

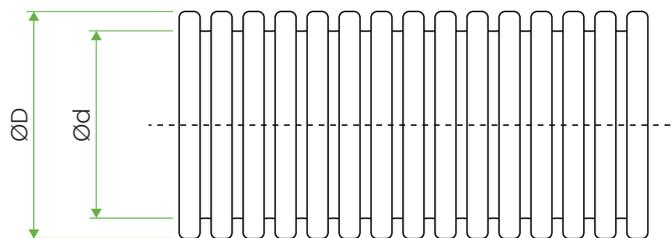


Description:

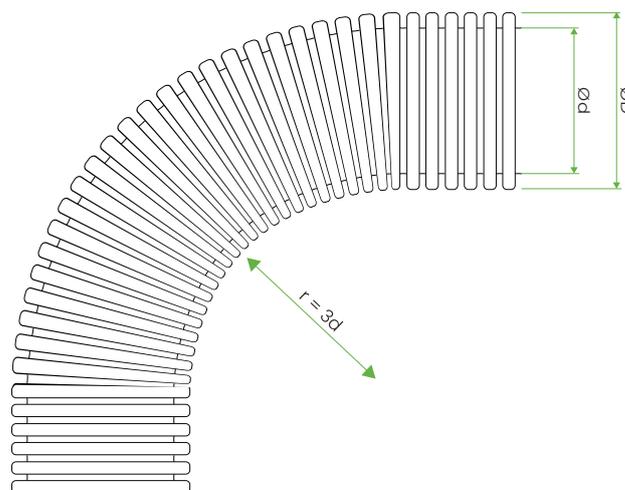
PEFLEX SPECTRA air ducts are made from premium-grade HDPE with external diameters of $\varnothing 50$, $\varnothing 75$, or $\varnothing 90$. They are equipped with an advanced internal Spectra 1000 coating, providing an extremely high level of microbiological protection – reducing bacteria by up to 99.9% and achieving 100% effectiveness in limiting fungal growth, as confirmed by laboratory tests.

PEFLEX SPECTRA flexible ventilation ducts are designed for transporting supply and exhaust air in mechanical ventilation systems with heat recovery (recovery systems) in residential buildings, ensuring long-term hygiene of the installation and a high standard of indoor air quality.

Dimensions:



Bending radius of a round duct



Technical features:

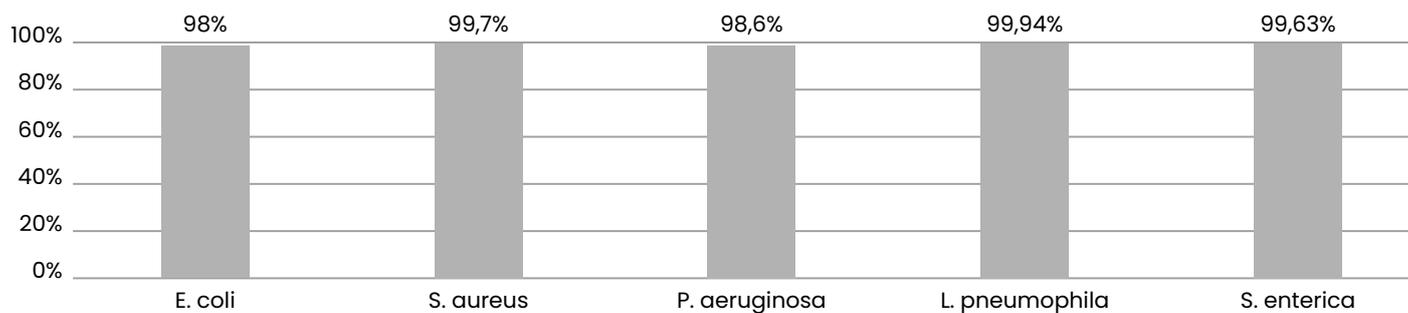
	PEFLEX 50	PEFLEX 75	PEFLEX 90
Outer duct diameter $\varnothing D$	$\varnothing 50$	$\varnothing 75$	$\varnothing 90$
Inner duct diameter $\varnothing d$	$\varnothing 40$	$\varnothing 61$	$\varnothing 75$
Coil length [m]	20 / 100	15 / 50	40
Transport coil dimensions (diameter × height) [cm]	120x120x38	120x120x46	120x120x46
Weight [kg]	20 m - 3,6 / 100 m -17,1	15 m -4,8 / 50 m - 15,2	15,3
Operating temperature range [°C]	-15 +50		
Compression resistance (PN-EN 61386-24)	min. 500N		
Impact resistance (PN-EN 61386-24)	Normal (N)		
Fire reaction class	D-s2, d2 (PN-EN 13501-1)		
Minimum bending radius	3 x DN [mm] according to EN 13180		
Material (outer layer)	High-density polyethylene (HDPE), grey color (PEFLEX marking)		
Material (inner layer)	Low-density polyethylene (LDPE) with antibacterial, antifungal and antistatic additives, green color		

Technical Data:

Diameter									
Ø50			Ø75			Ø90			
Air velocity (m/s)	Airflow		Pressure drop per meter	Airflow		Pressure drop per meter	Airflow		Pressure drop per meter
	m/s	m³/h	l/s	Pa	m³/h	l/s	Pa	m³/h	l/s
0,5	2,3	0,6371	0,2	5,6	1,5512	0,1	7,5	2,0775	0,1
1	4,5	1,2465	0,6	10,5	2,9085	0,4	15	4,155	0,3
1,5	6,8	1,8836	1,3	15,5	4,2935	0,8	23	6,317	0,6
2	9	2,493	2,2	21	5,617	1,3	31	8,587	1
2,5	11	3,047	3,3	26	7,202	1,9	39	10,803	1,5
3	13	3,601	4,5	32	8,864	2,6	47	13,019	2,3
3,5	15	4,155	6	37	10,249	3,6	55	15,235	2,7
4	18	4,986	7,5	42	11,634	4,4	63	17,451	3,4

Microbiological Resistance:

Bacteria reduction in PEFLEX Spectra 1000



Fungal growth resistance – PEFLEX Spectra 1000

