





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

Tested AOV Solutions







Carlson 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 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

STAGE 1 Consult

Consult SE Controls:

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

STAGE 2 Purchase

Purchase your EN12101-2:2003 compliant AOV from Carlson-

STAGE 3 Installation of Actuators

Installation of actuators (on site) must be carried out by an approved installer under a System 1 FPC process as per the prescriptive detail. Apply certification mark.

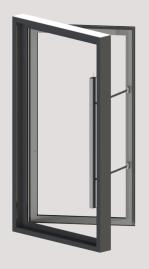
STAGE 4 Certify

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



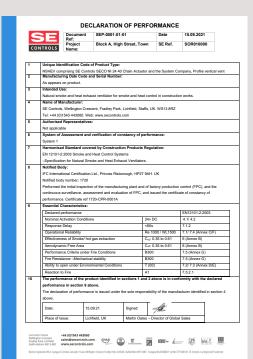
For a list of all SE Controls approved actuator installers click here.

Typical AOV Applications





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.

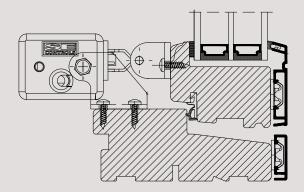
The NSHEV is part of a life safety system and the DoP is required at project handover stage in accordance with the CPR and BS7346-8 code of practice.

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



<u>Carlson Aluclad Window System EN12101-2 Tested Profiles</u> <u>and Parameters</u>





SYSTEM	SERIES 40 BRACKET
NAME	KIT NUMBER
CARLSON Aluclad Window System	AKS15421000

System Parameters

SYSTEM NAME	MAX OUTER FRAME WIDTH	MAX OUTER FRAME HEIGHT	MAX SASH WEIGHT
TOP HUNG WITH BUTT HINGES	1588MM	1588MM	60KG
SIDE HUNG WITH BUTT HINGES	1123MM	2373MM	80KG

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



















Notes

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

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.

















