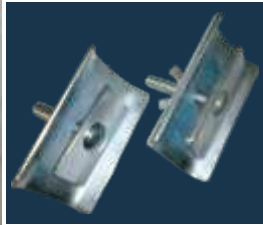
Coupling System



The zipper coupling is a very strong and easy way of connection. The zippers are made from High Quality slide fastener products.

They use the best materials that are made by the most modern equipment and are mass produced under extreme quality control.

Zip Coupling
YKK High-Strength Zipper



The steel ring at the end of the one section inserts into the steel ring at the beginning of the new section and they are coupled together with metal clamps.

For optimal installation, metal clamps should be installed every 65-75cm around the circumference of the end rings. For example, 3 metal clamps are required per section for diameters Ø600mm-Ø700mm, 4 metal clamps for diameters Ø800-Ø900mm.

Steel Ring Coupling
with multi-clip metal clamps



The over-cover metal ring is manufactured from 1mm thick hot-galvanized steel sheet, specially profiled at a width of 60mm. Tightening of the steel ring is provided by a zinc plated threaded crank.

Steel Ring Coupling
with over-cover metal ring

VELCRO and AUSSIE coupling systems also available. All the systems secure the coupling and provide complete airtight sealing.

Suspension System



MatHellas flexible ducting is delivered with Standard Triangle High-Strength double-locking suspension hooks made from hot-galvanized steel. The hooks are fixed to the ducting by fabric reinforcements fully welded along the whole Vent-Duct and they are clipped on a suspension messenger steel wire in the mine ceiling.

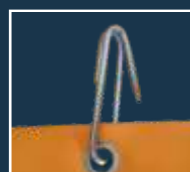
With Triangle Type
Double - Locking Hooks



With Metal Eyelet
Suspension Line



Snap hook



Oblong hook

Repair Solutions

Zipper Repair Sleeves

For easy and quick covering the damaged ventilation ducting closing with zipper at the bottom of the ventilation ducting. Zipper Repair Sleeves can be manufactured on any diameter of Ventilation Ducting.

MAT HELLAS Hot Welder Repair Kit

Includes 1 set of LEISTER handheld hot air welder with its silicone roller pieces and pieces of Mathellas750-FR ducting fabric.

All tears or holes in the ducting fabric caused by accidental damage must be repaired as soon as possible. Tears or holes in the fabric can easily be repaired by welding a patch on with a hot-air hand welder machine (type Leister). For the welding, one press roller is also necessary.



Packing & Delivery

Packing on shrink wrapped pallets is MatHellas standard export practice.

The delivery time of the PO is very short as our daily manufacturing capability is over than 500m of normal ducting.





Global presence and service...

Land transportation from source to site...



Sea transportation from source to site...



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MathHellas-Ventilation-Ducting
MATHELLAS    