

OUTDOOR BLINDS & VENETIAN BLINDS

HELLA

CONTENTS

HELLA Innovation ECN®	06	Outdoor blinds with Z-shaped slats AR 92 Z ECN®/AR 63 Z ECN®	12	Overview Fields of application and recommendations for use	20	Package heights/ Slat colours	28
Daylight control system	08	Outdoor blinds with C-shaped slats ARO 65 and ARB 80	14	Installation options	22	Saving energy Sustainability	30
Perforated slat Tiltings	09	Exterior venetian blinds Delicate and clever	16	Guide rails for outdoor blinds & exterior venetian blinds	26	ONYX® The Smart Home System from HELLA	32
Outdoor blinds with S-shaped slats AR 92 S ECN®/AR 63 S ECN®	10	Interior venetian blinds Decorative design	18	Worth knowing Guide rails, hole punching and wind-resistant design	26	HELLA	34

OUTDOOR BLINDS & VENETIAN BLINDS

CONTROLLING DAYLIGHT
SAVING ENERGY
PRIVACY AND COMFORT

DAYLIGHT BRIGHTENS
OUR LIVES, IT CAN BE
CONTROLLED & DOSED
ACCORDING TO YOUR
MOOD.

JUST THE **WAY I LIKE IT**

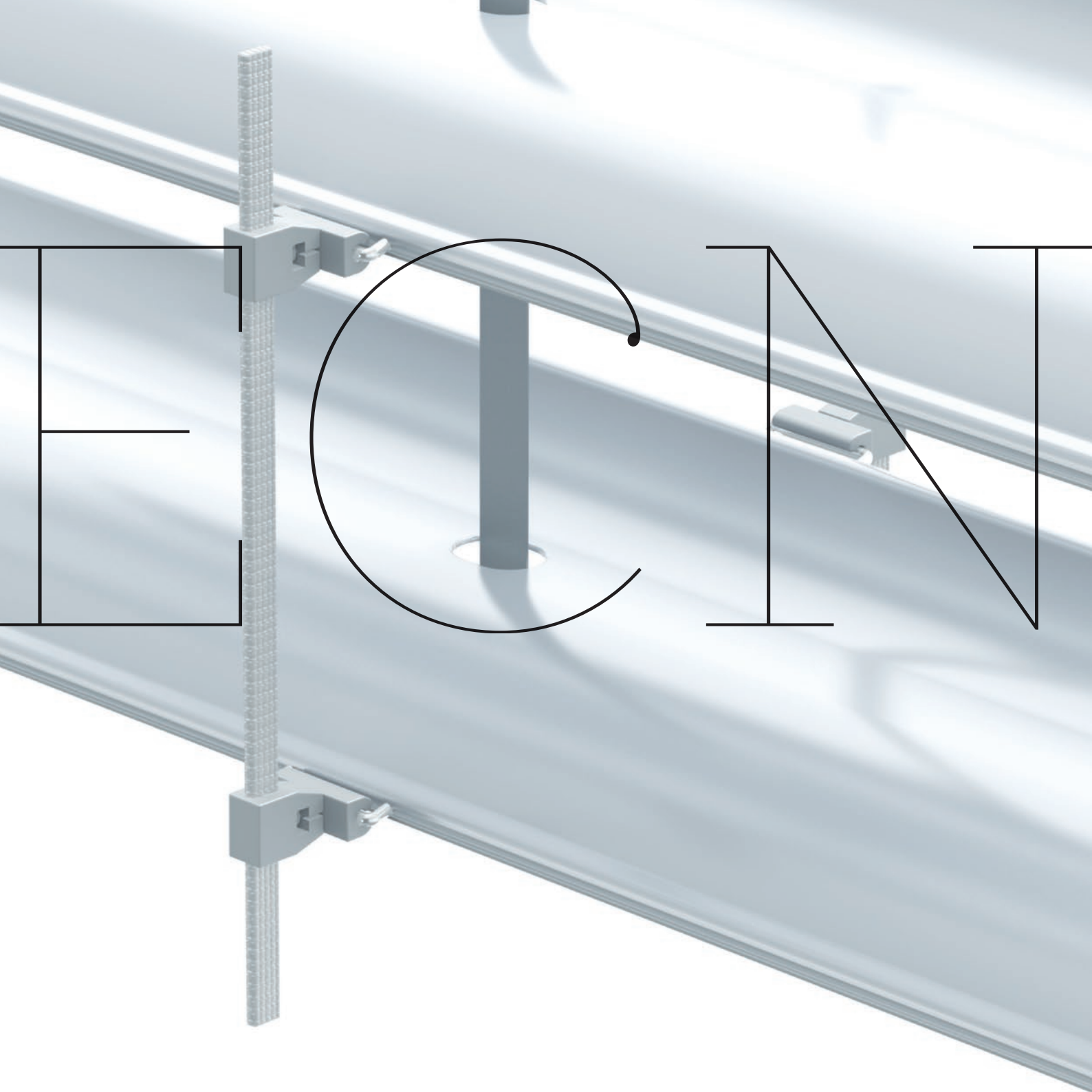




**HELLA controls light and climate
in every room.**

Our outdoor blinds & venetian blinds control and dose daylight. Additionally, they function as "climate buffers" and therefore become a decisive criterion for comfort in all living and working spaces.





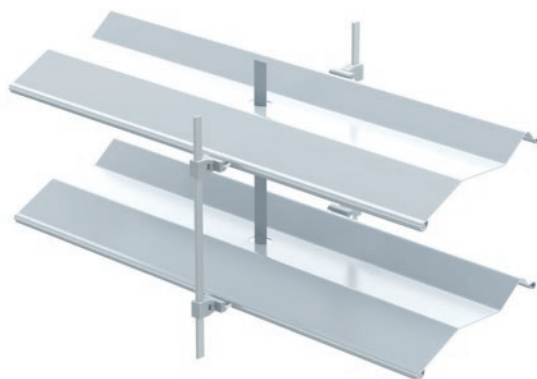
PROTECTED BY PATENT!

FUNCTIONALITY AND ELEGANCE THROUGH INNOVATION

Outdoor blinds are not a decorative element, but an important tool for lighting design and climate control. This implies daily usage and highest demands on accuracy and durability. HELLA sets new standards with the ECN®-system. The individual slats are connected through a carrying tape strengthened with Kevlar and a highly precise fastening device made of plastic and stainless steel. This is a brilliant combination with high benefit.

Improved values compared to traditional systems:

- The slats pile up to perfect stacks
- The narrow stacks require only little space.
- The blind is very wind-resistant and has a long lifespan



Available as S-shaped or Z-shaped slat



Precise packaging

SMALL PART, GREAT EFFECT.

Outdoor blinds are only as good as their processing. All parts - slats, lift tapes, guide rails and guide pins - interact smoothly in a quality product. The ECN® system from HELLA guides the slats quietly and completely free from torsion. Life long.

