



# INSECT SCREEN

Technology 2024  
Excerpt from price list

# moveIT

## Product configurator

### Advantages

- Easiest employee training due to the possible and allowed selection of a product
- Saves time and costs
- Reduction of time-consuming product training through selection options and standard storage
- Graphic support in the course of the configuration
- Printed price lists are no longer required
- Products and prices are always up to date
- Ongoing checking of products for feasibility due to comprehensive integrated checks; in this way products that are technically not feasible are excluded
- Orders are immediately digitally forwarded to HELLA, the completion of forms is no longer necessary and thus no transmission errors can occur and manual input is not required
- Tailor-made interfaces to industrial systems
- Data exchange via XML OpenTrans possible

### Configuration of the HELLA products

- Powerful product configurator for sun protection products
- All HELLA products are available in the system
- Safe and guided product data recording for offers and orders
- List price and purchase conditions are stored for our customers, so that the correct customer-specific stored purchase price and thus the margin for our customer is immediately visible at any time.
- A professional offer is immediately available at the push of a button and can be forwarded to the customer

## Available systems

### moveIT@ISS+

- Advanced possibilities for dealers of sun protection products with own customer management
- Management of own articles
- Digital ordering directly from HELLA
- Products are offline available at the customer

### moveIT@EASY

- WEB solution for small dealers of sun protection products
- Easiest offer preparation and digital ordering directly from HELLA
- No software installation

### moveIT@WEB as interface to SBH realised

- Integrated directly in the industry-sector-specific software from SBH
- Offer preparation and order management directly from within SBH
- Digital ordering directly from HELLA

<b>General</b> .....	<b>4</b>
General information.....	4
Standard colors.....	7
Overview insect screen fabrics.....	11
Type overview.....	12
Model overview.....	16
<b>Clamping frame</b> .....	<b>18</b>
<b>Swing frame</b> .....	<b>26</b>
<b>Slide frame</b> .....	<b>32</b>
<b>Pleated blind</b> .....	<b>38</b>
<b>Roller blind</b> .....	<b>44</b>
<b>Pendulum frame</b> .....	<b>50</b>
<b>Light shaft cover</b> .....	<b>56</b>

# General information

The products in this document are customised. Returns, changes or exchanges are not possible. Subject to technical modifications. Color deviations between plastic parts and coated surfaces depend on the material or manufacturing process and cannot be ruled out; the same applies for spare part reorders in anodized colors.

Information on integrated insect screen variants can be found in the respective price lists (roller shutters, outdoor blinds & Venetian blinds, vertical awnings).

## Notes on production tolerances

HELLA products are custom-made. Returns, changes or exchanges are not possible. Subject to technical modifications.

Please note that despite millimetre-precise production, tolerances can be found on the finished product. These tolerances refer to the cutting dimensions and not to the finished dimensions of the curtains.

Ordering dimension [mm]	Tolerance [mm]
≤2000	±1.5
≤4000	±2
≤5000	±3
≤6000	±5

## Assessment of the product features

For the assessment of the product features of inset screen, we recommend the guidelines of the IVRSA (Industrievereinigung Rolladen-Sonnenschutz.-Automation e.V.). See homepage [www.ivrsa.de](http://www.ivrsa.de).



Guideline on product features of insect protection. (Source: IVRSA)

## Definition insect screen

In the guideline "Product characteristics insect screen" provided by the IVRSA Industrial Association / Professional Association Sun Protection Technology, the insect screen is defined as follows:

The insect screen fabric can be lowered, rolled up or pushed shut, if required. To ensure the rolling up, the lowering or the pushing shut, the product may not close completely resulting in a - small - gap between the insect screen fabric and the guide groove towards the adjacent building parts or structure. The often used sealing brushes improve the sealing, but provide only small space for the motions of the gauze. Primarily an insect screen has the function to prevent flying insects from entering the interior. This works best with so called hymenopterans, which due to their filigrane physique can not crawl through the eventually available sealing brush. Bugs, firebugs, woodlice, spiders and other crawlers can not be kept off completely, because they can enter through the spaces between gauze, sealing brushes or gaps. A 100% protection, quasi the creation of an insect-free interior, can therefore not be guaranteed with moveable insect screens. This may also happen with fixed elements like clamping frames or sliding units, but only via the brushes used. As a basic principle, all elements should be planned and designed in such a way, that there is no unprotected gap towards the structure, through which the insect might enter. But it must be stated, that it is not possible to create a 100% insect-free interior, even if the elements are provided with brushes.



## Lifespan class according to DIN EN 13659

HELLA products are designed for a particularly long service life. They fulfil service life class 2 or 3 as standard. Our motor-driven HELLA outdoor blinds/Venetian blinds and roller shutters fulfil the highest service life class (class 3). According to DIN EN 13659, 10,000 cycles of extension/retraction and 20,000 cycles of turning are required. In practice, this corresponds to a service life of 15 years with two cycles per day. This means that our products and technical features meet the highest quality requirements.

## Mounting of the products.

The screw material defined in the standard for the respective mounting base is an exemplary recommendation of HELLA, as long as no special requirements, such as ETA certificates, are demanded. Generally already during the planning stage, but before the installation at the latest, it must be checked, if the defined mounting material is suitable for the installation. The processing instructions from the fixing material manufacturer must be observed.

## Corrosion

HELLA products achieve the corrosion classes described in the respective product standard. However, under extreme conditions (e.g. near the coast), corrosion of exposed stainless steel, powder-coated, chrome-plated or galvanised components may occur.

Compliance with the coating specification does not guarantee reliable prevention of filiform corrosion at profile and cut edges. Especially under the following conditions, filiform corrosion cannot be excluded:

- On the coast or in regions close to the coast, up to approx. 75 kilometres from the coast.
- In special places with aggressive atmospheres (indoor swimming pools, airports, railway stations)
- Near industrial plants with chemical air pollution
- Near exhaust systems or roads with heavy traffic (de-icing salt)

## Products in the area of escape routes

Sun protection systems without special equipment must not be installed in the area of escape routes, as they cannot be raised in the event of a power failure, for example, and block escape routes.

There is an IVRSA guideline "Sun protection in escape routes" with recommendations. In principle, there are no clear specifications for the installation of sun protection in escape routes.

**The planning of an escape route (including the second escape route) must always be coordinated and approved by the planner responsible for the building with the relevant authorities.**

## Planning information

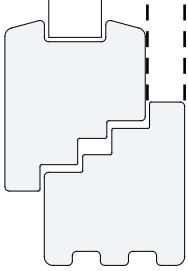
The illustrations in this documentation are general recommendations which depict the installation situations schematically. The illustrations do not release anyone from the obligation to check individually, if his project is implementable and complete. Surrounding structures are depicted only schematically.

All allowances and assumptions have to be adapted to local conditions. Plaster or connection of the reinforcement of the base board to the insulation / wall has to be carried out according to the standards and directives by the client.

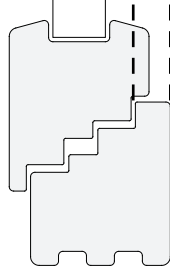
# General information

## Definition of window designs

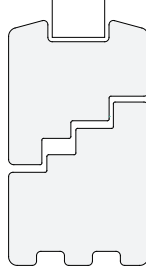
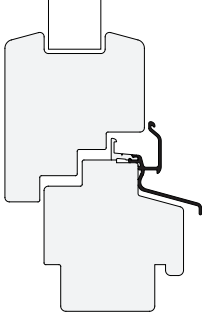
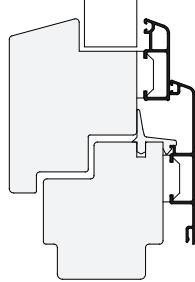
Recessed



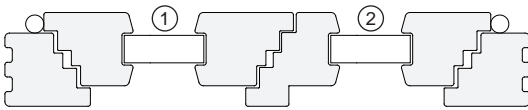
Half recessed



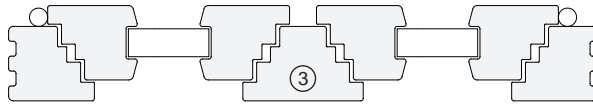
Flush with the adjacent areas

Weatherboard  
(with windows made of  
wood-profiles)Aluminium tray  
(with wooden or plastic  
windows frames)

Double-winged with active leaf ① and non-active leaf ②



Double-winged with middle transom ③



## Sealing brushes

Color: black

**Base width 4.8-5 mm**  
for slide frame, roller blinds cassette and end rod sealing  
inwards

- 15010018 4.8 x 6 mm
- 15010026 4.8 x 9 mm
- 15010023 5 x 15 mm
- 15010033 5 x 20 mm
- 15010032 4.8 x 25 mm with seam

**Base width 6.7mm**  
for clamping frame, swing frame and end rod sealing  
downwards

- 15010010 6.7 x 6 mm
- 15010025 6.7 x 11 mm
- 15010014 6.7 x 15 mm
- 15010037 6.7 x 25 mm with seam

The effective brush length of a built-in brush is by 3 mm less than the brush length given.

# Standard colors

## General

The colors of the brochure "HELLA Color worlds" are available for all extruded profiles.

### Notes:

- With anodized units the visible parts made of cast aluminium are powder coated in an anodising look.
- With anodized units there are longer delivery times (delivery time on request or as per order confirmation).
- As described in standard DIN 17611, slight color differences cannot be avoided with anodized parts. These color deviations are attributable to admissible dispersions depending on the material and processing. Under some circumstances this effect may also occur within one order.

## Coating quality

We coat the surfaces in facade quality according to the guidelines of the Gütegemeinschaft für Stückgutbeschichtung (= Quality Control Association for the Coating of Building Components; GSB-Premium).

Regarding color shade and brightness our colors may differ from the original colors of the color charts RAL 840-HR and RAL 841-GL due to different production techniques.

Due to weathering, a natural influence on the color and the gloss level will occur within the warranty period, which, because of its very slow and constant process, do not negatively affect the visual appearance and is therefore not a fault of the product.

The compliance with the coating specifications does not ensure the prevention of filiform corrosion at profile and cutting edges, especially in chloride-containing environments like maritime regions or regions near the coast. Especially under the following conditions, filiform corrosion cannot be excluded:

- On the coast or in regions close to the coast, up to approx. 75 kilometres from the coast.
- In special places with aggressive atmospheres (indoor swimming pools, airports, railway stations)
- Near industrial plants with chemical air pollution
- Near exhaust systems or roads with heavy traffic (de-icing salt)

## Changeover of powder numbers IGP series 58 to series 56

IGP Pulvertechnik AG informs that the powder coating series 58 will be changed to the new, more sustainable series 56. According to IGP, the surface quality of the 58 can be guaranteed with the 56 series. The changeover has already begun, will take place in several phases and should be completed by 03/31/2025. Depending on delivery availability, the previous series 58 will therefore still be used or the subsequent new series 56.


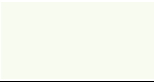





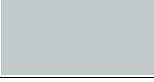





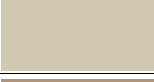






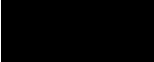
### Information from the IGP:




#### Tested quality

The extensive pilot tests with IGP- DURA@one 56 in industrial operation show that the new product series guarantees excellent processing reliability in all phases of the coating process, as well as attractive surfaces, smooth or textured (identical to series 58). The excellent over baking stability and high gloss stability at different baking temperatures are convincing in all tests. This ensures smooth transition to the new powder coating generation "Highly reactive powder coating series IGP-DURA@one 56".

# Standard colors

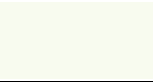













## Standard colors for powder-coated aluminium parts

Color designation			Surface quality		
			Silk gloss	matt	matt, fine texture
Anthracite-grey	RAL 7016		●	●	●
Normal white	RAL 9016		●	●	●
White-aluminium	RAL 9006		●	●	●
Grey-aluminium	RAL 9007		●	●	●
Sepia brown	RAL 8014		●	●	●
Moss-green	RAL 6005		●	●	●
Pearl white	RAL 1013		●	●	●
Light grey	RAL 7035		●	●	●
Granite grey	RAL 7012		●	●	●
Slate grey	RAL 7015		●	●	●
Graphite grey	RAL 7024		●	●	●
Grey-brown	RAL 8019		●	●	●
Bronze	VSR 0780		●		
Beige	0003		●		
Dark beige	VSR 0110		●		
Purple red	VSR 0330		●		
Clay brown	RAL 8003		●		
Anthracite iron mica	DB 703			●	●
Marrone 04 Metallic	DM 1000				●
Sparkling Iron Effect	DM 1001				●
Jet black	RAL 9005			●	●

Color designation			Surface quality		
			Silk gloss	matt	matt, fine texture
<b>Colors in anodized look (powder-coated):</b>					
Natural colored anodized	C0PB			●	
Bronze anodized	C33PB			●	
Dark bronze anodised	C34PB			●	

# Standard colors

## Standard colors for pendulum frame

Color designation			Silk gloss	Surface quality	
				matt	matt, fine texture
Normal white	RAL 9016		*	●	**
Sepia brown	RAL 8014		*	●	**
Ochre brown	RAL 8001		**	●	**
Clay brown	RAL 8003		*	●	**
Natural-coloured anodized	EV1.			●	
Anthracite-grey	RAL 7016		*	●	*
Slate grey	RAL 7015		**	●	**
Granite grey	RAL 7012		**	●	**
Anthracite iron mica	DB 703		**	*	●
White aluminium	RAL 9006		*	**	**
Grey-aluminium	RAL 9007		*	*	**
Grey brown	RAL 8019		*	**	**
Jet black	RAL 9005		**	*	**
Bronze	VSR 0780		*	**	**

### Legend

- \* Standard color for a surcharge
- \*\* Special color for a surcharge

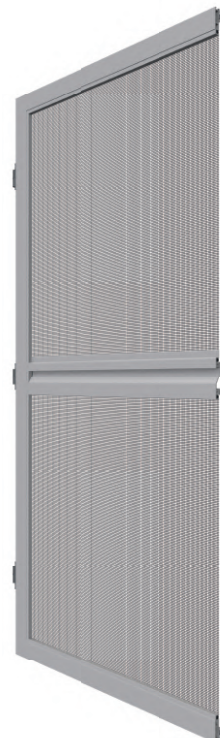
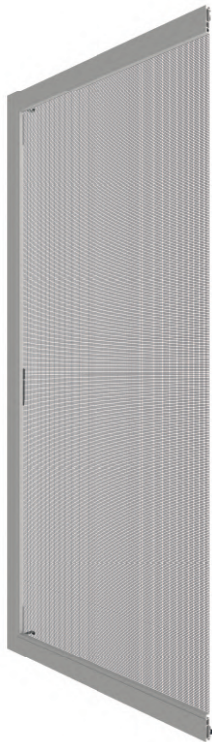
## Standard colors for light shaft cover

Color designation			Silk gloss	Surface quality	
				matt	matt, fine texture
Natural-coloured anodized	EV1.			●	
Grey with mica effect				●	

## Overview insect screen fabrics

	Insect screen fabric Standard	Insect screen fabric VistaScreen	Pollen screen fabric	Insect screen fabric Aluminium	Insect screen fabric Stainless steel	Pet fabric Petable	SOLTIS Horizon 86/Perform 92
Material	Plastic-sheathed fibreglass	Plastic-sheathed fibreglass	Polyester	Aluminium	Stainless steel V2A	Polyester	Plastic-sheathed polyester
Mesh density [threads/inch]	18 x 16	18 x 18	62 x 18	18 x 16	18 x 16	15 x 11	
Mesh size	1.41 x 1.58 mm	1.41 x 1.41 mm	1.37 x 0.41 mm	1.41 x 1.58 mm	1.5 x 1.5 mm	1.49 x 2.54 mm	
Denier	0.28 mm	0.22 mm	0.27/0.24 mm	0.26 mm	0.60 mm	0.64 mm	
Color	black with ISPL others grey	Black	Black	grey	silver	Black	optional
Open area	60%	70%	33%	68%	51%	43%	
Specific features	high tearing strength and weather resistance.	Improved view and air permeability compared with the standard insect screen fabric.	Prevents more than 99% of grass and birch pollen as well as 90% of ambrosia and stinging nettle pollen from entering.	Increased protection against small rodents, better view to the outside than the standard insect screen fabric.	Sturdy fabric, as it is wear-resistant and durable.	High tearing strength for pets.	Visual cover, glare protection Cover shortened and therefore not guided in the guide rail.
Fabric width	2000 mm	1500 mm	1600 mm	1500 mm		1520 mm	1500 mm
ISR	●	●	●	●		●	●
ISD	●	●	●	●		●	
IST	●	●	●	●		●	
IS13	●	●					●
ISPL	●						
PT		●				●	
LA					●		

# Type overview



## Clamping frame ISR

The origin of the insect screen is an insect screen fabric that is clamped to a frame – the so-called clamping frame. A clamping frame is universally adjusted to the corresponding window type and can usually be unhinged by hand without great effort and without tools. Depending on the insect screen fabric used, a clamping frame can also protect against small rodents or pollen.

### Suspension bracket spring-mounted

- Window undrilled
- Space required 15 mm in front of the window
- All window types

### Suspension bracket outside

- Window undrilled
- Space required 15 mm inside the window frame
- Recessed and half recessed windows

### Spring pins

- Window drilled
- Space required 18 mm inside the window frame
- Recessed and half recessed windows

### Installation with screws

- Window drilled
- Space required 12 mm in front of the window
- All window types

## Swing frame ISD

A swing frame is fitted with hinges so that it can be opened in a specified direction.

Swing framed are amongst other things available with the following features:

- Tread plate to be operated per foot, if you have no free hand
- Tread plate optionally with cat flap, so that the pet can easily pass through the insect screen
- Spring lock/cable clamp for a self-closing door

### ISD E - swing frame single

- Space required 15 mm in front of the door
- Brush sealings towards all sides freely selectable
- Door elements without protruding handles and fittings

### ISD Z - swing frame with frame

- Space required 18 mm in front of the door or inside the door frame
- All door elements
- Also available in a double-winged design





**Slide frame IST**

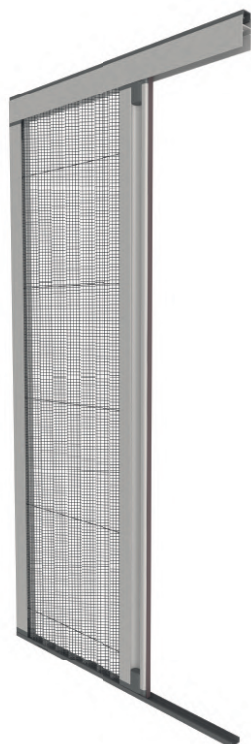
For the slide frame, the same space should be left on the side of the door or window wing that is to be sealed to allow for opening it completely. Because of this, slide frames are only suitable for door and window elements with two or more wings. In that case the frame usually seals the active leaf and is pushed in front of the non-active leaf when it is opened. Due to the very high stability of the slide frame profile, frames up to a frame surface of 4.4 m<sup>2</sup> can be designed without sash-bars.

