



**These instructions must be read
before installation
and use!**



HELLA

Outdoor blinds / exterior Venetian blinds in the facade system – aluminium channel canted self-supporting

- Operating Guidelines
- Installation instructions

Preliminary remarks HELLA

Outdoor blinds / exterior Venetian blinds in the facade system – aluminium channel canted self-supporting

With this HELLA product you have opted for a high-quality product with a most up-to-date technology that can nevertheless be easily installed and operated. In these instructions we describe the basic installation, commissioning and use.

- For authorized specialist staff
- For the consumer (user)

Please refer to the enclosed installation instruction and instructions for use for outdoor blinds / venetian blinds for additional information and notes regarding HELLA outdoor blinds / venetian blinds.

The following symbols will assist you with the installation or use and require a safety-conscious conduct:



Attention!

This symbol indicates instructions that, if disregarded, can put the user in danger.



Attention!

This symbol indicates instructions that, if disregarded, can potentially result in damage to the product.



This symbol indicates instructions for use or helpful information.



This symbol requires you to act.



Attention!

This symbol indicates a risk of injury or danger to life due to an electric shock.



This symbol indicates parts of the product, for which you will find important information in these installation instructions.

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General notes

➤ Questions

In case of questions concerning the installation or the use of your product, please consult your authorized specialist shop.

➤ Spare parts / repairs

Spare parts are available at your HELLA specialist shop. Only spare parts that are approved by HELLA are allowed to be used.

➤ Liability

In case of non-observance of the directions and information given in these instructions and in case of improper operation or unintended use, the manufacturer shall not accept any warranty claims concerning any damage to the product. In these cases the liability for consequential damage to any parts or persons is ruled out as well.

➤ Legal notes

The graphs and texts of these instructions were carefully prepared. We cannot be held liable for any errors and their potential consequences! Subject to technical modifications to the product and to these instructions! These instructions include copyrighted information. All rights reserved! The listed product or brand names are trademarks of the respective owners.

CE identification

The HELLA outdoor blinds / exterior Venetian blinds in combination with canted U-channels, without and with Blitzraffer system, as well as in the wind-resistant design, are in compliance with the declaration of performance according to the Construction Products Regulation; if the units are operated with a motor drive they additionally are in compliance with the Machinery Directive and the Guideline for Electromagnetic Compatibility; in case of proper use, they correspond to the basic requirements of the harmonised standard EN 13659. The respective declarations are deposited with the manufacturers. For additionally information, especially with regard to the CE marking, please refer to the enclosed installation instructions and instructions for use for outdoor blinds / exterior Venetian blinds.

The product mounted meets the requirements only, if

- ➔ during installation the information and instructions given in these instructions as well as the information and instructions of the manufacturers of the screws have been observed,
- ➔ the product is installed with the recommended type and number of fasteners / screws.

Safety instructions



These installation instructions refer to prefabricated elements, that (1) for 100% are made from parts, which are defined by us, and (2) which are made in manufacturing processes, which are defined by us too; in all other cases we do not provide any guarantee!

The safety instructions as well as the appropriate instructions must be read carefully before installation and use. In case of non-observance of the directions and information given in these instructions and in case of improper operation or unintended use, the manufacturer shall not accept any warranty claims concerning any damage to the product. In these cases the liability for consequential damage to any parts or persons is ruled out as well.



- Follow the described installation steps and pay attention to recommendations and notes.
- Keep these instructions in a safe place.
- All installation and removal works, as well as maintenance and repair works are only allowed to be carried out by authorised and qualified specialist staff.
- If switching, automatic or radio control devices are used to operate the units, the information given in the enclosed instructions of the manufacturer must be observed.
- During operation do not put your hand into or touch movable parts.
- Ensure that clothing or body parts cannot get caught on the unit.
- Observe the regulations for prevention of accidents of the employer's liability insurance association!
- Before operation check the unit for visible damage. If the unit is damaged, it should not be used; please consult authorized specialist staff immediately.
- Risk of injury and accident due to the weight of the product!
- Take safety measures against the danger of squashing, especially when operating the unit with automatic devices.



Danger of suffocation!

Ensure that the foil cannot get into the hands of children. Keep the foil in a safe place.



Wind load:

Higher load of the channel with strong wind.

Tighten the mounting screws with adequate effort.



Further information and notes, especially with reference to the safe handling and use of the system, can be found in the accompanying installation and operating instructions for outdoor blinds / exterior Venetian blinds.

