

fitt air



Corrugated ventilation pipe

EN



The corrugated pipe for home ventilation offering superior performance

Ventilation pipes constitute the main components in air distribution systems and offer a significant contribution to a healthy and comfortable climate in individual environments.

After signing up to the Kyoto Protocol, the attention to energy efficiency and sustainability of buildings has become increasingly rigorous and - within the EU - has led to the issue of a series of standards (currently in the phase of implementation in the various member states) aimed at promoting improved energy efficiency in buildings.

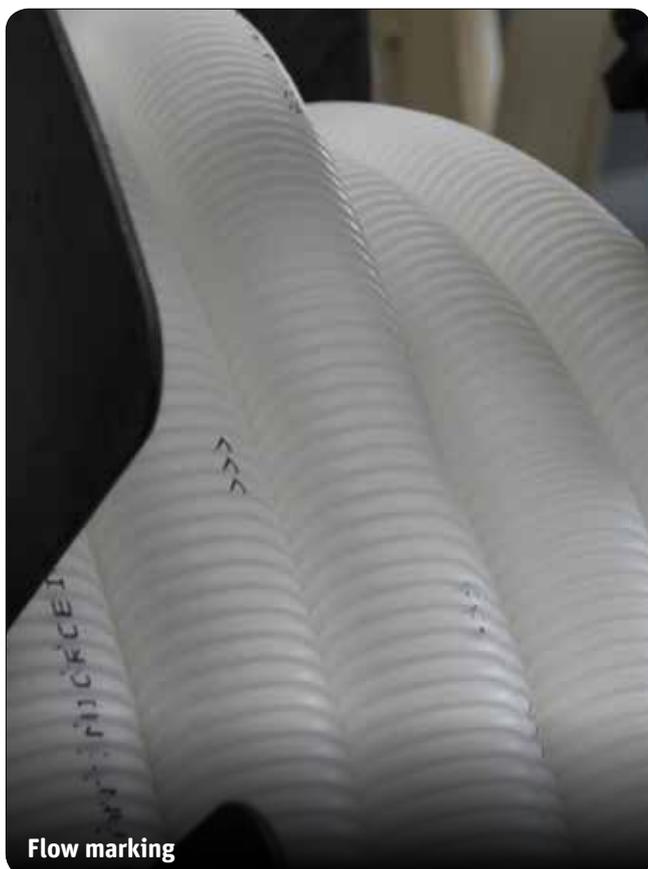
On the basis of these directives, from 2016 all new buildings must be in class A and, as of 2021, in class A+, thus making the presence of MVHR (Mechanical Ventilation Heat Recovery) systems compulsory.

In response to these demands, FITT has developed **FITT Air®**, the double wall pipe in high density polyethylene (HDPE) with smooth interior and corrugated exterior, ideal for air circulation and ventilation in buildings. In systems for HRV, **FITT Air®** is used to convey air from the distribution manifolds through to the outlets for delivery or extraction of air to/from the environments.

FITT Air®, fully tested by the German Institute of Hygiene HY, is certified as compliant with the reference standards in this sector.



The use of the integrated hygiene function Sanitized® transforms **FITT Air®** into a latest generation ventilation pipe. Protection remains guaranteed for the entire product life cycle.



Flow marking



Packaging in bags for diameters > 90mm

To facilitate installation of **FITT Air®** on site, FITT has developed and registered an air flow marking which, thanks to a series of arrows, enables the installer to distinguish between delivery and return pipes.

INTERNATIONAL DESIGN REGISTERED NO. DM/086411

product specifications

FITT Air is made by high quality virgin raw materials free from contaminants in accordance with Italian Law and European standard EN 61386-24, guaranteeing:

ANTI-MICROBIAL, ANTI-BACTERIA AND ANTI-STATIC PROPERTIES

Thanks to the Sanitized® antistatic and antibacterial treatments, **FITT Air** maintains quality air levels in closed environments and optimises efficiency of the ventilation system even over prolonged periods. The internal structure, treated with anti-static agents, prevents the formation of dust deposits.



