Certificate of constancy of performance



Materialprüfanstalt

0761-CPR-0131

Institut für Baustoffe, für das Bauwesen Massivbau und Brandschutz

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 Novax Axial Smoke Exhaust Ventilator, Type ARN (R05) Diameter: 900 mm ... 1,600 mm class according to EN 13501-4:2007+A1:2009: F400 120

produced by or for

NOVENCO Building & Industry A/S Oeverup Erhvervsvej 50-52 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. This certificate was issued 2025-03-14 and will remain valid until 2030-03-13, 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product, the AVCP method nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the product certification body. The certificate was first issued on 2010-02-01.

Braunschweig

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

Materialprüfanstalt für das Bauwesen (MPA BS) | Beethovenstr. 52 | D-38106 Braunschweig



Annex of Certificate of constancy of performance



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Institut für Baustoffe, Massivbau und Brandschutz

| 14 | Additional information on Novax Axial Smoke Exhaust Ventilator, Type ARN (R05) | | | | | |
|-------------|---|-----------------------------|-------------------------------|-------------|--|--|
| Mech | nanically driven exhaust applia | nces for smoke and heat (fa | ns), smoke removal ventilator | | | |
| Class | ification | | | Basis | | |
| X | Class | Temperature (°C) | Time (min) | | | |
| \boxtimes | F ₂₀₀ | 200 | 120 | 3782/045/07 | | |
| \boxtimes | F ₃₀₀ | 300 | 60 | 3782/045/07 | | |
| \boxtimes | F ₄₀₀ | 400 | 120 | 2400/456/17 | | |
| | F ₆₀₀ | | | | | |
| | F ₈₄₂ | | | | | |
| Free | Basis | | | | | |
| \boxtimes | F _{f250} | 250 | 120 | 3782/045/07 | | |
| \boxtimes | F _{f300} | 300 | 120 | 3782/045/07 | | |
| | F _{f600} | | | | | |
| Posit | Basis | | | | | |
| \boxtimes | Outside of the building without thermal insulation | | | 2400/456/17 | | |
| | Outside of the building with thermal insulation | | | | | |
| \boxtimes | Inside the building, outside of the smoke compartment, without thermal insulation | | | 2400/456/17 | | |
| | Inside the building, outside of the smoke compartment, with thermal insulation | | | | | |
| \boxtimes | In the smoke compartment | | | 2400/456/17 | | |
| Insta | Basis | | | | | |
| \boxtimes | Fan upright, motor shaft horizontal | | | 2400/456/17 | | |
| \boxtimes | Fan parallel to the wall, motor shaft horizontal | | | 2400/456/17 | | |
| \boxtimes | Fan perpendicular to the wall, motor shaft horizontal | | | 2400/456/17 | | |
| \boxtimes | Fan hanging, motor shaft horizontal | | | 2400/456/17 | | |
| \times | Fan upright, motor shaft vertical | | | 2400/456/17 | | |
| \times | Fan parallel to the wall, motor shaft vertical | | | 2400/456/17 | | |
| \boxtimes | Fan perpendicular to the wall, motor shaft vertical | | | 2400/456/17 | | |
| \boxtimes | Fan hanging, motor shaft vertical | | | 2400/456/17 | | |
| \boxtimes | Motor shaft vertical, impeller under motor | | | 2400/456/17 | | |
| \boxtimes | Motor shaft vertical, impeller above motor | | | 2400/456/17 | | |
| \boxtimes | Motor upstream | | | 2400/456/17 | | |
| \boxtimes | Motor downstream | | | 2400/456/17 | | |

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Basis

2400/456/17

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 $\theta = 40 \,^{\circ}\text{C}$ Starting Basis AA oder MA (automatic or manual) Snow load, wind load Basis Opening under wind load in a defined period of time

Application classes Dual purpose, Ventilation and Smoke extraction \times

Variable Speed Drive

Technical product data:

| Range of diameters | 900 mm 1,600 mm |
|--------------------|----------------------|
| Motor maker | WEG oder Leroy Somer |

Opening under snow load in a defined period of time

Standards referred to:

| EN 12101-3 EN 13501-4 EN 1363-1 EN 13 | 63-2 ENV 1363-3 |
|---------------------------------------|-----------------|
|---------------------------------------|-----------------|

Basis:

Test report no. 3782/045/07, 3092/966/09, 2400/456/17

- End of the certificate of constancy of performance