

## SPECIFICATION DATA – ARB 80 with guide rails and motor drive

### APPLICATION

Outdoor venetian blind for sun, privacy, and heat protection.



### DESCRIPTION

The ARB 80 outdoor venetian offers a high-quality blind with edge-crimped, 0.45 mm thick and 80 mm wide C-slats. The model has a low-noise wind protection and the intelligent HELLA Omega punching as a slat connection. Flanged hole punches protect the elevator belts and eliminate the need for plastic clips. ARB 80 can be guided by cable or rail and driven by crank or motor.

### FEATURES AND BENEFITS

- Available with daylight control on request
- Slat guide pins made from metal for lower maintenance
- Unique omega punching replaces the need for plastic grommets
- Suitable for installation inside and outside the reveal
- Window size (maximum) 20m2 – consult supplier for specific dimensions

### GENERAL INFORMATION

Uniclass	Pr_30_59_07_27
CAWS	L10/680 Solar shading system N10/240 Blinds L10/59 Solar shading system
Product range	Sun Protection Screen/Vertical

# Outdoor blind type ARB 80 with guide rails and motor drive

External venetian blinds manufactured by HELLA, type ARB 80 WS, with rails and motor or external venetian blinds with at least equivalent technical features are used.

Offered manufacturer : \_\_\_\_\_

Offered type: \_\_\_\_\_

The following requirements are mandatory in order to minimise wear beyond the warranty period and to improve the optics:

- All punchings in the slats have to be bordered, plastic-clips are not allowed
- The slat guiding nipples have to be made of zinc die-cast with Collinox coating for greater wear resistance and no UV sensitivity
- Plastic nipples are not allowed.

The offered outdoor blinds have to fulfil the service life class 3 according to DIN EN 13659:2009-01

## Top rail

Cold roll U-profile made of steel, bordered on both sides, galvanized surface

Dimension 58x57 mm

- For easier installation and adjustment, the top rail has to be open at the bottom.
- Top rail fixing: for easier installation galvanized vertical bracket with clip function
- For design with angular top board: bracket with integrated holder for the hidden clamping of the top board.

Optionally:

- Top rail made of extruded aluminium, dimension 58x59 mm
- Vertical bracket with insulation layer made of rubber for noise reduction.

## Square drive shaft

Made of extruded aluminium 12x12mm with hexagon socket 7mm for the direct incorporation at the motor. For coupled element square drive shaft made of aluminium 12 x 12 mm with inner hole  $\varnothing 9$  mm to accommodate the coupling (thus coupling remains permanently revisable)

## Bottom rail

- Extruded powder-coated aluminium profile
- Dimension 80x19 mm
- Laterally closed by end caps made of plastic in grey or black, guided with metal pins in the guide rails on both sides

## Slats

Slats bordered on both edges made of highly elastic special alloy, bend-proof, scratchproof and shockproof. Slat width 80mm, slat thickness approx. 0.45mm. Bordered lift tape punchings for a better protection against wear and tear of the lift tape. Ladder cord fixing by means of Omega punching in every slat for protecting against lateral slippage. The slats are kept at regular spacings by the ladder cord. The slat guiding nipples made of zinc die-cast with Collinox coating for greater wear resistance and no UV sensitivity are reciprocally connected in every slat in an impact resistant way.

Surface:

Glossy lacquering with polyester lacquer, free of heavy metals, suitable for facades. Colour choice according „HELLA slat colour chart for outdoor blinds / venetian blinds“.

## Slat guide lateral with guide rails

Guide rails as single / double guide rail (FE22 / FD27) with groove for the distance spacers made of die-cast aluminium, powder-coated, with plastic end caps. For optimum noise reduction, the blind is guided on both sides in a C-shaped, hinged guide profile made of plastic. The guide profile is weatherproof, UV-resistant and is secured in the guide rail against slipping. The variable spacers are made of 2 parts, a powder-coated distance bracket flange made of aluminium, and a clamping lock made of zinc with Collinox coating for greater wear resistance.

**Tilt mechanism**

Maintenance free, encapsulated, Teflon bearings with turning roll and reel made of plastic. Segment tilting to prevent automatic adjustment of the slats. With the possibility for adjustments in order to compensate an off-track running of the bottom rail. By simply re-plugging the stop pins the changes of the tilting variants are possible without the disassembly of the blind.

