

VOLL AUF MICH EINGESTELLT.





CWL Excellent Ventilation System

Declaration Quality mark TÜV SÜD



Mainburg, 28.01.2022

The CWL 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.

<p>Material</p>	<p>Semi-rigid ventilation ducts in PE outer and PE inner layer Connecting parts and accessories in PP</p>
<p>Colors</p>	<p>Green, red and Grey</p>
<p>Product range</p>	<p>Semi-rigid ducts and components</p> <p>Round shaped ducts: DN63 DN75 DN90</p> <p>Semi Circular shaped ducts: 50x100 mm 50x140 mm</p> <p>Components: 90° bends (horizontal and vertical) Valve adaptors Connectors Distribution box and adaptors</p>
<p>Special</p>	<p>Antistatic equipped Microbial resistant</p>
<p>Environment</p>	<p>No migration of harmful substances or ingredients</p>
<p>Remark</p> 	<p>System certified by TÜV SÜD</p> 

Property	Value
Working pressure	Working pressure between: -2000 Pa and +2000 Pa
Air tightness	DN63, DN75, DN90, 50x100: Class D (ATC 2) 50x140: Class C (ATC 3) In the range of -2000 Pa to +2000 Pa
Pressure losses	See CWL Excellent technical data sheets manual
Temperature range	Maximum operating temperature: +60 °C Minimum operating temperature: -20 °C
Reaction to fire	Round: DN63, DN75, DN90 Class E (EN13501-1) Semi circular: 50x100, 50x140 Class E (EN13501-1)
Resistance against external pressure <small>(max. concrete height poured over duct)</small>	Round: DN63, DN75, DN90 200 mm Semi circular: 50x100, 50x140 200 mm
Right stiffness	Round shaped ducts: DN63 >8,0 kN/m ² DN75 >6,5 kN/m ² DN90 >6,0 kN/m ² Semi Circular shaped ducts: 50x100 >2,0 kN/m ² 50x140 >1,1 kN/m ²
Bending radii <small>(minimum)</small>	Round: DN63: 150 mm DN75: 150 mm DN90: 150 mm

Bending radii (minimum)	Semi circular: horizontal vertical 50x100: 200 mm 150 mm 50x140: 200 mm 400 mm
Mechanical Connections (duct length to be hold by connection not getting loose)	Round: DN63, DN75, DN90 > 10 m Semi circular: 50x100, 50x140 > 10 m
Flexibility (90° bending shall not deform duct or change inner diameter)	Round: DN63, DN75, DN90: no deformation or diameter change Semi circular: 50x100, 50x140: no deformation or diameter change
Bending stiffness	2 mm distance between supports
Microbial resistance (99,99 % of bacteria died after 72h)	DN63, DN75, DN90 > 99,99 % after 24 h 50x100, 50x140 > 99,99 % after 24 h
Food compatibleness	No volatile (harmful) substances release to endanger human health

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WOLF GmbH

product management
Sven Hübner

Industriestr. 1
D-84084 Mainburg
Tel/Phone +49 (0) 875174 0
Telefax +49 (0) 875174 16 00