

## Operating and Maintenance Instructions Window shutters

Wing shutters | Sliding shutters | Folding sliding shutters | Folding scissor shutters



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### GENERAL INFORMATION

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Window roller shutters provide solar shading and are not security equipment. They can be used either open, closed or at an intermediate position for controlling incoming solar radiation.

The end user must read and observe these Operating and Maintenance Instructions before using the shutters for the first time.

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### OPERATION

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#### Motorized operation

Shutters are operated using central or local wall-mounted or hand-held controls with an Open/Close/Stop button. The operating functions of the controls are described in the operating instructions for the controls.



#### Manual operation

The curtain is moved in the desired direction by hand. Impact buffers are installed as a rule at the beginning and end of the system. The curtain can be locked in these impact buffers.



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**GENERAL HAZARD AND SAFETY INFORMATION**

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Property damage and bodily injury may result from improper handling or disregarding safety information. The window shutters should not be subjected to any additional loads.

When strong winds are building, the window shutters should be closed and locked.

Automated system: When control system indicates wind alert

Manually operated systems: Starting at 60 km/hr wind speed

In the event of damages resulting from non-observance of these instructions or of the accompanying documentation, all warranty claims become null and void.

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**SAFETY INFORMATION FOR OPERATION AND USE**

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**Risk of injury or damage to the product from improper operation**

Keep operating controls out of the reach of children.

May only be operated by trained persons.

Do not touch moving parts when deploying or retracting blinds.

Do not allow jewelry, clothing, hair or body parts to become entangled in the product.

Risk of crushing obstacles in the deployment area.

Stand clear until the end position has been reached.

Attach operating controls within view of the curtain, in accordance with national regulations.

Do not touch any interior parts that are exposed due to damage (e.g. cables/cords, control elements).

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**Damage to the product from icing**

In winter, check products for icing before operating. In the event of icing, do not operate.

Discontinue automatic operation in winter, even if icing has not been predicted.

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**Risk of injury due to inadequate maintenance**

Check products regularly for signs of wear.

Do not use products that require repairs.

Malfunctions may only be rectified by trained and qualified personnel.

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**Use only original Griesser replacement parts**

No assurance is provided that the product will function with accessories, parts or operating equipment made by other manufacturers. Modifications to the product that are not expressly approved by Griesser render warranty or product liability claims null and void.

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**Risk of injury or damage to the product from unintentional operation**

Disconnect products from the power supply power when maintenance work, window washing, etc. is taking place.

Observe safety distances.

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**Risk of damage to the product from improper operation**

When operating manually, do not use force to deploy/retract blinds.

Do not operate products beyond their mechanical limits.

Retract curtains before permitted wind load is exceeded.

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**Risk of injury and damage to the product from interruptions to the power supply (e.g. power outages)**

**Ensure that situations dangerous to people and the product do not arise**

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**ELECTRICAL INSTALLATIONS**

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**Electrical connections may only be carried out by certified electricians**

Additional national regulations regarding the maintenance and repair of electrical systems shall be observed. These may result in an increase in the maintenance intervals.

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## USE

The window shutters meet the requirements of the wind classes indicated in the declaration of conformity and may remain extended only up to the specified wind class.

Window roller shutters provide solar shading and may not be used as security equipment.

The system is not to be used unless it is in a technically flawless condition. Equipment, in particular security equipment, may be neither removed nor disabled. Malfunctions must be rectified by expert personnel before reuse.

When operating a window roller shutter, ensure that no obstacles (flower pots, toys, chairs, etc.) are located in the shutter's path.

The system is not fully functional in the presence of frost, strong wind or other adverse environmental influences.

When operating the blind manually, do not use force if the blind jams. Change the direction of rotation in order to check if the blind has reached the end of the track.

## MAINTENANCE / INSPECTION

The system shall receive maintenance and its safety shall be checked at regular intervals.

Warranty and product liability claims are rendered null and void if the maintenance and safety checks are not performed. We recommend the conclusion of a maintenance contract.

