





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

Tested AOV Solutions







Reynaers 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

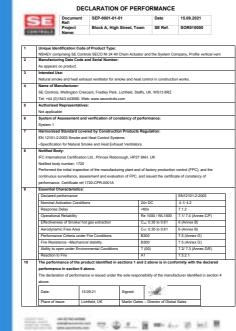
Alternatively, click <u>here</u> for our list of audited facade fabricators who can manufacture for you.

Typical AOV 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.

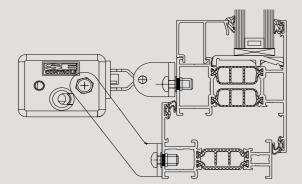
The NSHEV is part of a life safety system and the DoP is required at project handover stage in accordance with the CPR and BS7346-8 code of practice.

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



Reynaers CS77 EN12101-2 Tested Profiles and Parameters





FRAME REF NO.	OPENING VENT REF NO.	SERIES 40 BRACKET KIT NO.
008.3416.XX	008.3412.XX	AKS16080003
008.3425.XX	008.3412.XX	AKS16080003
008.3426.XX	008.3412.XX	AKS16080003
008.3436.XX	008.3412.XX	AKS16080003
008.3440.XX	008.3412.XX	AKS16080003
008.3483.XX	008.3412.XX	AKS16080003
008.3425.XX	008.3421.XX	AKS16080003
008.3426.XX	008.3421.XX	AKS16080003
008.3436.XX	008.3421.XX	AKS16080003
008.3440.XX	008.3421.XX	AKS16080003
008.3483.XX	008.3421.XX	AKS16080003
008.3414.XX	008.3492.XX	AKS16080003
008.3425.XX	008.3492.XX	AKS16080003
008.3426.XX	008.3492.XX	AKS16080003
008.3436.XX	008.3492.XX	AKS16080003
008.3440.XX	008.3492.XX	AKS16080003
008.3483.XX	008.3492.XX	AKS16080003

System Parameters

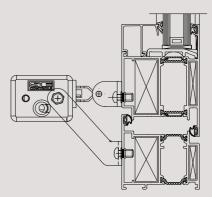
ORIENTATION	MAX SASH WIDTH	MAX SASH HEIGHT	MAX SASH WEIGHT
OUTWARD OPENING SIDE HUNG WITH BUTT HINGES	1050MM	1800MM	75 KG
TOP HUNG WINDOW WITH BUTT HINGES	1500MM	1100MM	60 KG
BOTTOM HUNG WINDOW WITH BUTT HINGES	1500MM	1100MM	60KG

Max Certifiable Weight = 75KG, Max Certifiable Permiter = 7.1 Metres

Double stacked vent options are also available. Please contact SE Controls for advice on these applications.

Reynaers CS77 Door EN12101-2 Tested Profiles and Parameters





FRAME REF NO.	OPENING VENT REF NO.	SERIES 40 BRACKET KIT NO.
008.0469.XX	008.2014.XX	AKS16000003
008.0569.XX	008.2014.XX	AKS16000003
008.3125.XX	008.3052.XX	AKS16000001
008.3140.XX	008.3052.XX	AKS16000001
008.3183.XX	008.3052.XX	AKS16000001

System Parameters

ORIENTATION	MAX SASH WIDTH	MAX SASH HEIGHT	MAX SASH WEIGHT
OUTWARD OPENING SIDE HUNG	1350MM	2350MM	120KG

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

The maximum parameters (size/weight) of the Reynaers CS77 Door profile are dependent on the type of hinge used. Please contact Reynaers Technical Department for confirmation of maximum system parameters and suitable hardware.













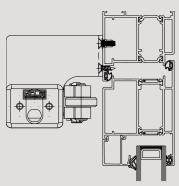


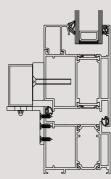




Reynaers CS77 Door EN12101-2 Tested Profiles and Parameters







FRAME	OPENING VENT	SECO NI FOLDING ARM	SECO Ni 40 FOLDING
REF NO.	REF NO.	ACTUATOR - ROLLER	ARM BRACKET
008.0469.XX	008.2014.XX	AFSI4009001	AKS20000004

System Parameters

ORIENTATION	MAX SASH WIDTH	MAX SASH HEIGHT	MAX SASH WEIGHT
OUTWARD OPENING SIDE HUNG	1350MM	2350MM	120KG

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

The maximum parameters (size/weight) of the Reynaers CS77 Door profile are dependent on the type of hinge used. Please contact Reynaers Technical Department for confirmation of maximum system parameters and suitable hardware.

SE Controls can provide a compatible mini electromagnet (as pictured above) to aid weather performance if required. Please contact the facade technical team - facade.technical@secontrols.com for further information including part numbers and datasheets.

















Notes

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

