IST E - slide frame simple

- Space required 17 mm in front of the door
- Door elements without protruding weatherboard
- Also available in a double-winged design

IST Z - slide frame with frame

- Space required 30 mm in front of the door
- All door elements

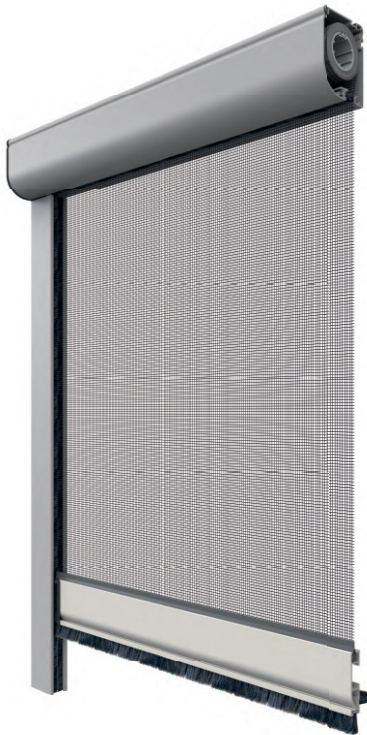


**Pleated insect screen ISPL18**

The pleated insect screen is perfectly suitable for use in confined spaces, because, compared to the swing frame, it does not require a swivelling range. During the winter months the pleated insect screen remains laterally stacked and it is not necessary to unhinge it.

- Space required 18 mm with lateral installation
- Space required 23 mm with installation from the front with optional installation frame
- Window undrilled, if installation frame glued is selected

# Type overview



## Insect roller screen IS13

If the insect screen is opened often, for example to water the plants on the outer window sill, an insect roller screen is the perfect solution due to its quick and convenient operation possibility. During the winter months the roller blind is retracted into the cassette and therefore perfectly protected against snow and ice.

- Space required 43 mm in front of the window
- All window types
- Cassette shape quarter round X or quadratic Q

Besides the stand-alone roller blind variant IS13, the insect roller screen is as integrated version available in different sun protection products. The corresponding details are shown in the documents of the respective sun protection products.

## Pendulum frame PT

Pendulum frames can be opened in both directions; this makes them ideal for doors with high through traffic. The number of our variants covers all door types.

Pendulum frames have the following standard features:

- Installation frame
- Tread plate to be operated per foot, if you have no free hand
- Spring lock for a self-closing door
- Installation depth 13 mm or 5/8 mm depending on type
- Double-wing variant available depending on type

Pendulum frames have the following optional equipment:

- Tread plate with cat flap, so that the pet can easily pass through the insect screen
- Locking the passive leaf (double-wing door)
- Separating cut for second wing (single wing doors)

### PT/5

- Installation depth 13 mm
- all door types, flush or recessed

### PT/5B

- Installation depth 13 mm
- all door types, recessed

### PT/5L

- Installation depth 13 mm
- all door types, recessed

### PT/5D

- Installation depth 13 mm
- all door types, flush or recessed, double-wing

### PT/5DL

- Installation depth 13 mm
- all door types, recessed without threshold, double-wing

### PT/6

- Installation depth 5/8 mm
- all door types, recessed

### PT/6B

- Installation depth 5/8 mm
- all door types, recessed

### PT/6L

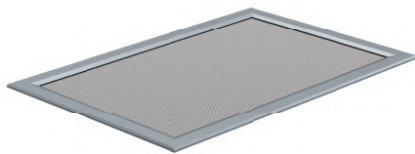
- Installation depth 5/8 mm
- all door types, recessed without threshold

### PT/6D

- Installation depth 5/8 mm
- all door types, recessed, double-wing

### PT/6DL

- Installation depth 5/8 mm
- all door types, recessed without threshold, double-wing



**Light shaft cover LA**

Protect light shaft covers, light- and cellar shafts from leaves, rodents and insects. They also stand out by their high weather resistance as well as light transmission and air permeability. The variant with screw fastening is easy to dismantle and therefore suitable for seasonal use. Square profiles with an installation height of 7 mm are used in the colors EV1 natural-coloured anodised or grey with mica effect.

LA/1S

- 4-sided support
- Light shafts with ground level grating

LA/2S

- 3-sided support with brush on the wall
- Light shafts with ground level grating and wall mounting
- Wall mounting brush lengths 10, 14, 20 mm







LA/3S

- 3-sided support with L-bracket
- Light shafts with projecting window opening up to 90 mm height
- Bracket profile in heights 20, 40, 60, 80, 100 mm

LA/4S

- 3-sided support with upstand
- Light shafts with projecting window opening from 90 mm height
- Upstand in heights from 90-1300 mm

# Model overview

Type designation	Image	Model
ISR – clamping frame		ISR
ISD E– swing frame single		ISD E
ISD Z - swing frame with frame		ISD Z
IST E– slide frame simple		IST E
IST Z - slide frame with frame		IST Z
ISPL18 – pleated insect screen		ISPL18

Clamping frame



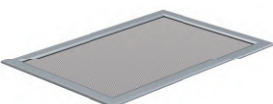
Swing frame

Slide frame

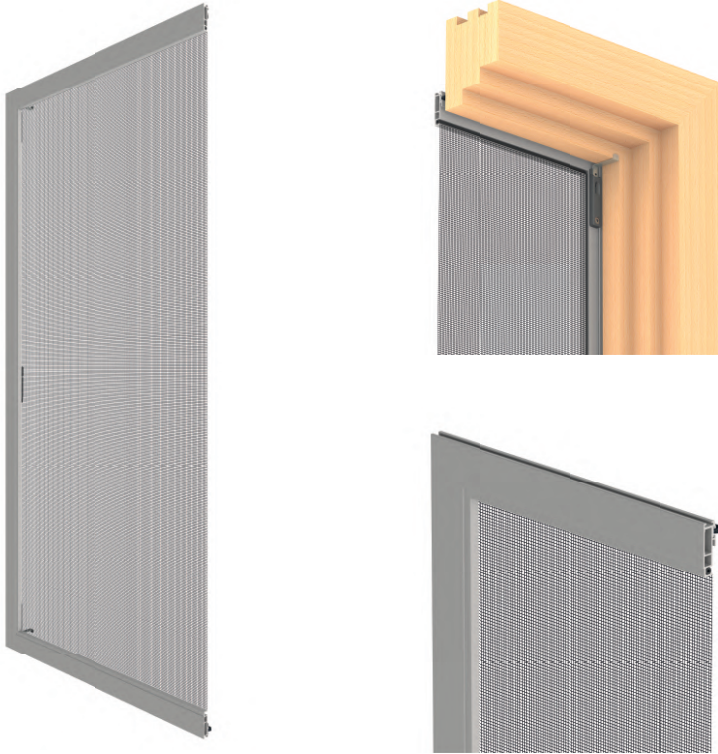
Pleated blind

Roller blind

Pendulum frame

Type designation	Image	Model
IS13 – insect roller screen		IS13
PT – pendulum frame		PT
LA – Light shaft cover		LA

# Clamping frame



With the spring-loaded suspension bracket made of 8x1 mm thick stainless steel, the vast majority of mounting situations are covered.

Large selection of different insect screens.

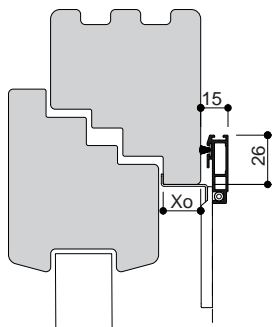
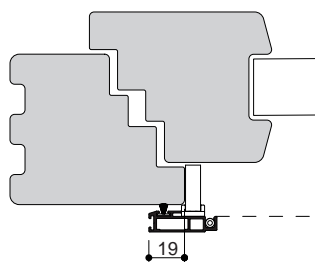
## Limit sizes

Insect screen cover	Min. width [mm]	Max. width [mm]	Min. height [mm]	Max. height [mm]	Max. side length without sash-bars [mm]
<b>Standard</b>	300	2300*	300	2300	1500
<b>VistaScreen</b>	300	2300*	300	2300	1500
<b>Aluminium</b>	300	2000*	300	2000	1300
<b>Petable</b>	300	2000*	300	2000	1300
<b>Pollen screen</b>	300	2000*	300	2000	1000

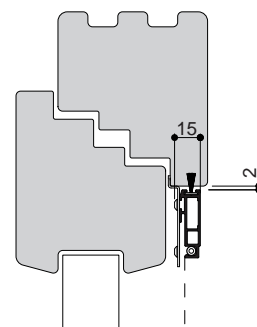
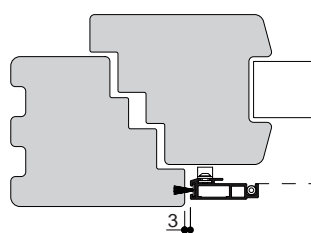
\* With element widths exceeding 1500 mm the lateral handles often can not be reached by a person. Therefore two persons are required for hinging and unhinging. Maximum surface see price list.

### Cross-section profile

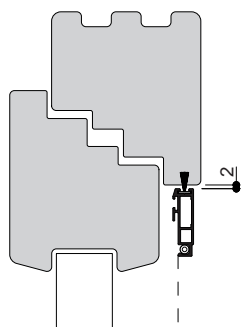
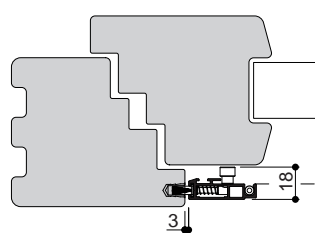
ISR A



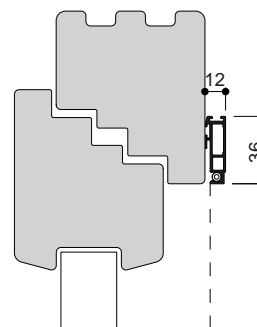
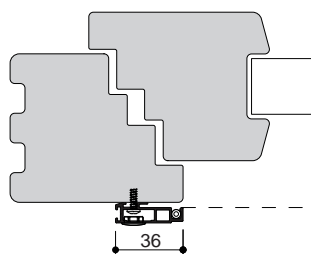
ISR B



ISR C



ISR D



**Legend**

X<sub>0</sub> Thickness of the window frame rabbet at the top

**Scope of delivery**

- Frame with rolled-in, plastic-sheathed fibreglass fabric
- Central sash bar for side lengths exceeding 1501 mm
- Brush sealings
- Operating and fastening elements
- Aluminium parts as per color definition "HELLA Color worlds"
- Mounting material

**Supplementary equipment**

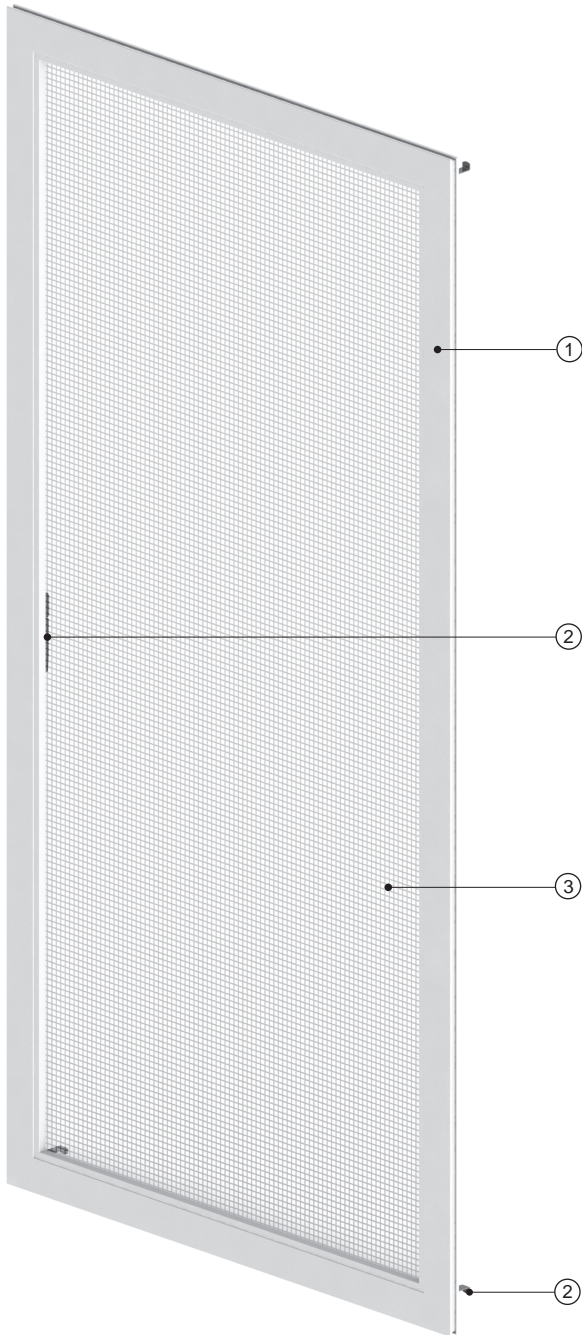
- Additional sash bars
- Aluminium fabric
- Pollen screen fabric
- Insect screen fabric VistaScreen
- Pet fabric Petable
- alternative brush lengths

**Benefits of the product**

- Insect screen optionally unhingeable for seasonal use or fixed for all-the-year use
- Comfort
- Health
- High-quality construction elements guarantee a long lifespan and convenient operation
- Pollen screen (optional)



# Clamping frame



## Field of application

All window types, can be integrated in front-mounted roller shutters or outdoor blinds.

## Installation

Four types of installation can be selected:

- Suspension bracket spring-mounted
- Suspension bracket outside
- Spring pins
- Installation with screws

## Legend

- ① Frame profile
- ② Operating and fastening elements (depending on the type of installation)
- ③ Insect screen fabric



## Technical product description

### Frame

Material	Extruded aluminium
Dimension	36 x 11 mm
Color	Black

#### Description

- Corner detail with mitre cut and discreetly hidden corner joint made of aluminium (glued in place and press-fitted).
- Sealing brushes depending on the type of installation at the rear side or at the front, black coloured

### Sash bar

Material	Extruded aluminium
Dimension	33 x 10 mm

#### Description

- Screwed to frame profile, use depends on insect screen fabric and frame dimensions

### Brush (black)

#### ISR A

- optionally per side 6, 11 (Standard), 15 or 25 mm facing towards the inside; in addition optionally per side 6, 11, 15 or 25 mm on the face side facing towards the outside

#### ISR B/C

- optionally all around 11 (Standard), 15 or 25 mm

#### ISR D

- Standard without brush, optionally per side 6, 11, 15 or 25 mm facing towards the inside and/or on the face side facing towards the outside

### Hinged handle

Material	High-quality plastic
Color	Black

### Installation

- Suspension bracket spring-mounted made of 8x1 mm thick stainless steel, brush sealing at the rear side
- Suspension bracket outside made of 8x1 mm thick stainless steel, brush sealing at the front side
- Spring pins shiny nickel-plated with operation from the inside, brush sealing at the front side
- Vertical frame profile can be screwed to the window frame from the outside (not hingeable)

### Insect screen fabric

- Insect screen fabric made of fibreglass, plastic-sheathed, grey-colored
- Insect screen fabric made of aluminium, blank
- Pollen screen fabric made of polyester, black colored; prevents more than 90% of pollen of any kind from entering
- Insect screen fabric VistaScreen made of fibreglass, plastic-coated, black colored, improved light and air permeability compared with the standard fibreglass fabric
- Insect screen fabric Petable made of strengthened fibreglass, black colored, withstands pet claws.

### Colors

Aluminium parts powder-coated as per color definition "HELLA Color worlds"

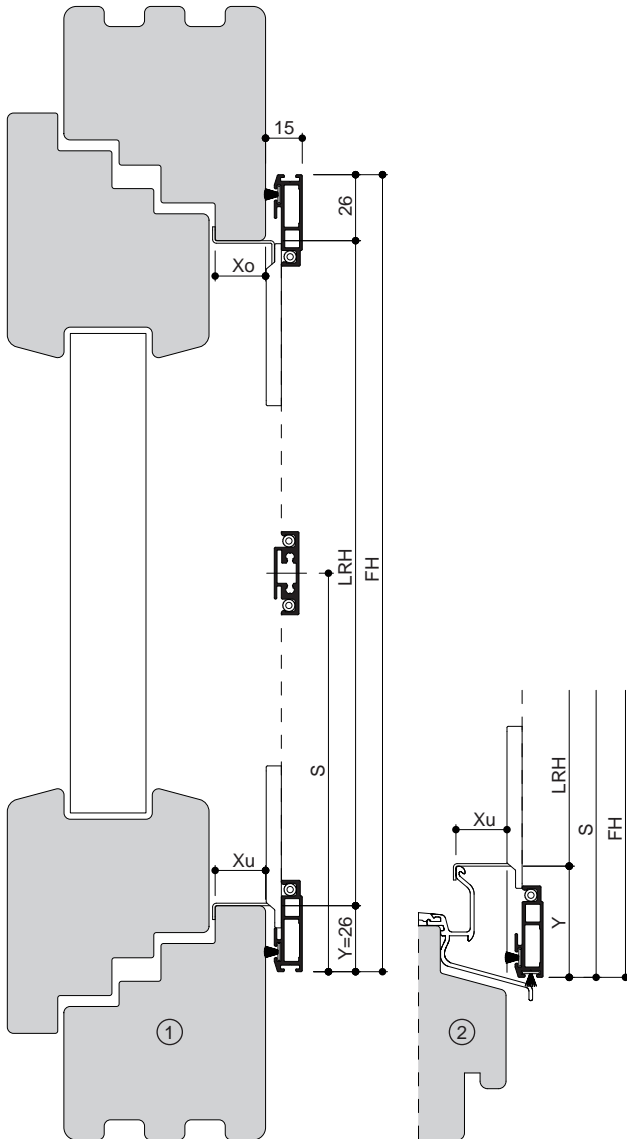
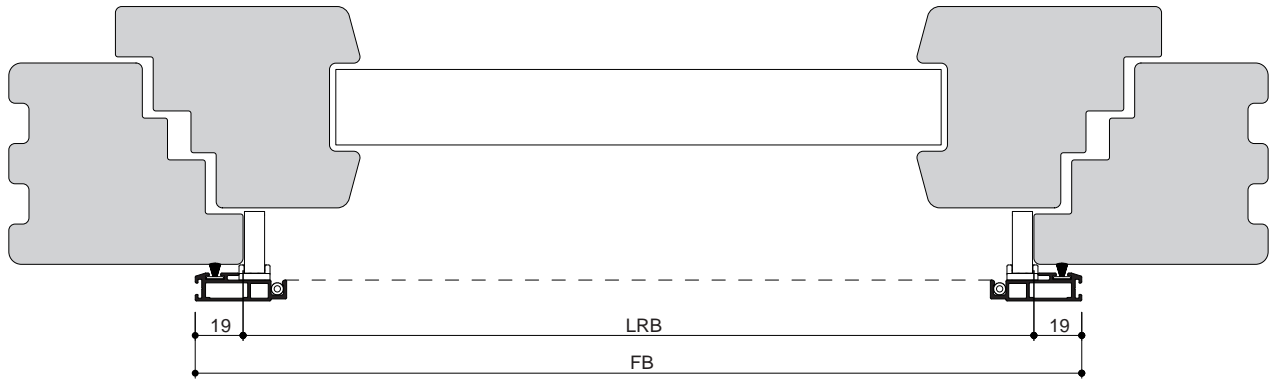
End pieces	Black
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### Special designs