Before installation



Check the product immediately for possible shipping damage and for compliance with the delivery receipt.



If parts are missing or damaged, please consult your supplier immediately.



Check the fixing foundation and make sure that the fixing material to be used complies with the given conditions, to guarantee a correct installation. In case of doubt, please seek advice from a specialist enterprise for fixing techniques.



The packaging cardboard box should not be exposed to humidity. To protect it from rain during transport, it should be covered by a foil.



Carry larger units by two persons. Transport and store the units carefully to prevent damage.



Remove the packaging material carefully; if using a knife, ensure that the contents of the package do not get damaged!



Dispose of the packaging material via recycling.



Caution!

A wrong installation can endanger the user seriously. Please strictly observe the installation instructions. Close off the place of installation.



When working at higher altitudes, there is danger of fall hazards. In these cases suitable ascent supports, scaffoldings and fall protection devices are to be used. Please make sure that the ascent supports stand solidly and provide a firm grip.

Overview: Tools for the installation



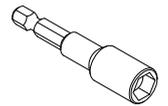
Battery-powered drill

Depending on the mounting base (Bit AW 20, AW 25)
Bit lengthening



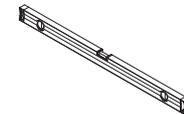
Drilling bit

Drill set
acc. to Mounting base



Bit holder

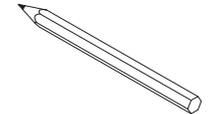
AF 3/8 inch



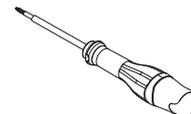
Level



Measuring tape



Pencil



Torx Screwdriver

TX25 - AW20 is possible as well



Open-jawed spanner

AF13 (or ratchet with socket)
AF13
AF10



Allen key

4 mm
2.5 mm

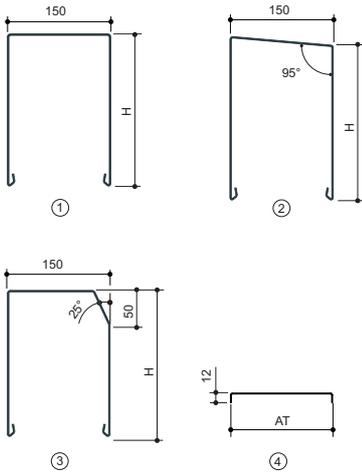


Blind rivetting tongs

for ø3.2 mm rivets

Overview: U-channels and coverings

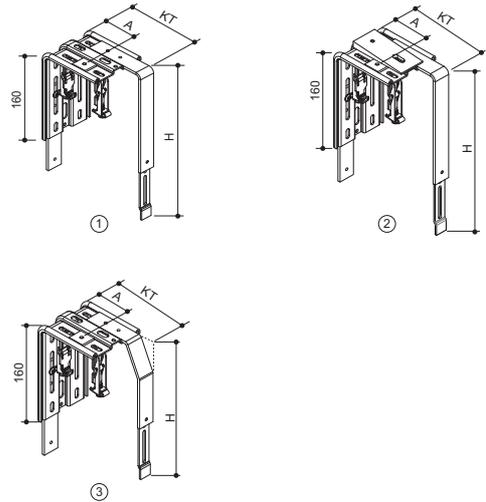
Overview of shapes



Legend

- ① U-channel form 7
 - ② U-channel form 8
 - ③ U-channel form 9
 - ④ Covering at the bottom Form 10-2 for U-channels
- H Channel height
AT Covering depth

Overview: Combined top board bracket



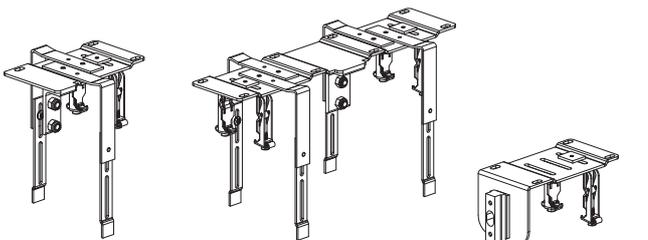
Legend

- | Bracket design model | Suitable U-channels |
|----------------------|---------------------|
| ① KBT 8 | Form 7 |
| ② KBT 9 | Form 8 |
| ③ KBT 10 | Form 9 |
- A Distance measure
H Channel height
KT Channel depth

Note: By default, the brackets are preassembled in the factory.

