

Optimum glare, privacy and heat protection with the Venetian blind systems for windows and curtain walls

# heroal Venetian blind systems



**heroal**



## Glare-free light regulation and shading: heroal Venetian blind systems

Premium materials, solutions that are technically coordinated down to the last detail and a wide range of design options are what set the efficient heroal system solutions apart. For decades, heroal has been a reliable partner for architects, planners, fabricators and builders with innovative aluminium and aluminium composite solutions for the building shell.

heroal Venetian blind systems are extremely efficient shading systems for professional use in commercial as well as private applications, meeting the highest standards of design and functionality. The tough, weather-resistant aluminium slats can be continuously adjusted as needed and create a perfect balance between daylight, glare protection and privacy.

Optimum light control by the slats supports a pleasant room climate year-round and helps save on cooling and heating costs. Electric control and automation options ensure comfortable operation and also contribute to energy-efficiency.

heroal Venetian blind systems can be perfectly coordinated to the building architecture with different panel and slat shapes as well as a select choice of colours. This creates functional and aesthetic solutions that seamlessly integrate into modern and classic curtain walls for a harmonious finish.



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## heroal Venetian blind systems

Efficient solution for easy installation and exceptional comfort

heroal Venetian blind systems combine sustainability and precision with faster and safer installation. Manufactured from 100% recyclable materials, without any plastic components whatsoever, they impress with their resistance to wear and outstanding durability. The slats, made from 0.45-mm-thick aluminium, provide excellent stability while the weather-resistant aluminium guide pins support reliable function even under extreme conditions. In addition, deep-drawn lifting strap holes ensure an even force distribution and smooth operation. The pre-assembled systems make the installation process much easier, extremely efficient and fast. heroal Venetian blinds are an effective solution for saving energy as they regulate the

incidence of light to optimise the heat requirement in buildings. The adjustable slats guide and control the daylight to reduce energy consumption for artificial lighting as well as creating a pleasant room environment. What's more, heroal Venetian blinds also support a high level of comfort through their ease of operation and adaptability to different light and weather conditions. They help to improve energy-efficiency by preventing overheating in the summer and minimising heat losses in the winter. Overall, heroal Venetian blinds combine functionality with aesthetic design to improve the quality of life in living and working spaces.

