

+ STABILITY
VERSATILITY



ZA SERIES

Reliable expert for roofs

- » Opens and closes roof windows and skylights in case of fire or for natural ventilation
- » Powerful and yet economical:
up to 1,500 N at a maximum of 2.5 A
- » Individually configurable thanks to cutting-edge ACB technology
- » NSHEV certified in accordance with EN 12101-2 with various profile series



+ EFFICIENCY ENDURANCE

Maximum safety at great heights

Where others cannot climb, ZA Series drives exude absolute sovereignty: They open windows and skylights in the roof area fully automatically, efficiently and safely. Equipped with robust racks and pinions, they have a high pressure resistance, which enables them to open even heavy sashes without any difficulty. Whether for the life-saving smoke vent in case of fire or for everyday natural ventilation: The toxic gases escape quickly through the wide openings – the drives make stroke lengths up to 1,200 mm possible – and fresh air flows into the buildings. External conditions do not affect these drives. Optionally integrated heating resistors ensure that the electronics work even under severely fluctuating climatic conditions. Thanks to the special WS design, the ZA drives are corrosion-resistant and thus prove their compact reliability even in outdoor areas. The ZA Series embodies the perfect balance of force and current consumption. At a low current draw of a

maximum of 2.5 A, the slender rack and pinion drives are capable of high forces up to 1,500 N. Thus, they are the optimal solution for the highest demands for safety and convenience, even from an economical perspective. And, if one single ZA drive should not suffice, up to eight drives can be used in synchronous operation. The drives can be configured from a PC or Windows tablet using the D+H SCS Software. Separately configure the drive functions, performance features, stroke lengths, opening widths and speeds for opening and closing entirely according to your requirements and applications. According to customer requirements, the rack and pinion drives can be ordered in different colours, and their lengths can be adapted. You note: Nothing is too high or too heavy for these drives. Not for nothing that they are certified in accordance with EN 12101-2 NSHEV and also approved by VdS and DEKRA.

Efficient drive technology

- » Can be used for openings for smoke exhaust, NSHEV in accordance with EN 12101-2 and for daily ventilation
- » With motor electronics controlled via microprocessor
- » High speed function (HS) for especially fast opening of the windows in case of fire
- » Option of up to 8 drives and 4 lock drives in one synchronous group
- » Low current consumption thanks to high efficiency
- » Drive unit can be changed from left to right
- » Extreme flexibility thanks to the easy configuration of the functions on a PC using the D+H SCS Software
- » Running speed in CLOSED direction reduced to 5 mm/s (passive closing edge protection)
- » Time-controlled reversing if an obstacle is detected in the CLOSED direction (active closing edge protection)
- » For mechanically connecting to tandem drives using a VA connecting shaft for optimal force distribution

ACB

Live communication with the drive

The ZA Series already works with the intelligent ACB technology (Advanced Communication Bus).

- » Bidirectional bus communication between D+H control systems and D+H drives.
- » Can be configured using D+H control systems and D+H SCS Software on a PC or tablet with a Windows operating system.
- » Drive group: Multiple drives can be combined in one drive group in synchronous operation.
- » The rack and pinion can be extended or retracted down to the millimetre thanks to the controller with its perfect positioning.
- » By means of the ACB, all status messages, such as the exact opening stroke, OPEN and CLOSED status, etc. can be read out.



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California Academy of Sciences (CAOS)

