

Certificate of constancy of performance

0402-CPR-C000010

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

Natural smoke and heat exhaust ventilator

for fire safety use in natural smoke and heat exhaust systems, with specification and performance as specified on page 2 in this certificate.

Product name: Product name: GGL -K-- ---- 40D, GGU -K-- ---- 40D

placed on the market under the name or trademark of

Velux A/S

Ådalsvej 99 DK-2970 Hørsholm, Denmark

and produced in the manufacturing plants

A/S Østbirk Bygningsindustri, Ryvej 21, DK-8752 Østbirk, Denmark JTJ Sonneborn Industrie GmbH, Am Arzbach 13, DE-99869 Sonneborn, Germany Thyregod Bygningsindustri A/S, Nordre Ringvej 9, DK-7323 Give, Denmark

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in annex ZA of the standard

EN 12101-2:2003

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 was first issued on 2015-03-12 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Issued by notified body 0402

The validity of this certificate can be verified on our website.

Martin Tillander
Product Certification Manager

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Specification

Dual purpose natural smoke and heat exhaust ventilator, intended for comfort ventilation as well as smoke and heat exhaust ventilation under fire conditions. The opening is type B.

The frame and sash of the NSHEV is a normal roof window, the sash have up to 13 mm glass in total. The flap has a pivot action and is horizontally pivoted. The NSHEV can be equipped with and without wind deflectors.

The NSHEV is for roof and wall mounting and is tested with and without side wind.

Length and width (throat): See values in size specifications table below

Installation angle: 15° - 90° Wind deflector (if equipped): KFD 0100 Opening angle (fire opening): 85°

Opening mechanism: Electrical chain actuator and two gas jacks

Opening mechanism, supplier and type: Velux A/S, 3FM FK18 WW, 3FM FK16 WW, 3FM FK14 WW

Necessary characteristics of the external energy source: 24V, 2,5A

Size specification

Size (GGL and GGU)			Geometric area, A _v	Aerodynamic free area, A₃			
(00	L and GC	30)	area, Av	Roof mounted	Roof mounted	Wall mounted	Wall mounted
				with	without	with	without
Size	Height	Width		KFD 0100	KFD 0100	KFD 0100	KFD 0100
code	m	m	m ²	m²	m²	m²	m²
MK04	0.90	0.70	0.63	0.36	0.19	0.42	0.41
MK06	1.10	0.70	0.77	0.46	0.29	0.51	0.52
MK08	1.32	0.70	0.92	0.59	0.43	0.61	0.63
PK04	0.90	0.86	0.77	0.42	0.20	0.51	0.52
PK06	1.10	0.86	0.95	0.53	0.30	0.61	0.62
PK08	1.32	0.86	1.14	0.68	0.46	0.73	0.70
SK04	0.90	1.06	0.95	0.49	0.19	0.62	0.62
SK06	1.10	1.06	1.17	0.61	0.28	0.75	0.72
SK08	1.32	1.06	1.40	0.77	0.44	0.88	0.88
UK04	0.90	1.26	1.13	0.54	0.16	0.73	0.70
UK06	1.10	1.26	1.39	0.68	0.25	0.87	0.87
UK08	1.32	1.26	1.67	0.83	0.38	1.05	1.06

Performance

Aerodynamic free area See values in size specifications table above

Reliability Re 1000 SL 1000 Snow load Low ambient temperature T(-15) Wind load except for GGL/GGU 40D - UK08 WL 3000 Wind load for GGL/GGU 40D - UK08 WL 1500 Resistance to heat B 300 Reaction to fire GGL 40D C-s1, d2 Reaction to fire GGU 40D D-s2, d2

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