180° turn:

The blind moves down with the slats closed towards the inside, smooth tilting process when changing the direction of the movement.

**Ladder cord**

High-strength Terylen-polyester with Kevlar inlay in black or grey, low profile and long lifespan.

**Lift tape**

- Anti-friction coated for a run with minimum wear and tear and maximum UV-protection
- Dimension 6,0x0,28 mm and tear strength 700 N
- Guaranteed thickness tolerance in the 1/100 mm range, long service life

**Motor drive**

Raising and lowering the blind and tilting of the slats via concealed installed, maintenance-free and low-noise electric motor 230 V AC, 50 Hz, IP 54 with flanged planetary gear. For a better distribution of forces, the motors are to be installed as a centre motor with shaft outlet on both sides. This facilitates coupling in case of later changes in the room layout. Installed limit switch and thermal protection switch against overload of the motor. Motors with adjustable upper or lower limit switches as well as additional upper external limit switches are used. Motor inclusive Hirschman cable socket and connection cable. Tilting of the slats is enabled by lightly touching the switch in the respective direction. If several motors are to be operated with one switch, a control unit is required.

**Surface coating**

Visible powder-coated aluminium parts in standard colours according to the „HELLA colour chart for powder paint“. Special colours according to „HELLA colour chart powder coating“ for surcharge.

Unit: piece

Quantity: .....pcs.

Price/pc: .....

Price total: .....

**Optional additional equipment for HELLA outdoor blind type ARB 80 with guide rails and motor:**

(Please select and tick as appropriate)

**90° turn**

The blinds moves down with the slats closed towards the outside and moves up with the slats opened horizontally, smooth tilting process when changing the direction of movement.

[    ]

**Working position**

The curtain is lowered with an inclined slat position of about 50° (up to the lower limit stop). To close the curtain it is necessary to raise it briefly (approx. 2 s) and to lower it afterwards. The curtain can be closed completely in every position. Smooth tilting process when changing the direction of movement. Curtain goes up horizontally. Bearing in the same size, without additional, attached reel.

[    ]

**Optional guide rails**

- Lateral guide rail FE22S [ ]
- Single / double guide rail FE30 / FD32 with end cap and groove for the spacers
- Single / double guide rail FE50 / FD50 with end cap and groove for the spacers
- Guide rail FUP70 / FUP80 / FUP95 with sealing profiles at the back (for surface- / flush-mounted installation)

**Optional spacers**

- Fixed spacer with small/large base plate [ ]
- Fixed spacer with transversely mounted large base plate
- Fixed spacer with base plate on one side transversely mounted
- Fixed spacer strengthened with large base plate for self-supporting units
- Bracket for inner or outer corner

**Optional noise insulating boards**

For tensioning elements and spacers a 2 mm strong noise insulating board made of EPDM is available. Positioning aid due to rear protrusions/nubs and recesses on the brackets. Protruding edge around the perimeter of the panel and at access openings are pressed together during installation for optimum waterproofing. Notches at the top and bottom of the panels to make it easier to find the mounting surface when screwing on the panels. [ ]

**Benefits:**

- Reduces vibration noise on facade and window
- Seal against moisture to the facade and the window
- Thermal separation

**Motor with Comfort tilt**

elero Comfort drive (230V) with slow tilting (5 U/min) for finer adjustment of the slat angles. [ ]

**Motor with obstacle detection when raising the blinds**

Somfy protect drive (230V) with obstacle detection and freezing protection when raising the blinds. [ ]

**Radio drive with integrated receiver and Comfort tilt**

elero Comfort drive (230V) with integrated receiver and slow tilting (5 U/min) for finer adjustment of the slat angles. [ ]

**Radio drive with integrated receiver and obstacle detection when raising the blinds**

Somfy io protect drive (230V) with integrated receiver and obstacle detection when raising the blinds. [ ]

**Speed motor (up to max. 7m²):**

Comfort Speed with 50 U/min and slow tilting speed of 5 U/min for finer adjustment of the slat angles. [ ]

**Emergency crank handle**

Motor with emergency crank handle: [ ]  
 Motor drive JA NHK with emergency crank handle for opening the blind in case of power failure. Mechanical cut-off.