FITT Air, tested by the German Institute of Hygiene **HY**, complies with the reference standards in this sector

OPTIMAL RESISTANCE TO STATIC LOADS AND EXCEPTIONAL ELASTICITY

The pipe can be installed in false ceilings, partition walls, slab flooring or any other concrete layer on the ground.

EXCELLENT ELASTICITY AND SELF-RECOVERY EFFICIENCY

Resistant to mechanical stress and maximum/ minimum temperatures that may arise during the various phases of structure construction.

REDUCED BENDING RADIUS

Prevents the need to use bends, avoiding obstacles, and is easily adaptable to any site conditions.

FIRE CLASSIFICATION

Fire resistant according to the standards EN 13501-1:2009 EN ISO 11925-2:2010 CLASS E.



FITT Air is fitted with end caps to keep the pipe Interior clean



Fitt air and sanitized

for better indoor air quality



FITT Air is an innovative pipe designed to guarantee a healthy environment. For production of this pipe FITT has collaborated with **SANITIZED AG**, a major world manufacturer of the anti-microbial hygiene function, which when integrated in the product composition, prevents the reproduction of legionella, bacteria and mould, with a long-lasting action.

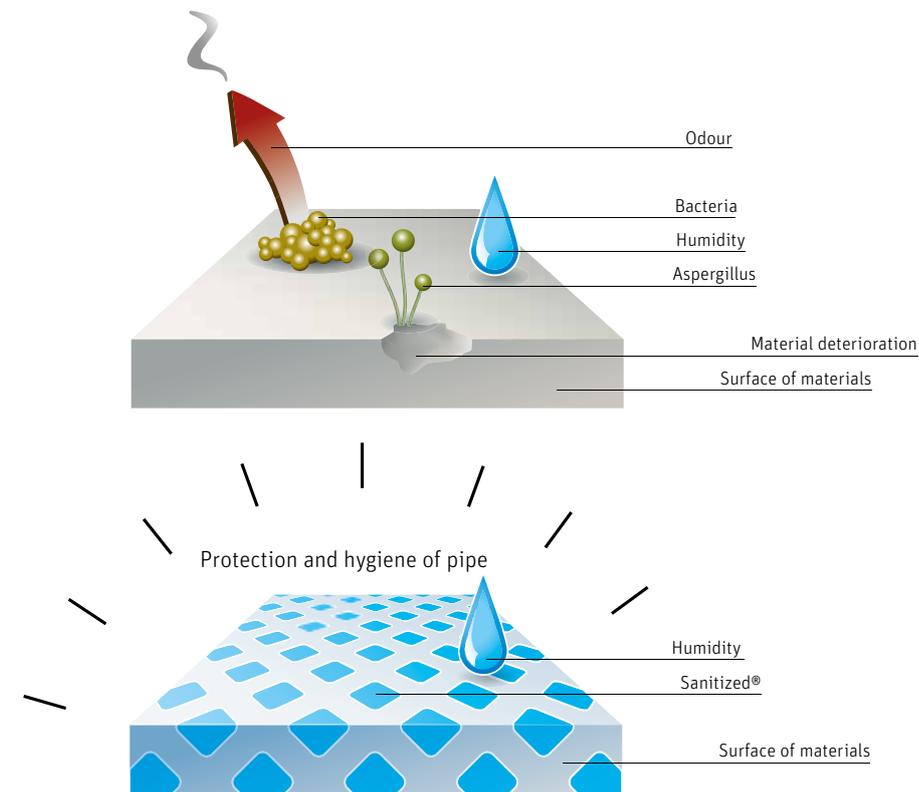
Indoor environments are proven to be at least twice as polluted as exteriors, with significant repercussions on the well-being and quality of life of those inside. **FITT Air** treated with Sanitized® contributes to the creation of a healthy environment, preventing the occurrence of allergies or asthma.