on demand

# Clamping frame

Type: ISR A - suspension bracket spring-mounted



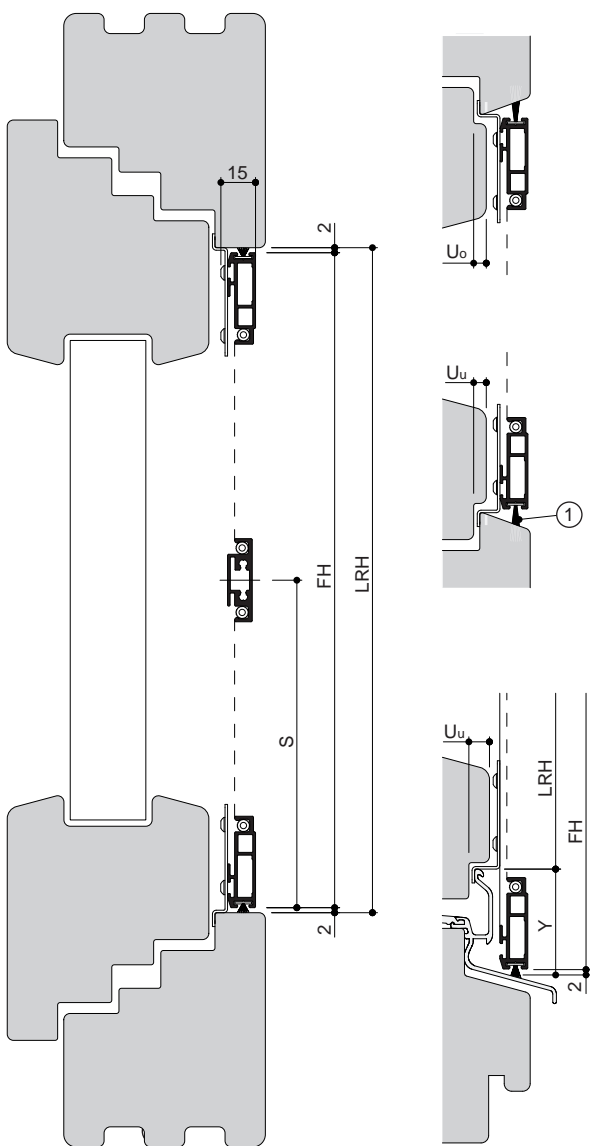
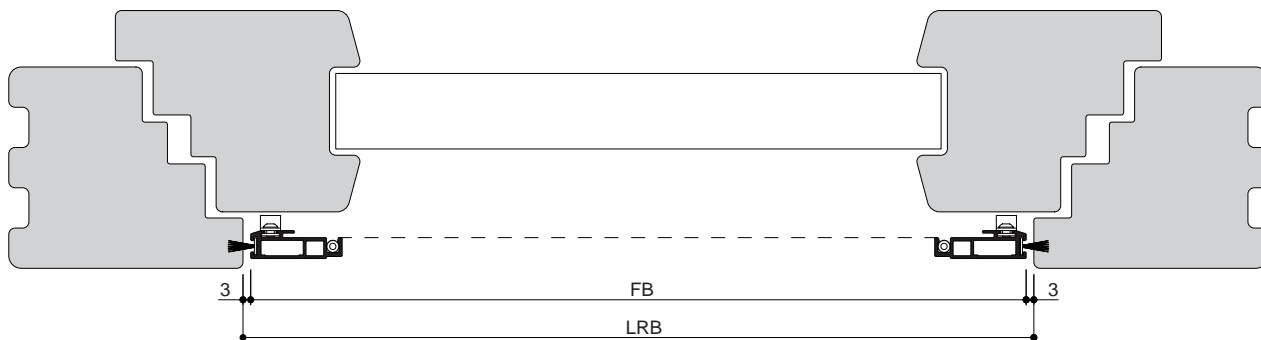
## Notes:

- Works with all types of windows
- Space required 15 mm in front of the window
- 10 mm space required above the frame for unhinging
- Sealing brushes inserted at the front side enlarge the final dimensions on the outside and must therefore be taken into account when specifying the dimensions:
  - 10 mm gap with 15 mm sealing brush
  - 20 mm gap with 25 mm sealing brush
- Via the final dimensions in your order, the lateral support surface of 19 mm can be reduced down to 12 mm, if required. If a brush on the face side is used for lateral sealing, the lateral support surface at the window can be reduced down to 0 mm.

## Legend

- ① Window without weatherboard
- ② Window with weatherboard and special brush 6 mm at the bottom on the face side
- FB Complete width ( $FB = LRB + 38$ )
- FH Complete height ( $FH = LRH + Y + 26$ )
- LRB Clear frame width of the window
- LRH Clear frame height of the window
- S Sash bar position
- $X_0/X_1$  Thickness of the window frame rabet at the top/bottom
  - 1-2 mm: Suspension bracket 5 mm
  - 3-4 mm: Suspension bracket 7 mm
  - 5-6 mm: Suspension bracket 9 mm
  - 7-8 mm: Suspension bracket 11 mm
  - 9-10 mm: Suspension bracket 13 mm
  - 11-12 mm: Suspension bracket 15 mm
  - 13-14 mm: Suspension bracket 17 mm
  - 15-16 mm: Suspension bracket 19 mm
  - 17-18 mm: Suspension bracket 21 mm
  - 19-20 mm: Suspension bracket 23 mm
  - 21-22 mm: Suspension bracket 25 mm
  - 23-25 mm: Suspension bracket 28 mm
  - 26-27 mm: Suspension bracket 30 mm
  - 28-29 mm: Suspension bracket 32 mm
  - 30-31 mm: Suspension bracket 34 mm
- Y Position of the suspension bracket at the bottom (standard 26 mm)

Type: ISR B - suspension bracket outside



Notes:

- Works with recessed and half recessed windows
- Space required 15 mm inside the window frame
- Window frame undrilled

Legend

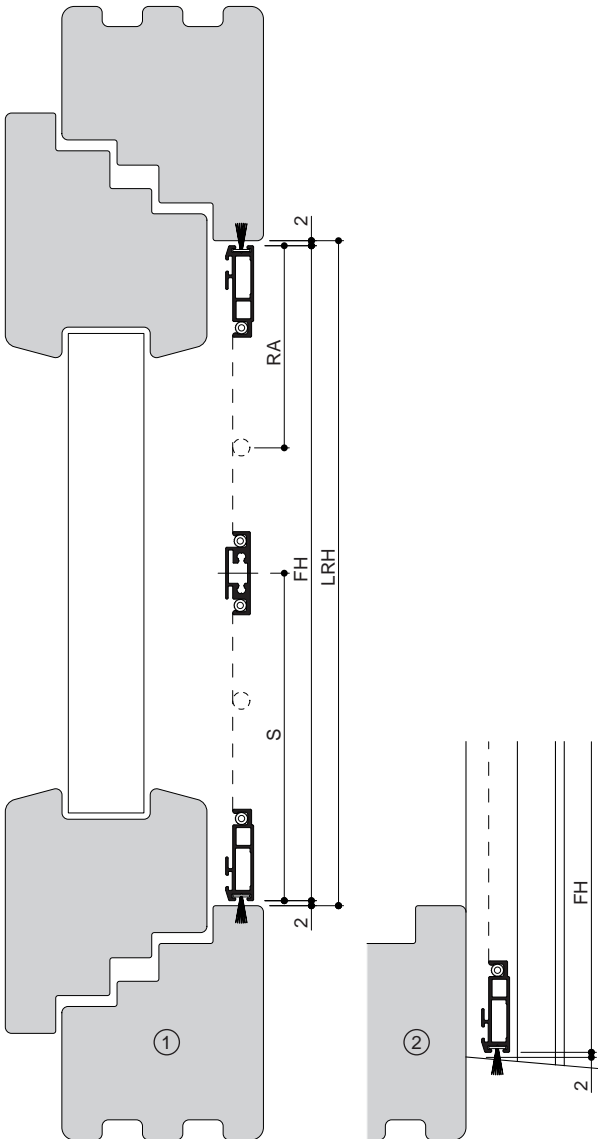
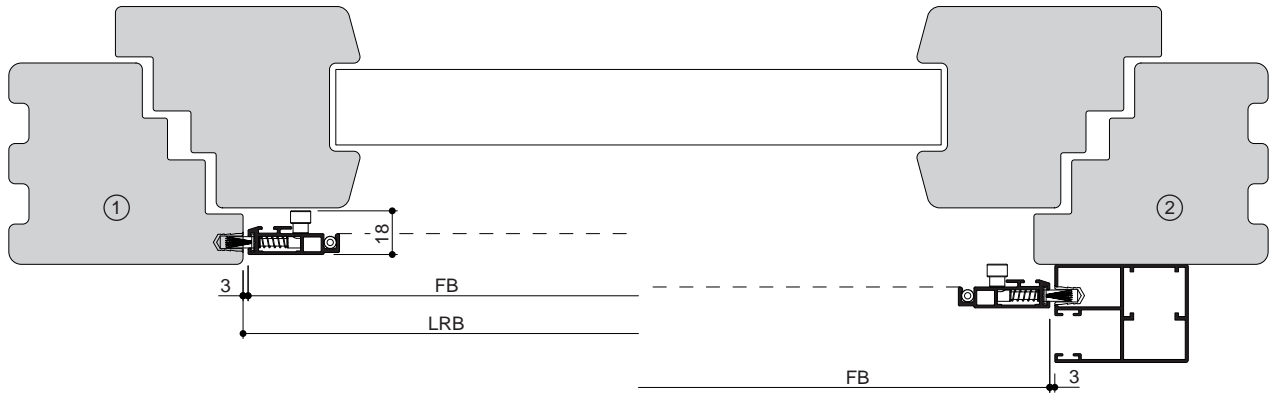
- ① Special brush (15 or 25 mm) all around for windows with a large window frame slant as well as with a large protruding window wing
- FB Complete width ( $FB = LRB - 6$ )
- FH Complete height ( $FH = LRH - 4 + Y$ )
- LRB Clear frame width of the window
- LRH Clear frame height of the window
- S Sash bar position
- Y Position of the suspension bracket at the bottom (standard 0 mm)

Uo/Uu Excess length of the window wing at the top/bottom

- 0-3 mm: Suspension bracket 5 mm
- 4-5 mm: Suspension bracket 7 mm
- 6-7 mm: Suspension bracket 9 mm
- 8-9 mm: Suspension bracket 11 mm
- 10-11 mm: Suspension bracket 13 mm
- 12-13 mm: Suspension bracket 15 mm

# Clamping frame

Type: ISR C - spring pins



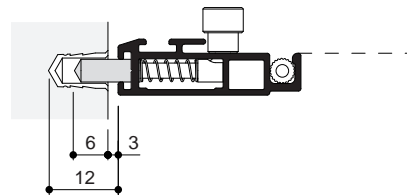
## Notes:

- Works with all types of windows
- Space required 18 mm inside the window frame with recessed windows or in front of the window with windows that are flush with the adjacent areas (installation in the guide rail)

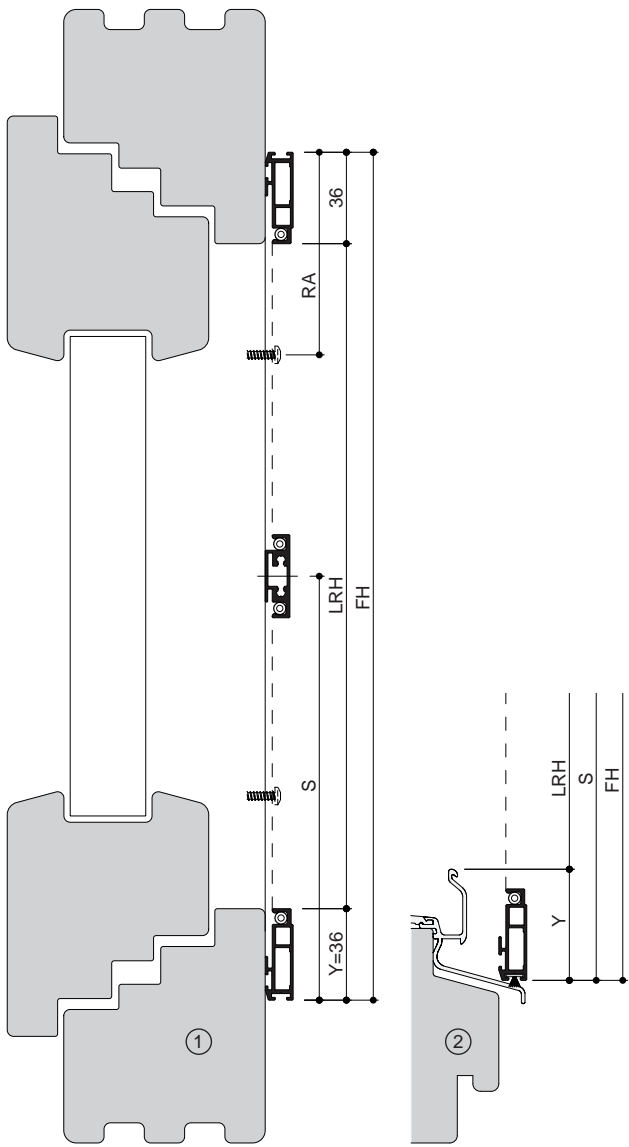
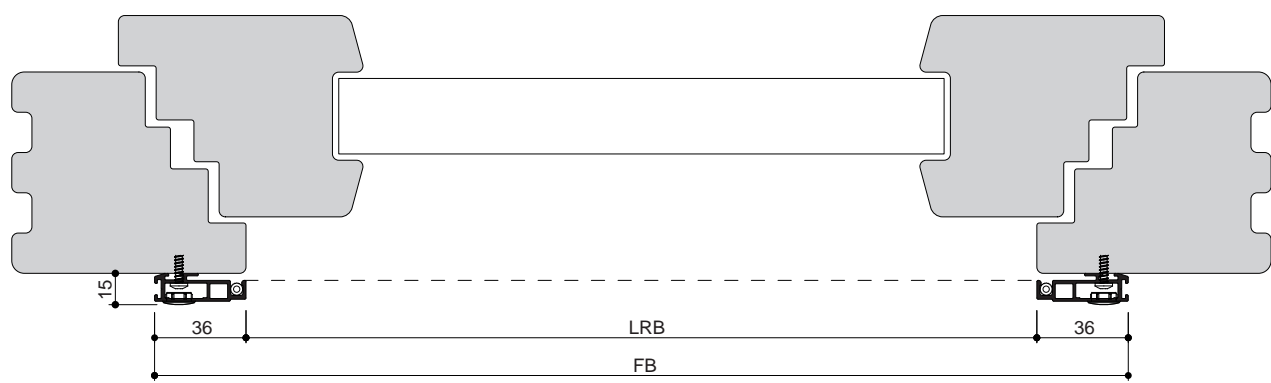
## Legend

- ① Installation inside the window frame rabbet
- ② Installation in the guide rail
- FB Complete width (FB = LRB - 6)
- FH Complete height (FH = LRH - 4)
- LRB Clear frame width of the window
- LRH Clear frame height of the window
- S Sash bar position
- RA Distance from the edge
  - 90 mm till frame height 599 mm
  - 125 mm from frame height 600 mm

## Detail spring pin



Type: ISR D - installation with screws



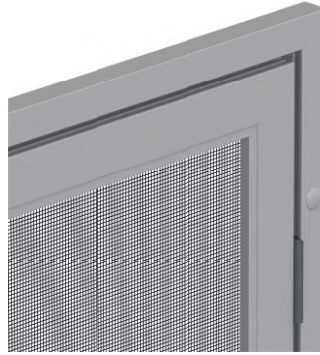
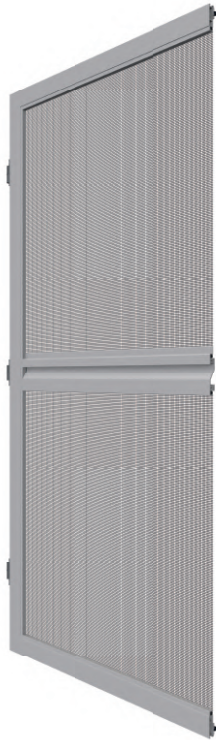
Notes:

- Works with all types of windows
- Space required 15 mm in front of the window
- Frame must be accessible from the outside
- As a standard without sealing brushes
- Sealing brushes inserted at the front side enlarge the final dimensions on the outside and must therefore be taken into account when specifying the dimensions:
  - 10 mm gap with 15 mm sealing brush
  - 20 mm gap with 25 mm sealing brush

Legend

- ① Window without weatherboard
- ② Window with weatherboard and special brush 6 mm at the bottom on the face side
- FB Complete width ( $FB = LRB + 72$ )
- FH Complete height ( $FH = LRH + Y + 36$ )
- LRB Clear frame width of the window
- LRH Clear frame height of the window
- S Sash bar position
- Y Protrusion of the frame at the bottom
- RA Distance from the edge
  - 90 mm till frame height 599 mm
  - 125 mm from frame height 600 mm

# Swing frame



Mounting option with additional frame profile.



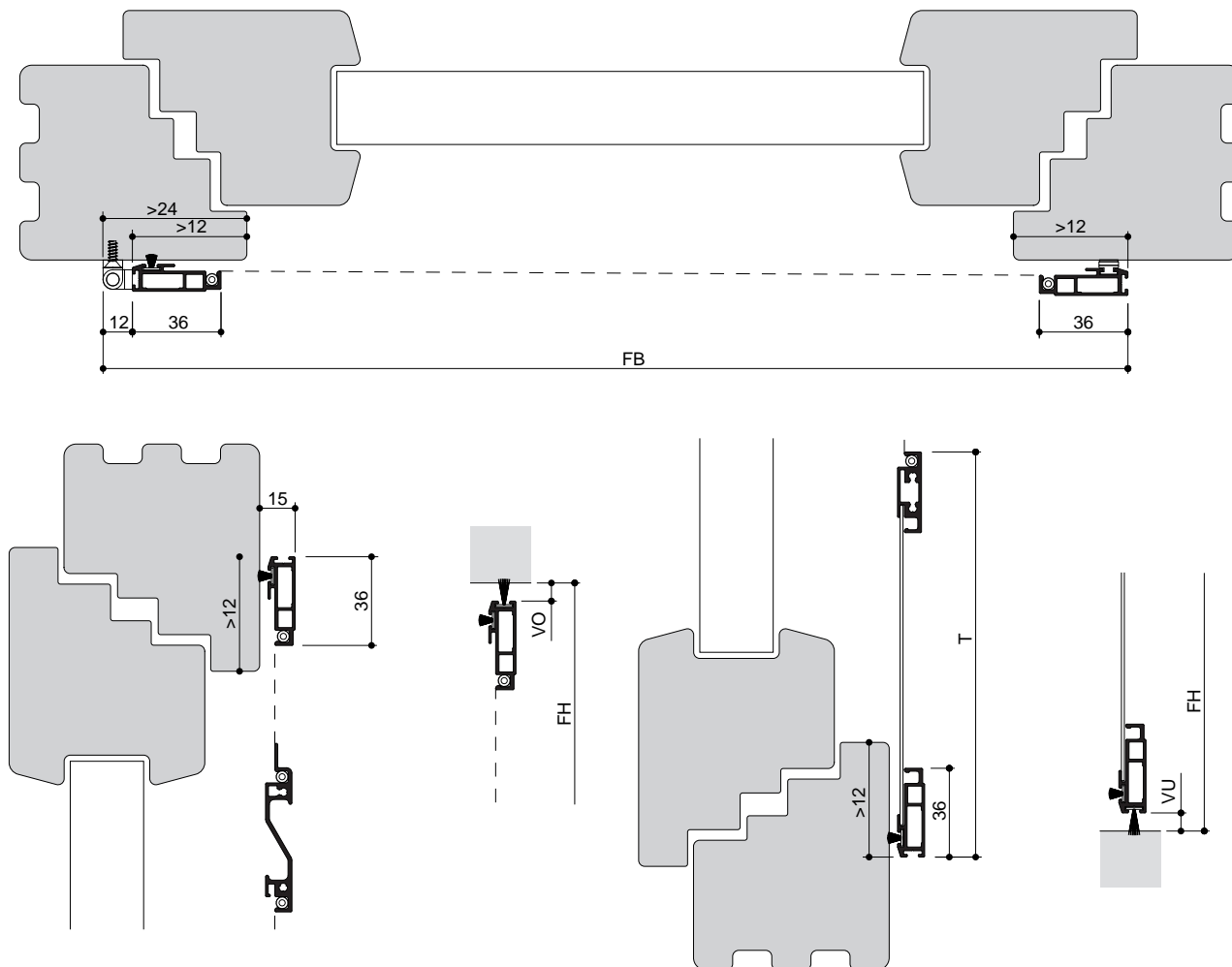
Optionally with step plate or integrated cat flap.