Interval	Location	Task
Every three months	Entire product	Check of normal and desired function
	Soiling of the runner and guide rails	Check runner and guide rails and remove any soiling or foreign objects (e.g. leaf residue, stones, other mechanical obstacles, etc.)
Annually	Fastening of the product	Check fastening points for stable attachment and contact the manufacturer or installer as necessary
	Metallic parts that rub against each other	Oiling of the parts

**Any repairs are to be made by a specialized company.**

## BEHAVIOR IN THE EVENT OF FAULTS

Should a fault be discovered, the device is to be shut down and the manufacturer or installer is to be contacted.

Take the product out of operation.

## CLEANING

The system shall be cleaned every six months and function tests shall be carried out in order to ensure that any non-functioning of the system is discovered at an early date and to detect any possible hazards. For anodized surfaces, use only cleaning agents that have a pH value of 5.5–7 or that are approved in accordance with GRM-RAL GZ 632. No scratching of the surface is permitted when polishing agents are used for cleaning. Under no circumstances should objects be used such as knives or steel wool that could lead to scratches on the surface or on any part of the product.

### What to clean

Glass surfaces

Stainless surfaces

Lacquered surfaces

Anodized surfaces

### How to clean

Wipe off with a damp cloth

Wipe off with a non-scratching cloth

Wipe off with water and soap

With non-alkali soft soap (pH value 5.5–7)

**Cleaning agents with alkaline, acidic or abrasive active ingredients and pressurized steam cleaning may not be used! These could lead to irreparable damage to the surface.**

Aggravated environmental conditions prevail in areas within around 10 km (6 miles) of the ocean, resulting in corrosion. Cleaning and oiling of the moving parts is required at least once annually. Rinse off salt deposits with fresh water. Allow to dry. Spray the armatures with corrosion protection spray after drying. Care must be taken to ensure that no other objects are sprayed (e.g. facade, untreated wood).

**PERFORMANCE DECLARATION WING SHUTTERS**

DoP- Nr. 4013 / 09.2013

1. Product Type:	Griesser Wing shutters
2. Product Name:	Wing shutter
2.1 4001	with fixed slats, simple construction Models: A, R, T, EZ
2.2 4002	with movable slats, simple construction Models: B, E
2.3 4003	with filling, simple construction Models: C, CH, CV, F, G-ISO
2.4 4004	Wing shutter combinations with fixed/movable shutters and/or fillings in double or triple versions Models: A/C, A/CH, A/CV, R/C, R/CH, R/CV, T/C, T/CH, T/CV, EZ/C, B/A, B/C, B/CH, B/CV, E/C, F/B, G/B, A/A/C, A/C/A, A/C/C, C/A/C, C/A/A, C/C/A, C/C/A, R/R/C, R/C/R, R/C/C, C/R/R, C/R/C, C/C/R, T/T/C, T/C/T, T/C/C, C/T/T, C/T/C, C/C/T, C/EZ/C, EZ/C/EZ, B/CB, C/B/C, C/E/C, E/C/E, F/Z, G/Z
3. Intended use:	Solar shading. Use in outdoor areas of buildings and other structures.
4. Manufacturer:	GRIESSER AST GmbH Gewerbestrasse 17 A-6710 Nenzing Austria
5. Authorized agent:	Not relevant
6. Assessment system:	Construction Products Regulation EU 305/2011 System 4, Appendix V
7. Harmonized standard:	EN 13659:2004 + A1:2008
8. Notified official:	Not relevant
9. Declared performance:	The product fulfills the essential properties defined in the following standards when used as intended.

Essential features	Performance	Harmonized standard	Remarks
Resistance to wind forces	Class 6 see remark	EN 13659	Statements regarding the permitted wind resistance limit values are contained on page 9.