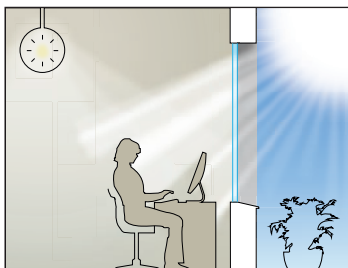


DAYLIGHT CONTROL SYSTEM

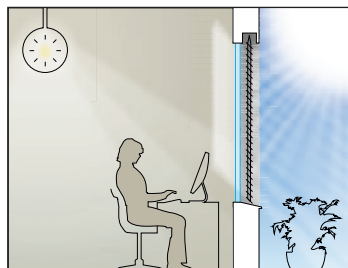


AMBIENCE AND INDOOR CLIMATE AS DESIRED

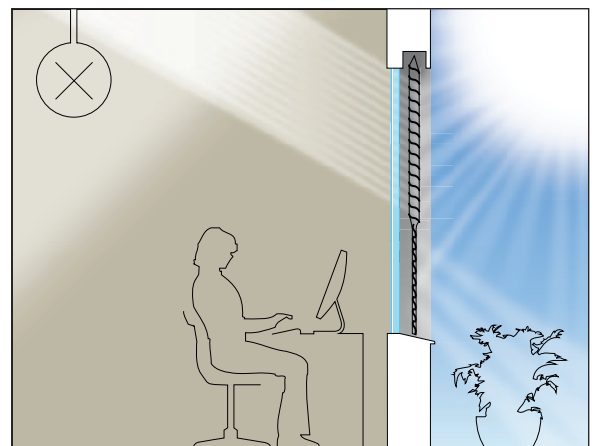
Outdoor blinds & venetian blinds from HELLA, do not only darken the rooms. Our products control and dose the daylight exactly as desired by the user. When working in front of a monitor, the incoming light can be directed to the ceiling with the "daylight control system", which is a great advantage for screen work. As it is light inside, it's possible to look outside without a glare. Another development from HELLA is the "working position" that also allows the light to enter the room while opening and closing the blind. Both functions reduce the use of artificial light sources and create comfort. You feel comfortable and at the same time you save energy costs.



Without outdoor blinds or venetian blinds the sun glares and you need artificial light to illuminate the room when curtains or roller shutters are closed.



Standard outdoor blinds or venetian blinds without daylight control system provide view and glare protection, however, you need artificial light to light up the room.

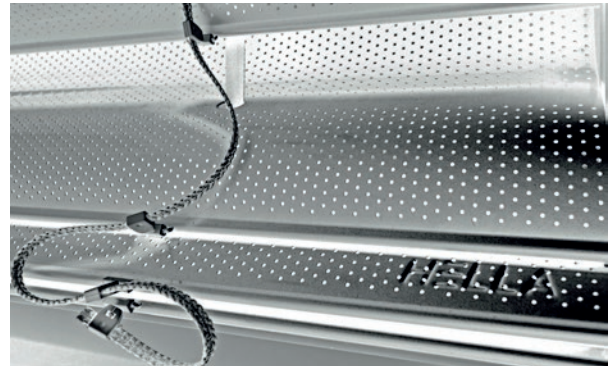


The HELLA daylight control system does not only provide view and glare protection, but also perfectly uses the daylight to light up the room. No artificial light = comfortable atmosphere and energy saving at the same time!

PERFORATED SLAT

VIEW TO THE OUTSIDE

The perforated slat from HELLA fulfils the desire of many architects and designers for a flamboyant visual appearance and fascinating lighting effects. Nearly all slats are available with perforation, whereby a partial as well as a complete perforation of the blind is possible; in this way the rooms are darkened ingeniously without locking out the outside world completely.

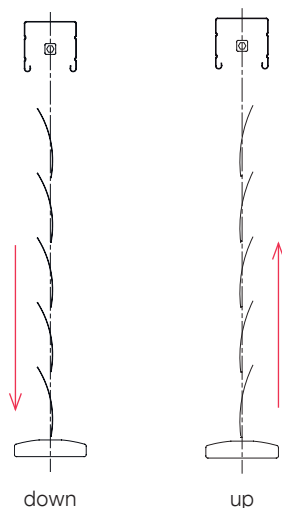


The perforated slat is an eye-catcher with an elaborated light effect.

TILTINGS

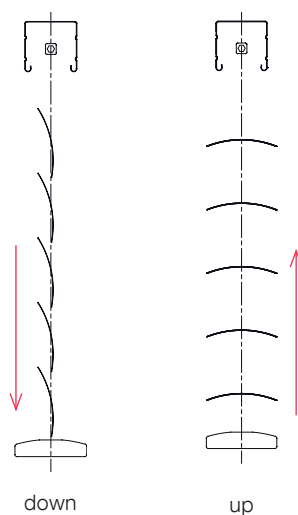
TILTING BOTH WAYS

When lowering the blind, the slats are closed towards the outside; when raising the blind, the slats are closed towards the inside; in-between positions are infinitely adjustable.



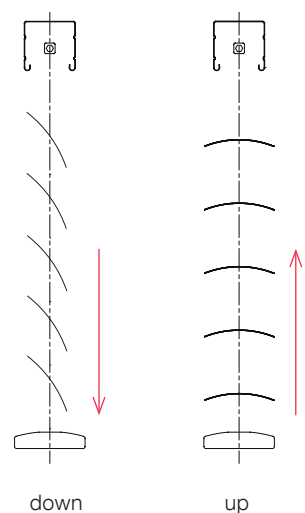
90° TILTING

When lowering the blind, the slats are closed towards the outside; when raising the blind, the slats are in a horizontal position, in-between positions are infinitely adjustable.



WORKING POSITION

The working position enables you to open and close the outdoor blinds & venetian blinds without having to forego the incidence of light. When lowering the blind, it is inclined by about 50° towards the outside, during the lifting process it is in a horizontal position and in between it can be continuously adjusted. The blind can be closed towards the outside.





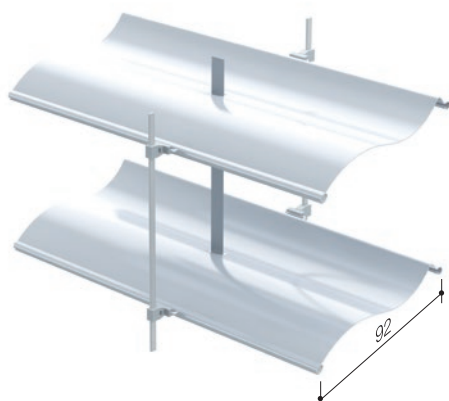
OUTDOOR BLINDS

WITH S-SHAPED SLATS

The soft curve shape gives HELLA's S-shaped slat its name. HELLA invented the S-shaped outdoor blind slat and registered it for design patent. The final development of the shape was carried out in cooperation with an institute specialised in light technology. There is the standard variant of the S-shaped slat with 92 millimetres, and there is a narrower one available with a slat width of 63 millimetres, which is perfectly suitable for little recess depths

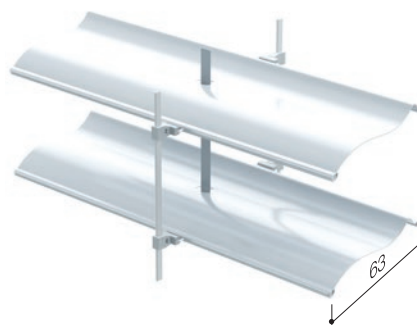
with small wall structures or for renovations. These outdoor blinds are provided with the innovative ECN®-system, are nearly noiseless and very wind-resistant. The HELLA daylight control system controls and doses the daylight. It creates a comfortable atmosphere with little energy consumption because of the less frequently use of artificial light.