**SMI-Motor**

Motor with SMI interface:

[ ]

The JA Comfort SMI is a blind drive with feedback capability, electronic limit switching and integrated SMI interface installed in a concealed position in accordance with the SMI specification. The drive can communicate with controls via corresponding actuators with a BUS system (e.g. KNX, LON). Communication and power supply are provided via the 5-wire connection cable with plug connector STAK 4.

#### HELLA emergency-up control device with USV

[ ]

The HELLA emergency-up control device serves for the all pole breaking of a single motor from a motor control device or actuator. In addition the emergency-up control device serves for a delayed all pole switching on of an emergency power supply and for a delayed switching on of the emergency-up command. Shading devices that are provided with the HELLA emergency-up control device are designed for use in the secondary emergency route. A local fire protection officer must approve the admissibility and applicability of the emergency-up control device for the second emergency route. The uninterruptible power supply (USV) for the HELLA emergency-up control device is suitable for mechanical and electrical motors (230V).

#### Optional slat perforation

[ ]

Optional perforated slats with a hole diameter of 1.1 mm, centre-to-centre distance 3.46 mm and light penetration 9,2% (for 80 mm wide slats).

#### ONYX CENTER

[ ]

Central control unit in the building. It serves as an interface between smartphone and the individual control units as well as sensors and transmits control commands bidirectional via an 868 MHz radio standard. Connected via network cable with an existing Wi-Fi (WLAN). The control is possible via smartphone via its network or, if the network offers internet access, via the internet. Supplied with 230V AC via a Euro plug, no additional voltage conditioning necessary. The customer does installation of the control unit. The central control unit gives status updates via status display. By scanning the QR code at the bottom side of the device via the app, an encrypted access to the control unit is provided

#### ONYX NODE

[ ]

One device per sun protection unit. Motor drive of the sun protection units: Standard capacitor motor (not included in the delivery). Further looping of the power supply via doubly present terminals is possible. Connection of an additional commercially available venetian blind pushbutton is possible. The control device is mounted in a deep flush-mounted socket (min. 60 mm). The control device queries the motor status. The current position and inclination of the cover now are graphically displayed in the app. The control device communicates with the central control unit or the hand-held radio transmitter/wall-mounted radio transmitter via an 868 MHz radio standard. Adding control devices with the help of the scanning mode in the ONYX app.

#### ONYX CONNECTOR

[ ]

One ONYX.CONNECTOR per curtain. Provided in the box of the sun protection unit. The motor is directly plugged to the Hirschman cable socket STAK 3 of the ONYX.CONNECTOR. Via the integrated Hirschman connector STAS 3, ONYX.CONNECTOR is directly plugged into an already existing Hirschman cable socket STAK 3. Motor drive of the sun protection units: Standard capacitor motor (not included in the delivery). The connector queries the motor status. The current position and inclination are graphically displayed in the app. ONYX.CONNECTOR communicates with the central control unit or the hand-held radio transmitter / wall-mounted radio transmitter via an 868 MHz radio standard. Adding control devices with the help of the scanning mode in the ONYX app.

**ONYX CLICK**

Hand-held radio transmitter for controlling one or more ONYX control devices. Per channel, five devices can be taught-in; in total five channels are available. In combination with ONYX.CENTER, the number of devices per channel is not limited. Weather sensors can be configured via ONYX.CLICK The configuration is done via Bluetooth with the ONYX app. Selecting the shading type of an ONYX control device by tapping (outdoor blinds) and raising or lowering (roller shutters). Channels are displayed in colours.

[ ]

**ONYX WEATHER**

The weather sensor is provided with a wind sensor and a brightness sensor. Wind radio transmitter designed as a three-shell wind turbine with a wind measuring range of 2-32 m/s. Measuring range of the brightness sensor: 0-120 klx. Automatic control of the assigned sun protection units, if the threshold value is exceeded or not reached (wind resistance class, brightness value). The wind resistance class can be set individually for each blind via the smart phone. The weather sensor is mounted on the facade and supplied with 230 V AC voltage. The weather sensor communicates via an 868 MHz radio standard with the central control unit or hand-held radio transmitter/ wall-mounted radio transmitter. Adding the weather sensor through scan mode in the ONYX app. Integration of several weather sensors into one system is possible without any problems. IP rating 54

[ ]

Unit: piece

Quantity: .....pcs.

Price/pc: .....

Price total: .....