

Declaration of Performance

Air distribution system - AIR EXCELLENT
09.2025

The Air Excellent air distribution system consists of ductwork to distribute air for central mechanical ventilation systems - with and without heat recovery - used to ventilate residential and commercial buildings.

Property	Information	
Material	Semi-rigid ventilation ducts with PE outer and PE inner layer Connecting parts and accessories with PP and TPE	
Product range	Semi-rigid ducts and components Circular shaped ducts: AE23C DN63/52 AE34C DN75/63 AE48C DN90/75 Semi-circular shaped ducts: AE35SC 50 x 100 mm AE45SC 50 x 140 mm AE55SC 60 x 130 mm	
Special	Equipped with antistatic properties Microbial resistant	
Environment	No migration of harmful substances or ingredients	
Certification	 System certified by TÜV SÜD*	
Working pressure	Circular: AE23C, AE34C, AE48C Semi-circular: AE35SC, AE45SC, AE55SC	-1000 Pa to +1000 Pa -1000 Pa to +1000 Pa

Property	Information	
Air tightness [EN 17192]	Circular: AE23C, AE34C, AE48C	Class ATC 1 -1000 Pa to +1000 Pa
	Semi-circular: AE35SC	Class ATC 1 -1000 Pa to +1000 Pa
	AE45SC, AE55SC	Class ATC 2 -1000 Pa to +1000 Pa
Pressure losses	Circular: AE23C, AE34C, AE48C	see technical data sheets*
	Semi-circular: AE35SC, AE45SC, AE55SC	see technical data sheets*
Operating temperature	Circular: AE23C, AE34C, AE48C	-20°C to +60°C
	Semi-circular: AE35SC, AE45SC, AE55SC:	-20°C to +60°C
Reaction to fire [EN 13501-1]	Circular: AE23C, AE34C, AE48C	Class E
	Semi-circular: AE35SC, AE45SC, AE55SC	Class E
Resistance against external pressure (max. concrete height poured over duct)	Circular: AE23C, AE34C, AE48C	200 mm
	Semi-circular: AE35SC, AE45SC, AE55SC	200 mm
Ring stiffness	Circular: AE23C AE34C AE48C	> 8,0 kN/m ² > 6,5 kN/m ² > 6,0 kN/m ²
	Semi-circular: AE35SC AE45SC AE55SC	> 2,0 kN/m ² > 1,1 kN/m ² > 1,2 kN/m ²

Property	Information		
Bending radii (minimum)	Circular: AE23C AE34C AE48C Semi-circular: AE35SC AE45SC AE55SC	75 mm 75 mm 75 mm Horizontal 200 mm 200 mm 400 mm	Vertical 150 mm 400 mm 200 mm
Mechanical connections (duct length to be hold by connection not getting loose)	Circular: AE23C, AE34C, AE48C Semi-circular: AE35SC, AE45SC, AE55SC	> 10 m > 10 m	
Flexibility (90° bending shall not deform duct or change inner diameter)	Circular: AE23C, AE34C, AE48C Semi-circular: AE35SC, AE45SC, AE55SC	No deformation or diameter change No deformation or diameter change	
Bending stiffness	2 m distance between supports		
Microbial resistance (test germs shall be reduced > 99% after 72 h)	Circular: AE23C, AE34C, AE48C Semi-circular: AE35SC, AE45SC, AE55SC	> 99,99% after 24 h > 99,99% after 24 h	
Food compatibleness	Does not release volatile (harmful) substances that could endanger human health		

On behalf of the manufacturer

Doesburg, September, 2025



Wilma Haanappel
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* For the latest datasheets and TÜV Tak2013-1 approved components check Ubbink.com