





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

# **Tested AOV Solutions**







NorDan 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 NorDan

#### **STAGE 3 Installation of Actuators**

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

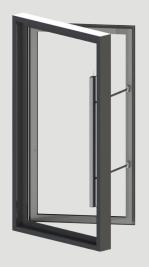
### **STAGE 4 Certify**

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



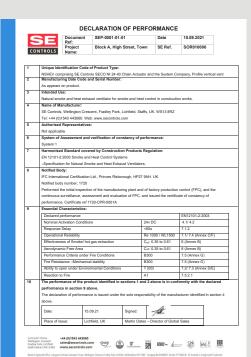
For a list of all SE Controls approved actuator installers click here.

### **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.

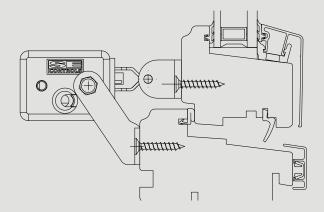
The NSHEV is part of a life safety system and the DoP is required at project handover stage in accordance with the CPR and BS7346-8 code of practice.

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



# NorDan Ntech Top Swing Reversible EN12101-2 Tested Profiles and Parameters





SYSTEM NAME	SERIES 40 BRACKET KIT NUMBER
TOP TECH 92MM FRAME	AKS00020018
OPUS 92MM FRAME	AKS00020018

PLEASE NOTE: This orientation is only acceptable for air intake as part of a smoke extract system. Top hung ventilators are not acceptable for smoke extract in accordance with Approved Document B.

### **System Parameters**

SYSTEM NAME	MIN OUTER FRAME WIDTH	MAX OUTER FRAME WIDTH	MIN OUTER FRAME HEIGHT	MAX OUTER FRAME HEIGHT	MAX SASH WEIGHT
TOPTECH 92MM FRAME	348MM	2388MM	388MM	1788MM	80KG
OPUS 92MM FRAME	488MM	2388MM	550MM	1588MM	55KG

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











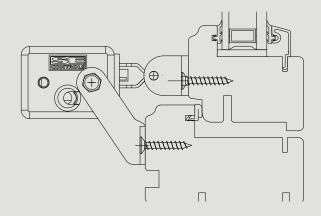












SYSTEM NAME	SERIES 40 BRACKET KIT NUMBER
92MM FRAME	AKS00020018
105/80 105MM FRAME	AKS00020018
100MM FRAME INCL 8MM ALUM	AKS00020018
105/80 113MM FRAME INCL 8MM ALUM	AKS00020018

### **System Parameters**

SYSTEM NAME	MIN OUTER FRAME WIDTH	MAX OUTER FRAME WIDTH	MIN OUTER FRAME HEIGHT	MAX OUTER FRAME HEIGHT	MAX SASH WEIGHT
92MM FRAME	388MM	1200MM	388MM	2188MM	55KG
105MM FRAME	450MM	1200MM	488MM	2188MM	55KG

Max Certifiable Weight = 55KG, Max Certifiable Permiter = 7.1 Metres













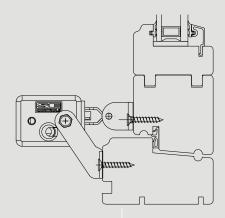






# NorDan Ntech Side Hinged Balcony Door EN12101-2 Tested Profiles and Parameters





**SYSTEM NAME** 

**SERIES 40 BRACKET KIT NUMBER** 

92MM FRAME EXTENDED STILES

AKS00020018

### **System Parameters**

SYSTEM NAME	MIN OUTER FRAME WIDTH	MAX OUTER FRAME WIDTH	MIN OUTER FRAME HEIGHT	MAX OUTER FRAME HEIGHT	MAXSASH WEIGHT
92MM FRAME	588MM	1188MM	1338MM	2537MM	120KG

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



















### **Notes**

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

















