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FACADE BLINDS

THE PERFECT PROTECTION AGAINST LIGHT AND HEAT
A FACADE BLIND IS
TEXTILE ARCHITECTURE
THAT SETS ACCENTS
AND CREATES COMFORT.
For interior designers the textile sun protection is a design element with charm and functionality.

High climate and light comfort in perfect workmanship and with many design options.
SHADING AS IF ON RAILS

The side seam guided system from HELLA is a welded-on or sewed-on ultra-stable zip-fastener that guides the cover exactly and stably in the two-part guide rail. Even at high wind forces (wind resistance class 3 according to DIN EN 13561) nothing flutters.

AN INGENIOUS ZIP-FASTENER

SIDE SEAM GUIDED GLARE PROTECTION
Precise guiding of the cover via plastic zipper guiding on the inside.

High wind stability in all positions of the front rail due to the direct connection between cover and guide rail.

The zip fastener welded-on over the complete height of the cover holds it tight. Also available for distance mounting.

Side seam guided glare protection available for the models VB 107, VB 207, VB 507 and VB 507 Recess.

PRECISE GUIDING OF THE BLIND
HELLA Front-mounted blinds - perfectly suitable for special sun protection requirements on vertical facades and window surfaces with modern architectural elements. Models are available with semi-circular or square designed boxes or with boxes that are especially designed to suit the requirements of recess installation.
FACADE AWNINGS
GEOMETRIC CLARITY AND STRUCTURAL FLEXIBILITY

Geometric clarity and structural flexibility are strong points of HELLA's facade awnings; they are mounted directly to the facade whereby a certain distance to the windows must be maintained. Therefore, it is possible to perfectly shade large areas. Various fastening options allow for easy installation in nearly every constructional situation. FM 200 sets striking accents with its round design.
<table>
<thead>
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<th>FM 201</th>
<th>FM 202</th>
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<tr>
<td>Maximum surface [m²]</td>
<td>9</td>
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**FM 201**
Rail guiding

**FM 202**
Rail guiding with sloping projection unit

**FM 203**
Cable guiding
The vertical awning from HELLA functions like a second building envelope, thus providing a perfect heat and glare protection. It reflects the sun rays, masters the shading of large surfaces at sports facilities or public buildings and is perfectly suitable for offices with display work stations. This vertical awning is an architecturally attractive design element as the brackets can be mounted towards the top or the rear. Therefore, they are nearly invisible to the outside world.

### Limit sizes

<table>
<thead>
<tr>
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<th>SM 102</th>
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<td><strong>Installation on the outside</strong></td>
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<td><strong>Maximum surface [m²]</strong></td>
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<td>9</td>
<td>9</td>
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INDIVIDUAL SUN PROTECTION CAN BE SO BEAUTIFUL

SM 101
Vertical awning with rail guiding

SM 102
Vertical awning with rail guiding and sloping projection unit

SM 103
Vertical awning with cable guiding

Mounting bracket mounted towards the back
Strainer clamp mounted towards the back

Mounting bracket mounted towards the top
Strainer clamp mounted laterally

Mounting bracket mounted towards the top
Tensioning shoe mounted towards the bottom
# OVERVIEW

## ANY SHAPE AND ANY SIZE

<table>
<thead>
<tr>
<th></th>
<th>01 Guide rail</th>
<th>02 Rail guiding with sloping projection unit</th>
<th>03 Cable guiding</th>
<th>05 Drop arm</th>
<th>07 Side seam guided</th>
<th>Box shape</th>
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<tbody>
<tr>
<td>VB 100</td>
<td></td>
<td></td>
<td></td>
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<td>semi-circular</td>
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<tr>
<td>VB 200</td>
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<td></td>
<td></td>
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<tr>
<td>VB 400</td>
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<td></td>
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<td></td>
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<tr>
<td>VB 507 square</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>square</td>
</tr>
<tr>
<td>VB 507 round</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>round</td>
</tr>
<tr>
<td>VB 507 Recess</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>round</td>
</tr>
<tr>
<td>FM 200</td>
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<td></td>
<td>round</td>
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<tr>
<td>SM</td>
<td></td>
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## BOX SIZES

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<td>VB 101/102</td>
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<td>103 (122)</td>
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<tr>
<td>VB 103/105</td>
<td>97</td>
<td>103</td>
</tr>
<tr>
<td>VB 107</td>
<td>97 (115)</td>
<td>103 (122)</td>
</tr>
<tr>
<td>VB 201/202</td>
<td>99 (115)</td>
<td>98 (115)</td>
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<tr>
<td>VB 203/205</td>
<td>99</td>
<td>98</td>
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<tr>
<td>VB 207</td>
<td>99 (115)</td>
<td>98 (115)</td>
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<table>
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<tbody>
<tr>
<td>VB 401</td>
<td>75</td>
<td>75</td>
</tr>
<tr>
<td>VB 507 square</td>
<td>115 (130)</td>
<td>115 (130)</td>
</tr>
<tr>
<td>VB 507 round</td>
<td>130</td>
<td>130</td>
</tr>
<tr>
<td>VB 507 Recess</td>
<td>118 (130)</td>
<td>97 (130)</td>
</tr>
<tr>
<td>FM 200</td>
<td>125 (diameter)</td>
<td>125 (diameter)</td>
</tr>
<tr>
<td>SM</td>
<td>100</td>
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</tr>
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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, hand-held radio transmitter or even fully automatically.