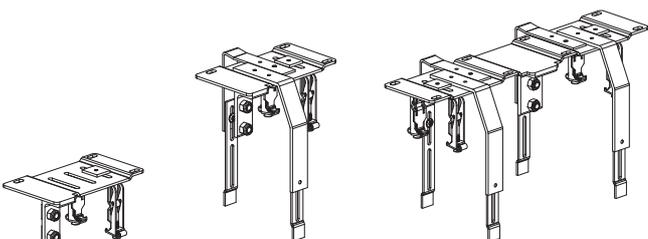
Overview: Bracket for U-channel

U-channel Form 7 self-supporting



- UKFT1**
(U-channel fixed to inside lying single guide rails, without lateral covering)
- UKFT2**
(U-channel fixed to inside lying guide rails, butt joint)
- UKFT3**
(U-channel between the guide rails)

U-channel Form 7 self-supporting



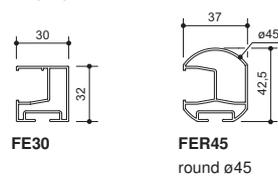
- UKFT4**
(U-channel Form 7, 9 fixed to inside lying single guide rails)
- UKFT5**
(U-channel Form 9 fixed to inside lying single guide rails, without lateral covering)
- UKFT6**
(U-channel Form 9 fixed to the butt-joint of the inside lying single guide rails)

Note: By default, the brackets are preassembled in the factory.

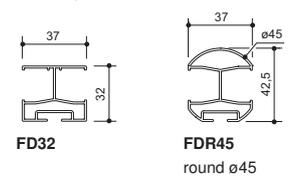
Installation of self-supporting U-channel

Overview Guide Rails

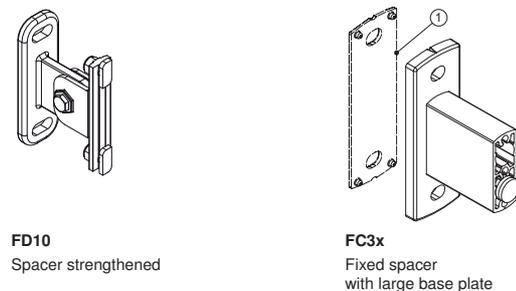
Single guide rails



Double guide rails



Overview of spacers



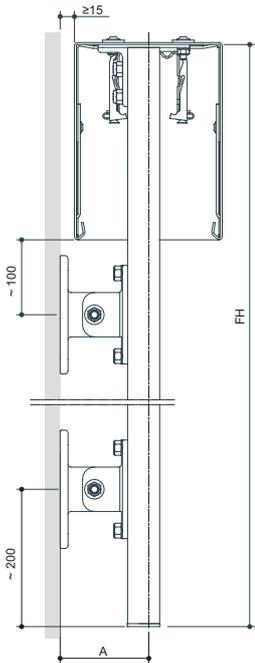
- ① Noise insulating board
- [x] x = 0: without noise insulating board
x = 1: with noise insulating board



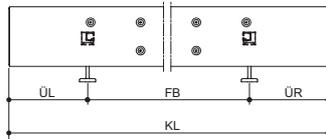
Attention!
Installation of a self-supporting U-channel is only possible with the above-mentioned guide rails and spacers.

Installation of self-supporting U-channel

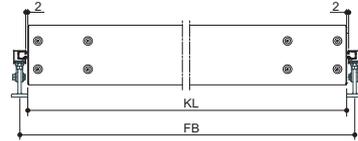
Mounting dimensions



U-channel, self-supporting, situated at the inside lying guide rails



U-channel, self-supporting, situated between the guide rails



Legend

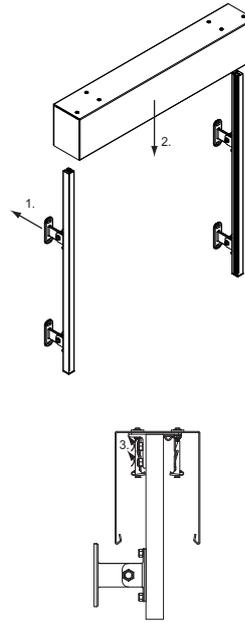
- A Distance measure
- FB Complete width
- FH Complete height
- KL Channel length
- ÜL Excess length on the left side
- ÜR Excess length on the right side

! Definition of the complete height up to the upper edge of the bracket

Installation of self-supporting U-channel

Installation UKFT4 (U-channel Form 7 to inside lying single guide rails)

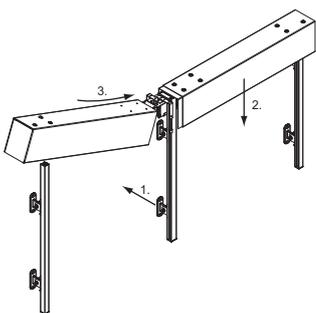
! Instead of the outer combined top board brackets the brackets are used in a self-supporting way (UKFT) as outdoor blind/Venetian blind brackets.



