

# INTERNAL Air Distribution



## SEMI-RIGID DUCTWORK

The semi-rigid duct CNDFLB is used for the air movement from the distribution plenum up until the air inlet or outlet. Appropriate for the installation in concrete slab, false ceiling or on the wall.

**Structure** made in twin wall in high-density polyethylene (HDPE). Smooth internal side; corrugated outer casing. Supplied with sealing dust caps at its extremities to protect the internal parts during the installation. Made with virgins raw materials of high quality and **free of contaminates**, as per the Regulation D.M.N. 174

from 04/2004 and as the European Regulation EN 61386-24 guarantees:

- **Antibacterial, antimicrobial and antistatic properties;**
- **High resistance to the static charges;**
- **Strong elasticity and automatically going back to its original form**
- **Bending radius reduced**

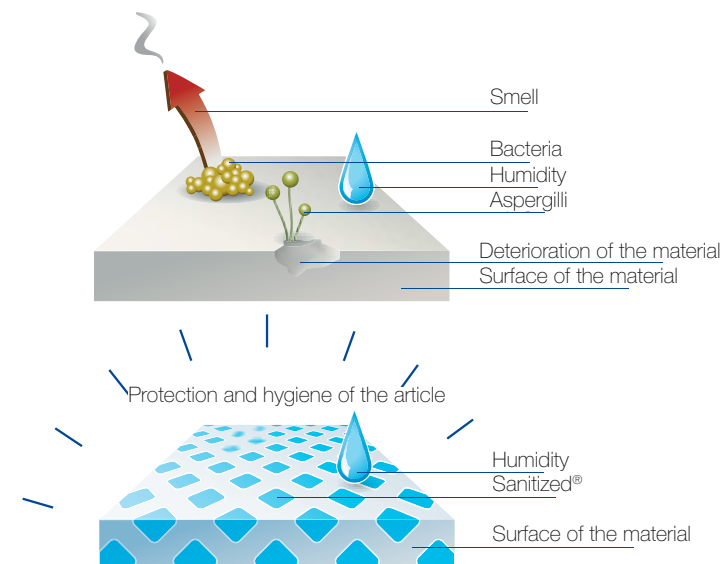
**Antimicrobial treatment Sanitized®**, that permits a reduction of more than 99% of the bacterial charge in the internal superficies of the ducts to prevent the bacterial and fungus formation. The Zinc pyrithione, an antibacterial, prevents the creation of bad smells.

**Certifications:** developed in accordance with the tighten regulations for the ventilation and air conditioning systems. The test reports realized on the product by the well-known German Hygiene institutes HY ratify the conformity of the duct as per the following regulations: VDI 6022 (07/2011) SWKI VA104-01 (04/2006) ÖNorm H6021 (09/2003) ÖNorm H6038 (02/2014)



## Characteristics

The hygienic function efficiency for the entire life cycle of the product was tested by the Swiss laboratories Sanitized® for a large range of pathogenic germs, as the staphylococcus aureus, legionella pneumophila, pseudomonas aeruginosa and legionella pneumophila.



Test	Method	Percentage reduction	Certification body
ANTIBACTERIAL	ASTME 2149-10	99,6%	SANITIZED AG LYSSACHSTR.95 CH-3400 BURG DORF SWITZERLAND
	ISO 22196:2007	99,9%	
ANTIFUNGAL	EN ISO 22196:2007	NO FUNGUS DEVELOPMENT NOTICED	
ANTISTATIC	INTERNAL METHOD	96%	ABCS SRL VIA SOLAR, 32- 20144 MILAN ITALY

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## Dimensions

Models			CNDFLB 75/63	CNDFLB 90/75
Code			001536	001541
Material			HDPE	HDPE
External diameter		mm	75	90
Internal diameter		mm	63	76
Internal layer			antibacterial	antibacterial
			antifungal	antifungal
			antistatic	antistatic
External layer surface			self-extinguish	self-extinguish
Internal undulation			< 5%	< 5%
Weight		g/m	250	340
Length of the roll		m	50	50
Roll dimensions		External D.	113	122
		Internal D.	52	54
		Height	43	48

## Pressure drop table

Models			CNDFLB 75/63	CNDFLB 90/75
Pressure resistance		N	>450 >750	>450 <sup>a</sup>
Working temperature range		°C	-30 ÷ +60	-30 ÷ +60
Laying temperature range		°C	-5 ÷ +60	-5 ÷ +60
Minimal bending range		mm	225	270
Airflow at 2 m/s		m <sup>3</sup> /h	22,44	32,66
Pressure drop at 2 m/s				
	Rectilinear (1m)	Pa	1,04	0,99
	Bend 90°		0,79	0,87
	Bend 180°		1,30	1,32
Airflow at 2,5 m/s		m <sup>3</sup> /h	28,06	40,83
Pressure drop at 2,5 m/s				
	Rectilinear (1m)	Pa	1,62	1,54
	Bend 90°		1,24	1,35
	Bend 180°		2,03	2,07
Airflow at 3 m/s		m <sup>3</sup> /h	33,67	48,99
Pressure drop at 3 m/s				
	Rectilinear (1m)	Pa	2,33	2,22
	Bend 90°		1,79	1,95
	Bend 180°		2,93	2,98