



## SMOKE OUT SHED™, for walls

The use of NSHEVs for walls requires that natural smoke and heat exhaust ventilation system, NSHEVS, always has enough NSHEVs available on a wall of the building not exposed to winds. It also requires that NSHEVS is supplemented by a wind speed and direction control system, thus avoiding the opening of devices exposed to headwinds.

Compliance with these circumstances, which are necessary to ensure correct NSHEVS operating with any weather condition, leads to double the number of NSHEVs required and to insert a control and command circuit into the system, with a significant increase in costs. The use of roof NSHEVs on saw-tooth roofs can protect the device from side wind but does not give full guarantee that in each configuration there is no headwind which contrasts smoke exit.

Upon these considerations CAODURO® has developed its **SMOKE SHED™**, designed and patented with suitable **retractable aerodynamic spoilers**, which are activated only when the device opens in case of fire. These **guarantee the Aa value** (aerodynamic free area) **evaluated in presence of wind**. The **opening angle is optimized** in order to obtain this Aa value and does not have any protrusion, which normally the market offers with an unsightly effect.

**SMOKE SHED™** was **tested in laboratory** with an **horizontal 10 m/s speed wind**, as required by Aa evaluation tests.

**SMOKE SHED™** natural smoke and heat exhaust ventilators for walls and saw-tooth roofs comply with **Regulation (EU) No 305/2011**. They are provided with **CE marking, tested and certified** according to **EN 12101-2** Standard by a notified body with the **aerodynamic free area evaluated in presence of wind**.

**SMOKE SHED™** allows to create **safe NSHEVS** in all conditions: with NSHEVs installed on saw-tooth roofs; with NSHEVs installed on walls; without wind speed and direction control systems. It also **reduces NSHEVS cost** by decreasing the number of NSHEVs and by simplifying the command and control system. **Accessories and spoilers** are always closed and **come out only in case of fire**, thus keeping the façades appearance unchanged, unlike imitations. The **attention to details is maximum**, and **continuity of the elements is guaranteed in their closed position**.

**SMOKE SHED™** is a **patented device** and **complies with EN 12101-2** Standard.

See also: / [Ventilation systems](#) / [Smoke and fire curtains](#) / [Boxes](#) / [Accessories](#)



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## Performance and qualification requirements

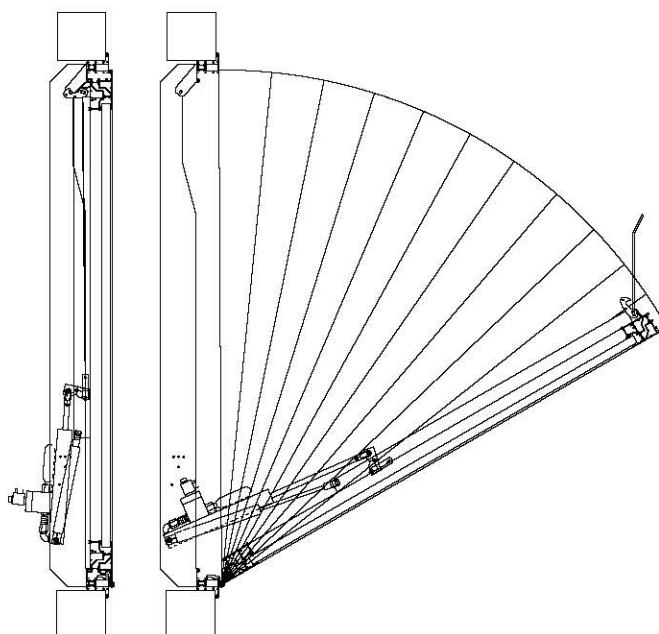
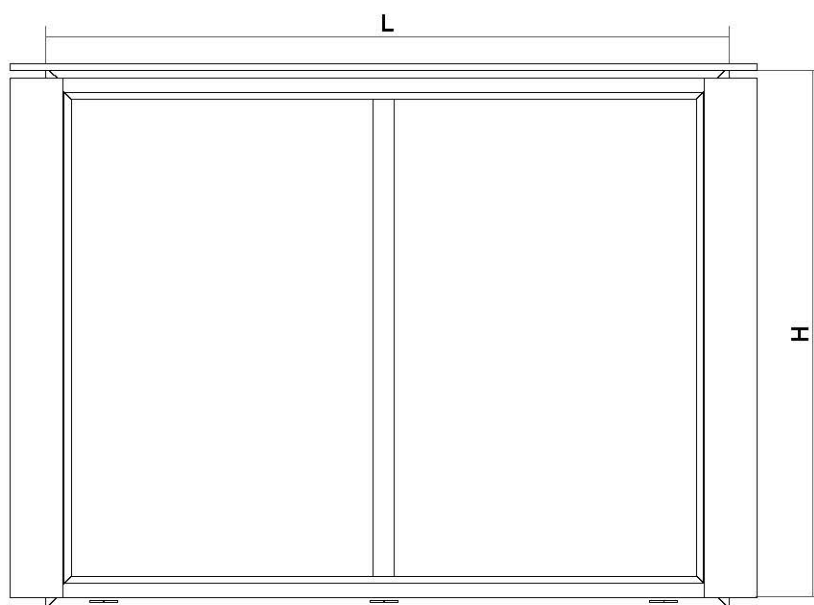
Wind load	WL 1500
Operational reliability	Re 300*
Opening under load	SL 0
Low ambient temperature	T(00)
Resistance to heat	B300
Alveolar PC sheets	Euroclass B s1 d0
Glass sheets	Euroclass A1

\*10,000 cycles dual purpose with electric motor

## Dimensioni

Frame clear span A	Wall opening LxH	
	No thermal brake frame	Thermal brake frame
Minimum dimension	64x64	65x65
Maximum dimension	259x169	260x170

Aerodynamic free area  $A_a$  value of each device can be requested by contacting our offices.  
The realization is custom made.  
Dimensions in cm.



Accordions and spoilers are always closed and come out only in case of fire, thus keeping the façades appearance unchanged, unlike imitations.