## Certificate of constancy of performance 0761-CPR-0235

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



Institut für Baustoffe, für das Bauwesen Massivbau und Brandschutz

Materialprüfanstalt

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 Radial Smoke Exhaust Ventilator, Type CGF 500 Diameter: 500 mm class according to EN 13501-4:2007+A1:2009: F<sub>200</sub> 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 2012-06-08. The validity begins on 2022-07-21 and will remain valid until 2027-07-20, 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product, the AVCP method nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the product certification body.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, 2022-07-21





## Annex of Certificate of constancy of performance 0761-CPR-0235

Institut für Baustoffe, Massivbau und Brandschutz

Materialprüfanstalt

Annex 1 of 2

Mechanically driven exhaust appliances for smoke and heat (fans), smoke removal ventilator           Class         Temperature (°C)         Time (min)           ☑ F220         200         120         3673/858/12           ☐ F330         □         120         3673/858/12           ☐ F600         □         □         □           ☐ F600         □         □         □           ☐ F520         □         □         □           ☐ F550         □         □         □           ☐ F660         □         □         □           ☐ F550         □         □         □           ☐ F660         □         □         □           ☐ F550         □         □         □           ☐ F660         □         □         □           Position of the removal ventilator and thermal insulation, if application of the removal ventilator and thermal insulation insulation         □         □           ☐ Viside of the building with thermal insulation         □         □         □         □         □           ☐ Inside the building, outside of the smoke compartment, without thermal insulation         □         □         □         □         □         □         □         □         □	- 0	Additional inform	iation on Radial Smoke Exh	aust ventilator, Type CGF 500		
Class   Temperature (°C)   Time (min)	Med	chanically driven exhaust appli	ances for smoke and heat (f	ans), smoke removal ventilato	or	
⊠         F200         200         120         3673/858/12           □         F300	Clas	Classification				
□       F <sub>300</sub>   </td <td></td> <td>Class</td> <td>Temperature (°C)</td> <td>Time (min)</td> <td></td>		Class	Temperature (°C)	Time (min)		
□       F <sub>400</sub>   </td <td><math>\boxtimes</math></td> <td>F<sub>200</sub></td> <td>200</td> <td>120</td> <td>3673/858/12</td>	$\boxtimes$	F <sub>200</sub>	200	120	3673/858/12	
□         F <sub>600</sub> Basis           Free Jassification for purely informative purposes         Basis           □         F <sub>7250</sub> Control           □         F <sub>7300</sub> Control           □         F <sub>7500</sub> Control           □         Position of the removal ventilator and thermal insulation, if applicable         Basis           □         Outside of the building without thermal insulation         Control           □         Outside of the building with thermal insulation         3673/858/12           □         Inside the building, outside of the smoke compartment, without thermal insulation         3673/858/12           □         Inside the building, outside of the smoke compartment, with thermal insulation         3673/858/12           □         Inside the building, outside of the smoke compartment, with thermal insulation         3673/858/12           □         Fan upright, motor shaft horizontal         Basis           □         Fan parallel to the wall, motor shaft horizontal         Fan parallel to the wall, motor shaft vertical           □         Fan parallel to the wall, motor shaft vertical         Fan parallel to the wall, motor shaft vertical           □         Fan parallel to the wall, motor shaft vertical         3673/858/12           □         Hotor shaft vertical, impeller under motor		F <sub>300</sub>				
□         F <sub>862</sub> Basis           Free classification for purely informative purposes         Basis           □         F <sub>7250</sub> Canal		F <sub>400</sub>				
Free classification for purely informative purposes         □       Ft250		F <sub>600</sub>				
□ F <sub>1250</sub> □ F <sub>1300</sub> □ F <sub>1300</sub> □ Position of the removal ventilator and thermal insulation, if applicable Basis □ 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 □ Inside the building, outside of the smoke compartment, with thermal insulation □ In the smoke compartment □ Insulation □ In the smoke compartment □ Sa673/858/12 Installation □ Fan upright, motor shaft horizontal □ Fan parallel to the wall, motor shaft horizontal □ Fan parallel 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 parallel 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 upstream □ Motor upstream □ Horizontal		F <sub>842</sub>				
□ Fr300       Rosition of the removal ventilator and thermal insulation, if applicable       Basis         □ Outside of the building without thermal insulation       Sacra, 857,858/12         □ Inside the building, outside of the smoke compartment, without thermal insulation       3673,858/12         □ Inside the building, outside of the smoke compartment, with thermal insulation       3673,858/12         □ Inside the building, outside of the smoke compartment, with thermal insulation       3673,858/12         □ Inside the building, outside of the smoke compartment, with thermal insulation       3673,858/12         □ Inside the building, outside of the smoke compartment, with thermal insulation       3673,858/12         □ Fan upright, motor shaft horizontal       Basis         □ Fan upright, motor shaft horizontal       Fan parallel to the wall, motor shaft horizontal         □ Fan hanging, motor shaft vertical       Fan upright, motor shaft vertical         □ Fan parallel to the wall, motor shaft vertical       3673,858/12         □ Fan parallel to the wall, motor shaft vertical       3673,858/12         □ Fan hanging, motor shaft vertical       3673,858/12         □ Motor shaft vertical, impeller under motor       3673,858/12         □ Motor shaft vertical, impeller above motor       Motor shaft vertical, impeller above motor	Free	ree classification for purely informative purposes			Basis	
