

Certificate of constancy of performance

0761-CPR-0636

Z-3/710/03 (no. of agreement)

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Product Regulation or CPR), this certificate applies to the

construction product

Powered smoke and heat exhaust ventilators
ZerAx Axial Smoke Exhaust Ventilator, Type AZT 450
Diameter: 450 mm
Class according to EN 13501-4:2007+A1:2009: F₂₀₀ 120

produced by or for

NOVENCO Building & Industry A/S
Industrivej 22
4700 Næstved
Denmark

in the manufacturing plant

Næstved (Denmark).

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

EN 12101-3:2015

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction product.

This certificate has an annex with two pages. It was first issued on 2017-12-18. The validity begins on 2023-02-07 and will remain valid until 2028-02-06, as neither the harmonised standard, the construction product, the AVCP method nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the product certification body.

Braunschweig, 2023-02-07

Dr.-Ing. Sven Lehmborg
 (Head of certification body)

Additional information on ZerAx Axial Smoke Exhaust Ventilator, Type AZT 450

Mechanically driven exhaust appliances for smoke and heat (fans), smoke removal ventilator				
Classification				Basis
	Class	Temperature (°C)	Time (min)	
<input checked="" type="checkbox"/>	F ₂₀₀	200	120	2401/265/16
<input type="checkbox"/>	F ₃₀₀			
<input type="checkbox"/>	F ₄₀₀			
<input type="checkbox"/>	F ₆₀₀			
<input type="checkbox"/>	F ₈₄₂			
Free classification for purely informative purposes				Basis
<input type="checkbox"/>	F _{f250}			
<input type="checkbox"/>	F _{f300}			
<input type="checkbox"/>	F _{f600}			
Position of the ventilator and thermal insulation, if applicable				Basis
<input type="checkbox"/>	Outside of the building without thermal insulation			
<input type="checkbox"/>	Outside of the building with thermal insulation			
<input checked="" type="checkbox"/>	Inside the building, outside of the smoke compartment, without thermal insulation			2401/265/16
<input type="checkbox"/>	Inside the building, outside of the smoke compartment, with thermal insulation			
<input checked="" type="checkbox"/>	In the smoke compartment			2401/265/16
Installation				Basis
<input type="checkbox"/>	Fan upright, motor shaft horizontal			
<input type="checkbox"/>	Fan parallel to the wall, motor shaft horizontal			
<input type="checkbox"/>	Fan perpendicular to the wall, motor shaft horizontal			
<input checked="" type="checkbox"/>	Fan hanging, motor shaft horizontal			2401/265/16
<input type="checkbox"/>	Fan upright, motor shaft vertical			
<input type="checkbox"/>	Fan parallel to the wall, motor shaft vertical			
<input type="checkbox"/>	Fan perpendicular to the wall, motor shaft vertical			
<input type="checkbox"/>	Fan hanging, motor shaft vertical			
<input type="checkbox"/>	Motor shaft vertical, impeller under motor			
<input type="checkbox"/>	Motor shaft vertical, impeller above motor			
<input type="checkbox"/>	Motor upstream			
<input type="checkbox"/>	Motor downstream			

Annex of Certificate of constancy of performance

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Annex 2 of 2

Flexible connectors	Basis
<input type="checkbox"/> Flexible inlet duct on the inlet side	
<input type="checkbox"/> Flexible inlet duct on the outlet side	
<input type="checkbox"/> Flexible inlet duct on the inlet and outlet side	
<input type="checkbox"/> Flexible inlet duct for the cooling air connection	
Cooling air	Basis
<input type="checkbox"/> The minimum cooling air volume flow rate $C_{Air,\theta}$ depends on the fan's nominal size and nominal power (see operating manual). Maximum cooling air temperature $\theta = 40 \text{ }^\circ\text{C}$	
Starting	Basis
<input type="checkbox"/> AA oder MA (automatic or manual)	
Snow load, wind load	Basis
<input type="checkbox"/> Opening under wind load in a defined period of time	
<input type="checkbox"/> Opening under snow load in a defined period of time	
Accessories	Basis
<input checked="" type="checkbox"/> Grilles mounted on the fan inlet cones	2401/265/16
<input checked="" type="checkbox"/> Horizontal mounting brackets	2401/265/16
Application classes	Basis
<input checked="" type="checkbox"/> Dual purpose, Ventilation and Smoke extraction	2401/265/16
<input type="checkbox"/> Variable Speed Drive	

Technical product data:

Range of diameters	450 mm
Motor maker	WEG

Basis:

Test report no. 2401/265/16 of 2017-06-15

----- End of the certificate of constancy of performance -----