



Certificate of constancy of performance

0402 - CPR - SC0927-14

In compliance with *Regulation 305/2011/EU 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 use in smoke and heat control systems,
as specified in appendix to this certificate.

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

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
SIG Sonnerborn, Am Arzbach 13, DE-99869 Sonnerborn, 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are modified significantly, unless suspended or withdrawn by the notified product certification body.

2016-11-20

SP Technical Research Institute of Sweden
Certification, Notified Body No. 0402

Lennart Aronsson
Product Certification Manager

Martin Tillander
Certification officer



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0402 - CPR - SC0927-14 appendix

Natural smoke and heat exhaust ventilator (NSHEV), **GGL -K-- ----40, GGU -K-- ----40**

For use in smoke and heat control systems, in construction works.

Dual purpose NSHEV, intended for comfort ventilation as well as smoke and heat exhaust ventilation under fire conditions. 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 or without wind deflectors.

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

Specifications:

Length and width (throat)	See values in size specifications table below
Installation angle	15° - 90°
Wind deflector (if equipped with this)	KFD 0000
Opening mechanism	Electrical chain motor and two gas jacks
Opening mechanism, supplier and type	Velux A/S, 3FM FK04 WW, 3FM FK06 WW, 3FM FK08 WW

Necessary characteristics of the external energy source: 24V, 1,8A

Size Specifications

Size (GGL and GGU)			Geometric area, A _v m ²	Aerodynamic free area, A _a			
Size code	Height m	Width m		Roof mounted with KFD 0000 m ²	Roof mounted without KFD 0000 m ²	Wall mounted with KFD 0000 m ²	Wall mounted without KFD 0000 m ²
MK04	0.90	0.70	0.63	0.33	0.19	0.41	0.41
MK06	1.10	0.70	0.77	0.43	0.29	0.51	0.52
MK08	1.32	0.70	0.92	0.55	0.43	0.61	0.63
PK04	0.90	0.86	0.77	0.39	0.20	0.51	0.52
PK06	1.10	0.86	0.95	0.49	0.30	0.61	0.62
PK08	1.32	0.86	1.14	0.63	0.46	0.70	0.70
SK04	0.90	1.06	0.95	0.46	0.19	0.61	0.62
SK06	1.10	1.06	1.17	0.55	0.28	0.73	0.72
SK08	1.32	1.06	1.40	0.70	0.44	0.90	0.88
UK04	0.90	1.26	1.13	0.51	0.16	0.70	0.70
UK06	1.10	1.26	1.39	0.62	0.25	0.89	0.87
UK08	1.32	1.26	1.67	0.73	0.38	1.10	1.06

Performance/Classification:

Aerodynamic free area	See values in size specifications table above
Reliability	Re 1000
Snow load	SL 800
Low ambient temperature	T(-15)
Wind load	WL 3000
Resistance to heat	B 300
Reaction to fire	E