AR 92 S ECN®



The original S-shaped slat from HELLA:
elegant soft wave contour
and perfect light control towards the inside.

AR 63 S ECN®



The original S-shaped slat with a width of only 63 mm –
ideal for narrow wall constructions
or subsequent installation.

THE PRETTIEST SHAPE TO CONTROL THE DAYLIGHT



ADVANTAGES

Your HELLA benefits for this product:

- Excellent light control
- Available with cable tensioning or guide rail (wind-resistant design: cable and guide rail)
- Combinable with C-shaped slats
- Excellent dimming effect



With cable tensioning, opened by 45°



With guide rail, closed



Excellent closing characteristics

Both slat profiles close with very little noise thanks to the built-in sealing profile.

	AR 63 S ECN®	AR 92 S ECN®	AR 92 S ECN® WS
Side guidance	Cable/guide rail	Cable/guide rail	Guide rail + cable
Slat type	Bordered	Bordered	Bordered
Min. width [mm]	430 (crank handle)/450 (motor)	430 (crank handle)/450 (motor)	530 (motor)
Max. width [mm] single unit	5000	5000	4000
Max. height [mm]	4200	5200	4000
Max. blind surface [m²] single unit	14 (crank handle)/20 (motor)	14 (crank handle)/20 (motor)	9 (motor)
Max. blind surface [m²] group units	12.6 (crank handle)/22.5 (motor)	12.6 (crank handle)/22.5 (motor)	18 (motor)



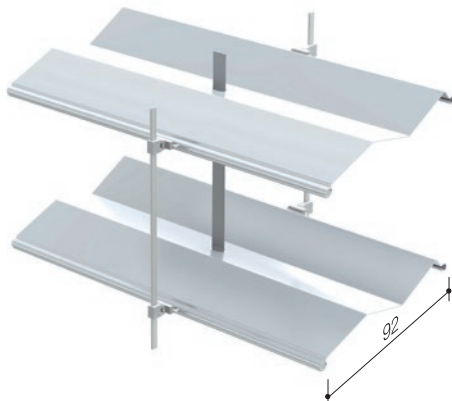
OUTDOOR BLINDS

WITH Z-SHAPED SLATS

The high-quality HELLA outdoor blinds with Z-shaped slats are the perfect shading system for modern residential and office buildings. The design inspires architects. Its function provides greatest well-being, operating comfort and always the perfect daylight, from dark to bright. The outdoor blinds with Z-shaped slats are not only available with the standard width of 92 mm, but there is also a small variant available with a width of 63 mm only. The innovative ECN®-system piles up the slats to accurate packages. The outdoor blinds with cable tensioning or rail guiding are very quiet and highly wind-resistant.

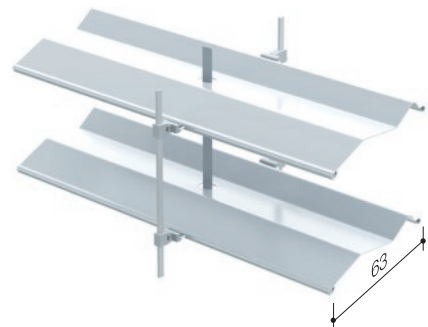
**MODERN
ALL-ROUNDER
FOR HIGHEST
COMFORT**

AR 92 Z ECN®



Z-shaped slat: Light control with modern geometric shape.

AR 63 Z ECN®



Z-shaped slats with a width of only 63 mm – perfect for subsequent installation or slim wall thicknesses.



Also available with cable guiding –
for example, in corner situations.



Excellent closing characteristics

Both slat profiles close with very little noise
thanks to the built-in sealing profile.

	AR 63 Z ECN®	AR 92 Z ECN®	AR 92 Z ECN® WS
Side guidance	Cable/guide rail	Cable/guide rail	Guide rail + cable
Slat type	Bordered	Bordered	Bordered
Min. width [mm]	430 (crank handle)/450 (motor)	430 (crank handle)/450 (motor)	530 (motor)
Max. width [mm] single unit	5000	5000	4000
Max. height [mm]	4200	5200	4000
Max. blind surface [m²] single unit	14 (crank handle)/20 (motor)	14 (crank handle)/20 (motor)	9 (motor)
Max. blind surface [m²] group units	12.6 (crank handle)/22.5 (motor)	12.6 (crank handle)/22.5 (motor)	18 (motor)

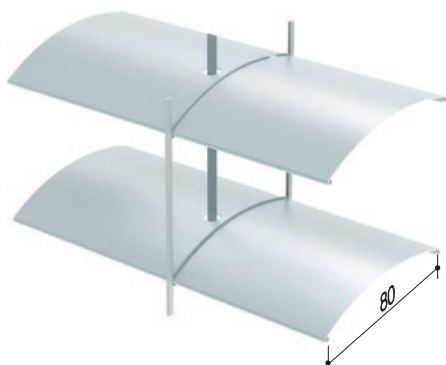
OUTDOOR BLINDS

WITH C-SHAPED SLATS AND OMEGA PUNCHING

The models ARO 65 and ARB 80 are proven classics. Like all HELLA outdoor blinds, they are made of a highly flexible special aluminium alloy and are convex-concave formed. Bordered hollow punchings protect the lifting tapes and supersede plastic clips. The bottom rail is made of an extruded aluminium profile and is guided in the rails

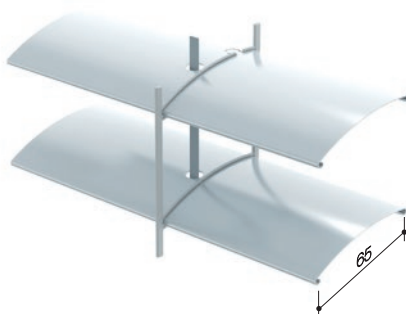
by alternating plastic pins. The entire slat curtain is therefore very stable and almost maintenance-free. Therefore it's a sun and weather protection device for generations. If desired, these outdoor blinds are also available with daylight control system.

ARB 80



The outdoor blind ARB 80 is provided with bordered slats and the slats are straightly stacked.

ARO 65



The bordered C-shaped slat of the ARO 65 is perfectly suitable for little recess depths with small wall constructions or for subsequent installation.

