Braunschweig Civil Engineering Materials Testing Institute (MPA Braunschweig)

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This certificate of compliance validates the following

TEST REPORT NUMBER:	**3782/045/07**	**CERTIFICATE NUMBER:**	**MPA BS-Z-068/17**
DATE OF ISSUE:	**2010-01-26**	**DATE OF ISSUE:**	**2022-11-24**
DATE OF EXPIRY:	**N/A**	**DATE OF EXPIRY:**	**2027-11-23**

NAME OF FACTORY/ MANUFACTURER:	**NOVENCO Building & Industry A/S**	**NAME OF THE BRAND:**	**NOVENCO**	**CERTIFICATION MARK:**
		MODEL/NO:	**NOVAX Type AUR, ARR Dia. 630 mm – 1,600 mm Class F300**	
FACTORY ADDRESS/REGION:	**INDUSTRIVEJ 22 DK-4700 NAESTVED Denmark Tel: +45 7077 88 99 Email: info@novenco-building.com**	**LOGO ON THE PRODUCT:**	Building & Industry NOVENCO SCHAKO Group	Z-068/17 ZERTIFIZIERT iBMB MPA TU BRAUNSCHWEIG

DESCRIPTION OF THE PRODUCT:	Powered jet fans for tunnels including the removal of smoke at high temperatures, i.e. for operation at 300 °C for a minimum of 120 minutes.
TEST STANDARD:	EN 12101-3
TEST DESCRIPTION:	Four ventilators were tested in an oven heated up to 300 °C by means of gas burners. Temperature measurements were done with thermocouples. During the test, temperature, volume flow, pressure and electrical values (current, voltage, etc) were measured. The test standard requires to stop the operation after 15 min for two minutes and to restart it.
SPECIFICATION OF TEST SPECIMEN:	The axial flow fan tested had diameter of 1,600 mm with a power input of 45 kW. It was equipped with silencers.

TEST RESULT:

MAINTENANCE OF FUNCTION	INTERPRETATION	RESULT
300 °C FOR 120 MIN	**SUCCESSFUL**	**PASSED**

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PRODUCT APPLICATION GUIDELINE (END USE):	For use as a powered smoke and heat ventilators for temperatures up to 300 °C and for up to 120 min in a horizontal or a vertical position inside or outside the fire zone without thermal insulation. The ventilator can be used for dual operation (normal ventilation and hot smoke removal). The product must be applied in accordance with the provisions in the manufacturer's manual. Prior to installation the personnel must be instructed.

SIGNED BY:

signiert
Dr. Lehmberg, Sven
24.11.2022
14:54:20 GMT

Dr.-Ing. Sven Lehmberg
Head of certification

The above certificate is valid only when installed in accordance with the 'Product Application Guideline (End Use)'. To verify the validity of the product please log into our website, click on 'certification' and then on 'list of certificates'. You will find a list of manufacturers and a certificate with the number as given above.

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

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ACCREDITED BY:	**DAkkS**	**DAkkS**
AS PER:	**ISO/IEC 17065**	**ISO/IEC 17025**
VALIDITY:	**N/A**	**N/A**
REFERENCE NUMBER:	**D-ZE-11267-01-00**	**D-PL-11267-01-02**

THE LIST OF ACCREDITED TESTS (FIRE AND LIFE SAFETY PRODUCTS ONLY)

TEST STANDARD	TITLE
EN 12101-1	Smoke and heat control systems – Part 1: Specification for smoke barriers
EN 12101-2	Smoke and heat control systems – Part 2: Specification for natural smoke and heat exhaust ventilators
EN 12101-3	Smoke and heat control systems – Part 3: Specification for powered smoke and heat exhaust ventilators
EN 12101-6	Smoke and heat control systems – Part 6: Specification for pressure differential systems, Kits
EN 12101-7	Smoke and heat control systems – Part 7: Smoke duct sections
EN 12101-8	Smoke and heat control systems – Part 8: Smoke control dampers
EN 1366-8	Fire resistance tests for service installations – Part 8: Smoke extraction ducts
EN 1366-9	Fire resistance tests for service installations – Part 9: Single compartment smoke extraction ducts
EN 1366-10	Fire resistance tests for service installations – Part 10: Smoke control dampers
EN 13501-4	Fire classification of construction products and building elements – Part 4: Classification using data from fire resistance tests on components of smoke control systems