



deceuninck

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

Tested AOV Solutions







Deceuninck 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

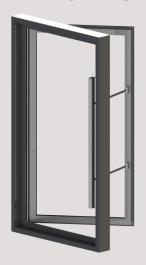
SE Controls produce a Declaration of Performance (DoP) to EN12101-2:2003 in accordance with BS 7346-8 and the CPR.



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

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	d Standard cove	red by Constructi	on Products Re	gulation:			
	EN 12101-2	:2003 Smoke and	Heat Control Syst	ems				
	-Specificati	-Specification for Natural Smoke and Heat Exhaust Ventilators.						
8	Notified Bo	idy:						
	IFC Internal	tional Certification	Ltd., Princes Risbo	rough, HP27 9/	NH. UK			
		ly 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)		
	Effectiveness of Smoke/ hot gas extraction			c	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)		
					(00)	7.2/ 7.3 (Annex D/E)		
		Ability to open under Environmental Conditions Reaction to Fire				7.5.2.1		
10		III						
10	The performance of the product identified in sections 1 and 2 above is in conformity with the declared performance in section 9 above.							
	The declaration of performance is issued under the sole responsibility of the manufacturer identified in section 4 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.

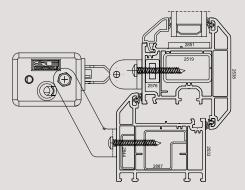
The NSHEV is part of a life safety system and the DoP is required at project handover stage in accordance with the CPR and BS7346-8 code of practice.

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



<u>Deceuninck Traditional 2500 EN12101-2 Tested Profiles</u> and Parameters





FRAME REF NO.	OPENING VENT REF NO.	SERIES 40 BRACKET KIT NO.
2533	2538	AKS16150003

System Parameters

SYSTEM NAME	MAX OUTER FRAME WIDTH	MAX OUTER FRAME HEIGHT	MAX SASH WEIGHT
BOTTOM HUNG	1500MM	1500MM	80KG
SIDE HUNG	1000MM	2200MM	80KG

Max Certifiable Weight = 80KG, Max Certifiable Permiter = 7.1 Metres

Butt type hinges must be used for AOV's in accordance with the Deceuninck technical manual. Please contact Deceuninck'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 Deceuninck AOV technical manual. Please note this includes the reinforcing in transoms where applicable.













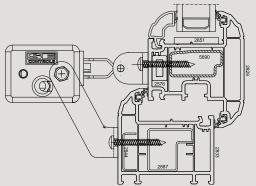






<u>Deceuninck Heritage 2800 EN12101-2 Tested Profiles</u> <u>and Parameters</u>





FRAME REF NO.	OPENING VENT REF NO.	SERIES 40 BRACKET KIT NO.
2833	2829	AKS16150003

System Parameters

SYSTEM NAME	MAX OUTER FRAME WIDTH	MAX OUTER FRAME HEIGHT	MAX SASH WEIGHT
BOTTOM HUNG	1500MM	1500MM	80KG
SIDE HUNG	1000MM	2200MM	80KG

Max Certifiable Weight = 80KG, Max Certifiable Permiter = 7.1 Metres

Butt type hinges must be used for AOV's in accordance with the Deceuninck technical manual. Please contact Deceuninck'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 Deceuninck AOV technical manual. Please note this includes the reinforcing in transoms where applicable.



















Notes

The profile parameters outlined within this document are aligned to Deceuninck tested performance parameters. If your vents are outside of these sizes please ensure you obtain written acceptance from Deceuninck 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 Deceuninck 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 <u>click here</u> for the Smoke Control Association's guidance document for EN12101-2:2003 Automatic Opening Smoke Vents.

