**THE TIME PROVEN
CLASSIC –
ALMOST
MAINTENANCE-FREE**

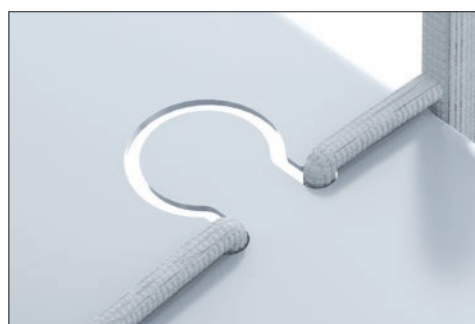




With guide rail,
opened by 90°



With guide rail,
closed



HELLA replaces the traditional ladder tape fixation with plastic eyelets with a fixation with the smart Omega punching. This creates a unique product without plastic grommets. Perfect design and almost maintenance-free!

	ARO 65	ARB 80	ARB 80 WS
Side guidance	Cable/guide rail	Cable/guide rail	Guide rail + cable
Slat type	Bordered	Bordered	Bordered
Min. width [mm]	400 (crank handle)/430 (motor)	400 (crank handle)/430 (motor)	550 (motor)
Max. width [mm] single unit	5000 (crank handle/motor)	5000 (crank handle/motor)	4000 (motor)
Max. height [mm]	5200 (crank handle/motor)	5200 (crank handle/motor)	4000 (motor)
Max. blind surface [m²] single unit	14 (crank handle)/20 (motor)	14 (crank handle)/20 (motor)	7 (motor)
Max. blind surface [m²] group units	12.6 (crank handle)/22.5 (motor)	12.6 (crank handle)/22.5 (motor)	14 (motor)

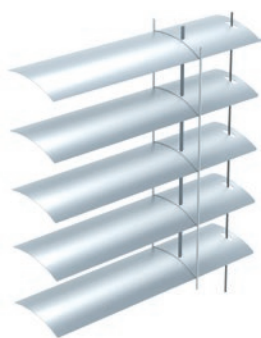
EXTERIOR VENETIAN BLINDS

WITH FLAT SLATS



SOFT LINES THANKS TO FLEXIBLE SLATS

The traditional venetian blind with flat slats is available in widths from 50 to 80 millimetres. This sun and weather protection is delicate, lightweight and can be architecturally very stylishly integrated into most facades. Exterior venetian blinds have a compact package height and in addition offer excellent protection. The slats “bounce” back to their initial form in case of wind load.



With cable tensioning, opened by
90°



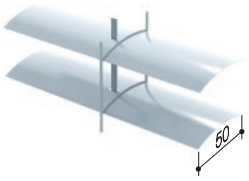
With cable tensioning, opened by
45°



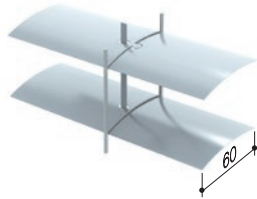
With cable tensioning, closed

	AF 50	AF 60/AF 80	AF 80 Plus
Side guidance	Cable	Cable/guide rail	Cable/guide rail
Slat type	Flat	Flat	Flat
Min. width [mm]	465 (crank handle)/490 (motor)	465 (crank handle)/490 (motor)	580 (motor)
Max. width [mm] single unit	5000 (crank handle/motor)	5000 (crank handle/motor)	5000 (motor)
Max. height [mm]	3500 (crank handle/motor)	5200 (crank handle/motor)	6200 (motor)
Max. blind surface [m²] single unit	20 (crank handle)/20 (motor)	14 (crank handle)/20 (motor)	20 (motor)
Max. blind surface [m²] group units	18.9 (crank handle)/32.4 (motor)	12.6 (crank handle)/22.5 (motor)	-

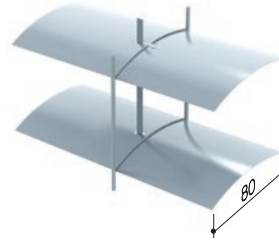
AF 50



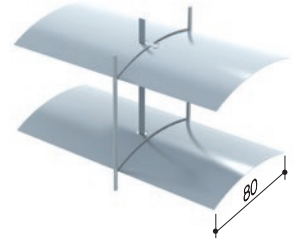
AF 60



AF 80



AF 80 Plus



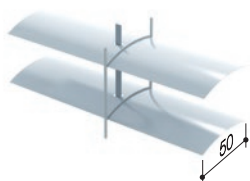
The AF 80 Plus enables element heights of up to 6200 mm and is always delivered with guide rails and two additional cable safety devices. The drive system is provided with an electronic motor.



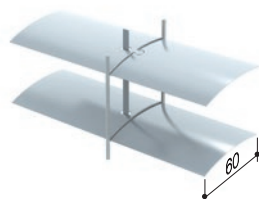
INTERIOR VENETIAN BLINDS WITH FLAT SLATS

Interior venetian blinds have a lot of benefits. They keep prying eyes away, individually control the sunlight and thus create comfort. HELLA offers different slat widths and a large colour spectrum. This makes the interior venetian blind an attractive architectural design element.

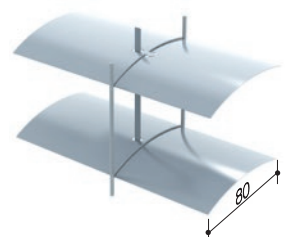
**DECORATIVE DESIGN –
HARMONIOUS
ATMOSPHERE**



IF 50



IF 60



IF 80



Interior venetian blinds

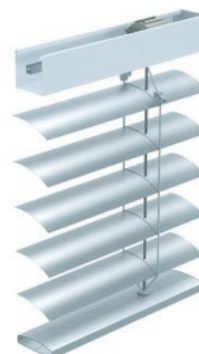
The optimal control of the sunlight creates coolness on hot summer days.



Closed



opened by 45°



opened by 90°

	IF 50	IF 60	IF 80
Side guidance	Without cable	Without cable	Without cable
Slat type	Flat	Flat	Flat
Min. width [mm]	460 (crank handle)/430 (motor)	460 (crank handle)/430 (motor)	460 (crank handle)/430 (motor)
Max. width [mm] single unit	5000 (crank handle/motor)	5000 (crank handle/motor)	5000 (crank handle/motor)
Max. height [mm]	3500 (crank handle/motor)	5200 (crank handle/motor)	5200 (crank handle/motor)
Max. blind surface [m²] single unit	20 (crank handle/motor)	14 (crank handle)/20 (motor)	14 (crank handle)/20 (motor)
Max. blind surface [m²] group units	18.9 (crank handle)/32.4 (motor)	12.6 (crank handle)/22.5 (motor)	12.6 (crank handle)/22.5 (motor)