## heroal VB

Pre-assembled Venetian blind for integration in existing wells



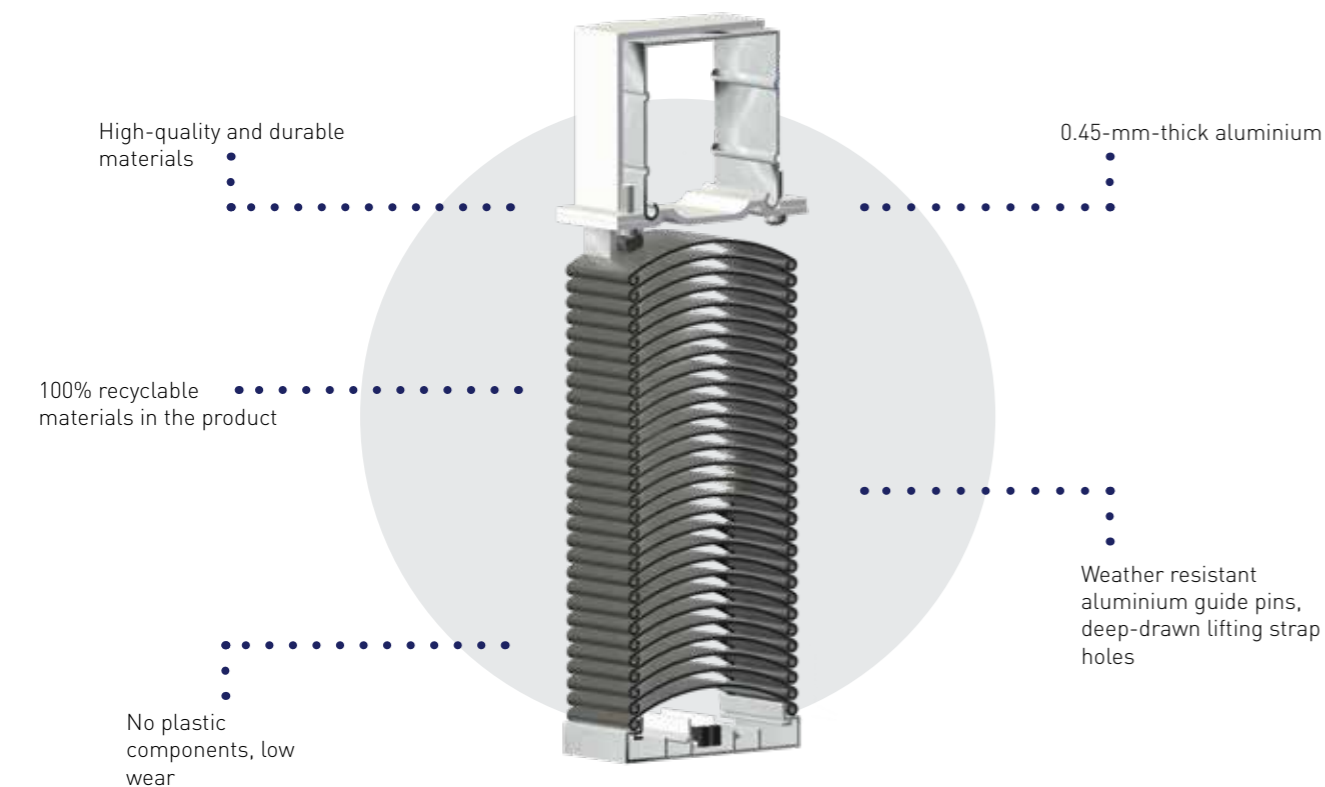
The heroal VB (Venetian Blind) Venetian blind pre-fabricated element is delivered fully assembled as a ready-to-install element. The Venetian blind is installed on the curtain wall mullions or window via the guide rails. The reinforced extruded aluminium guide rails are mounted on reinforced aluminium spacers. heroal VB can be perfectly integrated into existing wells as well as aluminium folded panels. Elements up to 5,000 mm high with a maximum and minimum width of 5,000 mm and 528 mm respectively can be installed. The heroal VB is controlled at the push of a button with remote control or a button on the wall. The Venetian blind can also be integrated into Smart Home systems.

## heroal VB FM

Pre-assembled Venetian blind as front-mounted element



The heroal VB FM (Venetian Blind Front Mounted) Venetian blind pre-fabricated element is delivered fully assembled as a front-mounted element. You can choose between a visible folded panel and flush-mounted panel, with rear insulation as needed, or a bright static profile. The 2-piece extruded guide rails are supplied with an installation hole. The element is attached either from the front by screws in the window frame or from the side by screws in the masonry. Drill holes are then concealed by the clip-on operation profile. As the heroal VB FM is only attached to the structure by guide rails, the Venetian blind is suitable for use in new builds, renovations as well as retrofitted installations. Elements up to 4,500 mm high with a maximum and minimum width of 5,000 mm and 610 mm respectively can be installed. The heroal VB FM is controlled at the push of a button with remote control or a button on the wall. The Venetian blind can also be integrated into Smart Home systems.



## heroal VB Free

Pre-assembled, self-supporting Venetian blind



The heroal VB Free (Venetian Blind Free) Venetian blind pre-fabricated element is delivered fully installed on supporting guide rails and is ideal for transom-mullion curtain walls, such as the heroal C 50. heroal VB Free is used where load transfer is exclusively possible via the guide rails. The self-supporting Venetian blind is suitable for new builds as well as for retrofitted installation, as the box is not attached to the curtain wall or masonry. You can choose between a visible folded panel, a round panel or a bright static profile. The Venetian blind is installed on the curtain wall mullions or window via the guide rails. The reinforced extruded aluminium guide rails are mounted on reinforced aluminium spacers. Elements up to 4,500 mm high with a maximum and minimum width of 5,000 mm and 582 mm respectively can be installed. The heroal VB Free is controlled at the push of a button with remote control or a button on the wall. The Venetian blind can also be integrated into Smart Home systems.

