



EC DECLARATION OF PERFORMANCE

Vengen 28 Natural Smoke and Heat Exhaust Ventilator

SAM-F-24E

Complying with the following EU Regulation:
305/2011/EEC : Construction Products Regulation

Swegon Air Management LTD,
Stourbridge Road, Bridgnorth,
Shropshire, WV15 5BB

System 1

International Fire Consultants

Performed the determination of the product type on the basis of type testing (including sampling), and the initial inspection of the manufacturing plant and of factory production control and continuous surveillance, assessment and evaluation of factory control under system 1 and issued the certificate of constancy of conformity of the factory production control (1720-CPR-0162)

Declared Performance to BS EN12101-2:2003 Smoke and Heat Exhaust Ventilators Part 2, Specification for Natural Smoke and Heat Exhaust Ventilator

Product	Vengen 28 NSHEV
Intended Use	Dual Purpose Natural Smoke and Heat Exhaust Ventilator for use in the external façade of a building. This product must be installed vertically, and cannot be used for compartmentation purposes.
Manufacture	Swegon Air Management Ltd, Stourbridge Road, Bridgnorth, Shropshire, WV15 5BB
System of AVCP	System 1
Harmonised Standard/Notified Body/Certificate number	BS EN 12101-2:2003, IFC, certificate number 1720-CPR-0162
Performance Standard	BE EN 12101-2:2003.

Essential Characteristic	Requirement Clause in the Standard	Performance	Notes
Nominal activation conditions/sensitivity as:	4.1 4.2	Initiation device activated by an electrical signal from a remote signal D&H 24 Actuator	
Response delay (Response Time)	7.1.2	<60 seconds	
Operational reliability, as:	7.1 7.4	Re 1000, plus 10,000 cycles to meet requirements of dual purpose ventilator WL 1500	Annex C Annex F
Effectiveness of smoke/hot gas extraction	6	$A_a = 0.04\text{m}^2 \text{ min, } 1.47\text{m}^2 \text{ max}$	Annex B
Aerodynamic Free Area:	6	$A_a = 0.04\text{m}^2 \text{ min, } 1.47\text{m}^2 \text{ max}$	Annex B
Performance Parameters Under Fire Conditions	7.5	$B_{300} 30$	Annex G
Heat Resistance – Mechanical Stability	7.5	< 10%	Annex G
Ability to Open under Environment Conditions	7.2 7.3	NPD T(-0.5)	Annex D Annex E
Reaction to Fire	7.5.2.1	E	

Overall dimension NSHEV		Amount of Blades	Width of Blades	C_{v0}
Width (W)	Height (H)			
240mm	967mm	3	299.7mm	0.59
1500mm	1868mm... 2000mm	7	257.1mm – 276mm	0.56
240mm... 1500mm	668mm... 966mm	3	200mm – 299.3mm	0.55
240mm... 1500mm	968mm... 1267mm	4	225mm – 299.8mm	
240mm... 1500mm	1268mm... 1567mm	5	240mm – 299.8mm	
240mm... 1500mm	1568mm... 1867mm	6	250mm – 299.8mm	
240mm... 1499mm	1868mm... 2000mm	7	257.1mm – 276mm	

This document is assumed to be uncontrolled at the point of printing or saving. Please check the website for the latest version of this document.

Registered Address
Swegon Air Management Ltd
 Stourbridge Rd, Bridgnorth, Shropshire, WV15 5BB, United Kingdom
 Registered in England No. 738495

+44 (0) 1746 761921
www.swegon.com/uk/

Signed for on behalf on the manufacturer
 Business Unit Director for Room Unit
 Andrew Collard



Revision 3 31/01/2023