San Francisco, USA

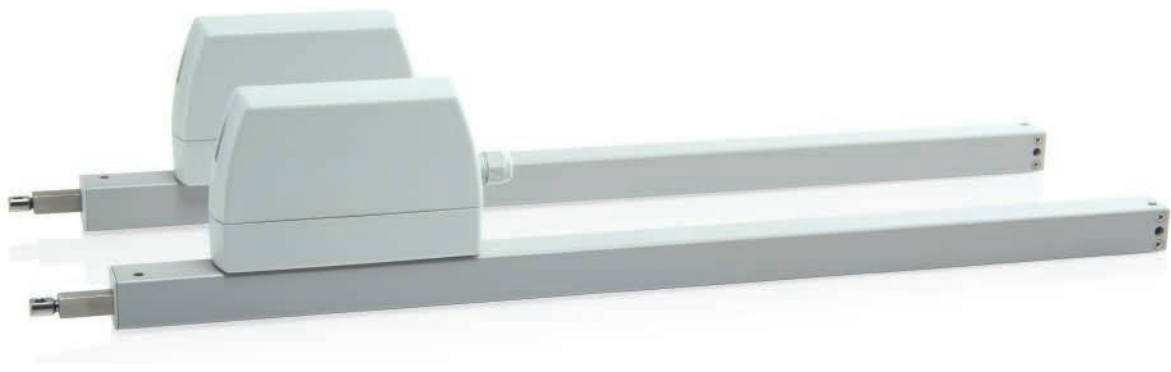
Natural ventilation

ZA Series

VCD Series

The California Academy of Sciences in San Francisco is a very special museum of natural history. For the structure and external hull of the building, the architecture firm of Renzo Piano made use of knowledge of bionics, that is, principles of construction physics that are derived from biology. The challenge for D+H in this project was to ensure the entire air conditioning and ventilation technology for a building complex of this size. Thus, 40 rack and pinion drives were installed in the numerous skylights as well as multiple chain drives in the window façades. The drives are connected to the central building control system and thus react to all climate data. Thus the windows open and close and provide natural ventilation. The entire building complex provides to all visitors an atmosphere in which to feel well.

+ PROJECT
REALISATION



+ VARIANTS RANGE

ZA-0800-0500-1-ACB

Stroke: 500 mm
 Force of pressure / tensile force: 800 N
 W x H x D: 662 x 134 x 46 mm

ZA-0800-0600-1-ACB

Stroke: 600 mm
 Force of pressure / tensile force: 800 N
 W x H x D: 762 x 134 x 46 mm

ZA-0800-0800-1-ACB

Stroke: 800 mm
 Force of pressure / tensile force: 800 N
 W x H x D: 962 x 134 x 46 mm

ZA-0800-1000-1-ACB

Stroke: 1000 mm
 Force of pressure / tensile force: 800 N
 W x H x D: 1162 x 134 x 46 mm

ZA-0800-0600-1-ACB-HS*

Stroke: 600 mm
 Force of pressure / tensile force: 800 N
 W x H x D: 762 x 134 x 46 mm

ZA-0800-0800-1-ACB-HS*

Stroke: 800 mm
 Force of pressure / tensile force: 800 N
 W x H x D: 962 x 134 x 46 mm

ZA-0800-1000-1-ACB-HS*

Stroke: 1000 mm
 Force of pressure / tensile force: 800 N
 W x H x D: 1162 x 134 x 46 mm

All variants are available in 24 V versions!
 *Available with 1000 N force of pressure and tensile force

ZA Tandem Mode drive When tandem works by itself

In the ZA-TM tandem version, a mechanical connecting shaft connects one drive unit with a slave unit. The driving force remains with one gearbox. Two racks and pinions in tandem distribute the force application equally over the window. This creates further stability and ensures, thanks to the second locking point, that larger windows and skylights close optimally.

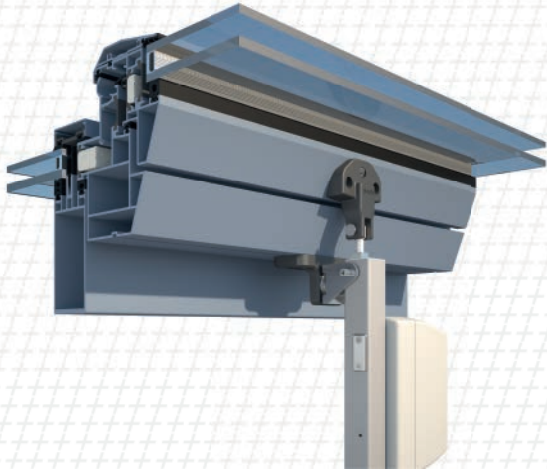


Fig.: ZA Series in the Schüco AWS Profile

+ DRIVE BRACKET

Convenient and optimally adjusted: Installation of the ZA

Whether roof windows or skylights are concerned, the ZA Series offers various solutions for its assembly. Profile-specific bracket sets consisting of a frame bracket and a sash bracket make fast and easy installation possible – without further adjustment work to the fitting.

Each solution has its advantages. If installed on the sides, for example, shorter strokes are necessary for the same opening area than if the drives are installed opposite the hinges. On the other hand, drives installed opposite the hinges require less force. Thanks to our expertise, D+H is the ideal contact for you. With the myCalc program, we have a platform allowing to carry out such calculations optimally.

If you should be interested or if you have questions about the software, feel free to contact us at: mycalc.support@dh-partner.com

System-specific variety

Extensive, system-specific bracket solutions are available with the ZA Series.

Get an overview:

System vendor	Series
Aluprof®	MB-RW, MB-SR 50
Colt®	Kameleon E
Gutmann®	S70
Heroal®	180 ES
Reynears®	Flush Roof Vent, CR 120
Raico®	FRAME+ 100/120 RI, Wing 105 DI
SAPA®	SFB 5050/5060
Schüco®	AWS 57 RO
Wicona®	Wictec 50/60





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