## Limit sizes

Type	Min. width [mm]	Max. width [mm]	Min. height [mm]	Max. height [mm]	Max. surface [m <sup>2</sup> ]
ISD E	300	1500	500	2500	3
ISD Z - single-winged	500	1500	500	2500	3
ISD Z - double-winged	1000	3000	500	2500	6

## Cross-section profile

ISD E



### Legend

- FB Complete width
- FH Complete height
- T Tread plate (optional) 156 mm, 301 mm with cat flap
- VO Shortening at the top (10 mm with 15 mm brush or 20 mm with 25 mm brush)
- VU Shortening at the bottom (10 mm with 15 mm brush or 20 mm with 25 mm brush)

#### Scope of delivery

- Frame with handle bar rolled-in and plastic-sheathed fibreglass fabric
- Brush sealings
- Hinges and magnetic profile
- Frame for design IDS Z
- Aluminium parts as per color definition "HELLA Color worlds"
- Mounting material

#### Supplementary equipment

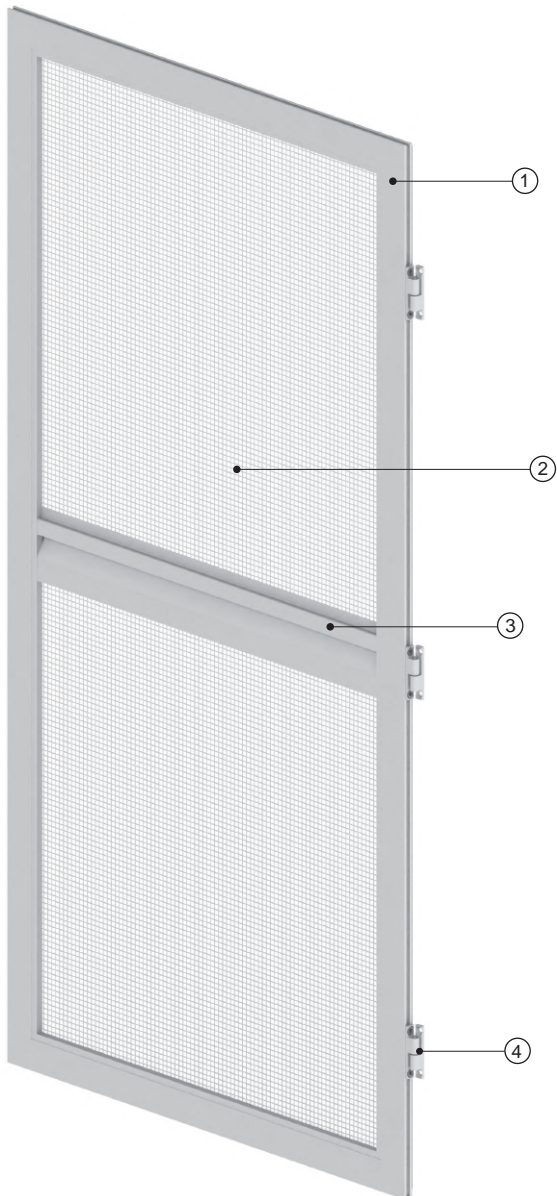
- Spring lock/cable clamp loose
- Tread plate per unit
- Tread plate with 4-way cat flap
- Stainless steel tape instead of self-bonding magnetic profile
- Operating handle loosely enclosed
- Additional sash bars
- Aluminium fabric
- Pollen screen fabric
- Insect screen fabric VistaScreen
- Pet fabric Petable

#### Benefits of the product

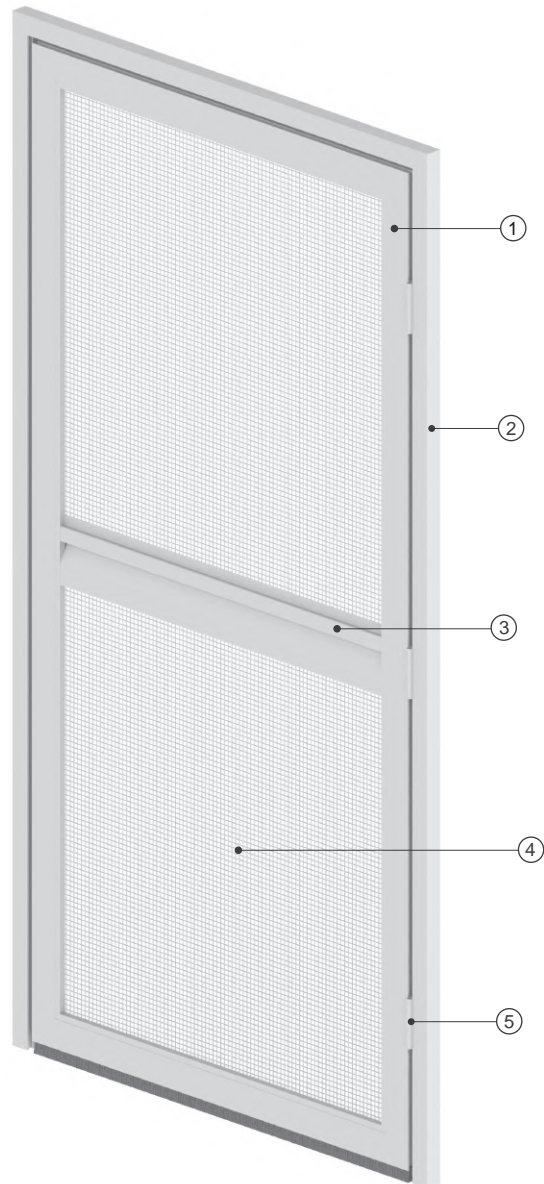
- Rollable insect screen for seasonal use
- Comfort
- Health
- High-quality construction elements guarantee a long lifespan and convenient operation
- Pollen screen (optional)

# Swing frame

ISD E



ISD Z



## Field of application

All balcony and terrace doors without protruding fittings and handles.

## Field of application

All balcony and terrace doors can be integrated in front-mounted roller shutters or outdoor blinds.

## Legend

- ① Frame profile
- ② Insect screen fabric
- ③ Sash-bar profile with gripping groove on both sides
- ④ Hinge

## Legend

- ① Frame profile
- ② Frame profile
- ③ Sash-bar profile with gripping groove on both sides
- ④ Insect screen fabric
- ⑤ Hinge



## Technical product description

### Frame

Material	Extruded aluminium
Dimension	36 x 11 mm
Color	Black

#### Description

- Corner detail with mitre cut and discreetly hidden corner joint made of aluminium (glued in place and press-fitted).
- Sealing brushes depending on the type of installation at the rear side or at the front.

### Frame

#### ISD Z

Material	Extruded aluminium
Dimension	39 x 18 mm

#### Description

- Circumferential frame profile, listed as a stop profile with integrated hinge and magnet holder for the closing function.

### Sash bar

Material	Extruded aluminium
Dimension	69 x 11 mm

#### Description

- Screwed to frame profile, with grooves from both sides

### Brushes (black)

#### ISD E

- optionally per side 6, 11 (Standard), 15 or 25 mm facing towards the inside; in addition optionally 15 or 25 mm on the face side facing towards the top and/or bottom

#### ISD Z single-winged

- 6 mm brush facing towards the inside between frame of the door and door frame; if designed without door frame at the bottom and optionally without, 15 (Standard) or 25 mm brush on the face side facing towards the bottom and optionally without (Standard), 11, 15 or 25 mm brush facing towards the inside

#### ISD Z double-winged

- 6 mm brush facing towards the inside between frame of the door and door frame

### Hinge

Material	Aluminium with stainless steel bolt pressed in on one side
Color	White, black or anodised

#### Description ISD Z

- Inserted an clamped in brush groove on frame and sash side

### Tread plate (optional)

Material	Aluminium 1,2 mm
----------	------------------

#### Description

- Powder-coated from both sides
- Optionally available in special height or with 4-way cat flap

### Operating handle (optional)

Material	Plastic
Color	Black

### Spring lock (optional)

Material	Base plate made of aluminium
Color	White, black or anodised

#### Description

- Torsion spring made of stainless steel
- On the hinge-side at the top with right-hand door, on the hinge-side at the bottom with left-hand door

### Installation

#### ISD E

- By means of three hinges and self-bonding magnetic tape at the window frame; optional: stainless steel tape screwed
- Can be unhinged without tools after the first installation

#### ISD Z

- Screwing of the frame to the door/window frame or laterally in the soffit
- Can be unhinged without tools after the first installation

### Insect screen fabric

- Insect screen fabric made of fibreglass, plastic-sheathed, grey-colored
- Insect screen fabric made of aluminium, blank
- Pollen screen fabric made of polyester, black colored; prevents more than 90% of pollen of any kind from entering
- Insect screen fabric VistaScreen made of fibreglass, plastic-coated, black colored, improved light and air permeability compared with the standard fibreglass fabric
- Insect screen fabric Petable made of strengthened fibreglass, black colored, withstands pet claws.

### Colors

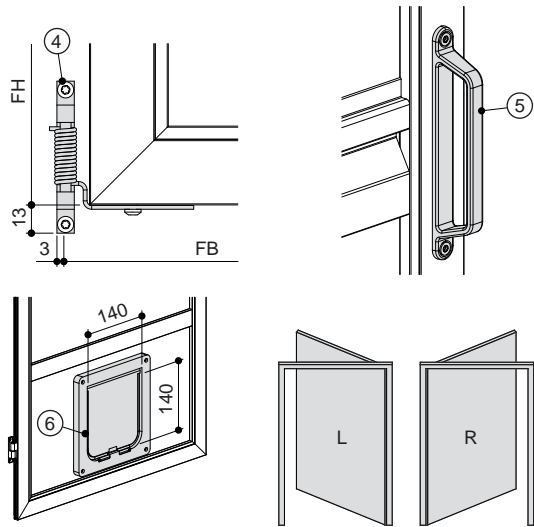
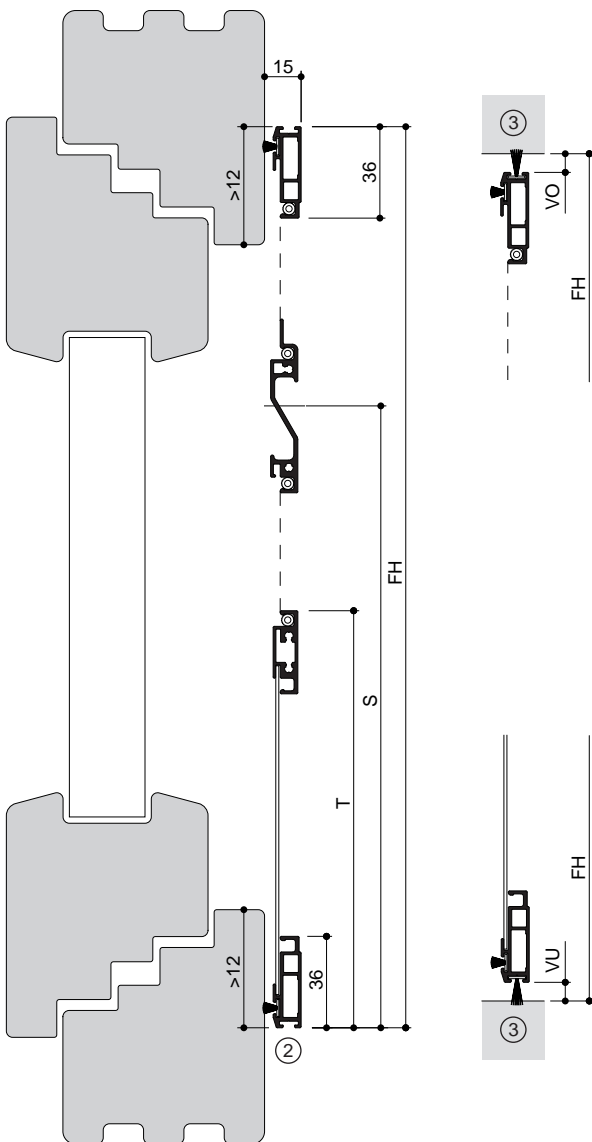
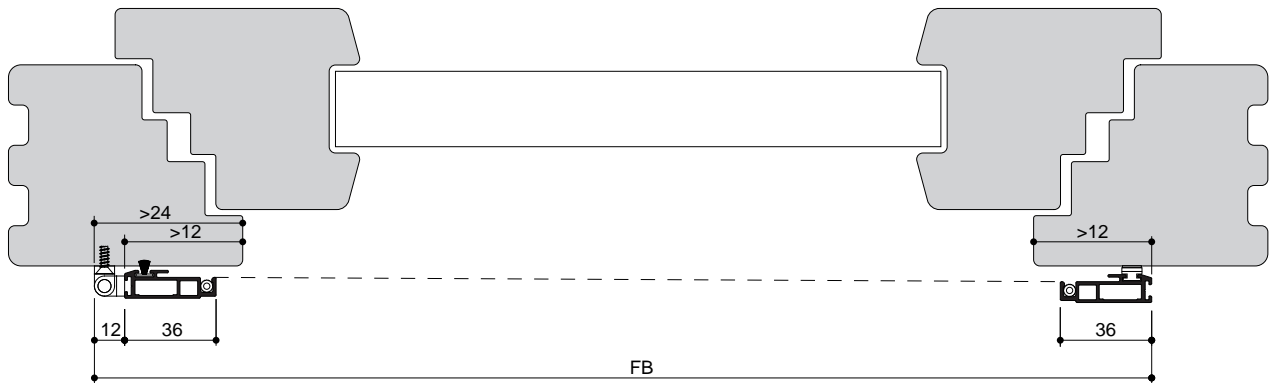
Aluminium parts powder-coated as per color definition "HELLA Color worlds"	
End pieces	Black

### Special designs

on demand

# Swing frame

Type: ISD E



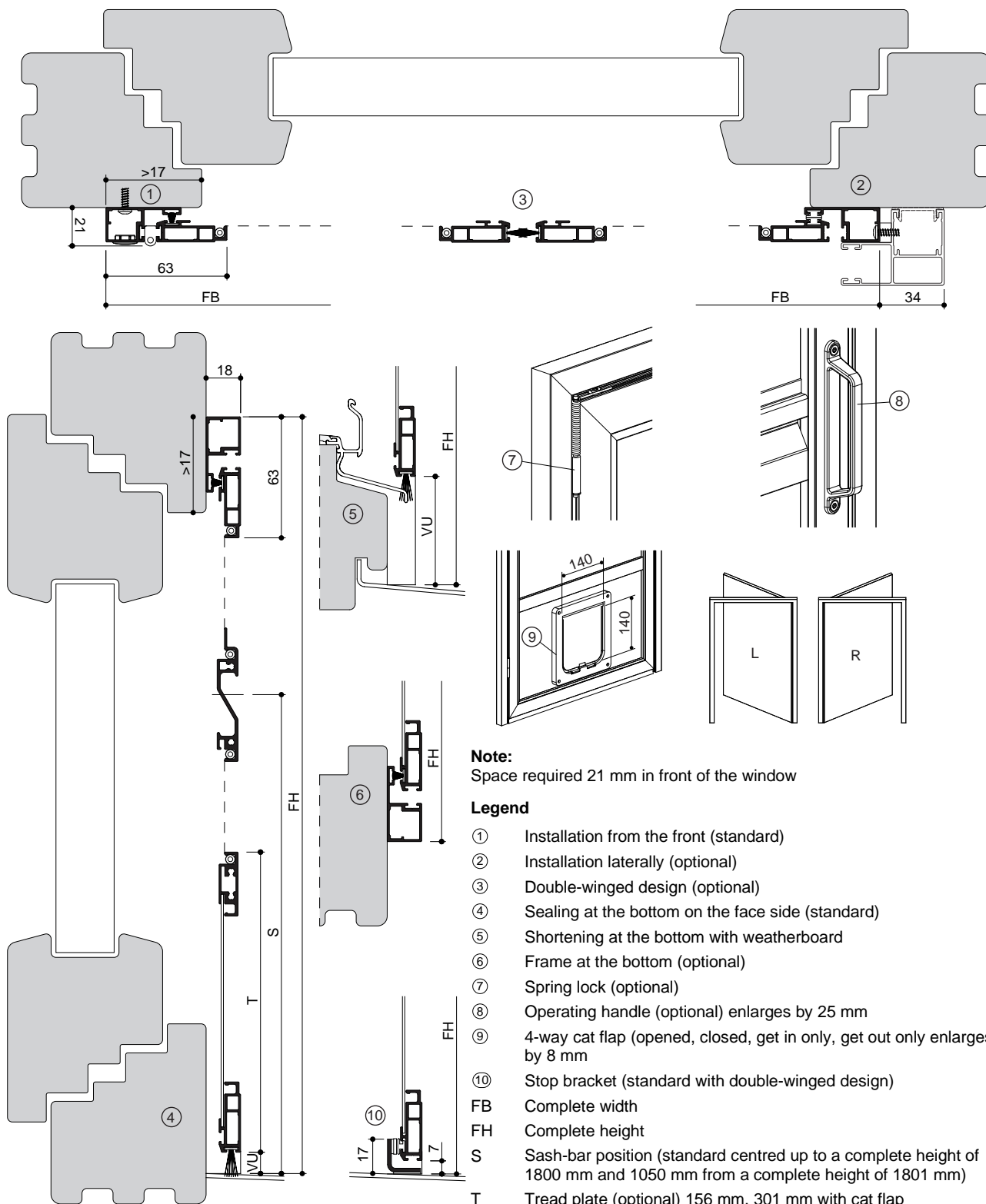
### Notes:

- For doors without protruding fittings and handles
- Space required 15 mm in front of the window
- 15 mm space required above for unhinging

### Legend

- ① Self-bonding magnetic tape (standard) or screwed stainless steel tape (optional)
- ② Sealing towards the inside (standard)
- ③ Special brush at the bottom side or at the face side
- ④ Spring lock (optional) additionally enlarges the width by 3 mm and the height by 13 mm
- ⑤ Operating handle (optional) enlarges by 25 mm
- ⑥ 4-way cat flap (opened, closed, get in only, get out only) enlarges by 8 mm
- FB Complete width (incl. hinge)
- FH Complete height
- VO Shortening at the top (10 mm with 15 mm brush or 20 mm with 25 mm brush)
- VU Shortening at the bottom (10 mm with 15 mm brush or 20 mm with 25 mm brush)
- S Sash-bar position (standard centred up to a complete height of 1800 mm and 1050 mm from a complete height of 1801 mm)
- T Tread plate (optional) 156 mm, 301 mm with cat flap
- L Left-hand door
- R Right-hand door

Type: ISD Z



**Note:**  
Space required 21 mm in front of the window

**Legend**

- ① Installation from the front (standard)
- ② Installation laterally (optional)
- ③ Double-winged design (optional)
- ④ Sealing at the bottom on the face side (standard)
- ⑤ Shortening at the bottom with weatherboard
- ⑥ Frame at the bottom (optional)
- ⑦ Spring lock (optional)
- ⑧ Operating handle (optional) enlarges by 25 mm
- ⑨ 4-way cat flap (opened, closed, get in only, get out only enlarges by 8 mm)
- ⑩ Stop bracket (standard with double-winged design)
- FB Complete width
- FH Complete height
- S Sash-bar position (standard centred up to a complete height of 1800 mm and 1050 mm from a complete height of 1801 mm)
- T Tread plate (optional) 156 mm, 301 mm with cat flap
- L Left-hand door
- R Right-hand door
- VU Shortening at the bottom (Standard 10 mm with 15 mm brush; 20 mm with 25 mm brush)

General

Clamping frame

Swing frame

Slide frame

Pleated blind

Roller blind

Pendulum frame

# Slide frame



Mounting option with additional frame profile.

