

Declaration Quality mark TÜV SÜD

Air distribution system - AIR EXCELLENT

09.02.2021

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

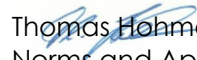
Property	Information
Material	Semi-rigid ventilation ducts in PE outer and PE inner layer Connecting parts and accessories in PP
Product range	Semi-rigid ducts and components <u>Round shaped ducts:</u> AE23C DN63/52 AE34C DN75/63 AE48C DN90/75 <u>Semi circular shaped ducts:</u> AE35SC 50 x 100 mm AE45SC 50 x 140 mm AE55SC 60 x 130 mm <u>Components:</u> 90° bends (horizontal and vertical) Valve adaptors Connectors Distribution boxes and adaptors
Special	Antistatically equipped Microbial resistant
Environment	No migration of harmful substances or ingredients
Certification	System certified by TÜV SÜD 

Property	Value	
Working pressure	Round: AE23C, AE34C, AE48C	-2000 Pa to +2000 Pa
	Semi circular: AE35SC, AE45SC, AE55SC:	-2000 Pa to +2000 Pa
Air tightness	Round: AE23C, AE34C, AE48C	Class D (ATC 2) (-2000 Pa to +2000 Pa)
	Semi circular: AE35SC, AE55SC:	Class D (ATC 2) (-2000 Pa to +2000 Pa)
	AE45SC:	Class C (ATC 3) (-2000 Pa to +2000 Pa)
Pressure losses	Round: AE23C, AE34C, AE48C	see technical data sheets
	Semi circular: AE35SC, AE45SC, AE55SC:	see technical data sheets
Temperature range	Round: AE23C, AE34C, AE48C	-20°C to +60°C
	Semi circular: AE35SC, AE45SC, AE55SC:	-20°C to +60°C
Reaction to fire	Round: AE23C, AE34C, AE48C	Class E (EN13501-1)
	Semi circular: AE35SC, AE45SC, AE55SC:	Class E (EN13501-1)
Resistance against external pressure (max. concrete height poured over duct)	Round: AE23C, AE34C, AE48C	200 mm
	Semi circular: AE35SC, AE45SC, AE55SC:	200 mm

Property	Value		
Ring stiffness	Round: AE23C: AE34C: AE48C. Semi circular: AE35SC: AE45SC: AE55SC:	> 8,0 kN/m ² > 6,5 kN/m ² > 6,0 kN/m ² > 2,0 kN/m ² > 1,1 kN/m ² > 1,2 kN/m ²	
Bending radii (minimum)	Round: AE23C: AE34C: AE48C. Semi circular: AE35SC: AE45SC: AE55SC:	150 mm 150 mm 150 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)	Round: AE23C, AE34C, AE48C Semi circular: AE35SC, AE45SC, AE55SC	> 10 m > 10 m	
Flexibility (90° bending shall not deform duct or change inner diameter)	Round: AE23C, AE34C, AE48C Semi circular: AE35SC, AE45SC, AE55SC:	no deformation or diameter change no deformation or diameter change	
Bending stiffness	2m distance between supports		
Microbial resistance (test gems shall be reduced >99% after 72 h)	Round: AE23C, AE34C, AE48C Semi circular: AE35SC, AE45SC, AE55SC	> 99,99% after 24 h > 99,99% after 24 h	
Food compatibleness	No volatile (harmful) substances release to endanger Human health.		

On behalf of the manufacturer

Brilon, February, 09th -2021


 Thomas Hohmann
 Norms and Approval Officer
CENTROTEC Industries