10.	The performance of the products pursuant to Numbers 1 and 2 correspond to the declared performance pursuant to Number 9. The manufacturer pursuant to Number 4 is solely responsible for the compilation of this Declaration of Performance.
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Signed for the manufacturer and in the name of the manufacturer by:

GRIESSER AST GmbH



 Martin Barwart  
Head of Product Organization / Manager

Nenzing, February 2018

**PERFORMANCE DECLARATION SLIDING BI-FOLD SHUTTERS**

DoP- Nr. 4013 / 09.2013

1. Product Type:	Griesser Sliding bi-fold shutters with filling and/or lining
2. Product Name:	Sliding bi-fold shutter with filling and/or lining
2.1 4005	Models: S, SL
2.2 4006	Models: Sentum, Sentum Slim
2.3 4007	Models: Platina, Platina Slim
2.4 4008	Models: H Alu 35, H Alu 60, H Alu 35 Slim, H Alu 60 Slim
2.5 4009	Models: H Wood, H Wood Slim
2.6 4010	Models: Soltis, Soltis Slim
3. Intended use:	Solar shading. Use in outdoor areas of buildings and other structures.
4. Manufacturer:	GRIESSER AST GmbH Gewerbestrasse 17 A-6710 Nenzing Austria
5. Authorized agent:	Not relevant
6. Assessment system:	Construction Products Regulation EU 305/2011 System 4, Appendix V
7. Harmonized standard:	EN 13659:2004 + A1:2008
8. Notified official:	Not relevant
9. Declared performance:	The product fulfills the essential properties defined in the following standards when used as intended.

Essential features	Performance	Harmonized standard	Remarks
Widerstand gegenüber Windlasten	Class 6* see remark	EN 13659	Statements regarding the permitted wind resistance limit values are contained on page 9.

\* Sliding bi-fold shutters must be protected against overwinding.

10.	The performance of the products pursuant to Numbers 1 and 2 correspond to the declared performance pursuant to Number 9. The manufacturer pursuant to Number 4 is solely responsible for the compilation of this Declaration of Performance.
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Signed for the manufacturer and in the name of the manufacturer by:

GRIESSER AST GmbH



 Martin Barwart  
Head of Product Organization / Manager

Nenzing, February 2018

**DECLARATION OF CONFORMITY WINDOW SHUTTERS**

GRIESSER AST GmbH  
Gewerbestrasse 17  
A – 6710 Nenzing  
Austria

declares that the products listed below «window shutters» for exterior use

**Wing shutters**

Wing shutter with window frame  
Wing shutter with installation frame  
Wing shutter conventional

**Sliding shutters**

Sliding shutter  
Sliding pantograph shutter  
Sliding bi-fold shutter

conform to the provisions of Directive 2006 / 42 / EC on machinery, including its amendments;  
conform to the provisions of the following European directives:

EU 305/2011	Relating to construction products
2014/30/EU	Electromagnetic compatibility
2011/65/EU	RoHS

conform to the provisions of the following harmonized norm:

EN 13659:2015	Shutters. Performance requirements including safety
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Signed for the manufacturer and in the name of the manufacturer by:

GRIESSER AST GmbH



Martin Barwart  
Head of Product Organization / Manager

Nenzing, February 2018

## WIND CLASSES OF GRIESSER WINDOW SHUTTERS

Products	Shash width max.	Shading width max.	Permissible wind resistance class limit values <sup>1)</sup>
Wing shutter	800	3200	6
Sliding shutter	2000	4000	6
Sliding pantograph shutter	550	4400	6
Sliding bi-fold shutter	600	4800	6 <sup>2)</sup>

<sup>1)</sup> Tests in accordance with product standard EN 13659. Product limit dimensions in accordance with data sheet.

<sup>2)</sup> Sliding bi-fold shutters must be protected against overwinding.

### The values in the table apply with the following reservations:

Product dimensions and use comply with the Griesser technical data sheet.

Installation, fastening and operation are carried out in accordance with installation and operating instructions.

The products should be installed in the soffit / directly on the facade, with the sashes <100 mm away from the facade.

Selecting the wind resistance class depends on the national standard in the country where the product is installed.

If the distance from the facade is between 100 and 300 mm, the value in the table must be reduced by 1 class.

If the distance from the facade is between 300 and 500 mm, the value in the table must be reduced by 2 classes.



#### NOTE FOR AUTOMATIC WINDOW SHUTTERS

Wind sensors cannot protect window shutters against sudden gusts of wind. If a storm is coming, the window shutters must be closed and locked.



#### NOTE FOR MANUALLY OPERATED WINDOW SHUTTERS

For wind speeds of 60 km/hr or more, the window shutters are to be closed and locked.

