





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

# **Tested AOV Solutions**







Aluprof 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

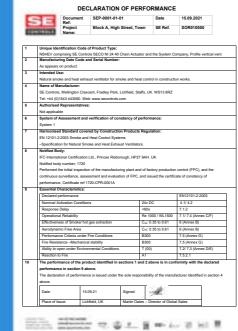
Alternatively, click here for our list of audited facade fabricators who can manufacture for you.

# **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.

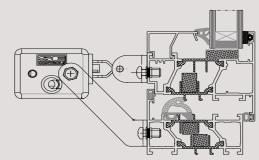
The NSHEV is part of a life safety system and the DoP is required at project handover stage in accordance with the CPR and BS7346-8 code of practice.

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



# <u>Aluprof MB-70 EN12101-2 Tested Profiles and Parameters</u>





FRAME REF NO.	OPENING VENT REF NO.	SERIES 40 BRACKET KIT NO.
K518101X	K518427X	AKS16000003
K518122X	K518427X	AKS16000003
K518133X	K518427X	AKS16000003
K518158-H	K518427X	AKS16000003
K518479X	K518427X	AKS16000003
K518481X	K518427X	AKS16000003
K618102X	K618427X	AKS16000003
K618470X	K618427X	AKS16000003
K618471X	K618427X	AKS16000003
K618472X	K618427X	AKS16000003
K618474X	K618427X	AKS16000003
K618475X	K618427X	AKS16000003
K618476X	K618427X	AKS16000003
K518133X	K518428X	AKS16000003
K518483X	K518428X	AKS16000003
K618470X	K618428X	AKS16000003
K618471X	K618428X	AKS16000003
K618472X	K618428X	AKS16000003
K618474X	K618428X	AKS16000003
K618475X	K618428X	AKS16000003
K618476X	K618428X	AKS16000003
K618470X	K618429X	AKS16000003
K618471X	K618429X	AKS16000003
K618472X	K618429X	AKS16000003
K618474X	K618429X	AKS16000003
K618475X	K618429X	AKS16000003
K618476X	K618429X	AKS16000003

## **System Parameters**

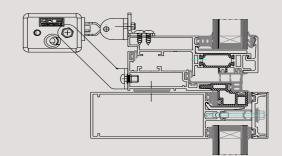
ORIENTATION	MAX SASH WIDTH	MAX SASH HEIGHT	MAX SASH WEIGHT
TOP HUNG ON BUTT HINGES	2400MM	2500MM	180KG
SIDE HUNG ON BUTT HINGES	1400MM	2600MM	180KG
BOTTOM HUNG ON BUTT HINGES	2400MM	2500MM	180KG

Max Certifiable Weight = 120KG, Max Certifiable Permiter = 7.1 Metres

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

# Aluprof MB-SR50N OW EN12101-2 Tested Profiles and Parameters





FRAME REF NO.	OPENING VENT REF NO.	SERIES 40 BRACKET KIT NO.	SERIES 40 TRUNNION BRACKET NO.
K431578X	K518410X	AKS16000003	ABS01000241
K431578X	K519610X	AKS16000002	ABS01000241
K432186X	K519612X	AKS16000002	ABS01000241
K431579X	K518410X	AKS16000003	ABS01000241
K431579X	K519610X	AKS16000002	ABS01000241
K432187X	K519612X	AKS16000002	ABS01000241
K431578X	K518409X	AKS16000003	ABS01000241
K431578X	K519611X	AKS16000002	ABS01000241
K432186X	K519613X	AKS16000002	ABS01000241
K431579X	K518409X	AKS16000003	ABS01000241
K431579X	K519611X	AKS16000002	ABS01000241
K432187X	K519613X	AKS16000002	ABS01000241

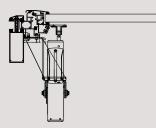
# **System Parameters**

ORIENTATION	MAX WIDTH	MAX HEIGHT	MAX WEIGHT
TOP HUNG ON FRICTION STAYS	2000MM	2629MM	180KG
SIDE HUNG ON FRICTION STAYS	967MM	2000MM	55KG

Max Certifiable Weight = 120KG, Max Certifiable Permiter = 7.1 Metres

## Aluprof MB-SR50N RW Inclined EN12101-2 Tested Profiles and Parameters









	OPENING VENT REF NO.	ACTUATOR SERIES	TRUNNION PLATE PART NUMBER	STAND OFF BRACKET LH	STAND OFF BRACKET RH	SLIDING BRACKET
K518031X	K518030X	SELA T 24 100 SYNCHRO	AXS15031001	AXS15041001	AXS15041002	AAU0041761Z

### **System Parameters**

ORIENTATION	MAX WIDTH	MAX HEIGHT	MAX WEIGHT
TOP HUNG ON BUTT HINGES	1820MM	2025MM	150KG
BOTTOM HUNG ON BUTT HINGES	1820MM	2025MM	150KG

## Notes

The profile parameters outlined within this document are aligned to Aluprof 's tested performance parameters. If your vents are outside of these sizes please ensure you obtain written acceptance from Aluprof 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 Aluprof 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 <u>click here</u>.

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

