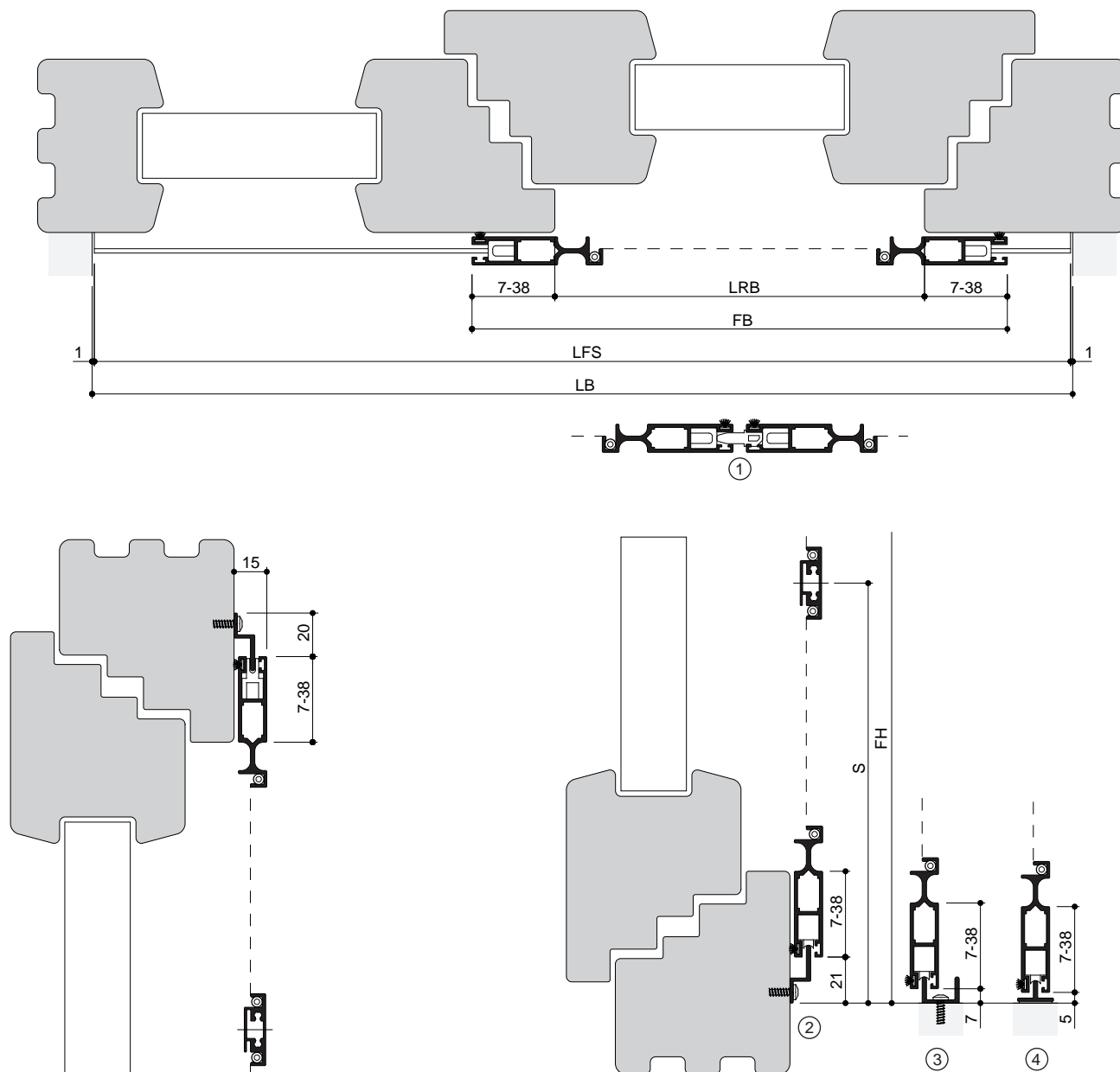
Smooth-running sliding frame due to concealed guide rollers.

## Limit sizes

Insect screen fabric	Min. width [mm]	Max. width [mm]	Min. height [mm]	Max. height [mm]	Max. height without sash-bars [mm]
<b>IST E</b>					
Standard	600	2000	500	2500	2500
VistaScreen	600	1500	500	2500	2500
Aluminium	600	1500	500	2500	1500
Petable	600	1500	500	2500	1500
Pollen screen	600	1500	500	2500	1500
<b>IST Z</b>					
Standard	1200	4000	500	2500	2500
VistaScreen	1200	3000	500	2500	2500
Aluminium	1200	3000	500	2500	1500
Petable	1200	3000	500	2500	1500
Pollen screen	1200	3000	500	2500	1500

### Cross-section profile

IST E



**Legend**

- FB Complete width
- FH Complete height
- LB Clear width
- LRB Clear frame width of the window
- S Sash bar position
- LFS Length of the slide rails

- ① Double-winged design (optional) with sealing profile in the middle
- ② Z-shaped profile at the bottom for installation from the front
- ③ U-profile bottom for mounting downwards (Sloping mounting surface up to 10°)
- ④ T-shaped profile at the bottom for fastening via adhesive tape towards the bottom side

**Scope of delivery**

- Frame with handle bar rolled-in and plastic-sheathed fiberglass fabric
- Brush sealings
- Guide rollers and slide rails
- Frame for design IST Z
- Aluminium parts as per color definition "HELLA Color worlds"
- Mounting material

**Supplementary equipment**

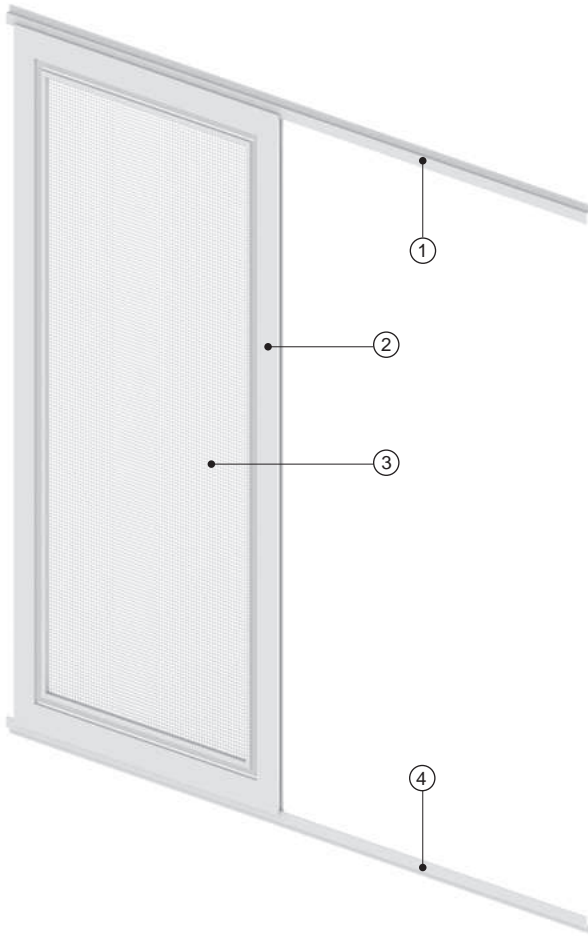
- Additional sash bars
- Aluminium fabric
- Pollen screen fabric
- Insect screen fabric VistaScreen
- Pet fabric Petable

**Benefits of the product**

- Rollable insect screen for seasonal use
- Comfort
- Health
- High-quality construction elements guarantee a long lifespan and convenient operation
- Pollen screen (optional)

# Slide frame

IST E



IST Z



## Field of application

Multi-winged balcony and terrace doors without protruding weatherboards, where the vertical frame profiles seal towards the door frame and middle transom, can be integrated into front-mounted roller shutters and outdoor blinds.

## Legend

- ① Slide rail at the top (Z-shaped profile)
- ② Frame profile with gripping groove on both sides
- ③ Insect screen fabric
- ④ Slide rail at the bottom (Z-, U- or T-shaped profile)

## Field of application

Multi-winged balcony and terrace doors; opening dimension up to the half element width at maximum; can be integrated into front-mounted roller shutters and outdoor blinds.

## Legend

- ① Frame profile
- ② Frame profile with gripping groove on both sides
- ③ Insect screen fabric

## Technical product description

### Frame

Material	Extruded aluminium
Dimension	60 x 13 mm

#### Description

- Corner detail with mitre cut and discreetly hidden corner joint made of aluminium (glued in place and press-fitted).
- Sealing brushes all round at the rear side.
- Optionally also available with two wings.

### Frame

#### IST Z

Material	Extruded aluminium
Dimension	25 x 35 mm

#### Description

- corner formation by mitre cut and hidden corner connector made of aluminium (clamped with threaded pins), U-shaped profile 17x12mm optionally as lower slide rail for installation towards the bottom

### Sash bar

Material	Extruded aluminium
Dimension	33 x 10 mm

#### Description

- ISD E: screwed to frame profile, use depends on insect screen fabric and frame dimensions
- ISD Z: Screwed to frame profile; mandatory with aluminium mesh, otherwise optional

### Brushes (black)

#### IST E

- optionally lateral 4, 6 (Standard), 9, 15 or 25 mm facing towards the inside; optionally at the top/bottom 4 (Standard), 6, 9, 15 or 25 mm facing towards the inside

#### IST Z

- 4 mm brush at the top and at the bottom facing towards the inside, 6 mm brush lateral facing towards the inside

### Slide kit

- consisting of lifting protection as well as smoothly running rollers

### Slide rail at the top

#### IST E

Material	Extruded aluminium
Dimension	Z-shaped profile 27 x 10 mm

#### Description

- screwed from the front

### Slide rail at the bottom

#### IST Z

Material	Extruded aluminium
Dimension	optionally Z-shaped, U-shaped or T-shaped profile

#### Description

- Z-shaped profile 27 x 10 mm screwed from the front
- U-shaped profile 17 x 12 mm screwed to the bottom
- T-shaped profile 17 x 10 mm glued to the bottom

### Installation

#### IST E

- Screwing of the slide rails from the front to the door/window frame and to the bottom

#### IST Z

- Screwing of the guide rollers from the front to the door/window frame or to the top/bottom in the soffit

### Insect screen fabric

- Insect screen fabric made of fibreglass, plastic-sheathed, grey-colored
- Insect screen fabric made of aluminium, blank
- Pollen screen fabric made of polyester, black colored; prevents more than 90% of pollen of any kind from entering
- Insect screen fabric VistaScreen made of fibreglass, plastic-coated, black colored, improved light and air permeability compared with the standard fibreglass fabric
- Insect screen fabric Petable made of strengthened fibreglass, black colored, withstands pet claws.

### Colors

Aluminium parts powder-coated as per color definition "HELLA Color worlds"

End pieces	Black
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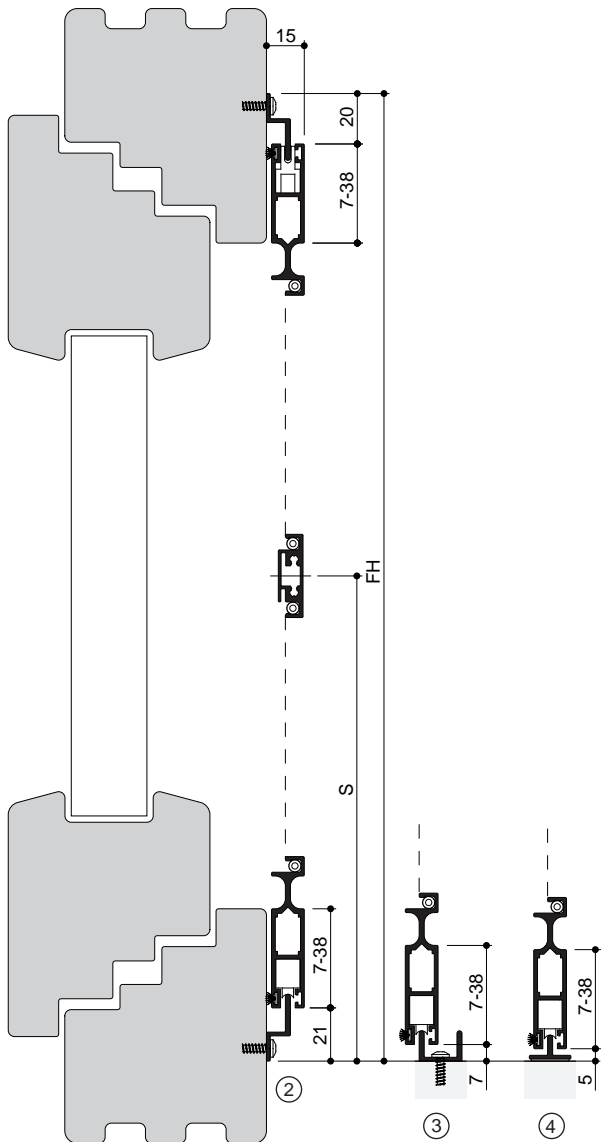
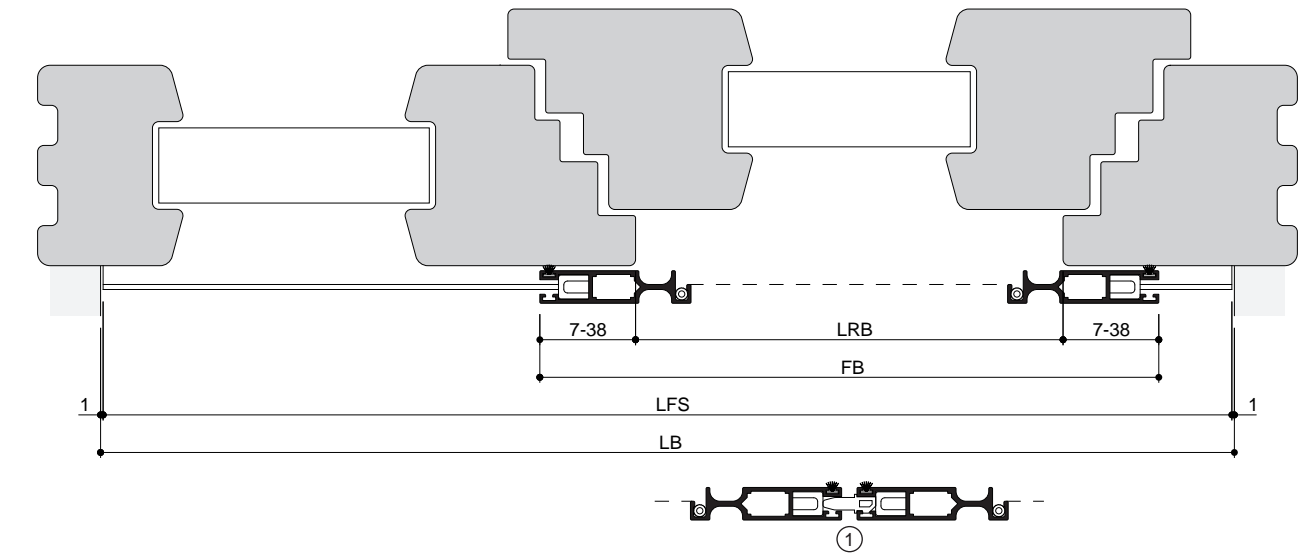
### Special designs

on demand



# Slide frame

Type: IST E



## Notes:

- If the size of the minimum contact surface is too small, the frame does not seal towards the window.
- If the size of the maximum contact surface is exceeded, the recessed grips to operate the frame profile are out of reach.