OVERVIEW

FIELDS OF APPLICATION AND RECOMMENDATIONS FOR USE

Product features	Outdoor blinds				Wind-resistant Outdoor blinds	
	ARO 65	ARB 80	AR 63 S/Z	AR 92 S/Z	ARB 80 WS	AR 92 S/Z WS
Sun protection	+	+	++	++	+	+
Sight screen	+	+	++	++	+	+
Blacking out	(+)	(+)	++	++	(+)	(+)
Wind resistance	+	+	++	++	++	++
Light control	+	+	+	+	+	+
Noise insulation	(+)	(+)	(+)	(+)	(+)	(+)

Installation systems Installation options		Outdoor blinds				Wind-resistant Outdoor blinds	
		ARO 65	ARB 80	AR 63 S/Z	AR 92 S/Z	ARB 80 WS	AR 92 S/Z WS
Top boards/U-channels		+	+	+	+	+	+
Front-mounted systems	VA/VAP	+	+	+	+	+	+
	VN	+	+	–	–	–	–
Facade systems	FA	+	+	+	+	+	+
	FAS	+	+	+	+	+	+
Recess installation	VFS	+	+	+	+	+	+
	VLS	+	+	+	+	+	+
	FFS	+	+	+	+	+	+
HELLA Recess systems	TRAV®	+	+	+	+	+	–
	TRAV®Nische	+	+	+	+	+	–
	TRAV®Klima	+	+	+	+	+	–
	TRAV®frame	+	+	+	+	–	–
Top-mounted elements	TOP FOAM	–	+	+	–	–	–
	TOP DUO store	–	+	–	–	–	–

VN front-mounted system nova front-mounted box
VA/VAP front-mounted system aluminium channel with screen/plaster base
VFS Front-mounted window installation for recesses

VLS Front-mounted soffit installation for recesses
FFS Facade system window installation for recesses



Exterior venetian blinds

AF 50*	AF 60	AF 80
+	+	+
+	+	+
(+)	(+)	(+)
(+)	(+)	(+)
+	+	+
(+)	(+)	(+)

Legend

- ++ especially suitable
- + possible/suitable
- (+) with limitations
- impossible/not suitable

Exterior venetian blinds

AF 50*	AF 60	AF 80
+	+	+
–	+	+
–	+	+
–	+	+
–	+	+
–	+	+
–	+	+
–	+	+
+	+	+
+	+	+
+	+	+
–	+	+
–	+	+
–	–	+

Fields of application/Recommendations for use

New building	Rehabilitation	Integrated in the ETICS	In front of ETICS facades	To metallic facades	In the soffit
+	+	+	+	+	+
+	+	+	(+)	–	+
+	+	+	(+)	–	+
+	+	–	++	++	+
+	+	–	++	++	–
+	+	+	–	–	+
+	+	+	–	–	+
+	+	+	+	+	+
++	(+)	+	–	–	–
+	+	+	–	–	+
++	(+)	+	–	–	–
++	+	+	–	–	–
+	+	+	–	–	–
+	+	+	–	–	–

FA facade system aluminium channel canted self-supporting
FAS facade system aluminium channel extruded self-supporting
 * AF 50 only feasible with wire tensioning

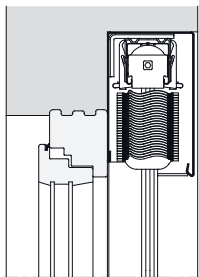
NOTE: wind-resistant outdoor blinds are usually provided with guide rails and additional cables



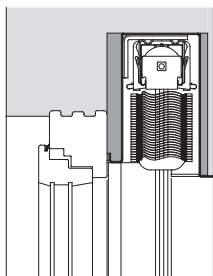
INSTALLATION OPTIONS

Due to the variety of installation options of outdoor blinds & exterior venetian blinds, you enjoy maximum design flexibility, whether it is a new building or a later installation in existing recess systems.

FRONT-MOUNTED SYSTEMS

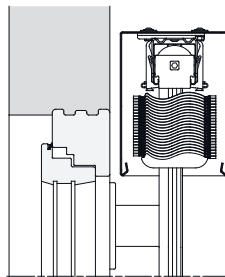


Canted channel square design with visible top board

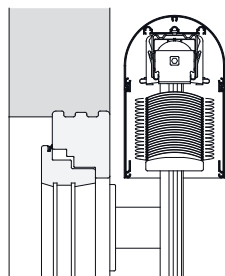


Canted channel with plaster base and insulation in the interior

FACADE SYSTEMS

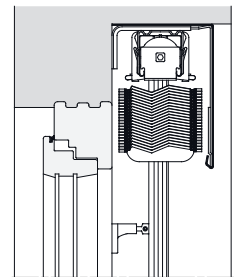


Canted U-channel square design

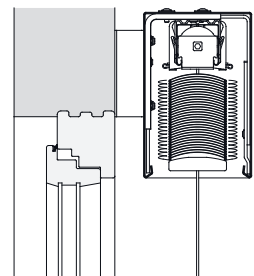


Extruded semi-circular arch channel

TOP BOARDS / CHANNELS



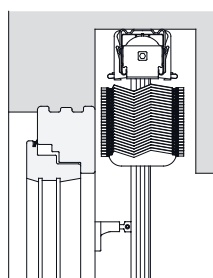
Canted angular top board in the recess



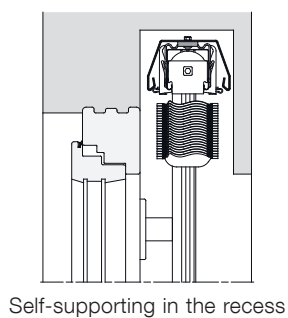
Canted U-channel square design with Z-shaped brackets



RECESS INSTALLATION

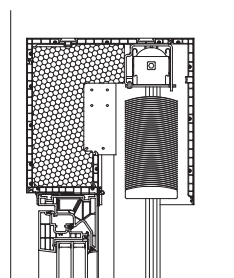


Fixed in the recess

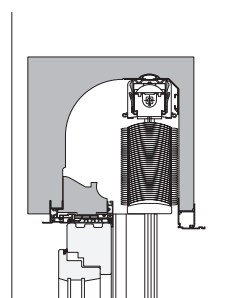


Self-supporting in the recess

TOP-MOUNTED ELEMENTS

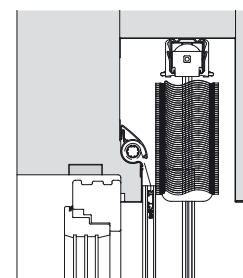


TOP DUO store

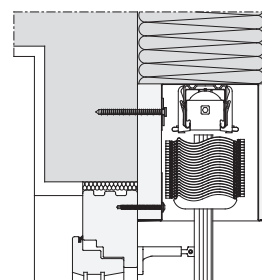


TOP FOAM

HELLA RECESS SYSTEMS



TRAV®frame

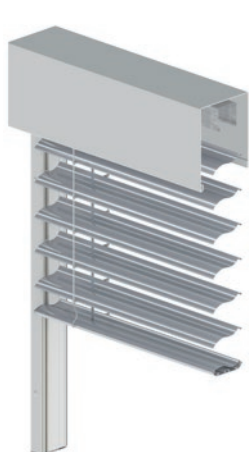


TRAV®Nische

FRONT-MOUNTED SYSTEMS

With front-mounted systems from HELLA, outdoor blinds or exterior venetian blinds are fully pre-assembled in the channel. In this way the final installation on-site is easily and quickly feasible. This installation option is suitable

for subsequent installation in new or old buildings and also for the integration in the thermal insulation composite system. Even a subsequent installation in existing recess systems is possible.



