

EBSA Window Automation D+H Chain Actuators

Product Technical Statement: 109765



slim, quiet, high-performing chain actuators, anti-pinch, gasket relief, tested & approved

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include self-assessment and technical information by manufacturer



EBSA Window Automation confirms that this minimum level of assurance has been met or exceeded by the following:

I.F.I Institut Fur Industrieaerodynamik
[Certificate of constancy of performance - 1368-CPR-C-7081](#)



The following information has been provided by EBSA Window Automation demonstrating how this product complies with the [Building Product Information Requirements](#).

Technical Statement

Product Class

CLASS 2

Product Description

- Surface-mounted or concealed installation.
- Motorised opening and closing of windows and skylights.
- For smoke exhaust and natural ventilation.
- Programmable electronic shut-down (preventing defect in case of force overload).
- High-precision synchronised electronics for running 2 or multiple drives simultaneously.
- Low operating noises (acoustic decoupling of drive components).
- Corrosion protected (steel chain with rigid backing and lubrication).
- High-speed function (HS) in fire operation.
- Adjustable, multi-stage anti-pinch protection system.
- Gasket protection (relief of pressure on window gaskets).
- Easy installation (polarity reversal protection connector system).
- Open bus communication via ACB (Advanced Communication Bus) to integrate with building management system.
- Custom configuration (D+H software SCS).

Scope of use

Natural Ventilation: Designed to enhance natural ventilation in buildings, contributing to architectural sustainability.

Smoke Relief: Designed for smoke relief and life safety, meeting fire engineering requirements.

Applications: Suitable for commercial, educational, industrial, and residential sectors.

This system is for projects that prioritise both natural ventilation and smoke control, ensuring compliance with sustainability and safety standards.

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- **Clause C5 Access and safety for fire fighting operations:** Performance C5.6(a), C5.6(c), C5.7(b)
The chain actuators have been tested in accordance of relevant codes of practise for life safety applications.
- **Clause G4 Ventilation:** Performance G4.3.1
The ability to open/close automated windows to allow natural ventilation to occur.
The system is controlled by various weather sensors to maximise indoor air quality.
Internal & external temperature sensors / Co2 monitoring / wind, speed & directional sensor / rain sensor / BMS integration.
- **Clause H1 Energy efficiency :** Performance H1.3.1, H1.3.3(a)
Adding sustainability and natural ventilation to the building envelope

Notes



masterspec partner

Company Contact Details



Brand: EBSA Window Automation
Company: EBSA NZ Limited
Physical Address: Charann Place
Avondale
Auckland
Postal Address: PO Box 27261
Mount Roskill
Auckland
Telephone: 64 09 8840025
Email: sales@ebsa.co.nz
Website: <https://www.dh-partner.com/int/en/products/drives>

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C5.6(a) - The purpose of the chain actuators are to prevent smoke logging by opening high level windows/skylights to exhaust smoke out the building, creating a path for the emergency team to fight the fire.

C5.6(c) - Providing smoke relief and clear passage

C5.7(b) - The control panel operating the chain actuators are provided with controls to operate the smoke system in emergency applications.

G4.3.1 - The chain actuator provides natural ventilation into the building at optimum times by the use of weather sensors

H1.3.1 - The chain actuator close the building during high winds / rain / high temperatures

H1.3.3(a) - The allowance of providing night time purging through automated windows.

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

NZS 4211:1985 Performance of windows

DIN EN 12101-2 Smoke and heat control systems - Part 2; Specification for natural smoke and heat exhaust ventilators

AS/NZS 1170.2:2011 Ultimate Strength Performance

NZBC H1/AS1-AS2 / NZBC H1/VM1-VM2 Natural ventilation

AS/NZS 1530.7:1998 / EN 12101.2 Smoke ventilation

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:



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Product Criteria

Design requirements

Natural Ventilation: Designed to enhance natural ventilation in buildings, contributing to architectural sustainability.

Smoke Relief: Designed for smoke relief and life safety, meeting fire engineering requirements

Applications: Suitable for commercial, educational, industrial, and residential sectors.

This system is for projects that prioritise both natural ventilation and smoke control, ensuring compliance with sustainability and safety standards.

Installation requirements

Install chain drive actuators in accordance with Manufacturer/Supplier details and installation instructions, and to comply with the reviewed shop drawings and installation details including sealant, seals and fixing positions. Carry out the fixing, installation and fitting the chain drive actuators to finish rigid, true to line and face and square on the window in accordance with manufacturer/supplier requirements.

Do not commence installation unless all preparatory work is of the required standard. Pre-drill holes on the window aluminium surface where the side and sash brackets are to be installed. Install the brackets with counter sink screws.

Make sure chain drive actuators are plumb and securely fixed to window with the correct fixings

Maintenance requirements

Operate the window system to confirm the actuator is driving the window to a fully open and fully closed position.

Make sure all fixings are securely fastened and there is no physical movement on the chain drive actuators

If you notice any moss, remove it as well using a wet sponge.

Use a mild detergent and warm water and remove grime, salt, dust or other dirt using a soft brush

Warrantees

3 years manufactures warranty

5 years installation warranty

Company Product Information

Environmental

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Corrosion protected, hardened steel chain with rigid backing and lifetime lubrication

Colour white aluminium (RAL9006)

Please contact EBSA for EPD Declaration

Quality Assurance



ISO 9001 (Quality Management)

Relationships



IFT Rosenheim M-EPD-AZR-GB-103

Videos

[Working Projects Chain Drive Actuators](#)

Building Product Information Requirements

Manufacturer

Legal Trading Name:

D+H Mechatronic AG

Company Website:

<https://www.dh-partner.com/>

Contact Number/s:

+49405300390

Importer

Legal Trading Name:

EBSA NZ Limited

Business Email:

sales@ebsa.co.nz

Company Website:

www.ebsa.co.nz

Contact Number/s:

+64 09-8840025

Product Identifier

CDC-0252-1-ACB, VCD0203, VCD0204, VCD0204/K

Warnings

This product has no warnings associated with it.



Date last validated: **07 February 2025**



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