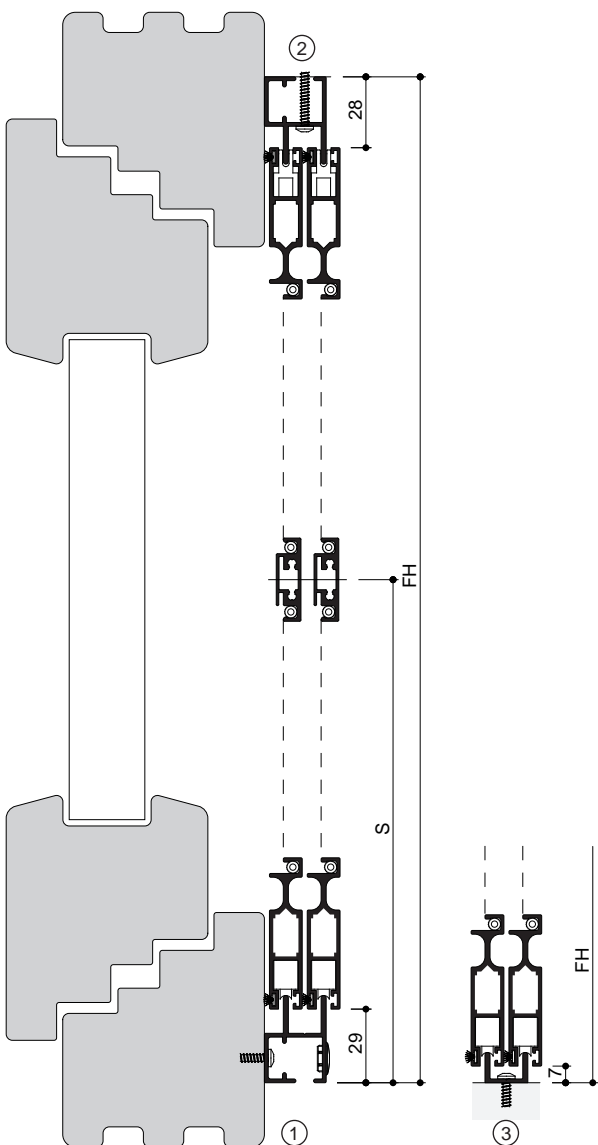
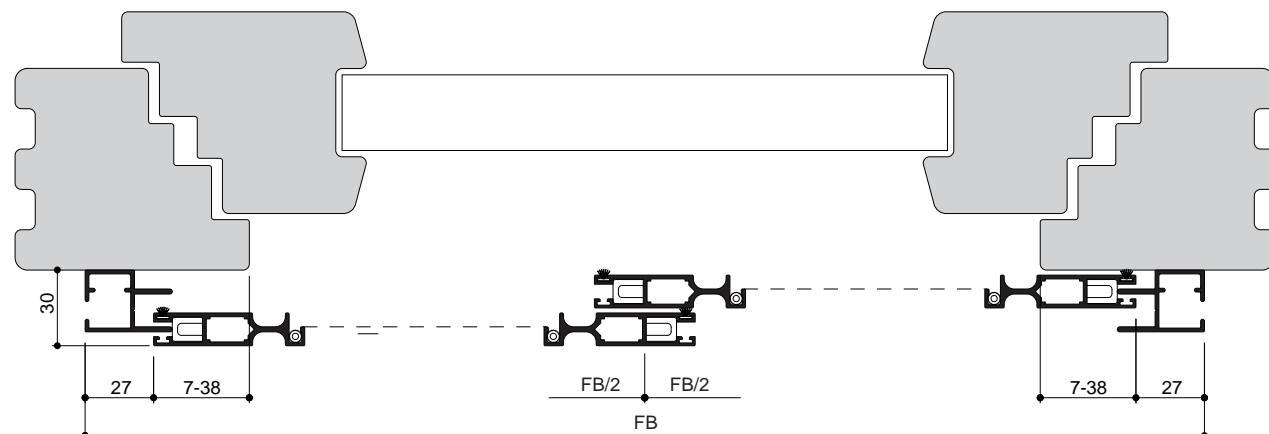
## Legend

- ① Double-winged design (optional) with sealing profile in the middle
- ② Z-shaped profile at the bottom for installation from the front
- ③ U-shaped profile at the bottom for installation towards the bottom side (slant of the mountin base up to 10°)
- ④ T-shaped profile at the bottom for fastening via adhesive tape towards the bottom side

- FB Complete width
- FH Complete height (incl. slide rails)
- LB Clear width
- LRB Clear frame width of the window
- S Sash bar position
- LFS Length of the slide rails



Type: IST Z



Notes:

- If the size of the minimum contact surface is too small, the frame does not seal towards the window.
- If the size of the maximum lateral contact surface is exceeded, the recessed grips to operate the frame profile are out of reach.

Legend

- ① Screwing of the frame profile from the front (standard)
  - ② Screwing of the frame profile to the top/bottom in the soffit (optional)
  - ③ U-shaped profile at the bottom for installation towards the bottom side
- FB Complete width  
 FH Complete height  
 S Sash bar position

General

Clamping frame

Swing frame

Slide frame

Pleated blind

Roller blind

Pendulum frame

# Insect screen pleated blind



Alternatively with mounting frame with defined seal.

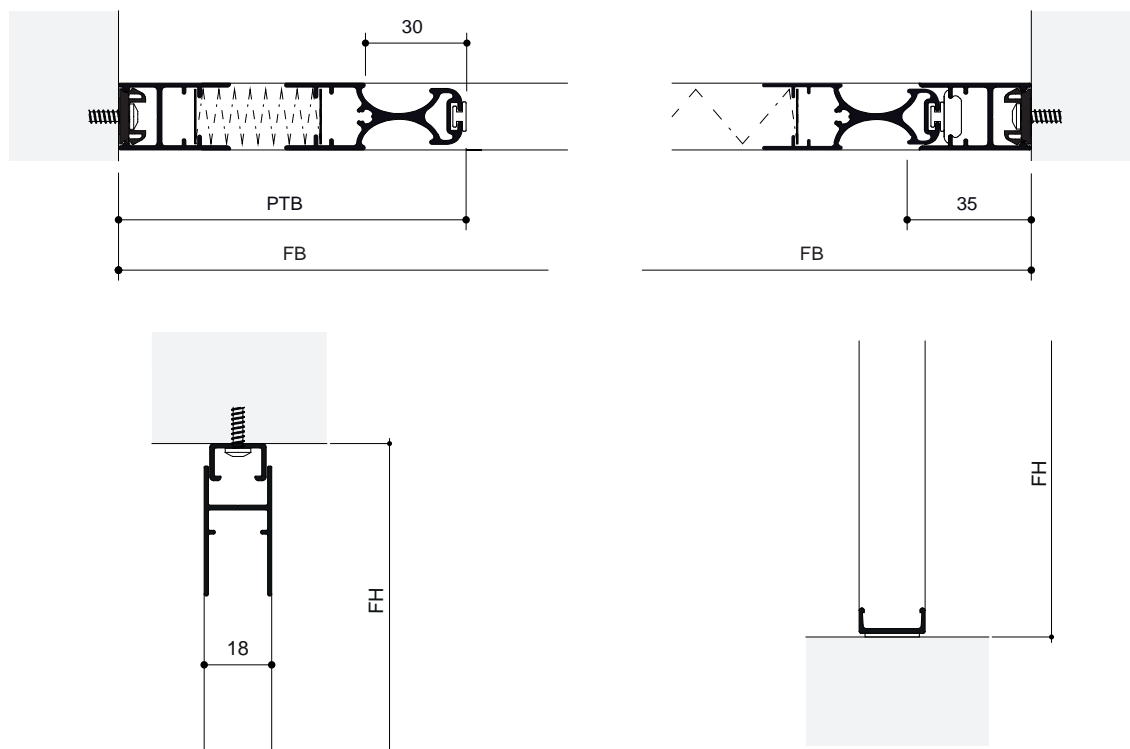
Pleated fabric enables high stability.

## Limit sizes

Type	Min. width [mm]	Max. width [mm]	Min. height [mm]	Max. height [mm]
ISPL18.	500	2200	850	2850

The limit sizes only apply for the pleated insect screen. If an installation frame is used, 15 mm per frame profile must be added to the limit sizes.

Cross-section profile



Legend

- FB Complete width
- FH Complete height
- PTB Stack width

Scope of delivery

- Plastic-coated, pleated fibreglass fabric
- Running rails
- Aluminium parts as per "HELLA Color worlds"
- Mounting material

Supplementary equipment

- Installation frame screwed
- Installation frame glued
- Operation rod pivoting

Benefits of the product

- Pleated insect screen for seasonal use
- Comfort
- Health
- The pleated insect screen is designed symmetrically to the operating level and can therefore be used for both opening directions.
- High-quality construction elements guarantee a long lifespan and convenient operation

General

Clamping frame

Swing frame

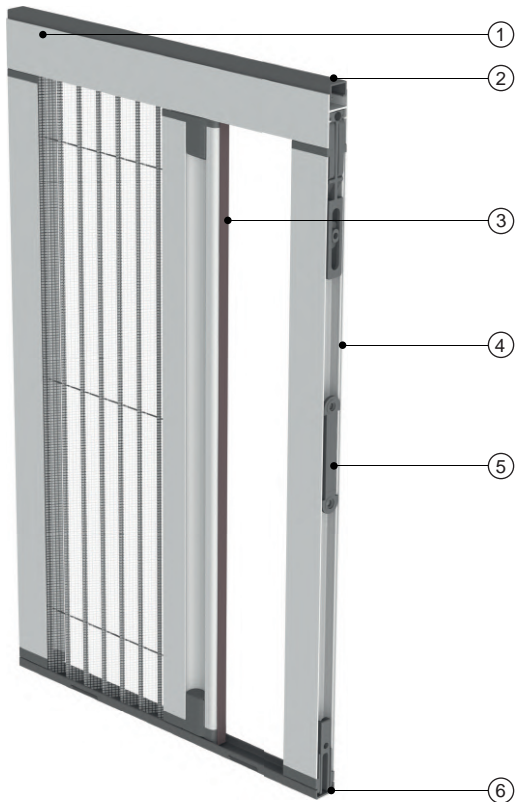
Slide frame

Pleated blind

Roller blind

Pendulum frame

# Insect screen pleated blind

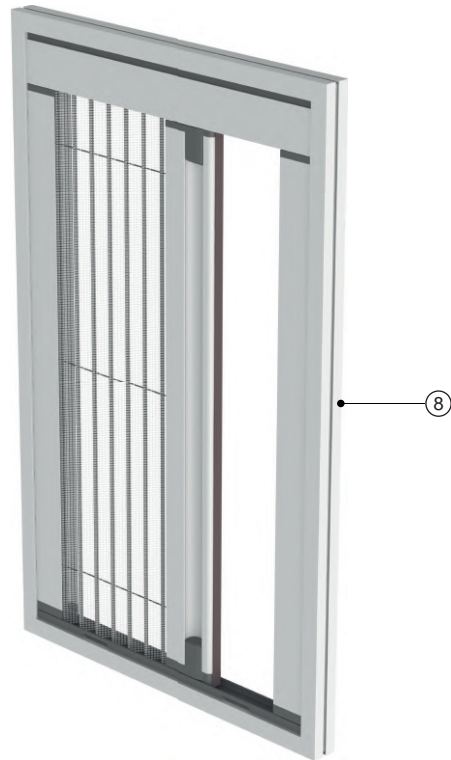
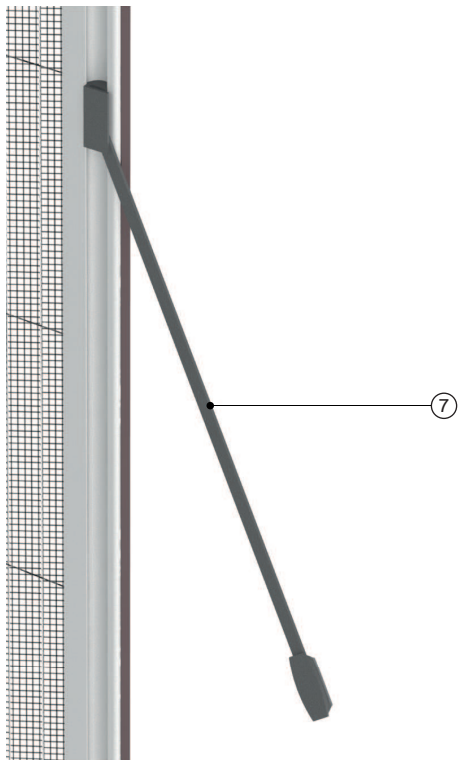


## Field of application

All balcony and terrace doors can be integrated in front-mounted roller shutters or outdoor blinds.

## Legend

- ① Slide rail at the top
- ② Installation profile at the top
- ③ Handle profile with magnetic profile
- ④ Wall profile with magnetic profile
- ⑤ Fastening clip for wall profile
- ⑥ Slide rail at the bottom with punchings for water drainage
- ⑦ Operating rod (optional)
- ⑧ Installation frame for installation from the front (can be selected for each side)



## Technical product description

### Slide rail at the top

Material	Extruded aluminium
Dimension	35 x 18 mm

#### Description

- Attached to mounting profile of extruded aluminium, dimension 15x10 mm

### Slide rail at the bottom

Material	Extruded aluminium
Dimension	18 x 7 mm

#### Description

- Powder-coated in deep black 9005 incl. double-sided adhesive tape 16x1 mm

### Grip profile

Material	Extruded aluminium
Dimension	48 x 18 mm

#### Description

- Operable via recessed grips on both sides, fixed in the closed position by means of retracted magnetic profile

### Wall profile

Material	Extruded aluminium
Dimension	18 x 31 mm

#### Description

- On the hinge side with retracted magnet profile, in order to fix the closed position

### Installation frame (optional)

Material	Extruded aluminium
Dimension	22 x 15 mm

#### Description

- for frontal installation onto the soffit, can be selected separately for each side, cut to mitre and stuck together using corner joints; the installation frame can either be fixed with screws or a double-sided adhesive tape

### Installation

- Laterally in the soffit or from the front using installation frames (optional)

### Insect screen fabric

- Pleated insect screen fabric made of plastic-sheathed fibreglass in black, guided via cords

### Colors

Aluminium parts powder-coated as per color definition "HELLA Color worlds"

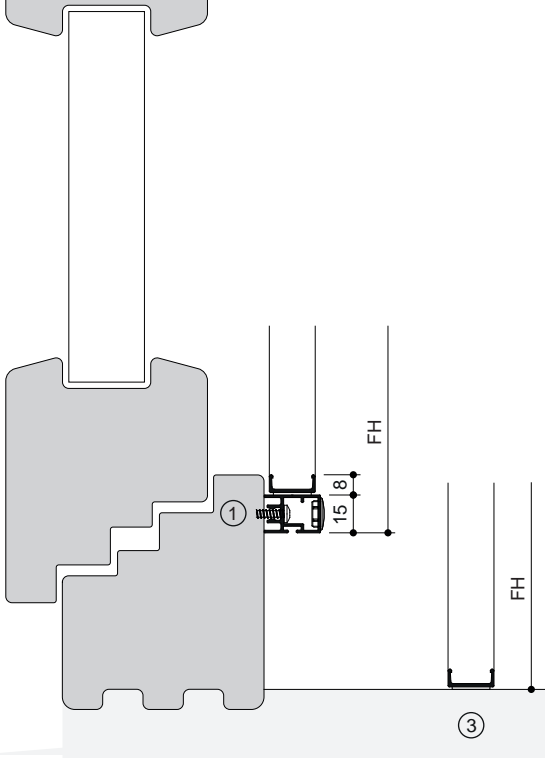
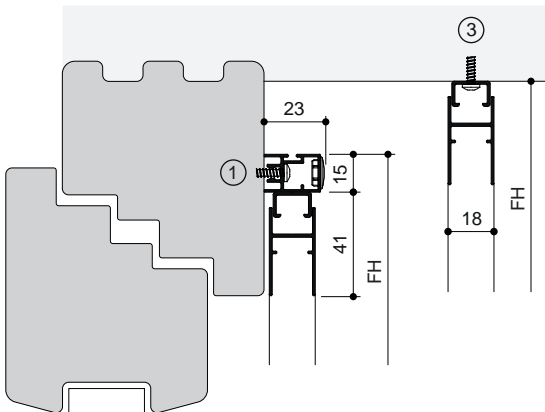
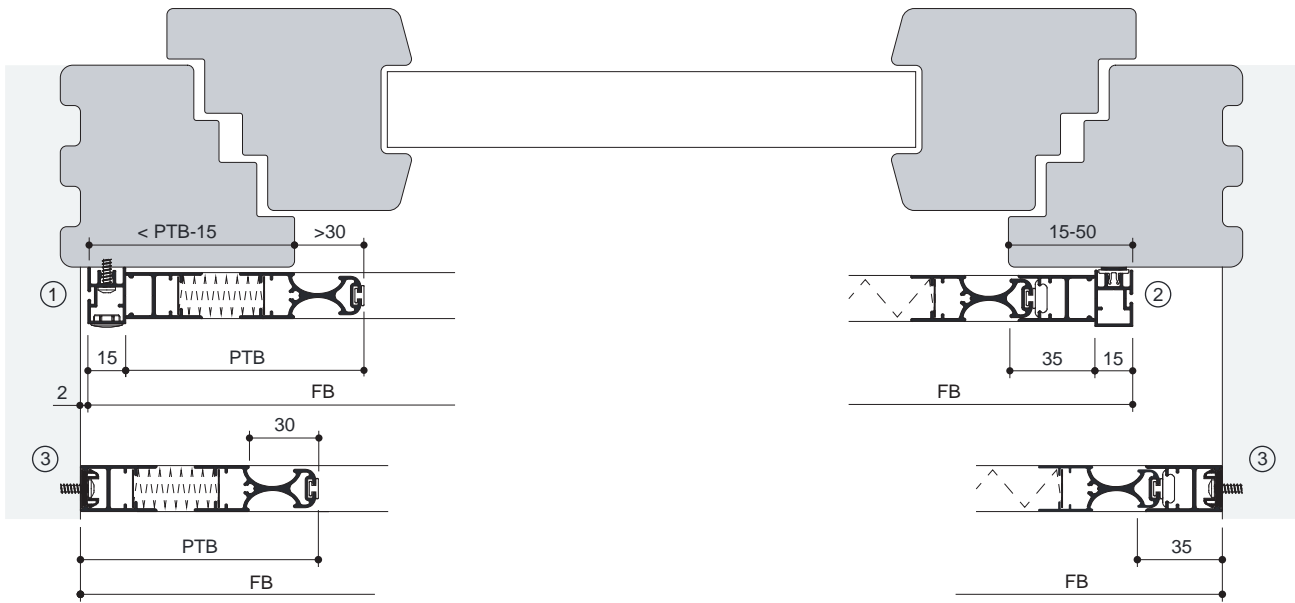
End pieces	Black
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### Special designs

No special designs possible!

# Insect screen pleated blind

Type: ISPL18 - pleated insect screen 18 mm



## Notes

- The pleated insect screen is designed symmetrically to the operating level and can therefore be used for both opening directions.
- The side where to place the installation frame is changeable.
- To ensure that the recessed grips are accessible in each position, the complete width must be reduced accordingly.

## Legend

- ① Installation from the front with installation frame screwed
- ② Installation from the front with installation frame glued
- ③ Installation towards the outside without installation frame

FB Complete width

FH Complete height

PTB Stack width

- 92 mm with FB 500-1000 mm
- 102 mm with FB 1001-1300 mm
- 112 mm with FB 1301-1600 mm
- 121 mm with FB 1601-1900 mm
- 131 mm with FB 1901-2200 mm

## Profiles provided

- 06210301 Wall profile 18x30 mm
- 06210201 Handle profile 18x48 mm
- 06210901 Slide rail at the top 18x35 mm
- 06210902 Slide rail at the bottom 18x7 mm
- 06210501 Installation profile at the top 15x10 mm
- 06210502 Installation frame 15x22 mm (optional)



# Roller blind



Easy-Click locking mechanism concealed in the guide rail.