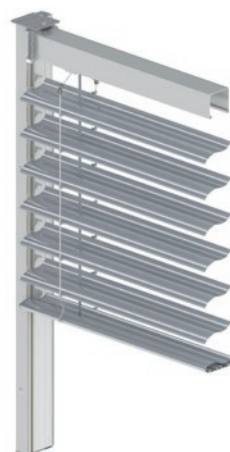
VA/VAP

Front-mounted system aluminium channel with cover panel or plaster base



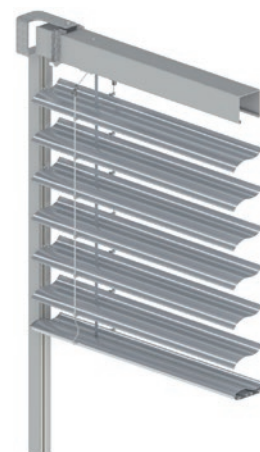
VN/VN side by side

Front-mounted system nova front-mounted box



VFS

Front-mounted system for recess (window installation)

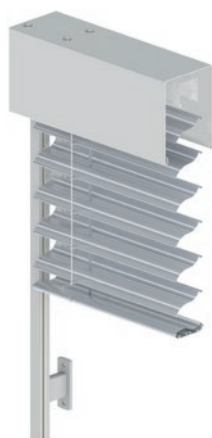


VLS

Front-mounted system for recess (soffit installation)

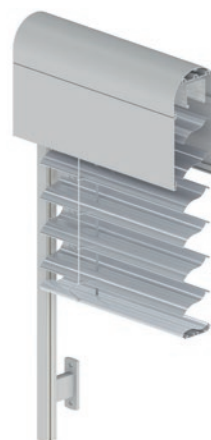
FACADE SYSTEMS

HELLA outdoor blinds & exterior venetian blinds in the self-supporting facade system are distinctive design elements of the modern facade design. Different channel shapes and colours help to realise individual visual preferences. With facade systems from HELLA, venetian blinds and outdoor blinds are fully pre-assembled in the channel. For an easy, self-supporting installation, the channel is placed directly onto the guide rails and fixed with few fastening points.



FA

Facade system aluminium channel canted self-supporting



FAS

Facade system aluminium channel extruded self-supporting



FFS

Facade system for recess (window installation)

TOP BOARDS CHANNELS

Top boards and U-channels protect the HELLA outdoor blinds & exterior venetian blinds and, due to their different forms and variants, they perfectly fit into the design of the facade. Provided with plaster bases, the sun protection device can be discreetly hidden behind the facade. In contrast to top

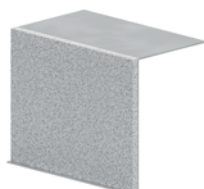
boards, U-channels are flush with the wall and are not only available with a surface that can be plastered but also with an insulation that avoids thermal bridges and that complement the thermal insulation composite system seamlessly.

Angular top boards
canted



Shape 1

Top boards and channels
with plaster bases



Shape 1-PT

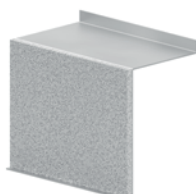
U-channels
canted



Shape 7



Shape 2



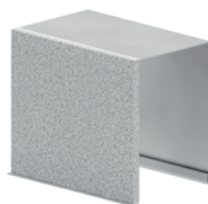
Shape 2-PT



Shape 7
With insulation



Shape 5



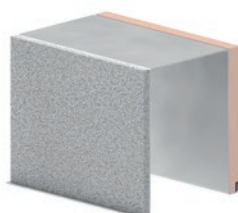
Shape 7-PT



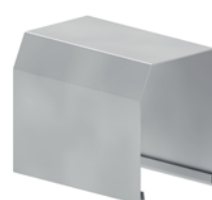
Shape 7
With edge wrapping
towards the back



Shape 6



Shape 7-PT
With insulation



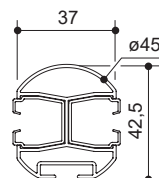
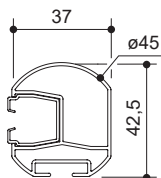
Shape 9

GUIDE RAILS



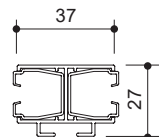
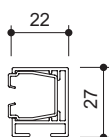
Round (also for box systems)

Dim. \varnothing 45 mm



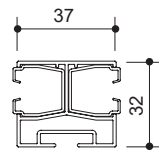
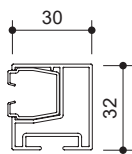
Square (standard guide rail)

Dim. 22x27 mm
Dim. 37x27 mm



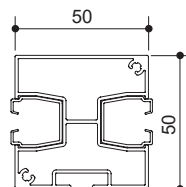
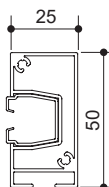
For box systems

Dim. 30x32 mm
Dim. 37x32 mm



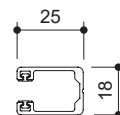
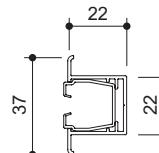
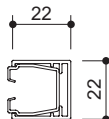
For post and beam facades

Dim. 25x50 mm
Dim. 50x50 mm



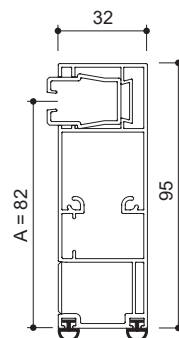
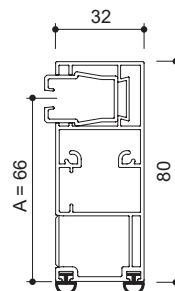
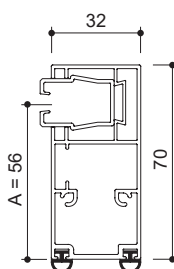
For lateral installation to the brickwork or in the groove already provided during the carcassing