1. Installation of the guide rails according to the definition given in the enclosed installation instructions for outdoor blinds / exterior Venetian blinds.
2. Place the U-channel with the bracket onto the guide rails.
3. Tighten the lock nuts M8.

Installation of self-supporting U-channel

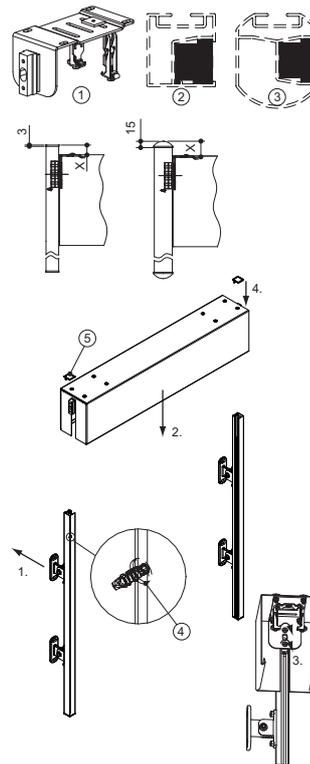
Installation UKFT2 (U-channel Form 7 to inside lying butt joint of the guide rails)



1. Installation of the guide rails in accordance with the definition of the enclosed installation instructions outdoor blinds / exterior Venetian blinds.
Complete height definition up to the upper edge of the bracket
Different installation height of the guide rails Mount double guide rail (FD32, FD45mm) lower because of the crank in UKFT2.
2. Place the left U-channel onto the guide rails and clamp it.
3. As shown in the adjacent image, swing the second U-channel in and clamp it.

Installation of self-supporting U-channel

Installation UKFT3 (U-channel Form 7 between the guide rails)

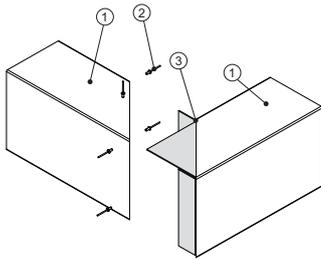


1. Installation of the guide rails according to the definition given in the enclosed installation instructions for outdoor blinds / exterior Venetian blinds. Respect a distance of 2 mm between the U-channel and the guide rail.
2. Insert the channel into the guide rail until it is in contact with the factory-assembled pan-headed drilling screws. **With angular guide rails (FE30, FD32) slot nut with lateral groove. pay attention to the adjustment of the slot nut (groove faces towards the front).**
3. Clamp the channel
4. Installation of the guide rail covering caps

Legend

- ① UKFT3
- ② Slot nut for square designed guide rails
- ③ Slot nut for round designed guide rails
- ④ Self drilling head screw ø3.5x9.5 mm
- ⑤ Covering cap for guide rail
- X Upper edge of the covering cap up to the upper edge of the U-channel

Installation with corner joint



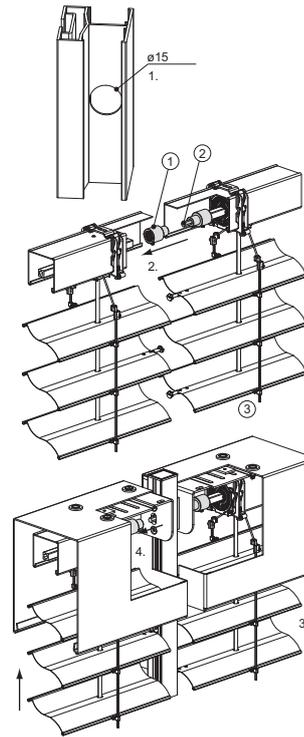
It is possible to fix the corner joint to the inner or outer corner.

Push the U-channels via the corner joint sheet metals flushly together (no space between the top boards). Rivet U-channels with corner joints in the front, at the top and at the back.

