





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

## **Tested AOV Solutions**







Eurocell 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. Utilising 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**

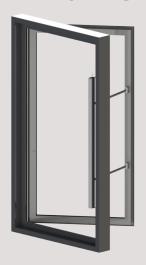
SE Controls produce a Declaration of Performance (DoP) to EN12101-2:2003 in accordance with BS 7346-8 and the CPR.



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**

K	SE	Document Ref:	SEP-0001-01-	01	Date	15.09.2021		
CC	ONTROLS	Project Name:	Block A, High	Street, Town	SE Ref.	SOR010000		
1	Unique Ide	ntification Code	of Product Type:					
				Chain Actuator	and the System C	ompany, Profile vertical ver		
2	Manufactu	ring Date Code a	nd Serial Number					
	As appears	on product.						
3	Intended U	se:						
	Natural smo	ke and heat exha	oust ventilator for sr	noke and heat o	ontrol in constructi	on works.		
4	Name of M	anufacturer:						
	SE Controls	, Wellington Cres	cent, Fradley Park,	Lichfield, Staffs	UK. WS13 8RZ			
	Tel: +44 (0)	1543 443060. We	b: www.secontrols	com				
5	Authorised	Representative	s:					
	Not applical	ble						
6	System of	Assessment and	verification of co	nstancy of perf	ormance:			
	System 1							
7	Harmonise	Harmonised Standard covered by Construction Products Regulation:						
	EN 12101-2	:2003 Smoke and	Heat Control Syst	ems				
	-Specificati	on for Natural Sm	oke and Heat Exha	ust Ventilators.				
8	Notified Bo	Notified Body:						
	IFC Internal	tional Certification	Ltd., Princes Risbo	rough, HP27 9/	NH. UK			
		IFC International Certification Ltd., Princes Risborough, HP27 9AH. UK Notified body number; 1720						
			on of the manufactu	ring plant and of	factory production	control (FPC), and the		
	continuous	surveillance, asse	ssment and evalua	tion of FPC, and	issued the certific	ate of constancy of		
		e. Certificate ref 1						
9	Essential C	haracteristics:						
	Declared p	performance				EN12101-2:2003		
	Nominal A	ctivation Conditio	ns	24	v DC	4.1/4.2		
	Response	Response Delay			90s	7.1.2		
	Operational Reliability			B	e 1000 / WL1500	7.1/ 7.4 (Annex C/F)		
	Effectiven	Effectiveness of Smoke/ hot gas extraction			a: 0.35 to 0.61	6 (Annex B)		
	Aerodynamic Free Area			C	a: 0.35 to 0.61	6 (Annex B)		
	Performance Criteria under Fire Conditions				300	7.5 (Annex G)		
	Fire Resistance - Mechanical stability			B	300	7.5 (Annex G)		
			nmental Conditions		(00)	7.2/ 7.3 (Annex D/E)		
	Reaction t			A		7.5.2.1		
10			dent identified in					
10	The performance of the product identified in sections 1 and 2 above is in conformity with the declared performance in section 9 above.							
	performance in section 9 above.  The declaration of performance is issued under the sole responsibility of the manufacturer identified in section of the man							
	The declaration of performance is issued under the sole responsibility of the manufacturer identified in section above.							
	Date:	15.	09.21	Signed:	Ai			
					1000			
	Place of Is		hfield, UK		- Director of Globa	10.1		

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.

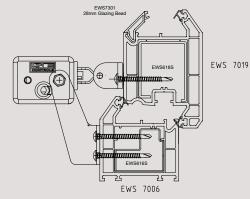
The NSHEV is part of a life safety system and the DoP is required at project handover stage in accordance with the CPR and BS7346-8 code of practice.

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



## <u>Eurocell Logik 70 Chamfered EN12101-2 Tested Profiles</u> <u>and Parameters</u>





FRAME REF NO.	OPENING VENT REF NO.	SERIES 40 BRACKET KIT NO.
EWS7006	EWS7018	AKS15531000
EWS7006	EWS7019	AKS15531000

## **System Parameters**

SYSTEM NAME	MAX OUTER FRAME WIDTH	MAX OUTER FRAME HEIGHT
BOTTOM HUNG	1500MM	1500MM
SIDE HUNG	1500MM	1500MM

Max Certifiable Weight = 90KG, Max Certifiable Permiter = 7.1 Metres

Flag hinges must be used for AOV's in accordance with the Eurocell technical manual. Please contact Eurocell's technical team for confirmation of the number of hinges required.

Steel reinforcing must be installed in both sash and frame sections and mechanically fixed as per the Eurocell AOV technical manual.













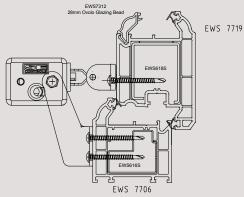






# Eurocell Logik 70 Ovolo EN12101-2 Tested Profiles and Parameters





FRAME REF NO.	OPENING VENT REF NO.	SERIES 40 BRACKET KIT NO.
EWS7706	EWS7718	AKS15531000
EWS7706	EWS7719	AKS15531000

## **System Parameters**

SYSTEM NAME	MAX OUTER FRAME WIDTH	MAX OUTER FRAME HEIGHT
BOTTOM HUNG	1500MM	1500MM
SIDE HUNG	1500MM	1500MM

Max Certifiable Weight = 90KG, Max Certifiable Permiter = 7.1 Metres

Flag hinges must be used for AOV's in accordance with the Eurocell technical manual. Please contact Eurocell's technical team for confirmation of the number of hinges required.

Steel reinforcing must be installed in both sash and frame sections and mechanically fixed as per the Eurocell AOV technical manual.



















#### Notes

The profile parameters outlined within this document are aligned to Eurocell tested performance parameters. If your vents are outside of these sizes please ensure you obtain written acceptance from Eurocell 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 Eurocell AOV 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.

















