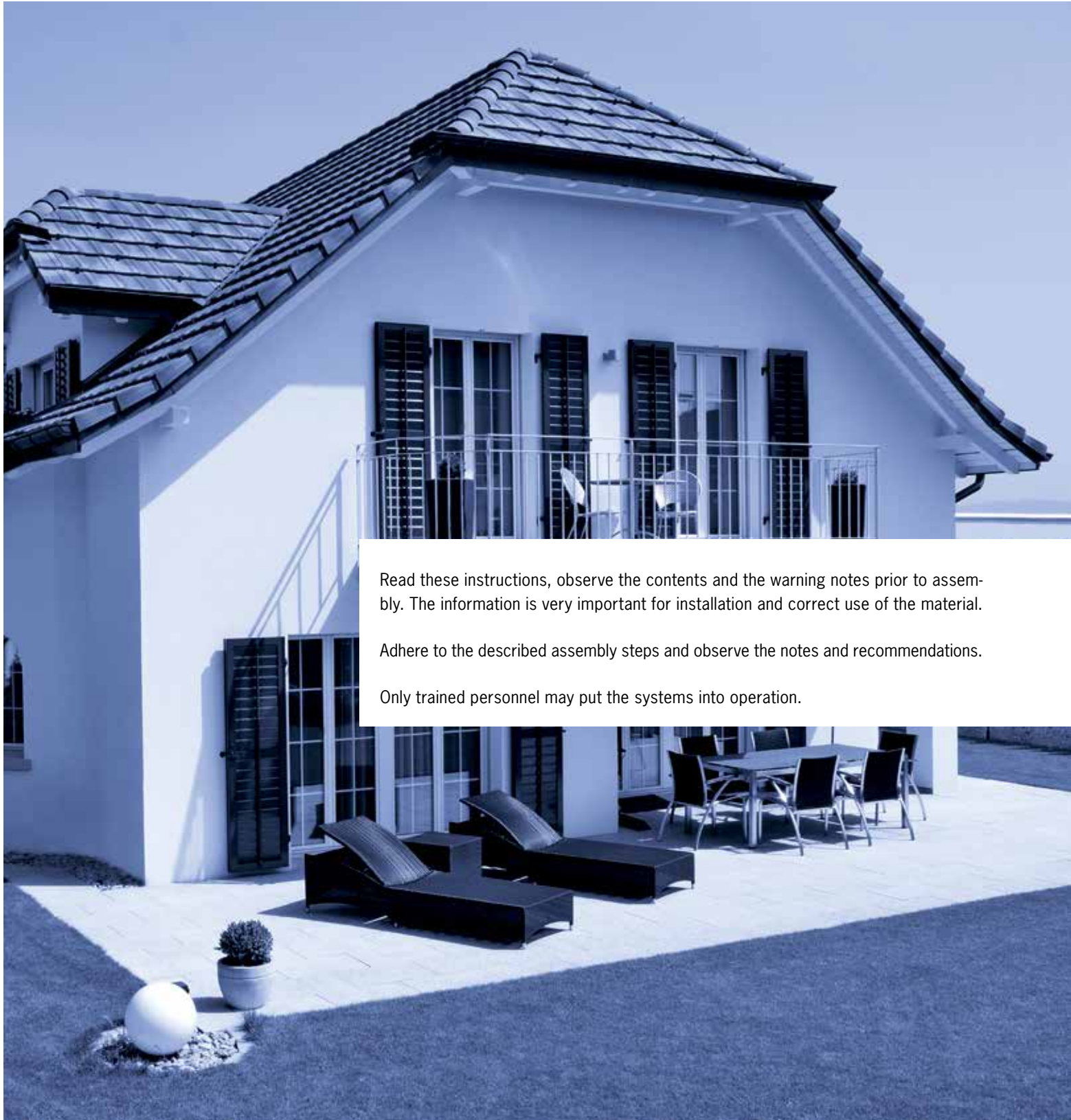


## **Assembly instructions**

### **Wing shutters traditional**



Read these instructions, observe the contents and the warning notes prior to assembly. The information is very important for installation and correct use of the material.

