Certificate of constancy of performance

0761-CPR-0443

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 and IGW impulse/jet fans, impeller design SASP
Range of diameters: 500 mm ... 2,240 mm
Nominal diameters with transition piece: 560-50 mm ... 2,500-22 mm
Class according to EN 13501-4:2007+A1:2009: 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 2015-07-09. The validity begins on 2024-02-09 and will remain valid until 2026-09-23, 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product, the AVCP method nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the product certification body.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, 2024-02-09

Materialprüfanstalt f. d. Bauwesen MPA BS 6 Braunschweig

signiert/signed
Dr. Lehmberg, Sven
09.02.2024
14:07:05 +01

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

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

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Additional information on IGW axial ventilator and IGW impulse/jet fans, impeller design SASP

Mechanically driven exhaust appliances for smoke and heat (fans), smoke removal ventilator				
Classification				**Basis**
	Class	Temperature (°C)	Time (min)	
☒	F_{200}	200	120	2400/097/15
☒	F_{300}	300	60	2400/097/15
☒	F_{400}	400	120	2400/097/15
☐	F_{600}			
☐	F_{842}			
Free classification for purely informative purposes				**Basis**
☒	F_{f250}	250	120	2400/097/15
☒	F_{f300}	300	120	2400/097/15
☐	F_{f600}			
Position of the ventilator and thermal insulation, if applicable				**Basis**
☒	Outside of the building without thermal insulation			2400/097/15
☐	Outside of the building with thermal insulation			
☒	Inside the building, outside of the smoke compartment, without thermal insulation			2400/097/15
☐	Inside the building, outside of the smoke compartment, with thermal insulation			
☒	In the smoke compartment			2400/097/15
Installation				**Basis**
☒	Fan upright, motor shaft horizontal			2400/097/15
☒	Fan parallel to the wall, motor shaft horizontal			2400/097/15
☒	Fan perpendicular to the wall, motor shaft horizontal			2400/097/15
☒	Fan hanging, motor shaft horizontal			2400/097/15
☒	Fan upright, motor shaft vertical			2400/097/15
☒	Fan parallel to the wall, motor shaft vertical			2400/097/15
☒	Fan perpendicular to the wall, motor shaft vertical			2400/097/15
☒	Fan hanging, motor shaft vertical			2400/097/15
☒	Motor shaft vertical, impeller under motor			2400/097/15
☒	Motor shaft vertical, impeller above motor			2400/097/15
☐	Motor upstream			
☐	Motor downstream			

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Flexible connectors		Basis
☐	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		**Basis**
☐	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		**Basis**
☐	AA oder MA (automatic or manual)	
Snow load, wind load		**Basis**
☐	Opening under wind load in a defined period of time	
☐	Opening under snow load in a defined period of time	
Accessories		**Basis**
☒	Bellmouth	2400/097/15
☒	Mounting brackets	2400/097/15
☒	Variable Frequency Drive	2400/097/15
☒	Terminal box	2400/097/15
Application classes		**Basis**
☒	Dual purpose, Ventilation and Smoke extraction	2400/097/15
☒	Variable Speed Drive	2400/097/15

Technical product data:

Hub ratio		N, M, X, Y
Range of diameters		500 mm ... 2,240 mm
Direction of flow		unidirectional, reversible
Motor maker		WEG
Motor frame size	min	160
	max	355 (400)

Additional information:

Standards referred to:

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

Basis:

Test report no. 2400/097/15 of 2015-07-10

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