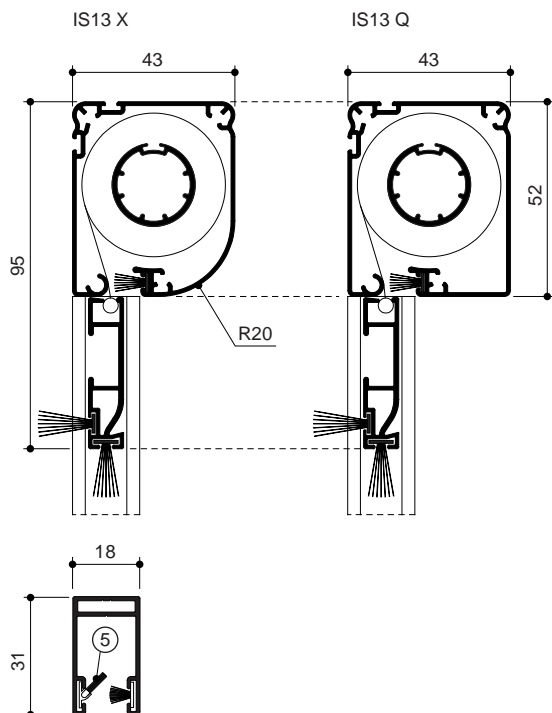
The integrated brake ensures slow upward travel from the end bar, which minimizes noise and eliminates the risk of injury.

## Limit sizes

Type	Min. width [mm]	Max. width [mm]	Min. height [mm]	Max. height [mm]	Max. surface [m <sup>2</sup> ]
IS13	500	2200	200	2800	4



Cross-section profile



**Scope of delivery**

- Insect screen cassette square or quarter round with box sealing brush
- Drive with spring balancer and brake system
- Guide rail with guide rail inserts and integrated Easy-Click locking system
- Plastic-coated fibreglass fabric
- Aluminium parts as per "HELLA Color worlds"
- Mounting material

**Supplementary equipment**

- Inset type handle at the outside
- Stop at the top
- Insect screen fabric VistaScreen
- Cover SOLTIS Horizon 86/Perform 92

**Benefits of the product**

- Rollable insect screen for seasonal use
- Comfort
- Health
- High-quality construction elements guarantee a long lifespan and convenient operation
- Visual cover (optional)

General

Clamping frame

Swing frame

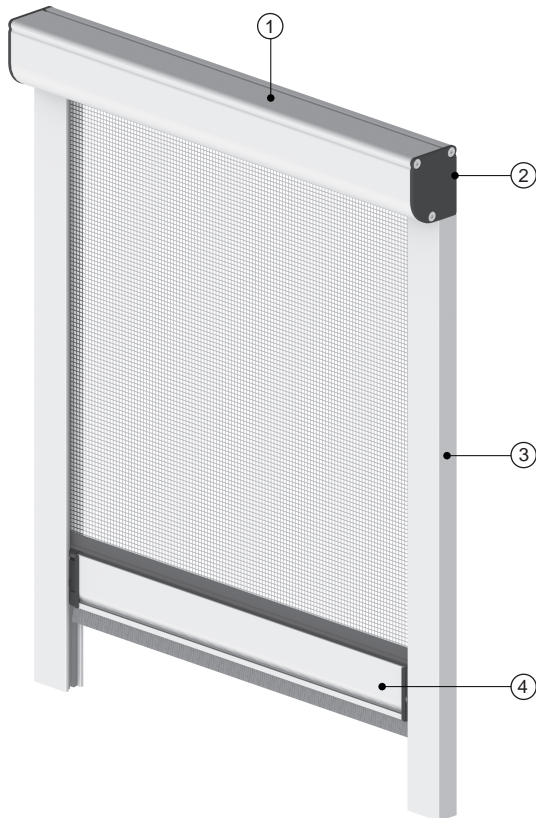
Slide frame

Pleated blind

Roller blind

Pendulum frame

# Roller blind

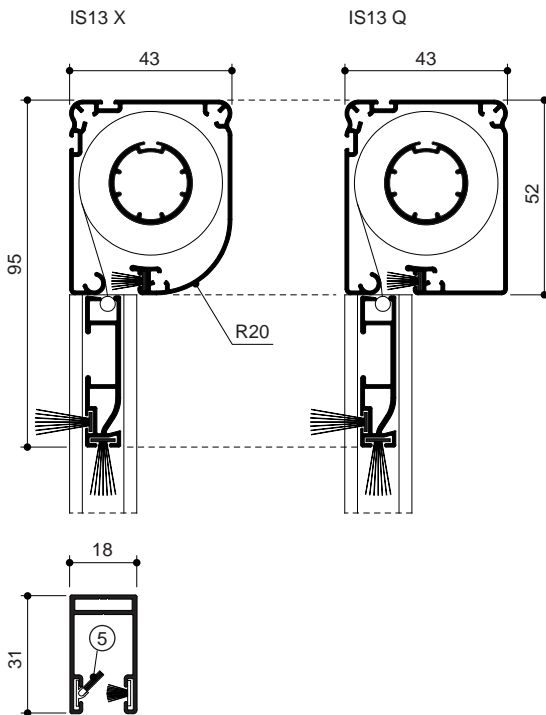


## Field of application

All window types.

## Legend

- ① Cassette profile 43 x 52 quarter round/quadratic
- ② End cap quarter round/quadratic
- ③ Guide rail 31 x 18 mm
- ④ End rod
- ⑤ Diagonal brush in guide rail



## Technical product description

### Cassette

Material	Extruded aluminium
Dimension	43 x 52 mm
Box profile	quarter round or quadratic

#### Description

- Sealing via unwinding edges of the fabric at the rear side and inserted sealing brush at the front side.
- Plastic cassette end to accommodate the spring mechanics, with struts to be placed onto the guide rails.

### Insect screen shaft

Material	Extruded aluminium
Dimension	Ø23.2 mm

### Guide rails

Material	Extruded aluminium
Dimension	31 x 18 mm

#### Description

- With brush seals from both sides for fabric guiding

### End rod

Material	Extruded aluminium
Dimension	40 x 9 mm

#### Description

- Sealing via retracted brush seals
- Easy-Click locking system, incl. pull cord

### Operation

#### Description

- Raising and lowering the blind via discreetly hidden spring mechanics and integrated brake

### Installation

- From the front onto the window frame or lateral in the soffit

### Insect screen fabric

- Insect screen fabric made of fibreglass, plastic-sheathed, grey-colored
- Insect screen fabric VistaScreen made of fibreglass, plastic-coated, black colored, improved light and air permeability compared with the standard fibreglass fabric
- Cover SOLTIS Horizon 86 or SOLTIS Perform 92, colors according to current collection (**Attention:** max. width 1200 mm, max. height 1600 mm); cover shortened and not guided in the guide rail. Serves as view and glare protection, not as insect screen.

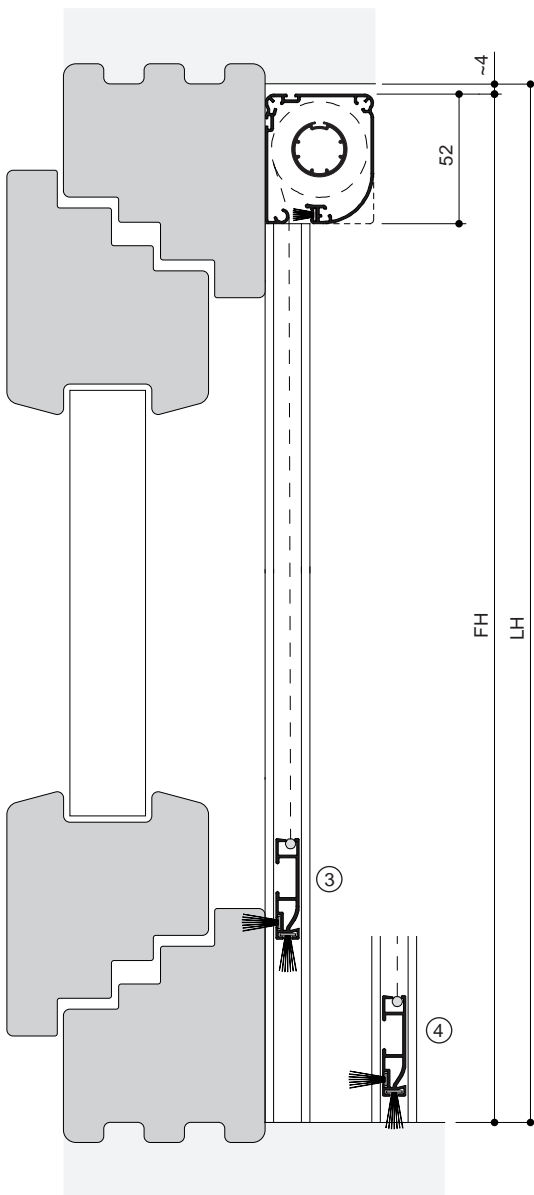
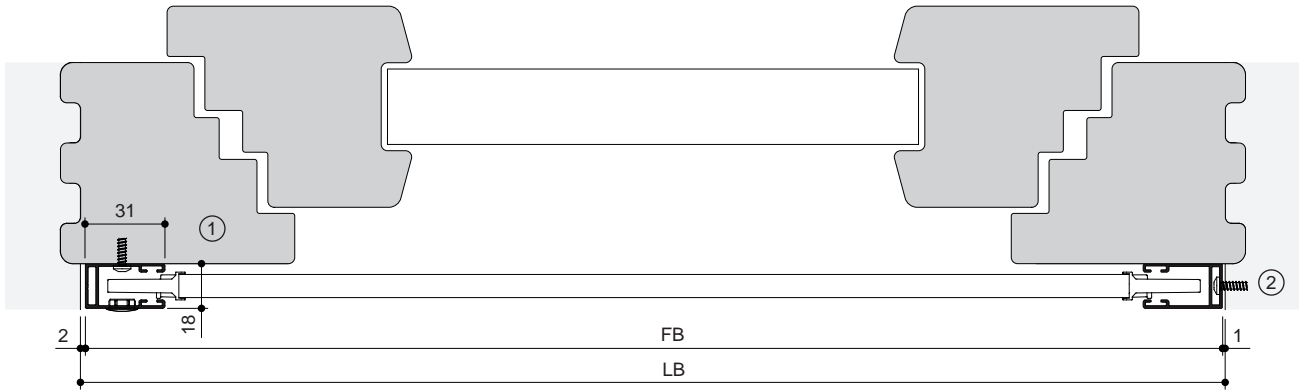
### Colors

Aluminium parts powder-coated as per color definition "HELLA Color worlds"

End pieces	grey or black
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# Roller blind

Type: IS13 - X quarter round/Q quadratic



## Legend

- FB Complete width  
 FH Complete height  
 LB Clear width  
 LH Clear height  
 ① Installation from the front (standard)  
 ② Installation laterally (optional)  
 ③ Sealing towards the inside  
 ④ Sealing towards the bottom

## Profiles provided

- 06040407/8 Cassette profile X/Q 43x52 mm
- 06040905 Guide rail 31x18 mm
- 06040807 End rod 40x9 mm



# Pendulum frame



Integrated torsion bar spring system enables barrier-free opening inwards and outwards with subsequent automatic closing.



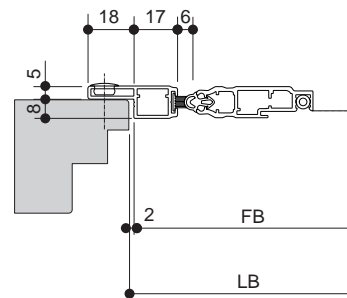
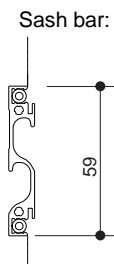
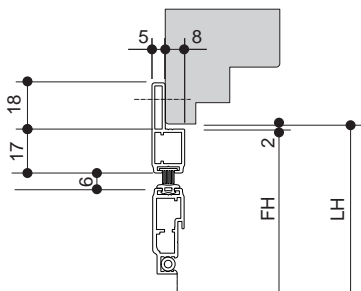
Concealed hinges and operation via integrated handle bar.

## Limit sizes

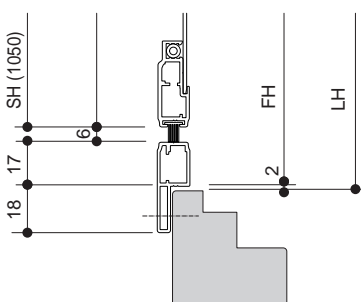
Insect screen fabric	min. width single wing [mm]	max. width single wing [mm]	min. width double wing [mm]	max. width double wing [mm]	max. height [mm]
Standard (VistaScreen)	600	1200	1200	2400	2600
Petable	600	1200	1200	2400	2600

Cross-section profile

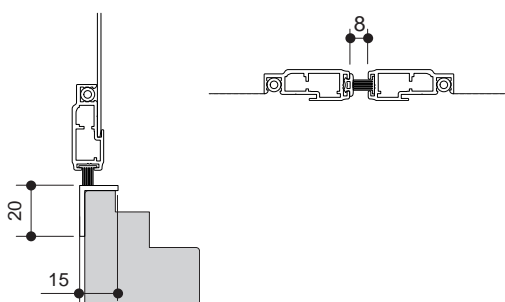
PT/6 - PT/6D - PT/6L - PT/6DL



PT/6 - PT/6D



PT/6L - PT/6DL



Legend

- FB Complete width (ordering dimension)
- LB Clear width
- FH Complete height (ordering dimension)
- LH Clear height
- SH Sash bar height wings

Scope of delivery

- Frame with rolled-in VistaScreen
- Centre sash bar
- Brush sealings
- Operating and fastening elements
- grey brushes
- Aluminium parts as per own color definition
- Mounting material
- Kick plate

Supplementary equipment

- Pet fabric Petable
- Locking mechanism for double-winged swing doors
- Separating cut for French doors
- Cat flap

Benefits of the product

- Hinged insect screen, which can be operated on both sides, for seasonal use
- Comfort
- Health
- High-quality construction elements guarantee a long lifespan and convenient operation

# Pendulum frame



## Field of application

All door types.

## Legend

- ① Frame profile
- ② Insect screen fabric
- ③ Sash-bar profile with gripping groove on both sides
- ④ Kick plate
- ⑤ Hinge



## Technical product description

### Frame

Material	Extruded aluminium
Dimension	34 x 13 mm
Color	grey

#### Description

- Corner detail with mitre cut and discreetly hidden corner joint made of aluminium (glued in place and press-fitted).
- Circumferential sealing brushes.
- Optionally also available with two wings.

### Installation frame

#### PT/5, PT/5D

Material	Extruded aluminium
Dimension	17 x 13 mm

#### Description

- Circumferential frame profile
- concealed hinges and integrated torsion bar spring

#### PT/5B, PT/5L, PT/5DL

Material	Extruded aluminium
Dimension	17 x 13 mm

#### Description

- 3-sided frame profile
- concealed hinges and integrated torsion bar spring

#### PT/6, PT/6D

Material	Extruded aluminium
Dimension	35 x 13 mm

#### Description

- Circumferential frame profile
- concealed hinges and integrated torsion bar spring

### Tread plate (Standard)

Material	Extruded aluminium
Dimension	116 x 9 mm

#### Description

- optionally with 4-way cat flap 170x210 mm

### Sash bar

Material	Extruded aluminium
Dimension	59 x 10 mm

#### Description

- centrally integrated (lower edge of wing to centre of sash bar 1050 mm, variable height possible)

### Operation

#### Description

- Concealed torsion bar spring system enables barrier-free opening towards the inside and towards the outside, with subsequent automatic closing.
- Locking is done using internal block magnets that are fixed to the corner brackets.
- Opening angle up to 100°.
- Operation via integrated handle bar. Handle bar lock can be used as an option.
- PT/5D, PT/5DL, PT/6DL: Optional locking mechanism for double-wing pendulum frames is used to fix the inactive wing of the double-wing pendulum frame.

### Installation

#### PT/5, PT/5D, PT/5B

- Laterally in the soffit or from the front using L-shaped mounting brackets (optional)

#### PT/5L, PT/5DL, PT/6, PT/6D

- from the front

### Insect screen fabric

- Insect screen fabric VistaScreen made of fibreglass, plastic-coated, black colored, improved light and air permeability compared with the standard fibreglass fabric
- Insect screen fabric Petable made of strengthened fibreglass, black colored, withstands pet claws.

### Colors

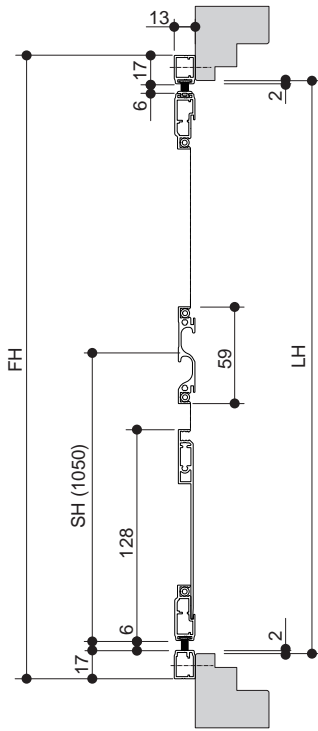
Aluminium parts powder-coated matt in traffic white RAL 9016, sepia brown RAL 8014, ochre brown RAL 8001, clay brown RAL 8003, anthracite grey RAL 7016, slate grey RAL 7015 or basalt grey RAL 7012; powder-coated in matt fine structure in DB 703; anodised in E6/EV1.