Adhere to the described assembly steps and observe the notes and recommendations.

Only trained personnel may put the systems into operation.

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## 1. Notes regarding these instructions

These instructions is meant for trained technicians with good skills in assembly technology. Only qualified technical personnel with the respective assembly experience may install window shutters

### 1.1 Validity of this manual

The wing shutters have been approved for export and use in Austria.

### 1.2 CE marking

Griesser AST GmbH hereby declare that the external window shutters conform to the basic requirements and other relevant specifications contained in the EU standards.


This is documented by the CE marking.


### 1.3 Used symbols


**L** Side, direction, design left

**R** Side, direction, design right


 Outside


 Movement to be carried out


 Movement, direction


 Movement, direction

**2x** Repeat step various times

 Manual operation

 Visual inspection

 Information

 Note

### 1.4 Abbreviations

**hl** Opening height

**bl** Opening width

**hff** Finished sash height

**bff** Finished sash width

## 2. Security

The safety and warning notes make a distinction between personal injury and damage to property. The signal word "Danger" is used to indicate the risk of personal injury, while the signal word "Caution" is used to indicate the risk of damage to property.

### 2.1 Safety and Warnings



Immediate danger to life and limb!



Immediate risk of product and environment!



#### Useful information and notes

- Observe the applicable accident prevention regulations.
- Close off a sufficient space around the assembly area.
- Check any available scaffolds and installations in terms of their safety.
- Observe the regulations applicable to dowel and fastening material.
- Always work with undamaged and suitable tools.
- Keep plastic films, packaging material as well as small parts away from children – risk of suffocation!

### 2.2 Intended use

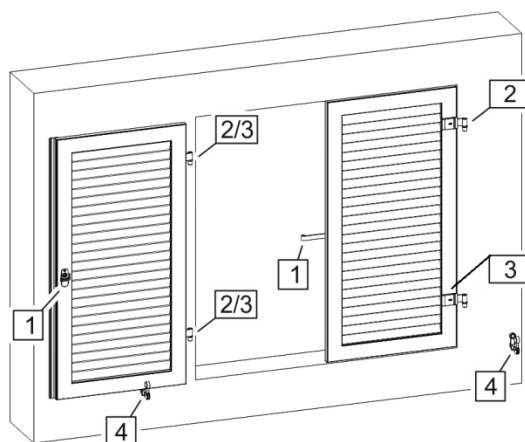
Warranty claims are forfeited if damage is due to the non-compliance with the brochure or the attached document. GRIESSER AST GmbH does not accept liability for consequential damage.

GRIESSER AST GmbH does not accept liability for damage caused by incorrect installation.

Except for the actions described in the operating manual and the assembly instructions, the product may not be altered in any way.

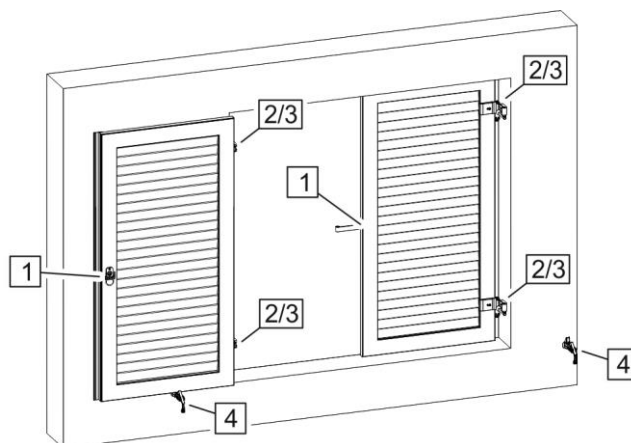
### 3. Product description

#### 3.1 Wing shutters Traditional (external view)



No.	Description
1	Fastener
2	Clamps
3	Band
4	Retention element

#### 3.2 Wing shutters Marco de la cubierta protectora (external view)



No.	Description
1	Fastener
2/3	Clamps / Band
4	Retention element

### 3.3 Marking



Depending on the quantity, the components for the same window shutter can be packed in several cartons.

