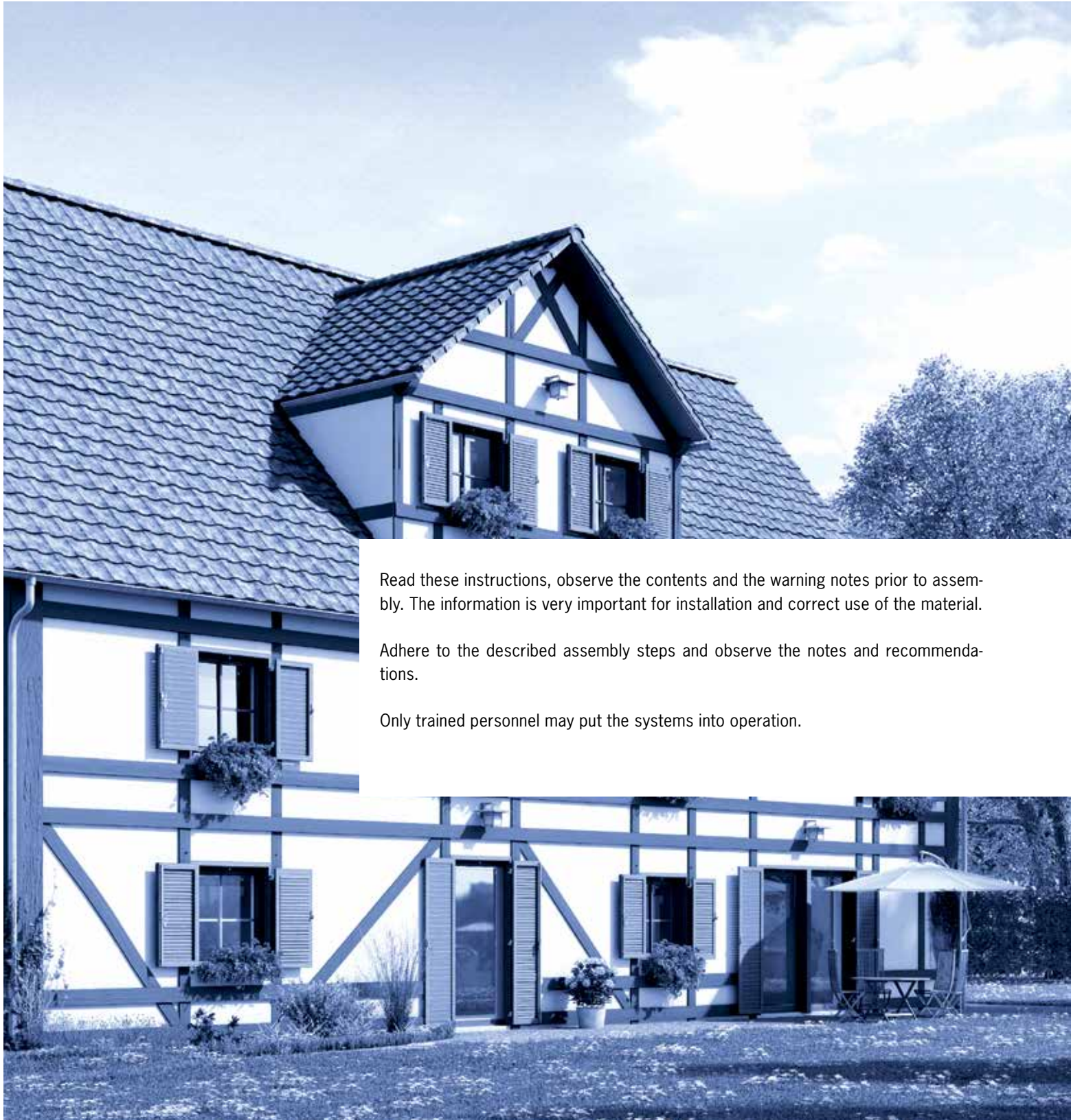


## **Assembly instructions**

### **Wing shutters with window frame**



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 are 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 declares 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

