

## Declaration of performance – MU16227 0424

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|--|---|
| <p><b>1. Unique identification code of the product types</b><br/>         Novenco® ZerAx® family of axial fans<br/>         AZL-AZN-AZT-AUZ</p> <p><b>3. Manufacturer</b><br/>         Novenco Building &amp; Industry A/S,<br/>         Oeverup Erhvervsvej 50-52, DK-4700 Naestved</p> <p><b>5. Systems of assessment and verification of constancy of performance</b><br/>         System 1</p> | <p><b>2. Intended use</b><br/>         Ventilators for smoke and heat exhaust,<br/>         smoke exhaust jet fans</p> <p><b>4. Authorised representative</b><br/>         Technical director Mr Peter Holt<br/>         Novenco Building &amp; Industry A/S,<br/>         Oeverup Erhvervsvej 50-52, DK-4700 Naestved</p> <p><b>6. Harmonised standards</b><br/>         BS/DIN/DS/EN 12101-3:2015,<br/>         BS/DIN/DS/EN 13501-4:2016</p> |
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**Notified body**

ID no. 0761, iBMB MPA TU Braunschweig,  
 Beethovenstr. 52, D-38106 Braunschweig

**7. Declared performance**

| Main features                              | Performance                  | Harmonised technical specifications                     |
|--|------------------------------|---|
| Effectiveness of smoke / hot gas discharge | Temperature class, see below | BS/DIN/DS/EN 12101-3:2015,<br>BS/DIN/DS/EN 13501-4:2016 |

| Product                       | Temperature-time-classification |  |                  | Setup  |   |  |   |   |                                     | Arrangement                   |                                     |                          |                            |                             |                                   |                      |
|-------------------------------|---------------------------------|--|------------------|--|---|--|---|---|-------------------------------------|-------------------------------|-------------------------------------|--------------------------|----------------------------|-----------------------------|-----------------------------------|----------------------|
|                               |                                 |  |                  | Outside of the building without thermal insulation | Outside the building including thermal insulation | Inside the building but outside of the fire zone, without thermal insulation | Inside the building but outside of the fire zone including insulation | Inside the fire zone without thermal insulation | Horizontal axis, floor installation | Horizontal axis, wall mounted | Horizontal axis, ceiling suspension | Vertical axis, Δp upward | Vertical axis, Δp downward | Vertical axis, wall mounted | Vertical axis, ceiling suspension | Dual function device |
| AZL-AZN-AZT-AUZ<br>250 – 2000 | F400<br>120 min.                | F300<br>60 min.<br><br>+<br><br>Free classification<br>Ff300<br>120 min. | F200<br>120 min. |  |   |  |   |   |                                     |                               |                                     |                          |                            |                             |                                   |                      |
| WEG                           | NPD                             | 0761-CPR-0927  | 0761-CPR-0928    | x  |   | x  |   | x   | x                                   | x                             | x                                   | x                        | x                          | x                           | x                                 | x                    |

| Product | Temperature-time-classification |  |                  | Setup  |   |  |   |   |                                     | Arrangement                   |                                     |                          |                            |                             |                                   |                      |
|---------|---------------------------------|--|------------------|--|---|--|---|---|-------------------------------------|-------------------------------|-------------------------------------|--------------------------|----------------------------|-----------------------------|-----------------------------------|----------------------|
|         |                                 |  |                  | Outside of the building without thermal insulation | Outside the building including thermal insulation | Inside the building but outside of the fire zone, without thermal insulation | Inside the building but outside of the fire zone including insulation | Inside the fire zone without thermal insulation | Horizontal axis, floor installation | Horizontal axis, wall mounted | Horizontal axis, ceiling suspension | Vertical axis, Δp upward | Vertical axis, Δp downward | Vertical axis, wall mounted | Vertical axis, ceiling suspension | Dual function device |
| AUZ 340 | F400<br>120 min.                | F300<br>60 min.<br><br>+<br><br>Free classification<br>Ff300<br>120 min. | F200<br>120 min. |  |   |  |   |   |                                     |                               |                                     |                          |                            |                             |                                   |                      |
| WEG     | 0761-CPR-0477                   | 0761-CPR-0478  | 0761-CPR-0479    | x  |   | x  |   | x   |                                     |                               | x                                   |                          |                            |                             |                                   | x                    |

**8. Appropriate technical documentation and/or specific technical documentation**

**EU directives**

Machinery directive 2006/42/EU  
 EMC directive 2014/30/EU  
 Low voltage directive 2014/35/EU

BS/DS/EN ISO 12100:2010,  
 BS/DS/EN ISO 13857:2019,  
 BS/DS/EN 60204-1:2018,  
 BS/DS/EN IEC 61800-3:2018, class C2

**UK regulations**

Supply of Machinery (safety) 2008  
 EMC 2016  
 Electrical Equipment (Safety) 2016

**9. Compliance with the EN 12101-6:2022**

The following fan was tested in accordance with EN 12101-6:2022, Annex C, par. C1.3 to C1.5.

| Fan type    | ∅D [mm] | Nom. speed [RPM] | Nom. freq. [Hz] | Test freq. range [Hz] | Speed range [RPM] |
|-------------|---------|------------------|-----------------|-----------------------|-------------------|
| AZN 500/350 | 500     | 2,950            | 50              | 7 - 61                | 415 - 3,660       |

Allowed range of fans, based on the criteria in EN 12101-3:2015 Annex A.

| Fan type    | ∅D [mm] | Min. fan speed [RPM] | Max. fan speed [RPM] |
|-------------|---------|----------------------|----------------------|
| AZN 500/350 | 500     | 415                  | 3,660                |
| AZN 560/350 | 560     | 415                  | 3,460                |
| AZN 630/350 | 630     | 415                  | 3,238                |

The certificate issued by the MPA, which forms the foundation for this declaration, is based on tests of the ZerAx family of fans controlled with frequency converters at high and low speeds. Hence, the ZerAx family of fans is approved for running with variable speeds.

We direct attention to the use of certified equipment only, which includes the use of VFDs. Use of non-certified equipment voids the warranty. Refer to the Novenco product documentation and sales support for recommendations.

The performance of the products identified above conforms with the set of declared performances. This declaration of performance is in accordance with Regulation (EU) No 305/2011 and the amendment no. 574/2014, under the sole responsibility of the manufacturer identified above.

Peter Holt  
 Technical director  
 Naestved, Denmark, 11<sup>th</sup> April 2024