## 4. Mounting

### 4.1 Preparation for mounting

- **Checking the installation dimensions**  
The main dimensions must be checked according to the dimension sheet prior to installation.  
The installation tolerances according to the Technical Datasheet must be adhered to.
- **Orientation at the installation site**  
Aids (table, crane, ladder, etc.)
- **Selection of tools and mountings**  
Electrical connection with motor connectors
- **Check material**  
Distribute material (how and where)  
Dimension sheets, manufacturing notes
- **Study documents**  
Installation dimension check (width x height)  
Sketches, drawings



### Attention

**Mind assembly view**

### 4.2 Installation tolerances

Deviations from the perpendicular +/- 2mm/m

### 4.3 Installation in an elevated area

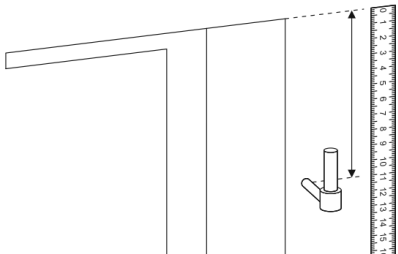
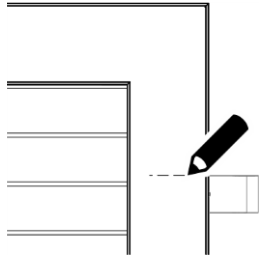

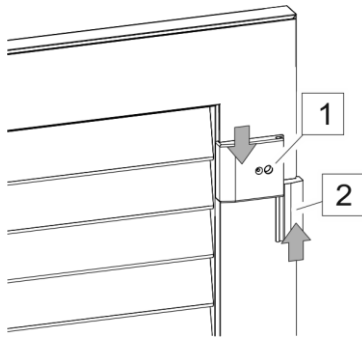
#### Fall protection

Workers run the risk of falling when working at elevated heights. Suitable anti-fall guards must be used.

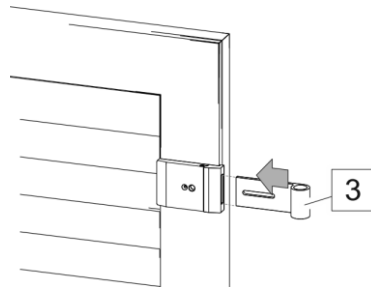
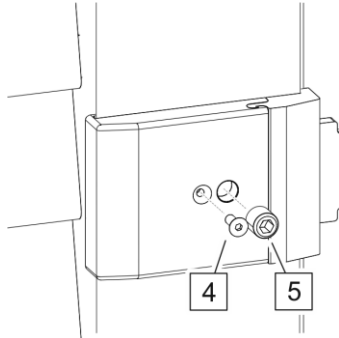
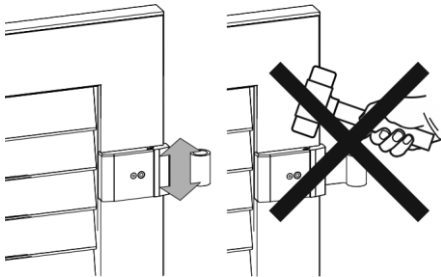
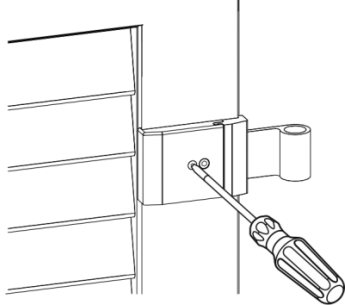
### 4.4 Fasteners


In the installed condition, the wing shutter only meets the requirements of the given wind class when

- the clamps are installed taking the anchor plug extraction force into consideration.
- the processing guidelines of the used dowel pins were observed during assembly.

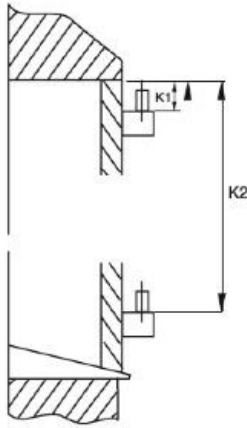
4.5	Pre-installation of SystemFix window shutters (installation from outside)	
1.	Place shutters by position. Measure from the wall brackets.	
2.	Mark the band position on the shutters.	
	 <b>Attention</b>	<b>Attention to the installation situation!</b>
3.	Attach part 1 and 2 to the frames and push together following the direction of the arrows.	