## 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 Window frame (external view)**



### **3.5 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**  
Check material
- **Distribute material (how and where)**  
Dimension sheets, manufacturing notes  
Assembly instructions
- **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

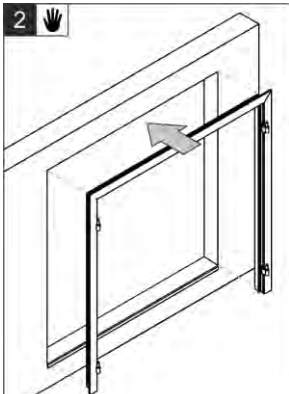
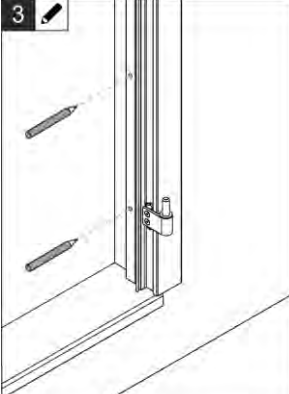
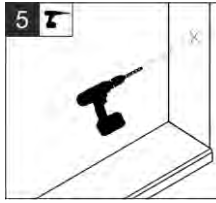
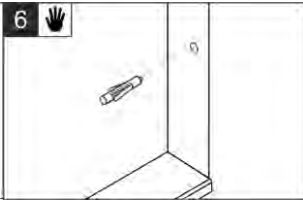
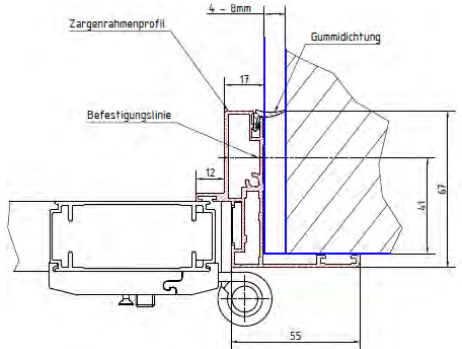
#### **Fall protection**

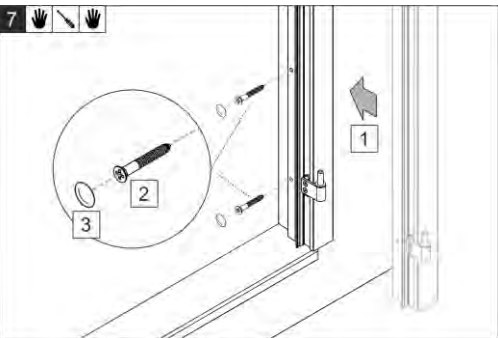
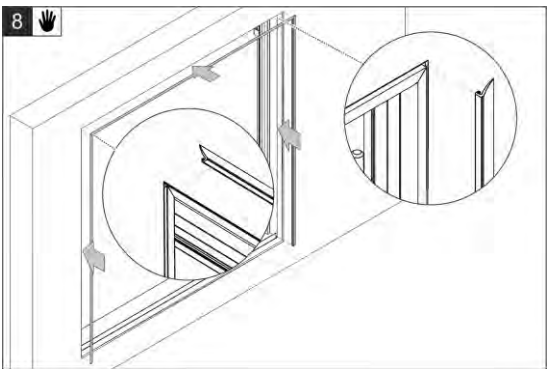

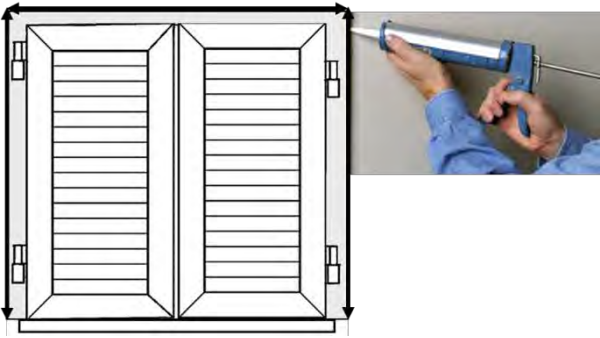
Workers run the risk of falling when working at elevated heights. Suitable anti-fall guards must be used.