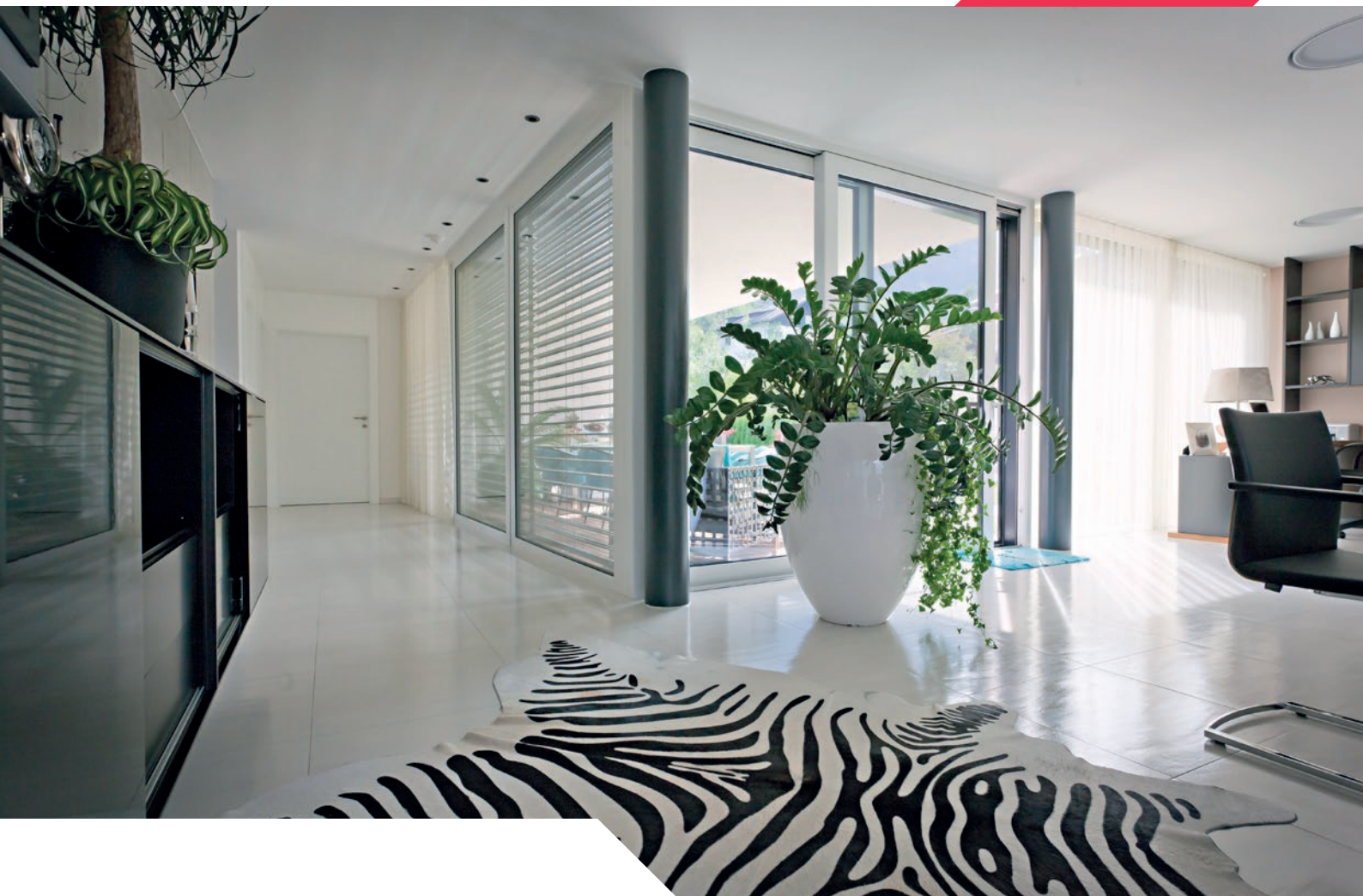
Dim. 22x22 mm
Dim. 22x22 mm with lugs
Dim. 25x18 mm



For surface-mounted or flush-mounted installation, optionally available without or with insect screen

Dim. 32x70 mm
Dim. 32x80 mm
Dim. 32x95 mm





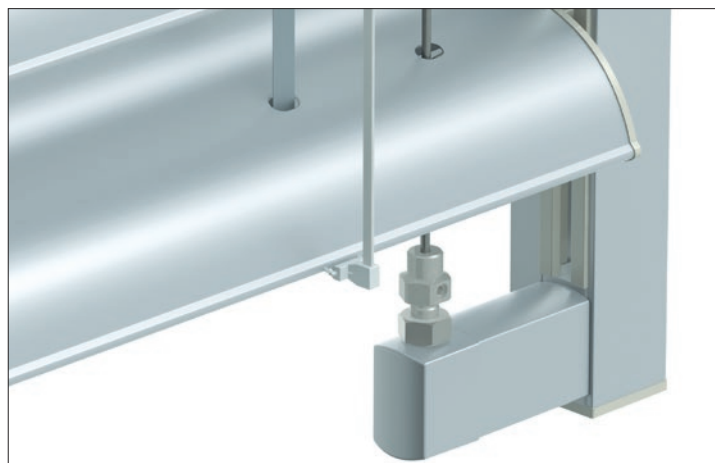
BORDERED HOLLOW PUNCHINGS

The bordered hollow punchings of outdoor blinds are standard with HELLA products. However, they are still unique on the market. They protect the lifting tapes, avoid sharp edges and therefore provide a higher level of protection. Smooth running is guaranteed.



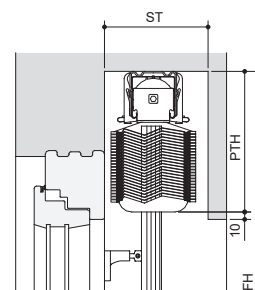
WIND RESISTANT DESIGN

The wind resistant design (only available with AR 92 ECN® and ARB 80) allows the use with wind speeds of up to 80 km/h (acc. to EN 13659) depending on the unit size. In addition to the guide rails, the slats are guided by at least two polyamide-sheathed high-grade steel wires. The tensioning brackets for the two outer wind protection devices are integral parts of the guide rail.



PACKAGE HEIGHTS

The specification of the package height is required for the planning of the recess and top board height; it specifies the height of the outdoor blind or exterior venetian blind with raised slats. It depends on the complete height, the selected slat width and the slat shape.



ST Recess depth
PTH Package height
FH Complete height

INTERIOR VENETIAN BLINDS IF 50/IF 60/IF 80

	Complete height [mm]	1000	1500	2000	2500	3000	3500	4000	4500	5000
Package height [mm]										
IF 50		125	140	155	170	180	195	-	-	-
IF 60		135	155	175	195	210	230	250	270	290
IF 80		120	130	145	155	165	175	190	200	210

EXTERIOR VENETIAN BLINDS AF 50/AF 60/AF 80 (package heights with cable guiding)


	Complete height [mm]	1000	1500	2000	2500	3000	3500	4000	4500	5000	Recess depth
Package height [mm]											
AF 50		125	140	155	170	180	195	-	-	-	min. 90
AF 60		135	155	175	195	210	230	250	270	290	min. 100
AF 80		120	130	145	155	165	175	190	200	210	min. 120

OUTDOOR BLINDS AR 63 ECN®/AR 92 ECN®/ARO 65/ARB 80

	Complete height [mm]	1000	1500	2000	2500	3000	3500	4000	4500	5000	Recess depth
Package height [mm]											
AR 63 S+Z ECN®		160*	195	225	260	295	330	360	-	-	min. 110
AR 92 S+Z ECN®		150*	180*	205*	230	260	290	320	345	370	min. 140
ARO 65		160	190	220	255	285	320	350	380	405	min. 110
ARB 80		150	175	205	235	260	285	310	340	370	min. 120

* If a simultaneously tilting bottom rail is provided, the minimum recess height / top board height for the AR 63 S/Z ECN® is 200 mm, and 230 mm for the AR 92 S/Z ECN®.