## heroal Venetian blind panels

Panel types for every installation situation

The heroal Venetian blind panels are manufactured from 2.0 mm folded aluminium. The surface is powder coated. The depth of the panel depends on the selected slat shape and design variant, while the height of the panel depends on the height of the Venetian blind package. It is selected so that the end rail is retracted into the panel box. The panel boxes with rear insulation are lined with a 20 mm polystyrene panel with a thermal

conductivity value of  $(\lambda)$  0.034 W/m<sup>2</sup>K. In the standard version, the end caps are welded. There is also the option of having loose or riveted end caps. Loose end caps for riveting can be used to compensate on-site dimensional tolerances. Various panel types are available for the heroal Venetian blind systems.

| Panel types                        |          | heroal VB           | heroal VB FM | heroal VB Free |
|------------------------------------|----------|---------------------|--------------|----------------|
| Visible folded panels              | U-shape  | Optional with panel | •            | •              |
|                                    | L-shape  |                     | •            | •              |
|                                    | HC-shape |                     | •            | •              |
| Flush-mounted folded panels        | U-shape  | Optional with panel | •            | •              |
| Folded panels with rear insulation | U-shape  | Optional with panel | •            | •              |

## System sizes and system features

| Description                                      | heroal VB  | heroal VB FM (fr. mount.)           | heroal VB Free (self-supp.)                                       |
|--|--|-------------------------------------|---|
| Box type   | FMR  | FMR                                 | FMR   |
| Box shapes                                       | 90°, HC N  | 90°, HC N                           | 90°, HC N   |
| Box sizes [mm]                                   | dep. on curt. height and slat width                  | dep. on curt. height and slat width | dep. on curt. height and slat width                               |
| Max. element width [mm] <sup>1)</sup>            | 5,000  | 5,000                               | 5,000   |
| Max. element height [mm]                         | 5,000  | 4,500                               | 4,500   |
| Max. area [m <sup>2</sup> ]                      | 14   | 14                                  | 14  |
| Guide rails                                      | heroal FS L, heroal FS E, heroal FS D (double guide) | heroal FS G                         | heroal FS V (square), heroal FS R (round)                         |
| Wind-resistant [km/h]                            | up to 60   | up to 60                            | up to 60  |
| Curtain control                                  | Button, remote                                       | Button, remote                      | Button, remote  |
| Power unit                                       | Motor  | Motor                               | Motor   |
| Smart Building / Smart Home                      | Remote-controlled motor                              | Remote-controlled motor             | Remote-controlled motor   |
| Installation options                             | on wall / window / lintel                            | on wall / window, lintel            | on wall / window and curtain wall (transom-mullion curtain walls) |
| Supplied as heroal Ready pre-fabricated element  | •  | •                                   | •   |
| Compatible with heroal C 50 curtain wall sys.    | -  | -                                   | •   |
| Compatible with heroal OR outdoor roof sys.      | -  | •                                   | •   |
| Compatible with heroal CR outdoor roof sys.      | -  | •                                   | •   |
| Compatible with heroal C 50 WG conservatory sys. | -  | •                                   | •   |
| Compatible with heroal W 72/W 77 window sys.     | •<br>(well installation)                             | •                                   | •   |
| Slats and colours                                | Up to 16 slat colours                                | Up to 16 slat colours               | Up to 16 slat colours   |
| Slat types                                       | Flat slat, flanged slat, Z-slat                      | Flat slat, flanged slat, Z-slat     | Flat slat, flanged slat, Z-slat                                   |
| Reduction up to [%] <sup>1)</sup>                | Solar radiation                                      | 90                                  | 90  |
|  | UV radiation   | 98                                  | 98  |

1) All one-piece, self-supporting systems between 4,000 and 5,000 mm wide must be centrally suspended at the rear or top on site.