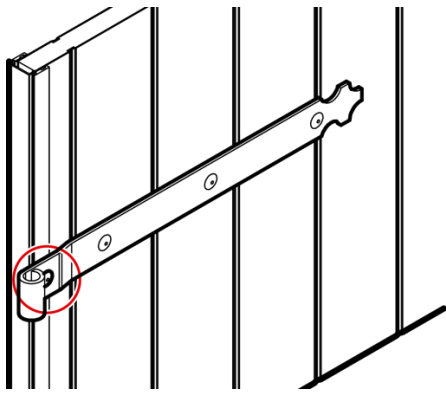


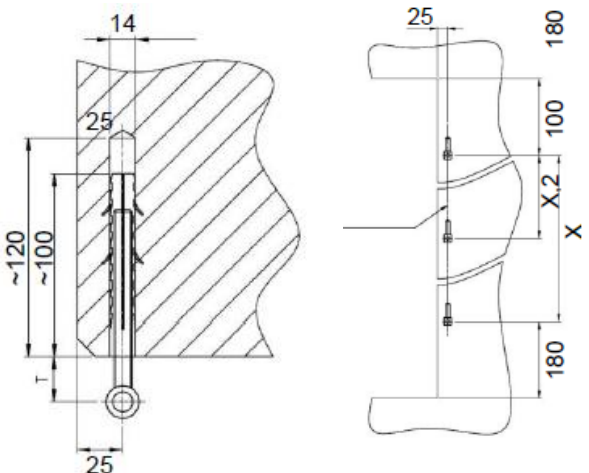
4.	Insert band (3).	
5.	Fasten set screw (5) and tighten screw (4).	
6.	Bring SystemFix to the proper position.	
7.	Tighten the set screw.	

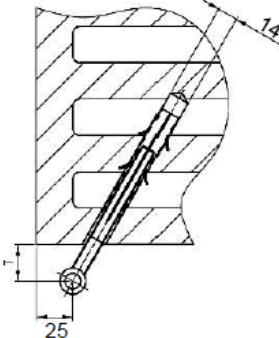
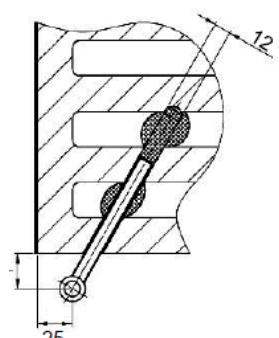
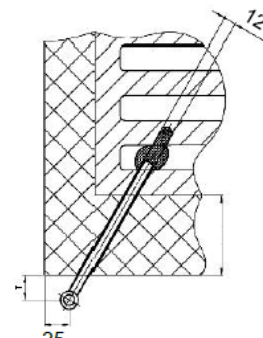





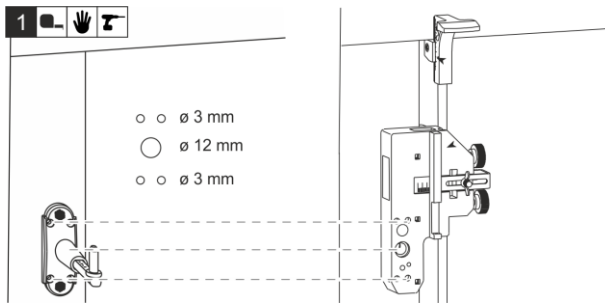
4.6	<b>Pre-installation of JustierFix window shutters (montage from inside)</b>	
1.	Adjust offset and band length (note measurement K1 and K2 on the measurement sheet) and tighten with a hex key screwdriver.	

