

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	75 mm 75 mm 75 mm	
	Semi-circular: AE35SC AE45SC AE55SC	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	> 10 m	
	Semi-circular: AE35SC, AE45SC, AE55SC	> 10 m	
Flexibility (90° bending shall not deform duct or change inner diameter)	Circular: AE23C, AE34C, AE48C	No deformation or diameter change	
	Semi-circular: AE35SC, AE45SC, AE55SC	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	> 99,99% after 24 h	
	Semi-circular: AE35SC, AE45SC, AE55SC	> 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