# Slats

Individual slat types for a wide range of design and functional requirements

The different slat types used in heroal Venetian blind systems all satisfy certain requirements. The space-saving flat slat is distinguished by its slender design and flat shape that enables compact box sizes and low package heights when retracted.

The flanged slat is similar to the flat slat but has rounded edges for silent operation and excellent stability. The Z-slat has a Z-shaped look that sets itself apart with its excellent wind stability, silent operation and effective room darkening, making

it perfect for modern buildings. L- and S-slats have elegant corrugations that are also highly wind-resistant and reflect solar radiation outwards in summer and inwards in winter for optimal room lighting and temperature.

### Flat slat

- » slender design
- » low package heights
- » flexible
- » available slat widths: 50 mm, 80 mm

### Flanged slat

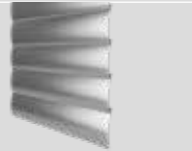
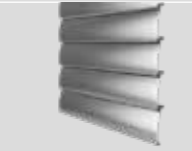
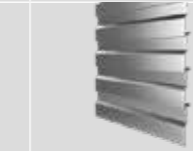
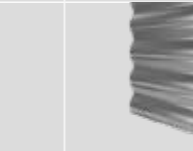
- » classic design
- » excellent stability and durability
- » optimised package heights
- » available slat widths: 80 mm

### Z-slat

- » darkening
- » stable
- » improved closing behaviour
- » available slat widths: 80 mm, 90 mm

### L-slat / S-slat

- » elegant and extraordinary design
- » functional room illumination
- » improved closing behaviour
- » available slat widths: 80 mm (L-slat), 90 mm (S-slat)

| Slat               | Flat slat   | Flanged slat  | Z-slat   | S-slat / L-slat   |
|--------------------|---|---|--|---|
| Illustration       |  |  |  |  |
| Flexible           | •   | -   | -  | -   |
| Stable             | -   | •   | •  | •   |
| Low package height | •   | • <sup>1)</sup>   | -  | -   |
| Darkening          | -   | -   | •  | •   |
| Light guiding      | -   | -   | -  | •   |

1) Slat type 85 (offset stacking) and 86 (optimised package)

# Slats

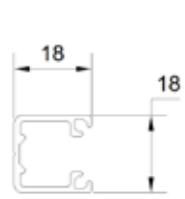
Maximum design freedom thanks to huge colour selection

| Colour           | Figure               | Colour sim. to RAL | Flat slats |       | Flanged |                 |              | Z-slats |       | L-slats | S-slats |
|------------------|----------------------|--------------------|------------|-------|---------|-----------------|--------------|---------|-------|---------|---------|
|                  |                      |                    | 50 mm      | 80 mm | 80 mm   | 80 mm optimised | 80 mm offset | 80 mm   | 90 mm | 80 mm   | 90 mm   |
| Standard colours | White aluminium      | 9006               | •          | •     | •       | •               | •            | •       | •     | •       | •       |
|                  | Grey aluminium       | 9007               | •          | •     | •       | •               | •            | •       | •     | •       | •       |
|                  | Anthracite grey      | 7016               | •          | •     | •       | •               | •            | •       | •     | •       | •       |
|                  | Slate                | DB 703             | •          | •     | •       | •               | •            | •       | •     | •       | •       |
|                  | Traffic white        | 9016               | •          | •     | •       | •               | •            | •       | •     | •       | •       |
| Other colours    | Brown beige          | 1011               | -          | -     | -       | -               | -            | -       | -     | •       | •       |
|                  | Oyster white         | 1013               | -          | •     | •       | •               | •            | -       | -     | -       | -       |
|                  | Ultramarine blue     | 5002               | -          | -     | •       | •               | •            | -       | -     | -       | -       |
|                  | Pigeon blue          | 5014               | -          | -     | •       | •               | •            | -       | -     | -       | -       |
|                  | Moss green           | 6005               | -          | -     | •       | •               | •            | -       | -     | -       | -       |
|                  | Castelrock           | 7015               | -          | -     | •       | •               | •            | -       | -     | -       | -       |
|                  | Light grey           | 7035               | -          | •     | •       | •               | •            | •       | •     | -       | -       |
|                  | Dusty grey           | 7037               | -          | -     | -       | -               | -            | -       | -     | •       | •       |
|                  | Agate grey           | 7038               | -          | •     | •       | •               | •            | •       | •     | •       | •       |
|                  | Grey brown           |                    | -          | -     | •       | •               | •            | •       | •     | •       | •       |
|                  | Jet black            | 9005               | -          | •     | •       | •               | •            | -       | -     | -       | -       |
|                  | Pure white           |                    | -          | -     | •       | •               | •            | -       | -     | -       | -       |
|                  | Sepia brown          | VSR 071            | -          | -     | -       | -               | -            | -       | -     | •       | •       |
| Beige            | VSR 240              | -                  | -          | -     | -       | -               | -            | -       | •     | •       |         |
| RAL col.         | RAL & VSR On request |                    | •          | •     | •       | •               | •            | •       | •     | •       |         |