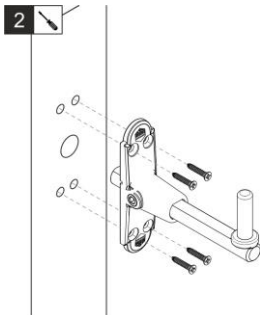



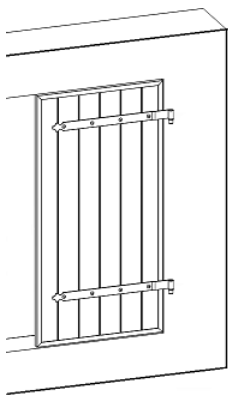
2.	<div data-bbox="295 190 383 280" data-label="Image"> </div> <div data-bbox="406 212 630 280" data-label="Section-Header"> <h3>Attention</h3> </div> <div data-bbox="295 291 670 392" data-label="Text"> <p><b>K1:</b> between 150 – 400 mm  <b>K2:</b> Panel height minus K2  between 90 – 355 mm</p> </div>	
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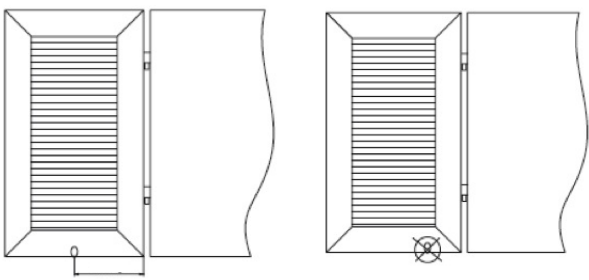
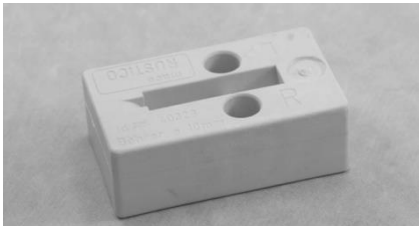
4.7	<div data-bbox="295 728 654 772" data-label="Section-Header"> <h3>Installation of long bands</h3> </div> <div data-bbox="295 795 790 884" data-label="Text"> <p>Also mount the rivet for Model G in accordance with the diagram.</p> </div>	
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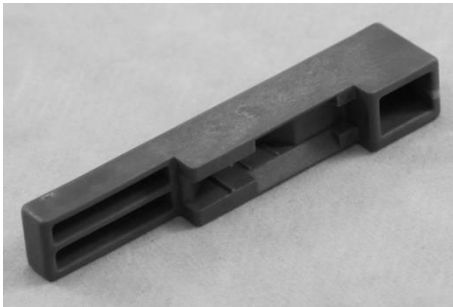

4.8	<div data-bbox="295 1366 686 1411" data-label="Section-Header"> <h3>Installation of the clamps</h3> </div> <div data-bbox="295 1433 813 1489" data-label="Section-Header"> <h4>1. Clamp installation included concrete</h4> </div> <div data-bbox="295 1512 821 1758" data-label="Text"> <p>Place the dowels in the drill hole such that when the clamp is screwed in, no risk of splitting is exerted on the reveal side.</p> <p>The set depth for the clamps should be 80 mm.</p> </div>	
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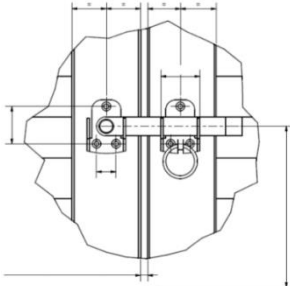

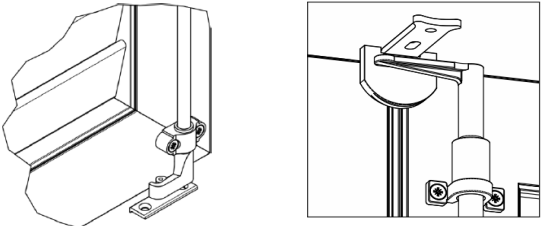
2.	<b>Clamp installation included masonry, brick</b>	
	<p>The drill holes are always made at a 30°.</p> <p><b>Variant 1:</b> Dowel installation</p> <p><b>Variant 2:</b> Perforated sleeve (Hilti Hit) installation</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>Variant 1</b></p>  </div> <div style="text-align: center;"> <p><b>Variant 2</b></p>  </div> </div>
3.	<b>Clamp installation included WDVS</b>	
	<p><b>Variant 1:</b> The installation can be done with glued screw clamps for insulation &lt; 80 mm.</p> <p><b>Variant 2:</b> The installation can be done with installation cylinders for insulation &gt; 80 mm.</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>Variant 1</b></p>  </div> <div style="text-align: center;"> <p><b>Variant 2</b></p>  </div> </div>
	 <p><b>Attention</b></p>	<p><b>Attaching or installing the installation cylinders must be done before stuccoing!</b></p>
4.	<b>Clamp installation on screen frame Marco de la cubierta protectora</b>	
	<p><b>Determine the position of the clamps according to the measurement sheet.</b></p> <p><b>Set drill depth gauge and mark the attachment points.</b></p> <p><b>Drill holes.</b></p>	<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p><b>1</b>   </p> </div> <div>  </div> </div>

