Tested AOV Solutions for Smoke Ventilation

Tested Solutions and Standard Details







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

0322-v1

Tested AOV Solutions





Dovista and SE Controls have collaborated together to provide the Construction market 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 in placing that product onto the market compliantly.

SE Controls Certification Process





For a list of all SE Controls approved actuator installers <u>click here.</u>

Typical AOV Applications





Proof of Compliance

6	Docume Ref:	nt SEP-0001-	01-01	Date	15.09.2021	
co	NTROLS Name:	Block A, H	igh Street, Town	SE Ref.	SOR010000	
	Unique Identification C	ode of Product Tur	10°			
				d the Surteen C	moany Profile vertical vert	
		comprising SE Controls SECO NI 24 40 Chain Actuator and the System Company, Profile vertical vent turing Date Code and Serial Number:				
	As appears on product.					
	Intended Use:					
	Natural smoke and heat	exhaust ventilator fo	r smoke and heat con	trol in constructi	on works.	
	Name of Manufacturer					
	SE Controls, Wellington	Crescent Fradley P	ark Lichfield Staffs L	K WS138R7		
	Tel: +44 (0)1543 44306					
5	Authorised Representation					
	Not applicable					
_	System of Assessmen	t and verification of	constancy of perfor	manco:		
	System 1		constancy or perior	inance.		
	Harmonised Standard	covered by Constru	ction Products Page	ulation:		
	EN 12101-2:2003 Smok			100001.		
	-Specification for Natura					
	Notified Body:	I OTIONE and Treat L	Andreas Ventilianora.			
	IFC International Certific	ation I tol. Driverse D	shares UDOT OAU	114		
	Notified body number: 1		sourougii, HP27 bAH	. or		
	Performed the initial insp continuous surveillance,					
	performance. Certificate			soed the certilic	are or constancy or	
	Essential Characterist		`			
	Declared performance				EN12101-2:2003	
	Nominal Activation Cor	ditions	24v	P/2	4.1/4.2	
		Idibolis	247		7.1.2	
		Response Delay		000 / WL1500	7.1/ 7.4 (Annex C/F)	
		Operational Reliability		0.35 to 0.61	6 (Annex B)	
	Effectiveness of Smoke/ hot gas extraction					
	Aerodynamic Free Area			0.35 to 0.61	6 (Annex B)	
	Performance Criteria under Fire Conditions			0 0	7.5 (Annex G)	
		Fire Resistance –Mechanical stability			7.5 (Annex G)	
	Ability to open under E	nvironmental Conditi		0)	7.2/ 7.3 (Annex D/E)	
	Reaction to Fire		A1		7.5.2.1	
0			in sections 1 and 2 a	above is in con	formity 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:	Ar		
	L'une.	10.00.21	orginea.	100-		
	Place of Issue:	Lichfield, UK	Martin Oates - I	Director of Globa	I Sales	
	ter House +44 (0)1543 44					

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.

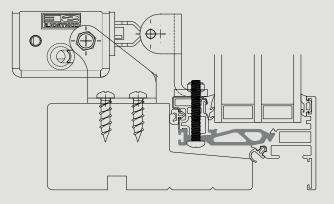
The NSHEV is part of a life safety system and the DoP is required at project handover stage in accordance with the CPR and BS7346-8 code of practice.

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

UK UK CE

Dovista V200E EN12101-2 Tested Profiles and Parameters





FRAME REF NO.	OPENING VENT REF NO.	SERIES 40 BRACKET KIT NO.	SERIES 40 TRUNNION BRACKET NO.
114MM MAINFRAME	48MM SASH	AKS15311000	AXS15301001
139MM MAINFRAME	48MM SASH	AKS15311000	AXS15301001

System Parameters

SYSTEM NAME	MAX OUTER FRAME WIDTH	MAX OUTER FRAME HEIGHT	MAX SASH WEIGHT
V200e TOP HUNG WITH CONCEALED HINGES	1800MM	1000MM	45KG
V200e SIDE HUNG WITH CONCEALED HINGES	1100MM	2475MM	60KG
V200e BOTTOM HUNG WITH CONCEALED HINGES	1800MM	1000MM	45KG

Max Certifiable Weight = 60KG, Max Certifiable Permiter = 7.1 Metres









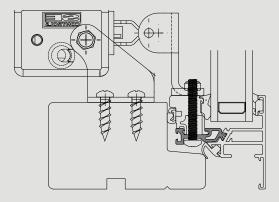






Dovista V200 EN12101-2 Tested Profiles and Parameters





FRAME REF NO.	OPENING VENT REF NO.	SERIES 40 BRACKET KIT NO.	SERIES 40 TRUNNION BRACKET NO.
115MM MAINFRAME	24MM SASH	AKS15311000	AXS15301001
90MM MAINFRAME	24MM SASH	AKS15311000	AXS15301001

System Parameters

SYSTEM NAME	MAX OUTER FRAME WIDTH	MAX OUTER FRAME HEIGHT	MAX SASH WEIGHT
V200i TOP HUNG WITH CONCEALED HINGES	1800MM	1000MM	45KG
V200i SIDE HUNG WITH CONCEALED HINGES	1100MM	2475MM	60KG
V200i BOTTOM HUNG WITH CONCEALED HINGES	1800MM	1000MM	45KG

Max Certifiable Weight = 60KG, Max Certifiable Permiter = 7.1 Metres















Notes

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

The actuators alone will not act as 'window restrictors'. SE Controls recommend 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.



Façade Engineering Services

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.