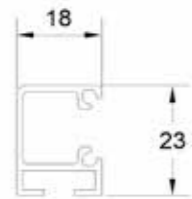
## Guide rails

Guide rails for every installation situation

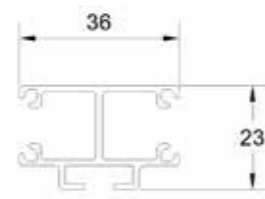
### Standard guide rails for heroal VB



**FSL (18 x 18 mm)**  
Single guide rail  
for reveal installation

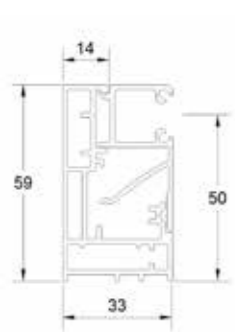


**FSE (18 x 23 mm)**  
Single guide rail  
for spacer type AE

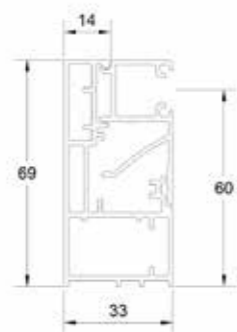


**FSE-D (38 x 23 mm)**  
Double guide rail  
for spacer type AE

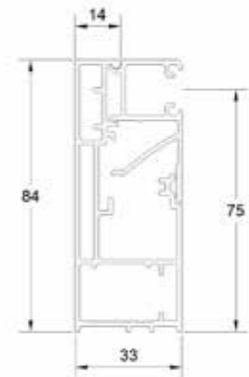
### Closed guide rails for heroal VB FM



**FSG50.2 (33 x 59 mm)**  
14 mm flush mounting  
Z-dimension: 50 mm

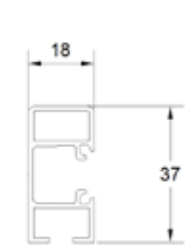


**FSG60.2 (33 x 69 mm)**  
14 mm flush mounting  
Z-dimension: 60 mm

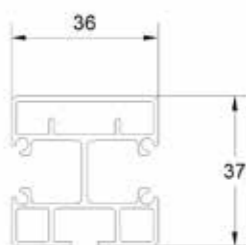


**FSG 75.2 (33 x 84 mm)**  
14 mm flush mounting  
Z-dimension: 75 mm

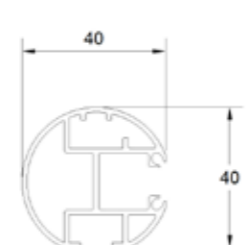
### Reinforced guide rails for heroal VB Free