SLAT COLOURS

		AF/IF 60	AF/IF 80	ARO 65 AR 63 S/Z ECN®	ARB 80 ARB 80 WS	AR 92 S/Z ECN® AR 92 S/Z ECN® WS
	Normal white RAL 9016					
	Pure white RAL 9010					
	Grey white RAL 9002					
	Light grey RAL 7035					
	Agate grey RAL 7038					
	White-aluminium RAL 9006					
	Grey-aluminium RAL 9007					
	Anthracite iron mica DB 703					
	Anthracite-grey RAL 7016					
	Black RAL 9005M					
	Light beige no. 0240					
	Beige no. 0003					
	Dark beige no. 0110					
	Yellow-beige no. 0909					
	Daffodil yellow no. 1007					
	Terracotta red no. 0120					
	Purple red no. 0330					
	Pigeon blue RAL 5014					
	Azure blue RAL 5009					
	Ultramarine blue RAL 5002					
	Turquoise blue RAL 5018					
	Moss-green RAL 6005					
	Sepia brown RAL 8014					
	Light bronze C31					
	Light bronze C32					
	Bronze C33 (=0780)					
	Dark bronze C34					
	Black C35					

For technical reasons, slight deviations of the colours shown to the original colours are possible. Due to different procedures in the production, colour differences between slats and powder-coated aluminium parts cannot be avoided. Likewise, colour tolerances cannot be ruled out.

A photograph of a person sitting on a grassy lawn in a park. The person's legs, wearing blue jeans, are visible in the foreground. The background is filled with lush green trees under a clear blue sky. The sun is visible on the right side, creating a bright glow and lens flare. The word "SUSTAIN" is written in large, white, serif capital letters across the middle of the image.

SUSTAIN

The principle is not new. Box-type windows of former generations used air cushions as climate buffers. Modern sun protection perfected this principle. Like an additional pane, these products create a climate zone that blocks both heat and cold. In this way outdoor blinds & venetian blinds reduce the energy demand. This saves money, protects the environment and improves the indoor climate. For sure a good feeling.



SAVING ENERGY

Outdoor blinds & venetian blinds are perfect "climate buffers".

Don't throw your money down the drain!
Protect the environment and feel comfortable.

TABLE



ONYX[®]

THE SMART HOME SYSTEM FROM HELLA

The Smart Home System ONYX.HOME was specially developed for the operation of sun protection products. Venetian blinds, outdoor blinds, awnings and roller shutters are conveniently controlled via smart phone, tablet or even fully automatic.

All sun protection products are graphically displayed in the free ONYX[®] app. The position of the sun screen is already visible during control. All products can be visually marked with colours in the app. In addition, it is possible to assign names for each individual cover for easier identification and operation.

Controlling the sun protection product via pushbutton or the hand-held radio transmitter ONYX.CLICK is also possible. This gives children or guests, who have no access to the app, the possibility to operate the sun protection product.

ADVANTAGES

Your HELLA benefits for this product:

- Easy configuration: scan and get started
- Live feedback on position and movement of the sun protection product
- Automatic functions are individually adjustable for each sun protection unit (wind/sun/astro/time/twilight)
- Also easy and inexpensive for renovation
- Security through transparent access control
- Routing function for the best possible data transmission due to reliable forwarding of the signals
- Secure encryption between devices and smartphone/tablet





ONYX.CENTER

The center box serves as an interface between smart phone and the individual control devices and communicates via a wireless radio connection. It transmits radio commands bidirectionally so that the exact current position of the sun screen is displayed via the live feedback in the app.



ONYX.CONNECTOR

The ONYX.CONNECTOR is situated next to the motor of the sun protection product. It is controlled via the app or the hand-held radio transmitter ONYX.CLICK.



ONYX.NODE

The ONYX.NODE is mounted behind the pushbutton in the wall and connected to the motor cable.

In this way the sun protection product can be controlled via the pushbutton, the app or the hand-held radio transmitter ONYX.CLICK.



ONYX.WEATHER

The weather sensor ONYX.WEATHER logs the external weather influences such as wind speed, sun intensity and temperature on the facade.



ONYX.CLICK

ONYX.CLICK is the hand-held radio transmitter for the control of sun protection products. It serves as an extension for the center box ONYX.CENTER, but it can also be used without the box in the stand-alone operation.

AUTOMATIC FUNCTIONS

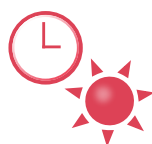
ONYX.HOME has numerous automatic functions that can be set individually for each sun protection product. Running the time and astro programme is possible without additional accessories. Wind and sun-based functions require measured data from an ONYX.WEATHER weather sensor.



Sun



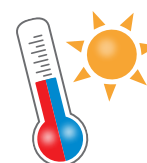
Wind



Time/Astro



Twilight



Temperature
on the facade



The long-established company HELLA

is one of the leading European manufacturers of sun and weather protection systems and stands for functional innovations, visionary design and maximum customer benefit. The world of sun and weather protection is constantly changing due to numerous patented developments.

From the first venetian blind that was produced in East Tyrol in 1959 to the high-tech control devices for the intelligent house of the future, we are driven by only one desire: To develop something really good. . Since then the brand HELLA convinces with innovative strength and a large variety of products – all of top quality and perfect function. Today, HELLA is an internationally significant initiator for the development of sustainable systems for sun and weather protection. Whether for a single-family home or a large project – we are always close to our customers.

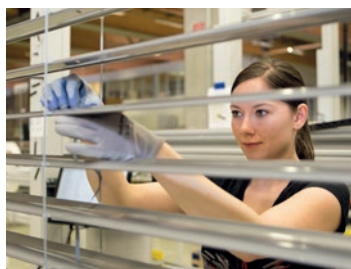
HELLA is always an original - innovative and made-to-last.

HELLA has created new standards through ground-breaking technologies. Our products have the quality of the original product. They are sophisticated and sustainable and produced in modern, environmentally friendly plants.

PARTNERSHIP WITH HANDSHAKE QUALITY

Your HELLA benefits

- Perfect support due to many specialist shops and selected retail partners
- High-quality expert advice from qualified sales assistants
- Best price-performance ratio
- Service provided by trained technicians
- Comprehensive guarantees
- Finest product quality due to development and production at our own premises
- Ecologically oriented quality with maximisation of energy savings
- Successful since 1959



HELLA
Outdoor blinds & venetian blinds

www.hella.info

HELLA