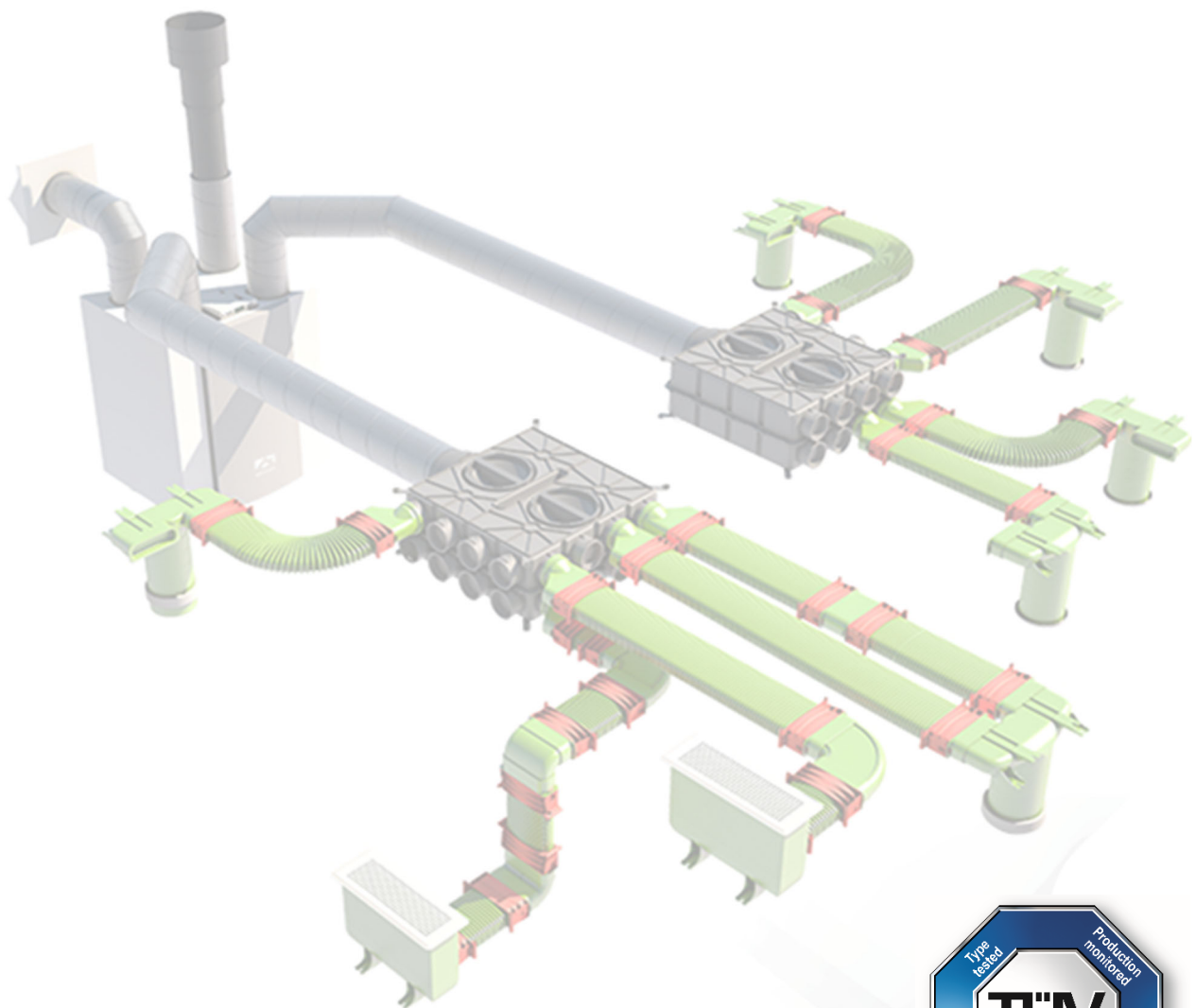


Air distribution system

AIR EXCELLENT




Declaration Quality mark TÜV SÜD



24.11.2020
Thomas Hohmann



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

Property	Value
Ring stiffness	Round: AE23C: > 8,0 kN/m ² AE34C: > 6,5 kN/m ² AE48C: > 6,0 kN/m ² Semi circular: AE35SC: > 2,0 kN/m ² AE45SC: > 1,1 kN/m ² AE55SC: > 1,2 kN/m ²
Bending radii (minimum)	Round: AE23C: 150 mm AE34C: 150 mm AE48C: 150 mm Semi circular: horizontal vertical AE35SC: 200 mm 150 mm AE45SC: 200 mm 400 mm AE55SC: 400 mm 200 mm
Mechanical connections (duct length to be old by connection not getting loose)	Round: AE23C, AE34C, AE48C > 10 m Semi circular: AE35SC, AE45SC, AE55SC: > 10 m
Flexibility (90° bending shall not deform duct or change inner diameter)	Round: AE23C, AE34C, AE48C no deformation or diameter change Semi circular: AE35SC, AE45SC, AE55SC: 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 > 99,99% after 24 h Semi circular: AE35SC, AE45SC, AE55SC: > 99,99% after 24 h
Food compatibleness	No volatile (harmful) substances release to endanger human health

On behalf of the manufacturer

Brilon, November, 24th -2020


 Thomas Hohmann
 Norms and Approval Officer
 Ubbink/Centrotherm Group