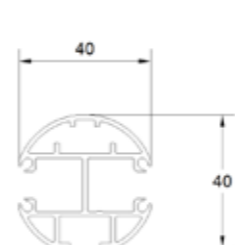
**FSV (18 x 37 mm)**  
Single guide rail  
for spacer type AV18



**FSV-D (36 x 37 mm)**  
Double guide rail  
for spacer type AV36



**FSR (40 x 40 mm)**  
Single guide rail  
for spacer type AV36

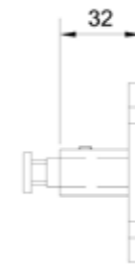


**FSR-D (40 x 40 mm)**  
Double guide rail  
for spacer type AV36

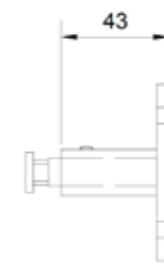
## Accessories

Spacers and spacer profiles

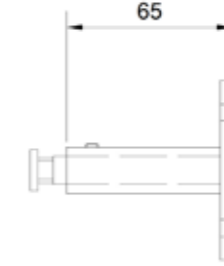
### Spacer type AE for heroal VB



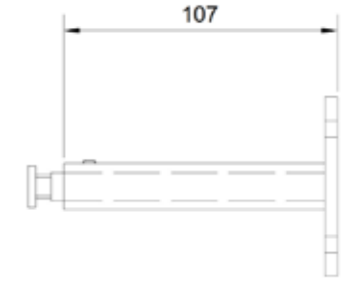
**AE65**  
Telescopic spacer  
Z-dimension: 55 - 65 mm



**AE87**  
Telescopic spacer  
Z-dimension: 66 - 87 mm

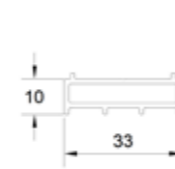


**AE129**  
Telescopic spacer  
Z-dimension: 88 - 129 mm

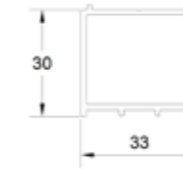


**AE171**  
Telescopic spacer  
Z-dimension: 130 - 171 mm

### Spacer profiles for heroal VB FM

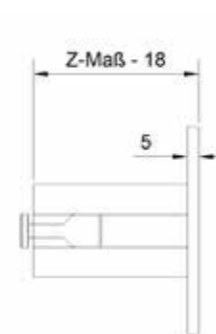


**FSg-D10.2 (33 x 10 mm)**

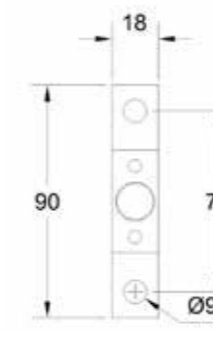


**FSg-D30.2 (33 x 30 mm)**

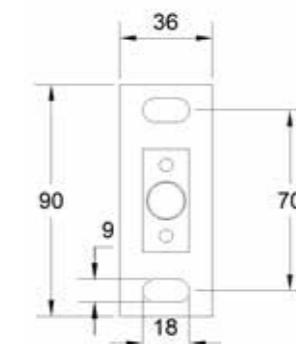
### Spacer type AV for heroal VB Free



**Spacer AV**  
Spacer in fixed length  
Z-dimension:  
min. 55 mm / max. 400 mm



**Base plate spacer AV18**



**Base plate spacer AV36**

# heroal



simply better *spaces for life*

As a manufacturer of aluminium system solutions for roller shutters, sun protection, roller doors, windows, doors, sliding doors, curtain walls and patio roofs, heroal is an international market leader, supporting high-quality residential and commercial construction projects worldwide. heroal products are developed and manufactured in Germany and set themselves apart with their premium quality and exceptional performance features. As a result, the innovative system solutions contribute to greater sustainability, security, comfort and architectural freedom for both current and future building projects and impress with simple and efficient planning and fabrication by heroal specialist partners.

Roller shutters | Sun protection | Roller doors | Windows | Doors | Sliding doors | Curtain walls | Patio roofs

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Item no. 89422 30 00 | 12.2024