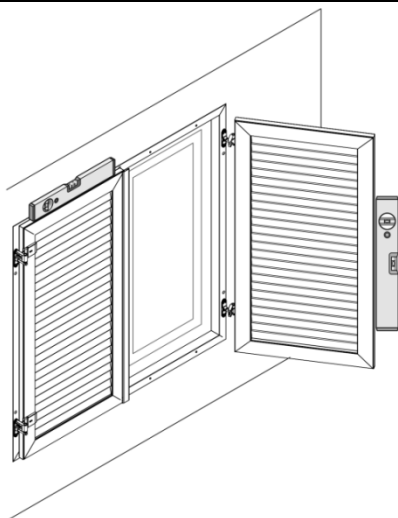
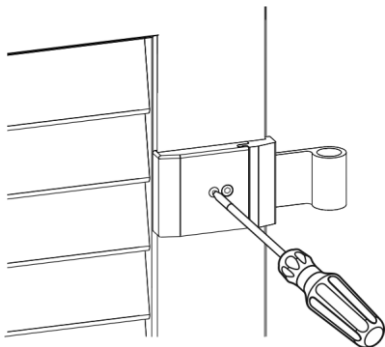
5.	Fasten clamps and tighten.	
	 <b>Attention</b>	
	Pay attention to the correct sealing of the clamps.	

4.9	Installation of the window shutters	
	Set the window shutters in place and check that they function properly.	

4.10	Installation of the shutter retention elements	
	Select the screw-in depth so that the wings, when open, are parallel to the facade.	
1.	Shutter holder	
	Install the shutter retention element in the middle (at least 180 mm from the band pivot axes).	
2.	Convenience casement holder	
	The convenience casement holder is pre-installed on the panels. Determine the position the wall faster and mark using the drill depth gauge. Drill holes and tighten shutter holder.	

3.	<b>Door casement holder</b> The door casement holder is pre-installed on the panels. Determine the position the wall faster and mark using the drill depth gauge. Drill holes and tighten shutter holder.	
	 <b>Attention</b>	Setting the retention element is done appropriate to the surface. (refer to 4.4 Fasteners)

4.11	<b>Installation of the shutter fasteners</b>	
1.	<b>Shutter middle lock</b> Fasten the shutter lock plate with the lever / ring using the frame profile and tighten.	
	 <b>Attention</b>	For movable slats, install the fastener according to the situation!
2.	<b>Rod lock / espagnolette, round</b> Fasten the rod lock / espagnolette in the middle, tighten above and below.	

<b>4.12</b>	<b>Functional check</b>	
<b>1.</b>	<b>Check that the wings are parallel and at the same level and correct as necessary.</b>	
<b>2.</b>	<b>Correct the band position as necessary, adjust using the set screw.</b>	
<b>3.</b>	<b>Check the functioning of the lock.</b>	

<b>5.</b>	<b>Troubleshooting table</b>		
<b>5.1</b>	<b>Trouble-shooting</b>		
	<b>Fault</b>	<b>Cause</b>	<b>Correction</b>
	Poor closing of the window roller shutters	Bands not, or incorrectly, adjusted	Correct the band position
	Window roller shutters rattle	Fasteners/retentions not, or incorrectly, adjusted	Check fastener Correct retention element



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