□ F <sub>16500</sub> Basis           Position of the removal ventilator and thermal insulation, if applicable         Basis           □ Outside of the building without thermal insulation		F <sub>f250</sub>				
Position of the removal ventilator and thermal insulation, if applicable         Basis           □ Outside of the building without thermal insulation		F <sub>f300</sub>				
□ Outside of the building without thermal insulation       3673/858/12         □ Inside the building, outside of the smoke compartment, without thermal insulation       3673/858/12         □ Inside the building, outside of the smoke compartment, with thermal insulation       3673/858/12         □ In the smoke compartment       3673/858/12         □ Installation       Basis         □ 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 upright, motor shaft vertical         □ Fan parallel to the wall, motor shaft vertical       3673/858/12         □ Fan hanging, motor shaft vertical       3673/858/12         □ Motor shaft vertical, impeller under motor       Motor shaft vertical, impeller above motor         □ Motor upstream       Motor upstream		F <sub>f600</sub>				
□ Outside of the building with thermal insulation       3673/858/12         □ Inside the building, outside of the smoke compartment, without thermal insulation       3673/858/12         □ Inside the building, outside of the smoke compartment, with thermal insulation       3673/858/12         □ In the smoke compartment       3673/858/12         Installation       Basis         □ Fan upright, motor shaft horizontal	Posi	Position of the removal ventilator and thermal insulation, if applicable				
☑ Inside the building, outside of the smoke compartment, without thermal insulation       3673/858/12         ☐ Inside the building, outside of the smoke compartment, with thermal insulation       3673/858/12         ☐ In the smoke compartment       3673/858/12         Installation       Basis         ☐ Fan upright, motor shaft horizontal       —         ☐ Fan parallel 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       3673/858/12         ☐ Motor shaft vertical, impeller under motor       —         ☐ Motor upstream       —		Outside of the building without thermal insulation				
□ Inside the building, outside of the smoke compartment, with thermal insulation □ In the smoke compartment □ In the smoke compartment □ 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 perpendicular to the wall, motor shaft vertical □ Fan hanging, motor shaft vertical □ Fan hanging, motor shaft vertical □ Motor shaft vertical, impeller under motor □ Motor upstream		Outside of the building with thermal insulation				
In the smoke compartment       3673/858/12         Installation       Basis         □ 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       3673/858/12         □ Motor shaft vertical, impeller under motor       □         □ Motor shaft vertical, impeller above motor       □         □ Motor upstream       □	X	Inside the building, outside of the smoke compartment, without thermal insulation			3673/858/12	
Installation       Basis         □ 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       3673/858/12         □ Motor shaft vertical, impeller under motor       □         □ Motor upstream		Inside the building, outside of the smoke compartment, with thermal insulation				
□ 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		In the smoke compartment			3673/858/12	
□ 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       3673/858/12         □ Motor shaft vertical, impeller under motor         □ Motor upstream	Inst	stallation			Basis	
□ 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		☐ Fan upright, 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		Fan parallel to the wall, 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		Fan perpendicular to the wall, motor shaft horizontal				
□       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		Fan hanging, motor shaft horizontal				
<ul> <li>□ Fan perpendicular to the wall, motor shaft vertical</li> <li>□ Fan hanging, motor shaft vertical</li> <li>□ Motor shaft vertical, impeller under motor</li> <li>□ Motor shaft vertical, impeller above motor</li> <li>□ Motor upstream</li> </ul>		Fan upright, motor shaft vertical				
☑ Fan hanging, motor shaft vertical 3673/858/12   ☑ Motor shaft vertical, impeller under motor    ☑ Motor shaft vertical, impeller above motor    ☑ Motor upstream		Fan parallel to the wall, motor shaft vertical				
<ul> <li>✓ Motor shaft vertical, impeller under motor</li> <li>✓ Motor shaft vertical, impeller above motor</li> <li>✓ Motor upstream</li> </ul>		Fan perpendicular to the wall, motor shaft vertical				
<ul><li>☐ Motor shaft vertical, impeller above motor</li><li>☐ Motor upstream</li></ul>		Fan hanging, motor shaft ver	tical		3673/858/12	
□ Motor upstream		Motor shaft vertical, impeller under motor				
		Motor shaft vertical, impeller above motor				
□   Motor downstream						
		Motor downstream				

Annex 2 of 2

Annex of Certificate of constancy of performance 0761-CPR-0235



Institut für Baustoffe, Massivbau und Brandschutz

Materialprüfanstalt

Flex	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		
Coo	Cooling air		
	The minimum cooling air volume flow rate CAir,0 depends on the fan's nominal size		
	and nominal power (see operating manual). Maximum cooling air temperature		
	θ = 40 °C		
Star	Starting		
	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		
	Mounting brackets		
	Variable Frequency Drive		
	Terminal box		
Application classes		Basis	
$\boxtimes$	Dual purpose, Ventilation and Smoke extraction	3673/858/12	
	Variable Speed Drive		

Basis:

Test report no. 3673/858/12 - C5.1/C5.2-MPA BS of 2012-06-05

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