End pieces	grey or black
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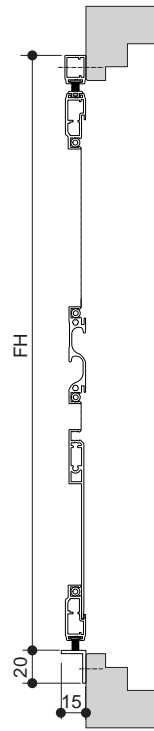
# Pendulum frame

Type: PT/5 - with installation frame

PT/5-PT/5D

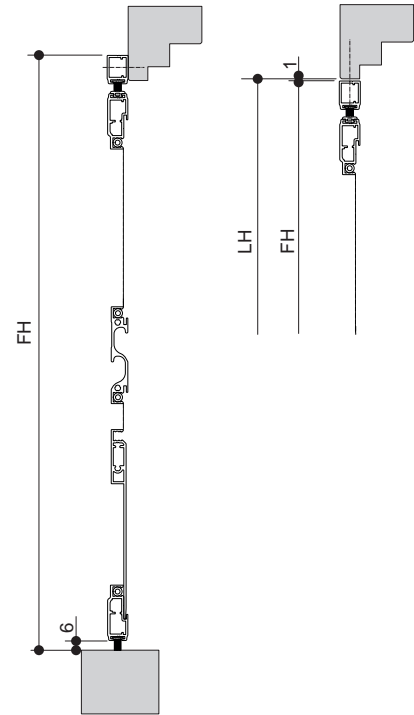


PT/5L-PT/5DL



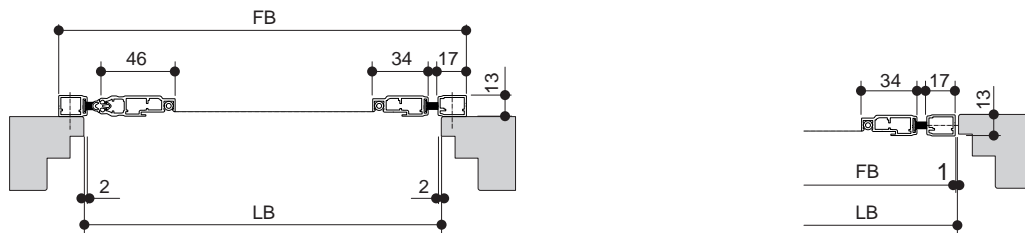
PT/5B

Installation laterally

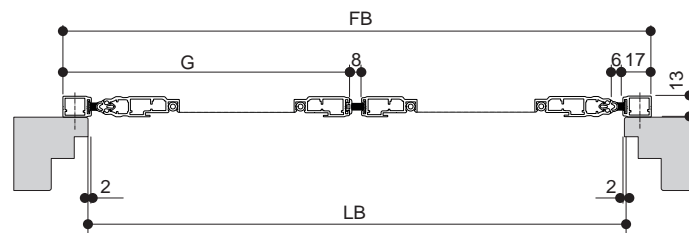


PT/5-PT/5L-PT/5B

Installation laterally



PT/5D-PT/5DL



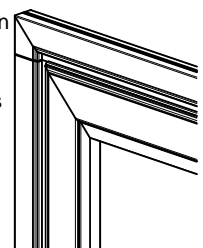
## Legend

- FB Complete width (ordering dimension)
- LB Clear width
- FH Complete height (ordering dimension)
- LH Clear height
- SH Sash bar height wings
- G Dimension G (section dimension for non-symmetrical double-wing pendulum frames)

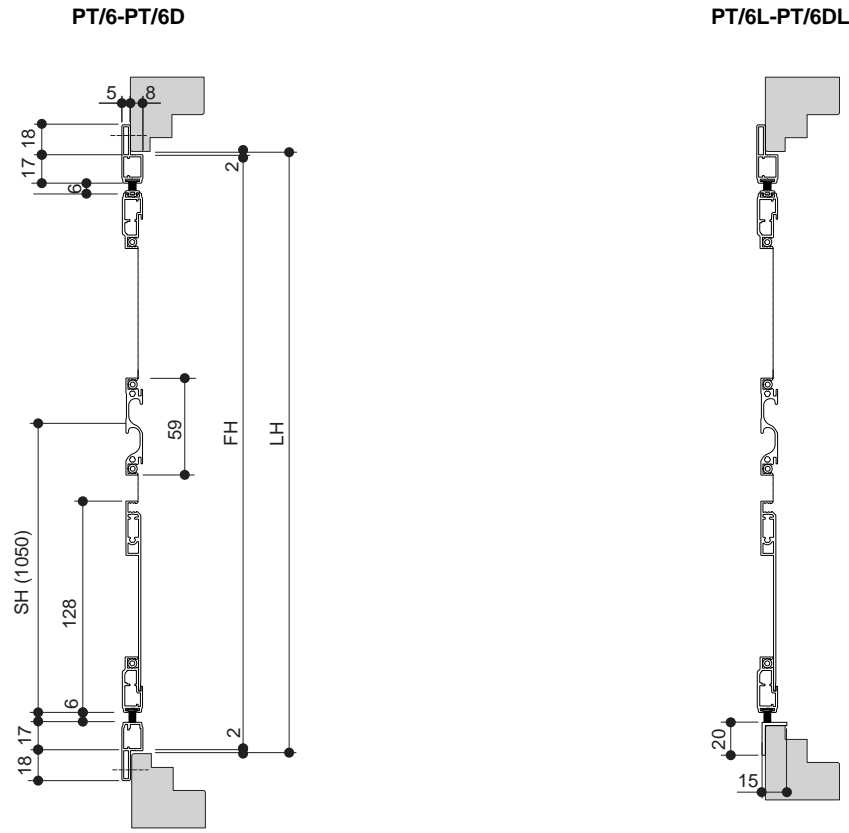
## Separating cut for secondary sashes (Types PT/5, PT/5B, PT/5L, PT/6, PT/6L)

For mounting a single-wing pendulum frame in a double-wing frame.

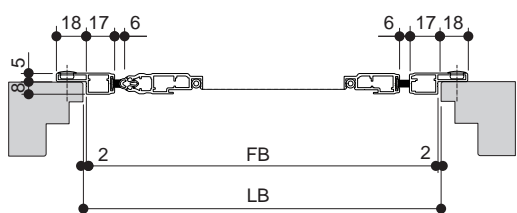
In this case, the frame is cut off on the magnetic side of the pendulum frame and this cut-off strip is screwed separately onto the forend. This ensures that both wings of the existing door element can still be opened.



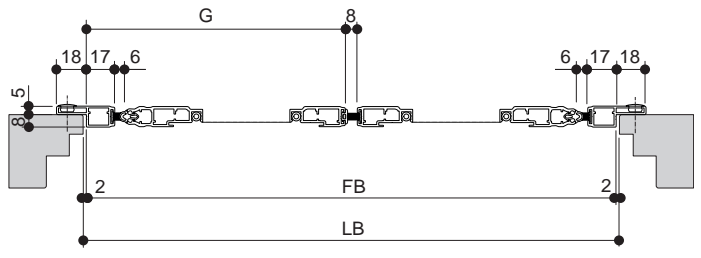
Type: PT/6 - with installation frame, frame profile partially inside the door/window frame



PT/6-PT/6L



PT/6D-PT/6DL

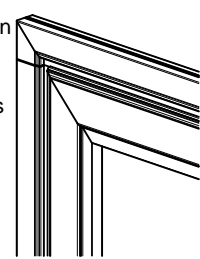


Legend

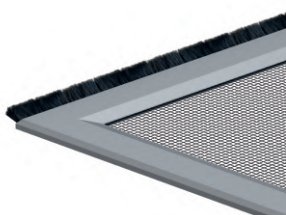
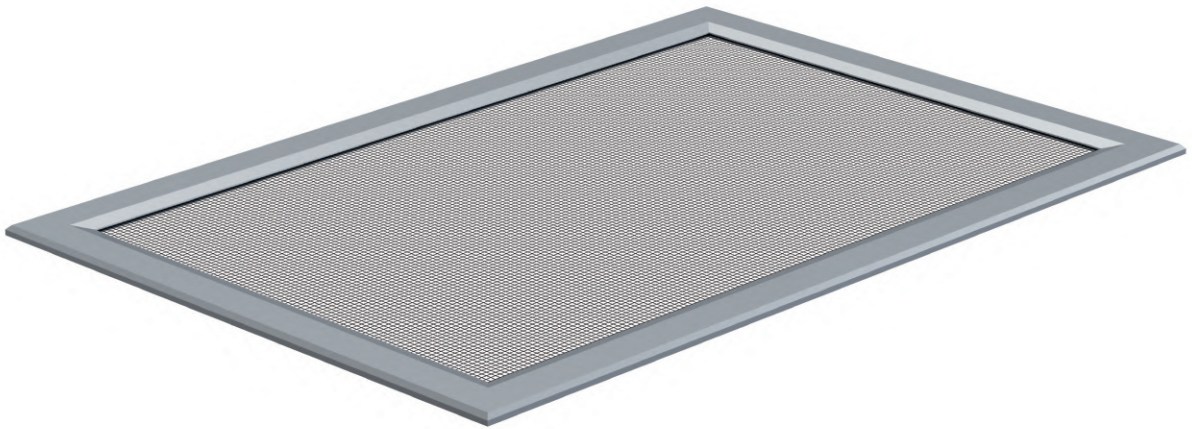
- FB Complete width (ordering dimension)
- LB Clear width
- FH Complete height (ordering dimension)
- LH Clear height
- SH Sash bar height wings
- G Dimension G (section dimension for non-symmetrical double-wing pendulum frames)

Separating cut for secondary sashes (Types PT/5, PT/5B, PT/5L, PT/6, PT/6L)

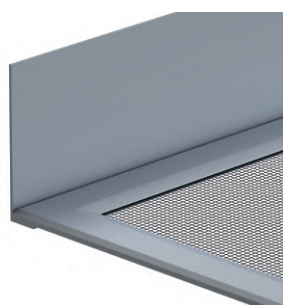
For mounting a single-wing pendulum frame in a double-wing frame. In this case, the frame is cut off on the magnetic side of the pendulum frame and this cut-off strip is screwed separately onto the forend. This ensures that both wings of the existing door element can still be opened.



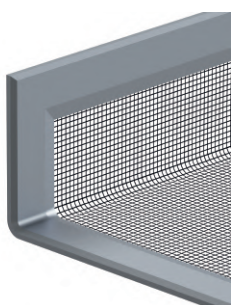
# Light shaft cover



LA/2S design with brush on the wall.



LA/3S design with L-bracket.



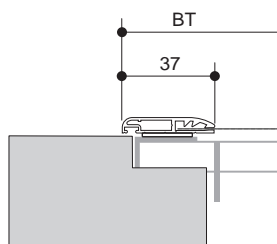
LA/4S design with upstand.

## Limit sizes

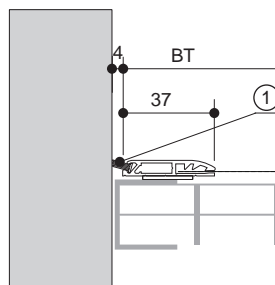
Insect screen fabric	Min. width [mm]	Max. width [mm]	min. width [mm]	max. depth [mm]	
Stainless steel fabric	400	2000	300	1300	

## Cross-section profile

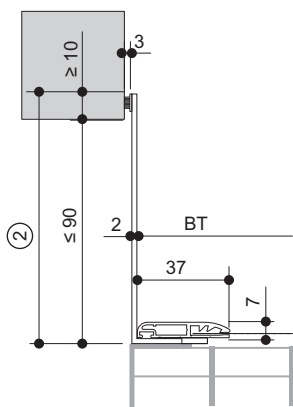
LA/1S



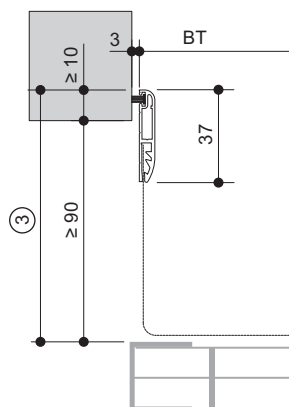
LA/2S



LS/3S



LA/4S



### Legend

BT Ordering depth

① Wall mounting brush 10 mm

② Height of the bracket

③ Upstand height

#### Scope of delivery

- Frame with pressed-in stainless steel mesh
- grey brushes
- Aluminium parts in silver E6/EV1 or grey mica
- Mounting material (glued with rubber strap or screw fastening)

#### Supplementary equipment

- LA/2S  
Wall mounting brush of lengths 10, 14, 20 mm
- LA/3S  
with bracket profile of lengths 20, 40, 60, 80, 100 mm
- LA/4S  
with upstand from 90 mm height

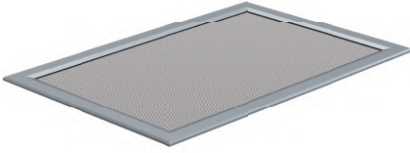
#### Benefits of the product

- Insect screens
- Comfort
- Health
- High-quality construction elements guarantee a long lifespan and convenient operation

# Light shaft cover

## LA/1S

4-sided overlying

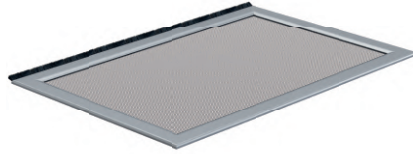


### Field of application and use

Light shafts with ground level grating.

## LA/2S

3-sided overlying with brush towards the wall

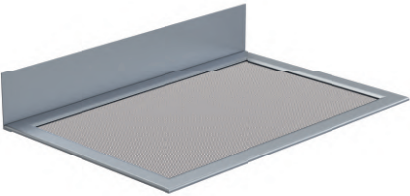


### Field of application and use

Light shafts with ground level grating and wall mounting.

## LA/3S

3-sided overlying with L-bracket

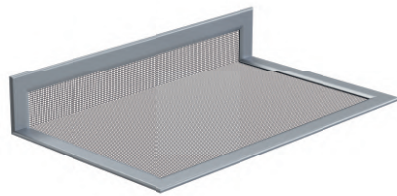


### Field of application and use

Light shafts with projecting window opening up to 90 mm height.

## LA/4S

3-sided overlying with upstand



### Field of application and use

Light shafts with projecting window opening from 90 mm height.

## Technical product description

### Frame

Material	Extruded aluminium
Dimension	37 x 6 mm
Color	grey

#### LA/1S

- Corner detail with mitre cut and discreetly hidden corner joint made of aluminium (glued in place and press-fitted).
- Sealing brushes depending on the type of installation at the rear side or at the front, black coloured

#### LA/2S

- Corner detail with mitre cut and discreetly hidden corner joint made of aluminium (glued in place and press-fitted).
- Sealing brushes at the rear depending on the type of installation, wall-side profile with integrated brush seal on the face side.

#### LA/3S

- Corner detail with mitre cut and discreetly hidden corner joint made of aluminium (glued in place and press-fitted).
- Sealing brushes depending on the type of installation at the rear side, wall-side aluminium bracket profile with dimensions 20x15x2 mm or 40/60/80/100x20x2 mm.

#### LA/4S

- Corner detail with mitre cut and discreetly hidden corner joint made of aluminium (glued in place and press-fitted).
- Sealing brushes depending on the type of installation at the rear side, wall-side upstand of the insect screen frame and sealing using a brush seal.

### Insect screen fabric

- Insect screen fabric made of stainless steel V2A, silver color

### Installation

- With rubber strap directly on the grating.
- optional: additionally with screws on the grating. Sealing on the grating is achieved with a embedded brush seal.

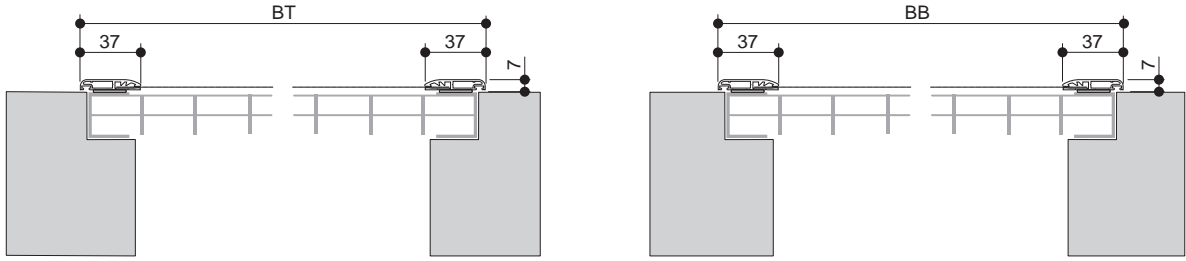
### Colors

Aluminium parts powder-coated in grey with mica effect or anodised in E6/EV1

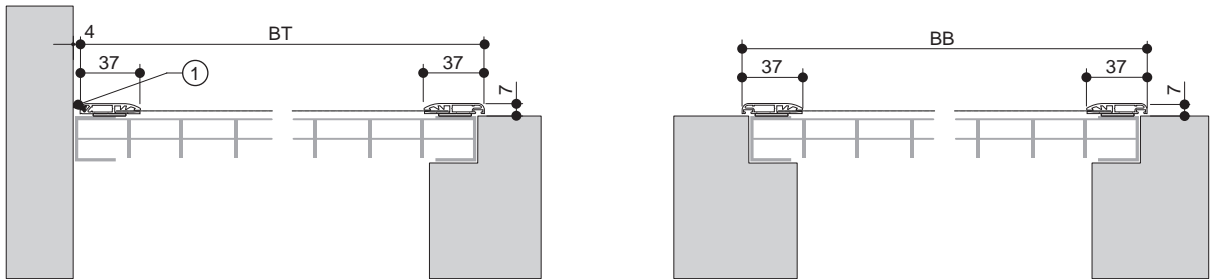
# Light shaft cover

## Type: Light shaft cover

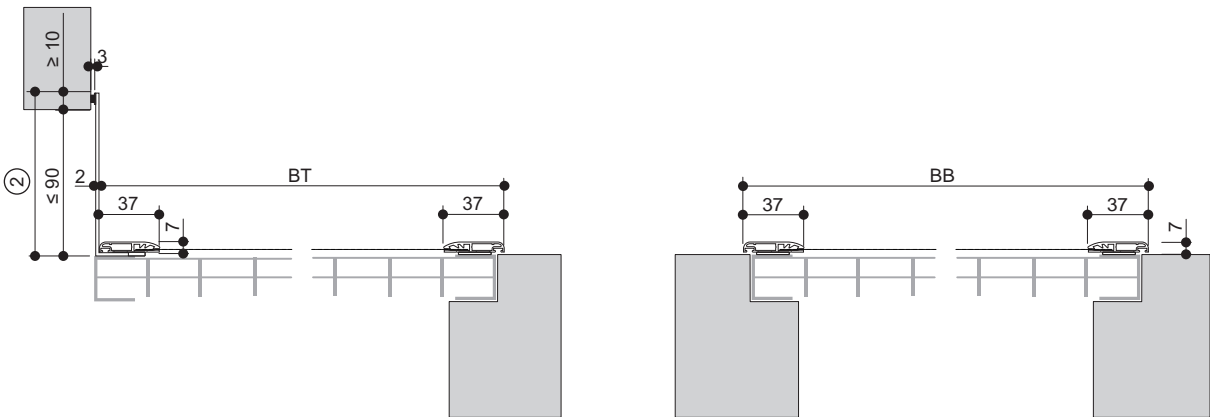
LA/1S for light shafts with ground level grating



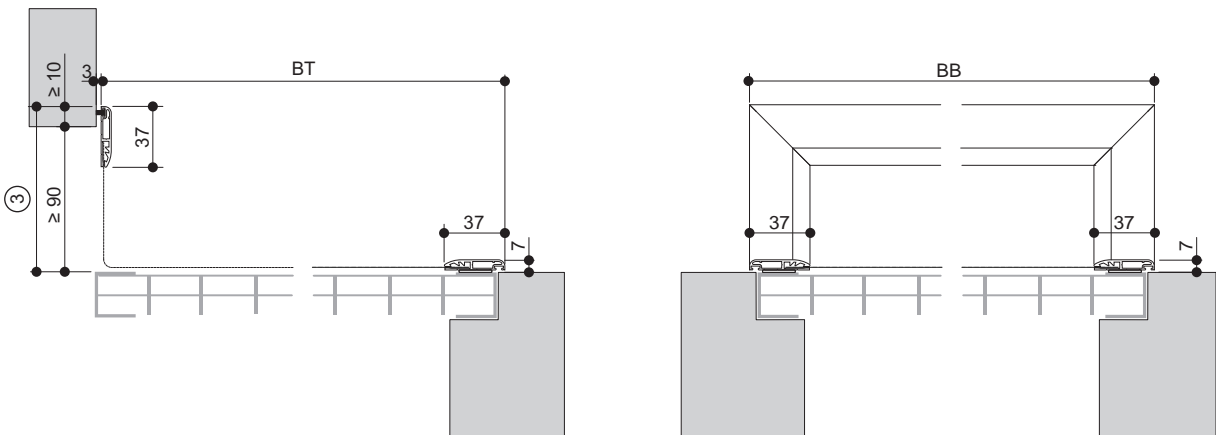
LA/2S for light shafts with ground level grating and wall mounting



LA/3S for light shafts with projecting window opening up to 90 mm height



LA/4S for light shafts with projecting window opening from 90 mm height



### Legend

BT Ordering depth  
BB Ordering width

① Wall mounting brush 10 mm  
② Height of the bracket  
③ Upstand height



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Subject to technical changes, errors, typesetting and printing errors.