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 to each individual cover for easier identification and operation.

Controlling the sun protection products by the pushbutton or the hand-held radio transmitter ONYX CLICK is also possible. This means that children or guests who do not have access to the app can also operate the sun screen.

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 smart phone/tablet
- Operation with hand-held radio transmitter ONYX CLICK, even without the central unit ONYX CENTER
- The LED lighting of the awning can be switched on/off or dimmed via the app or the hand-held radio transmitter
ONYX.CENTER

The center box serves as an interface between the 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 directly at 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 by 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.
THE HELLA COVER COLLECTION

TECHNICAL FABRICS
FOR SPECIAL REQUIREMENTS FOR HEAT, VISION AND GLARE PROTECTION

GLASS FIBRE COVER
This fabric consists of glass fibre filaments that are coated with PVC. Due to the weaving structure it appears to have a textile character.

- Excellent heat protection
- Excellent air permeability and view to the outside due to especially smooth yarn surfaces
- The high elasticity and the weaving structure correct the crumpling foldings.
- Different openness factors
- Fire protection class B1 acc. to DIN 4102-1*
- Large web widths

POLYESTER COVER PVC-COATED
Fabric made of polyester yarn, pre-stretched in both directions and PVC-coated (Precontraint process).

- Excellent heat protection thanks to micro ventilation
- Excellent weather and UV resistance
- Wide range of colours
- High form stability and tearing strength
- Large variety of openness factors
- Fire protection class B1 acc. to DIN 4102-1

* Exception: Glass fibre fabric Copaco Serge 600.
DARKENING COVER
Available as glass fibre fabric or PVC-coated polyester fabric, each with darkening layer.

- High form stability and tearing strength
- Easy to clean due to the smooth surface
- Long lifespan
- Fire protection class B1 acc. to DIN 4102-1 or M1 acc. to French standard

POLYESTER COVER PVC-FREE
View protection and anti-glare fabrics based on the latest manufacturing technology, that additionally are 100% free of PVC.

- Nice look due to its textile character
- Excellent view to the outside
- Odour-free
- Increased heat protection with aluminised fabrics
- Certain fabrics available with fire protection class B1 acc. to DIN 4102-1.

POLYESTER COVER
A high-quality fabric from our cover collection, that is both completely made of dope-dyed yarns and 100% free of PVC.

- High form stability and very good resilience
- High tearing strength
- Colours of extraordinary brilliance and intensity

ACRYLIC COVER
HELLA acrylic fabrics consist of a 100% dope-dyed branded acrylic fabric and impress especially with their textile character.

- Light and weather resistant
- Highest colour brilliance and colour fastness
- Excellent view protection
- Dirt repelling and resistant to rotting
- Tearproof and durable
- Seven colour worlds
- Quality Lumera with specifically developed fibre, for especially bright colours. In addition the very smooth and dense surface reduces the staining.

COLOURFUL, LIGHTFAST AND WEATHER-RESISTANT
INDOOR CLIMATE
THE PERFECT TEMPERATURE
FOR YOUR WELL-BEING

SUMMER
HELLA facade blinds can reduce the effects of high outside temperatures by up to approx. 85%, depending on the design. You don’t need an air-conditioning system anymore to maintain a comfortable cool temperature.

WINTER
When closed, HELLA facade blinds create a standing air cushion in front of the glass, and therefore prevent the circulation of air. Energy consumption for heating can be lowered by up to 20%, depending on the product.
Without sun protection, heat can enter the living space without hindrance. The temperature inside the room is unpleasantly high.

The air circulation between the sun protection and the window largely eliminates heat transfer via convection.

**LESS COOLING ENERGY IN SUMMER**

**LESS HEATING ENERGY IN WINTER**

Without sun protection, the window and glass facade functions like a thermal bridge when it is cold: The warm air escapes and it becomes unpleasantly chilly in the living area.

When the sun protection is closed, an air cushion is created in front of the glass, which prevents the circulation of air. As a result, the warm air stays inside the living area and keeps the cold air outside.
PARTNERSHIP WITH HANDSHAKE QUALITY

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.

SAVING ENERGY

Sun protection products are perfect “climate buffers”. Box-type windows of former generations used air cushions as climate buffers. Modern sun protection perfected this principle. As a “second pane” they create a highly effective, air-filled climate zone that reliably blocks both heat and cold. Our sun protection products even replace the air conditioner and reduce the energy required. This saves money, protects the environment and improves the indoor climate. For sure a good feeling.
PRODUCT GROUPS

Outdoor blinds & exterior Venetian blinds

Roller shutters

Awnings

Pergolas

Facade blinds

Conservatory blinds

Interior blinds

Insect screens

Solutions for building shells

Control devices