





The information in this document is correct at the time of issue, however is subject to change.

# **Tested AOV Solutions**







Comar and SE Controls have collaborated together to provide the fabricator network with a compliant NSHEV AOV to meet the requirements of EN12101-2:2003

The Construction market cannot accept the use of a standard window and 'off the shelf' actuator as an AOV as both must be tested together and manufactured under a System 1 Factory Production Control process to comply. Uilising this tested solution and process detailed below will remove risk from the fabricator of non-compliance in life safety systems.

Compliance to EN12101-2:2003 for smoke vents is mandated by law in the Construction Products Regulation which has been in force since 2013.

The following process has been put in place to support you as a fabricator in placing that product onto the market compliantly

### **SE Controls Certification Process**

#### **STAGE 1 Consult**

Consult SE Controls:

- Ensure the system that has been selected is within scope of the tested solution,
- -free area performance calculations and to -select the appropriate tested actuator.

### **STAGE 2 Fabricate**

Fabricate as per the tested solution preparation details and System Company Technical Manual under System 1 FPC to EN 12101-2.

#### **STAGE 3 Installation of Actuators**

Installation of actuators (during fabrication or on site) must be carried out under a System 1 FPC process as per the prescriptive detail. Apply certification mark.

#### **STAGE 4 Certify**

SE Controls produce a Declaration of Performance (DoP) to EN12101-2:2003 in accordance with BS 7346-8 and the CPR.



As detailed in the certification process the fabricator manufacturing the smoke vents must be audited under a System 1 Factory Production Control Process by a notified body. If you are not already audited and would like to speak to someone about the process please contact our facade technical team - facade.technical@secontrols.com

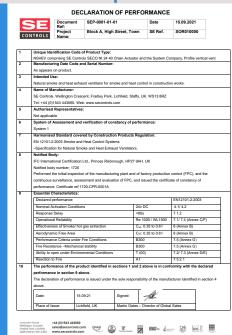
Alternatively, click <u>here</u> for our list of audited facade fabricators who can manufacture for you.

## **Typical AOV Opening Orientations**





# **Proof of Compliance**



The Declaration of Performance (DoP) and the product certification mark are the ultimate proof of compliance which illustrates the vent profile and actuator have been tested together as a single solution to all declarable essential characteristics of EN12101-2:2003.

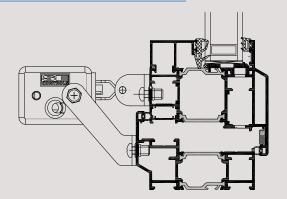
The NSHEV is part of a life safety system and the DoP is required at project handover stage in accordance with the CPR and BS7346-8 code of practice.

Ensure that you have this document as it will delay handover if not provided when requested.



## Comar Architectural Aluminium Systems 9Pi EN12101-2 Tested Profiles and Parameters





FRAME REF NO.	OPENING VENT REF NO.	ADDITIONAL FEATURES REF NO.	SERIES 40 BRACKET KIT NO.
CS906	CS956	CS931	AKS16100002
CS906	CS956	CS932	AKS16100002
CS906	CS956	CS933	AKS16100002
CS934	CS956		AKS16100002
CS935	CS956		AKS16100002
CS906	CS957	CS931	AKS16100002
CS906	CS957	CS932	AKS16100002
CS906	CS957	CS933	AKS16100002
CS934	CS957		AKS16100002
CS935	CS957		AKS16100002

### **System Parameters**

SYSTEM NAME	MAX SASH WIDTH	MAX SASH HEIGHT	MAX SASH WEIGHT
TOP PROJECTED	1500MM	1500MM	100KG
SIDE PROJECTED	1000MM	1800MM	40KG
BOTTOM HUNG BUTT HINGES	1500MM	1800MM	100KG

Max Certifiable Weight = 100KG, Max Certifiable Permiter = 7.1 Metres

Butt hinges are the preferred hardware for AOV's. Please contact Comar's technical team for confirmation of suitable hardware



















#### Notes

The profile parameters outlined within this document are aligned to Comar tested performance parameters. If your vents are outside of these sizes please ensure you obtain written acceptance from Comar for the oversized vents. Without this we cannot produce a Declaration of Performance.

The actuators alone will not act as 'window restrictors'. The façade contractor/ fabricator should consider the installation of suitable restrictors relative to the orientation of the vent, so that stability is provided should the actuator be removed, or the vent is subjected to high external forces whilst in the open position. Contact our team for further advice.

Please ensure that the latest Comar Technical Manual is followed during fabrication of the vents. Any deviation from the technical manual must be discussed with SE Controls prior to fabrication

### **Façade Engineering Services**

**CAD DETAILS PROJECT DESIGN CERTIFICATION QUOTATIONS FREE AREA CALCULATIONS REGULATIONS ADVICE PRODUCT SELECTION SPECIFICATION** 

To contact a member of the Facade support team click here.

For further information click here for the Smoke Control Association's guidance document for EN12101-2:2003 Automatic Opening Smoke Vents.

















