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Certificate of constancy of performance

0761-CPR-0916

Z-3/709/03 (no. of agreement)

iBMB MPA TU BRAUNSCHWEIG
Institut für Baustoffe, Massivbau und Brandschutz | Materialprüfanstalt für das Bauwesen

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 ventilator
IGW axial ventilator, impeller design SAS
Range of diameters: 400 mm ... 1,600 mm
Class according to EN 13501-4:2016: F_{400} 120

produced by or for

Witt & Sohn AG
Ziegeleiweg 38
25421 Pinneberg
Germany

in the manufacturing plant

Pinneberg (Germany).

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 2020-01-19. The validity begins 2022-07-04 and will remain valid until 2027-06-01, 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product, the AVCP method nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the product certification body.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, 2022-07-04

Dr.-Ing. S. Lehmberg
(Head of certification body)

Materialprüfanstalt f. d. Bauwesen MPA BS 5 Braunschweig

DAkkS Deutsche Akkreditierungsstelle D-ZE-11267-01-00

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Additional information on IGW axial ventilator, impeller design SAS

Mechanically driven exhaust appliances for smoke and heat (fans), smoke removal ventilator			
Classification			
	Class	Temperature (°C)	Time (min)
☒	F_{200}	200	120
☒	F_{300}	300	60
☒	F_{400}	400	120
☐	F_{600}		
☐	F_{842}		
Freie Klassifizierung zu rein informativen Zwecken			
☒	F_{f250}	250	120
☒	F_{f300}	300	120
☐	F_{f600}		
Position of the removal ventilator and thermal insulation, if applicable			
☒	Outside of the building without thermal insulation		
☐	Outside of the building with thermal insulation		
☒	Inside the building, outside of the smoke compartment, without thermal insulation		
☐	Inside the building, outside of the smoke compartment, with thermal insulation		
☒	In the smoke compartment		
Installation			
☒	Fan upright, motor shaft horizontal		
☒	Fan parallel to the wall, motor shaft horizontal		
☒	Fan perpendicular to the wall, motor shaft horizontal		
☒	Fan hanging, motor shaft horizontal		
☒	Fan upright, motor shaft vertical		
☒	Fan parallel to the wall, motor shaft vertical		
☒	Fan perpendicular to the wall, motor shaft vertical		
☒	Fan hanging, motor shaft vertical		
☒	Motor shaft vertical, impeller under motor		
☒	Motor shaft vertical, impeller above motor		
☐	Motor upstream		
☐	Motor downstream		

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Flexible connectors	
☐	Flexible inlet duct on the inlet side
☐	Flexible inlet duct on the outlet side
☐	Flexible inlet duct on the inlet and outlet side
☐	Flexible inlet duct for the cooling air connection
Cooling air	
☐	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 θ = 40 °C
Starting	
☐	AA oder MA (automatic or manual)
Snow load, wind load	
☐	Opening under wind load in a defined period of time
☐	Opening under snow load in a defined period of time
Accessories	
☒	Bellmouth
☒	Mounting brackets
☒	Variable Frequency Drive
☒	Terminal box
Application classes	
☒	Dual purpose, Ventilation and Smoke extraction
☒	Variable Speed Drive

Technical product data:

Hub ratio		P, N, M, X, Y
Range of diameters		400 mm ... 1,600 mm
Direction of flow		unidirectional, reversible
Motor maker		Nidec
Motor frame size	min	132
	max	250

Additional information:

Standards referred to:

EN 12101-3	EN 13501-4	EN 1363-1	EN 1363-2	ENV 1363-3

Basis:

Test report no. 2401/206/20-C6.1 and 2401/206/20-C6.2 of 2022-01-12

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