



Natural Smoke and Heat Exhaust Ventilator (NSHEV)

DECLARATION OF PERFORMANCE (DoP) QUICKGUIDE

HARMONISED STANDARD EN 12101-2:2003

HOW TO READ IT?

WHAT IS A DoP?

A Declaration of Performance (DoP) is a document issued by the manufacturer which provides relevant information on the performance of a construction product.

WHAT IS CE MARKING?

NSHEVs are construction products under the CPR, and the CE marking indicates that the NSHEV has been assessed according to the harmonised European standard EN 12101-2:2003.

RELIABILITY - Re

Ability of the ventilator to perform a number of opening and closing cycles*, typically ranging from 50 to 1,000, under normal operating conditions.

*If the ventilator serves a dual purpose, it shall reliably perform an initial 10,000 comfort opening cycles prior to any total fire openings.

RESISTANCE TO HEAT - B

Ability of the ventilator to remain open under elevated temperatures (with a maximum 10% reduction of the throat area).

OPENING UNDER LOAD - SL

Ability of the ventilator to lift the weight of casements, glass, louvres or other components, with the addition of potential snow loads, where applicable.

An example of an NSHEV DoP

Declaration of performance		
	12345-ABCDE	UNIQUE ID OF THE DOCUMENT (DoP)
UNIQUE ID OF THE PRODUCT	NSHEV model XYZ 1a2b3c	
	Natural smoke and heat exhaust ventilators for smoke and heat control in construction works.	INTENDED USE
AVCP SYSTEM	System 1	
NOTIFIED BODY NO.	EN 12101-2:2003 Notified Body: 0123	HARMONISED EU STANDARD
AERODYNAMIC FREE AREA (m ²)	Aa: 1.0	LOW AMBIENT TEMPERATURE (°C)
RELIABILITY	Re 50	DUAL PURPOSE: YES
RESISTANCE TO HEAT	B 300	REACTION TO FIRE
OPENING UNDER LOAD (Pa)	SL 750	STABILITY UNDER WIND LOAD (Pa)
	NSHEV MANUFACTURER COMPANY Address, City	
	Signature, place and date	

AERODYNAMIC FREE AREA - Aa

Measure of the efficiency and effectiveness of the ventilators ability to permit the passage of air and/or smoke. The value of Aa is provided by the manufacturer.

LOW AMBIENT TEMPERATURE - T

An inside temperature below the freezing point at which the ventilator is capable of performing the opening under load.

REACTION TO FIRE - E

Behaviour of the ventilators when exposed to fire, including their combustibility and production of smoke and flaming droplets.

STABILITY UNDER WIND LOAD - WL

The negative wind pressure after which the ventilator remains undamaged and is still able to open to the fire-open position in less than 60 seconds.

ESSENTIAL CHARACTERISTICS IN THE DESIGN PROCESS

MINIMUM VALUES OF THE CHARACTERISTICS MAY DIFFER DEPENDING ON THE REGION. REMEMBER TO CHECK THE NATIONAL REGULATIONS AND STANDARDS!