FITT Air with the **anti-microbial** Sanitized® treatment, guarantees a reduction of over 99% of the bacteria commonly present on the internal surface of air ducts, preventing the formation of bacteria and fungi. The use of pyrithione zinc, the main biocide active ingredient, prevents the formation of unpleasant odours.



Evaluating the effectiveness of the hygiene function

The effectiveness of the hygiene function, for the entire life cycle of the product, has been tested at the Swiss SANITIZED laboratories for a vast range of pathogen germs including staphylococcus aureus, legionella pneumophila, pseudomonas aeruginosa and legionella pneumophila.



Test results of the SANITIZED-laboratory

TEST	METHOD	TEST POINT	REDUCTION IN PERCENTAGE	SURFACE AREA	EVALUATION
Quantitative analysis for determination of the bacteriostatic activity	ISO 22196	Staphylococcus aureus (MRSA) ATCC 33592	>99,99	-	Good effect
		Pseudomonas aeruginosa ATCC 15442	99,99	-	
		Legionella pneumophila ATCC 33152	>99,99	-	
Determination of mold resistance	EN ISO 846 Section A	Growth rate 0 to 5 after 4 weeks of incubation	-	Microscopic	Good mold resistance

certification

FITT Air has been developed according to the most rigorous standards for ventilation and air conditioning systems. Test reports on the product drawn up by the renowned German Institute of Hygiene HY certify the conformity of the pipe with the sector-specific standards:



General ventilation and air-conditioning technology

- ✓ VDI 6022, Blatt 1 (07/2011)
- ✓ SWKI VA104-01 (04/2006)
- ✓ ÖNorm H 6021 (09/2003)
- ✓ ÖNorm H 6038 (02/2014)

Validity period:
02/2015 - 02/2020

VDI 6022 (07/2011)

Standard issued by the German association of engineers specifying the hygiene requirements for ventilation and air conditioning systems.

SWKI VA104-01 (04/2006)

Standard issued by the Swiss association of civil engineers specifying the hygiene requirements for ventilation and air conditioning systems..

ÖNORM H602 (09/2003)

Austrian standard stating the methods and specifications to safeguard cleanliness of ventilation systems.

ÖNORM H6038 (02/2014)

Austrian standard providing guidelines for the design, installation, operation, use and maintenance of ventilation systems..

technical table



CRUSH RESISTANCE > 450N
(METHOD IEC 61386-24)
RING STIFFNESS
(METHOD ISO 9969)

DIAMETER	RING STIFFNESS (SN)
50 ÷ 125	>8
160	>4

Ø OUTSIDE MM	Ø INTERNAL MM	LENGTH M	PACKING	NR. ROLLS PER PALLET	PALLET SIZE CM (L x P x H)
50	41	50	film	5	120 x 80 x 130
63	52	50	film	7	240 x 100 x 130
75	63	50	film	3	110 x 120 x 130
90	76	50	film	5	120 x 120 x 260
110	93	50	packed in bag	Loose in the truck	-
125	108	50	packed in bag	Loose in the truck	-
160	138	50	packed in bag	Loose in the truck	-

accessories

FITT Air Clip

FITT Air Clip is the easy to use mounting system that simplifies the on-site positioning of FITT Air duct. The clips, which can be coupled, allow to lay several pipes in a tidy way. Thanks to the clip, the pipe is hold in place until it is covered with the screed or with the ceiling tiles. Available in blu and red colour.



FITT Air Bend



FITT Air Link



FITT Air Fix



FITT Air O

Seal in rubber for pipe installation, on the distribution plate and on the nozzle. The ring is fitted to ensure airtight sealing.



FITT Air Cap

Functional plastic cap used to seal off the two ends of the pipe and prevent ingress of foreign bodies or dirt during transport or installation. Useful also to seal off any outlets not used.





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