Legend

- ① U-channels
- ② Blind rivet $\varnothing 3.2 \times 10 \text{ m AL/AL}$
- ③ Corner joint

Installation of the linkage



1. If the bore holes for the linkage are not provided ex-works, make the bore holes for the linkage ($\varnothing 15 \text{ mm}$) in accordance with the position of the cross shaft.
2. Remove the connection piece from the linking square bar and fix it to the cross shaft of the blind to be driven.
3. Place both blinds in the channel and fix them to the vertical brackets.
4. Push the linking square bar through the bore hole for the linkage as well as through the snap-on bracket into the connection piece and clamp it.

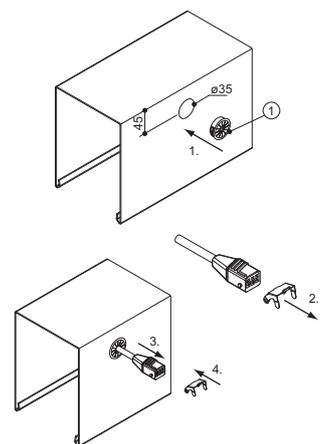


After the installation of the linkage, the bottom rails of both blinds must be positioned at the same height. When commissioning the unit, make sure that the linking square bar is running smoothly. If there are heavy vibrations, a readjustment of the unit is required.

Legend

- ① Connection piece
- ② Linking square bar
- ③ Blind to be driven

Installation of the cable bushing



1. If there is no factory-made bore hole, make the bore hole for the cable duct ($\varnothing 35 \text{ mm}$) and insert the cable bushing.
2. Remove the safety clip from the Hirschmann power connector.
3. Put the cable through the cable bushing.
4. Refit the safety clip to the Hirschmann power connector.

Legend

- ① Cable bushing $\varnothing 35 \text{ mm}$

Commissioning / functional check



Extend and retract the unit in and out completely. When extending the unit for the first time, make sure no one is in the operating radius or standing below the unit.



Make sure that during the later operation the units can be extended freely and without blockings. Do not extend the unit, if objects or persons are in the operating radius of the awning. Please observe the safety instructions. After the first extending check the fixing material and the construction elements for strength.

Automatic control devices or switches, that are not in the operator's field of vision may not be used for test runs with motor drives.



We recommend the use of a test cable for the provisional operation of the motor.



Check all settings.
Check all screwed connections for tightness.

Once again check the strength of the blind brackets on the mounting base.



Attention!

An insufficient fastening of the mounting brackets can cause the collapsing of the unit; there is risk of injury or danger to life!



Clean the elements (see maintenance instructions).



Pass these instructions as well as possible instructions of the motor, switch and control manufacturer on to the user. Brief the user, whereupon you provide comprehensive information on the safety and user instructions of the system. Have the correct design of the system as well as the installation and briefing with the safety information confirmed in writing (see handover report).

Removal



Switch the unit dead and take safety precautions against unintentional switching on.



The removal is carried out in reverse order to the installation.

Handing over report (for the fitter)

Dear Customer,
We are glad that you have opted for a HELLA brand product. Our units are fabricated with greatest care and many years of experience.

Your product
Outdoor blind / exterior venetian blind in the facade system - aluminium channel canted self-supporting
was installed professionally and handed over

on the

The instructions for use and the installation instructions have been handed over and must be read before using the product.
An introduction has taken place.
The safety instructions were pointed out.

Dealer	
Name	Date
Place	Signature

Customer	
Name	First name
Street	House number
Postal code	Place
Date	Signature

Handing over report (for the user)

Dear Customer,
We are glad that you have opted for a HELLA brand product. Our units are fabricated with greatest care and many years of experience.

Your product
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Name	Date
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Customer	
Name	First name
Street	House number
Postal code	Place
Date	Signature



HELLA Interior Venetian Blinds
regulate the lighting in a room very comfortably, immediately gracing it with much more atmosphere.



HELLA Insect Screens
and you decide who is allowed to come in and who isn't.



HELLA Pleated Blind
folds up very compactly and protects very well against the sun and nosy glances where only little space is available.



HELLA Venetian Blinds
serve for the light regulation, as view protection, anti-glare blind and heat protection.



HELLA Front-mounted Roller Shutter
for more safety and protection against rain, wind, heat, the cold, noise and nosy glances, also available for subsequent installation.



HELLA Facade Awning
with exposing mechanism for lovely facade design with perfect heat protection and anti-glare blind.

For questions, wishes and ideas:
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