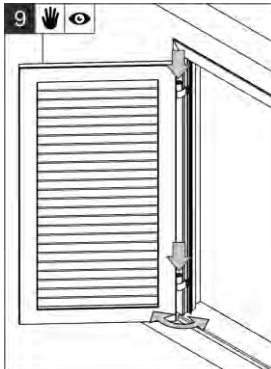
### 4.4 Fasteners

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

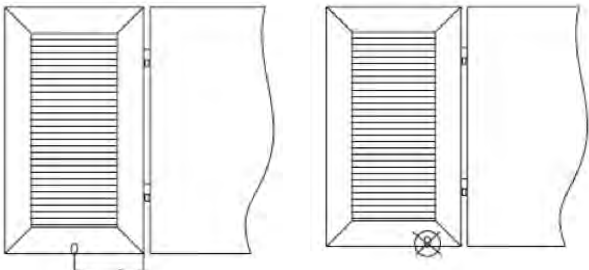
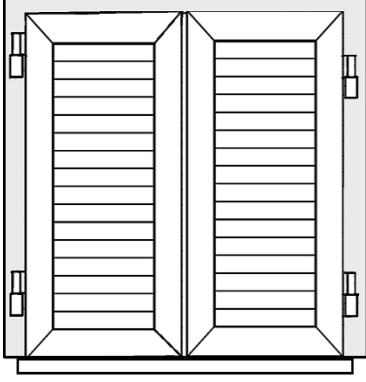
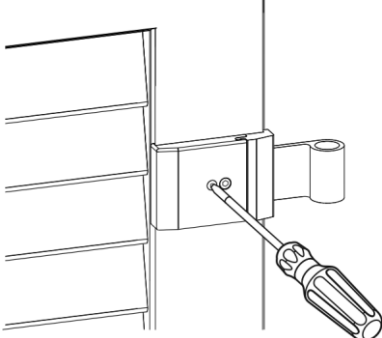
- the clamps are installed taking the anchor plug extraction force into consideration.
- the processing guidelines of the used dowel pins were observed during assembly.

4.5	<b>Installation of window frame (Assembly view from the outside)</b>	
1.	<b>Set the window frame into the window soffit.</b>	
2.	<b>Draw the positions of the pre-drilled holes in the window frame onto the soffit.</b>	
3.	<b>Remove the window frame and drill holes at the points marked. Insert fastening means</b>	<div data-bbox="845 1176 1452 1377">   </div> <div data-bbox="917 1411 1380 1758">  </div>

4.	Set the window frame into the soffit and fix in place. Attach the cover caps.	
5.	Miter-cut the seal to required size and press it into the groove of the window frame.	
	 <b>Attention</b>	When cutting to size, the sealing lip must <b>ALWAYS</b> point outwards!
6.	Seal top and sides of window frame with silicon joint.	

4.6	<b>Installation of the window shutters</b>	
1.	Set the window shutters in place and check that they function properly.	



<b>4.7</b>	<b>Installation of the shutter retention elements</b>	
<b>1.</b>	<p><b>Install the shutter retention element in the middle (at least 180 – 200 mm from the band pivot axes).</b></p> <p><b>Select the screw-in depth so that the wings, when open, are parallel to the facade.</b></p> <p><b>Setting the retention element is done appropriate to the surface. (refer to 4.4 Fasteners)</b></p>	
<b>4.8</b>	<b>Installation with the rod lock at the bottom</b>	
<b>1.</b>	<b>Check the functioning of the lock.</b>	
<b>4.9</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>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	frame seal is missing / faulty	Check fastener Insert or replace seal

<b>6.</b>	<b>Disposal</b>
	Wing shutters must be disposed of in an environmentally friendly manner at the end of the product's service life!



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