

# WINDOW SHUTTER

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## 1. BASIC INFORMATION

Thank you for purchasing this **WOUNDWO** product.

Ensure you have thoroughly read and understood these usage instructions before using the products for the first time, as a prerequisite for trouble-free operation.

For the safety of persons, it is important to observe these instructions. The information in the instruction manual MUST be complied with. A failure to observe the relevant information will render the manufacturer's liability null and void.

Please also observe the notes on the product and packaging.

Please retain all instructions and information (installation and usage instructions) and pass them on to the new owner in the event that you sell the shutter.

## 2. EXPLANATION OF THE SAFETY NOTES

Safety notes and important information are integrated in the text as appropriate. They are indicated with a symbol.



This symbol indicates information that is important for the safety of persons, animals and property or for the operation of the shutter.



This symbol highlights important product information for the user.



### 3. VALIDITY

These instructions apply for the following **WOUNDWO** shutters:

WINDOW SHUTTER WITH MOUNTING FRAME

WINDOW SHUTTER WITH MOUNTING FRAME FOR INSECT SCREEN

WINDOW SHUTTER WITHOUT MOUNTING FRAME FOR MOUNTING DIRECTLY ON THE WINDOW

### 4. SAFETY



All **WOUNDWO** shutters are designed and manufactured according to EN 13659. However, failure to follow the accompanying instructions when operating the equipment may result in risk of injury to people or animals, or may damage the installation or other objects.



The product should be operated only as intended, and only if it is in technically perfect working order, bearing in mind the safety aspects and risks, in compliance with these instructions for use.

Faults that may compromise safety must be removed immediately.

### 5. INTENDED USE

**WOUNDWO** shutters serve primarily to protect from sunlight and heat. In addition, **WOUNDWO** shutters provide enhanced soundproofing, privacy, security and façade protection. Any other use or application over and above the aforesaid is deemed to be a non-intended use. The manufacturer does not accept any liability for damages resulting from non-intended product uses.

No modifications, extensions or alterations may be made to any **WOUNDWO** shutters without the manufacturer's approval. Additional loading due to hanging objects from the shutters may result in damage and is therefore not permitted. Shutters not in perfect working order must be replaced promptly by a specialist supplier.

To replace worn or defective parts, use only spare parts approved by **WOUNDWO**. If parts are purchased from a third-party supplier, there is no guarantee that they are designed and manufactured for the relevant load and safety requirements.

Installation and maintenance activities must be carried out exclusively by specialist companies and qualified technical personnel.

WO&WO Sonnenlichtdesign GmbH & Co KG does not accept any liability for damages resulting from a non-intended use of the product.

**WIND RESISTANCE CLASS / WIND SPEED IN CLOSED POSITION**

Wind resistance class	6	5	4	3	2	1	0
Wind speed in km/h	max. 108	max. 86	max. 68	max. 54	max. 45	max. 38	undefined; product not tested or unsuitable

Wind resistance classes according to DIN EN 13659.

Dimensions in mm																						
Height / width	400	500	600	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	
FL-OM to 2350 FL-M and FL-MIS up to 2,400	1-leaf FL-OM WRC 6																					
	1-leaf FL-M / FL-MIS WRC 6																					
	2-leaf FL-OM WRC 6																					
	2-leaf FL-M / FL-MIS WRC 6																					
	3-leaf FL-OM WRC 6																					
	3-leaf FL-M / FL-MIS WRC 6																					
	4-leaf FL-OM WRC 6																					
	4-leaf FL-M / FL-MIS WRC 6																					

The wind resistance values indicated refer to shutters in closed position!

WARNING: Where systems are latched using bottom shutter lock rubber (FL-351) or with sleeve (FL-352), and for shutter internal hinges (FL 320) WRC 0 applies for all sizes.



The shutters should only be used up to the wind resistance class stated by the manufacturer. Downgrading the wind class due to poor installation conditions is only permitted in extreme cases, and then only with the prior agreement of the end user.

**WIND SAFETY WHEN IN OPEN POSITION**

For all shutter securing options:

At wind speeds over 60km/h the shutters must be closed, otherwise deformation and other subsequent damage may occur. In addition, the wind resistance classes in closed position must be complied with.

**ADDITIONAL RESTRICTIONS WHEN USING WITH STRAP LOCKING DEVICE**

Height / width	Leaf dimensions in mm			
	400	500	600	700
800	Strap locking device	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide
900	Strap locking device	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide
1,000	Strap locking device	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide
1,100	Strap locking device	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide
1,200	Strap locking device	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide
1,300	Strap locking device	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide
1,400	Strap locking device	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide
1,500	Strap locking device	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide
1,600	Strap locking device	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide
1,700	Strap locking device	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide
1,800	Strap locking device	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide
1,900	Strap locking device	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide
2,000	Strap locking device	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide
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2,400	Strap locking device	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide	Strap locking device only possible in combination with pintle, wide

Strap locking device
  Strap locking device only possible in combination with pintle, wide
  Strap locking device not possible

Accessories: detailed information on suitable accessories and integrating them into the system is available from any **WOUNDWO** dealer.

## 7. OPERATION

### 7.1 GENERAL SAFETY INSTRUCTIONS FOR THE OPERATION OF SHUTTERS

-  Window shutters should be operated only by persons who have received instruction from appropriately qualified personnel. Individuals who are unable to fully appreciate the risks associated with incorrect operation and use must be supervised particularly carefully. Never allow children to play with the operating equipment!
-  Operate the shutter only if it has been ensured that there are no obstructions within the area of movement.
-  Do not leave shutters in a partially opened position, where they could bang and slam in the wind. Risk of damage! Always open the shutters fully, or close and latch them.
-  Exposure to sunlight can cause system surfaces or individual shutter components to become very hot; this can result in burn injuries in the event of direct contact.
-  Use only suitable, approved climbing equipment for maintenance, repair or cleaning activities. Climbing aids must not be leant against or attached to the shutter. Ensure that all such equipment is secured firmly on a solid base with adequate support. Never use the awning for support – danger of injury and falling!
-  In the event of frost or freezing, there is a risk of damage to the shutter as a result of ice build-up. Do not use force when trying to operate if shutters are frozen!
-  Debris and/or coarse impurities, especially in the area of the moving system parts, should be removed immediately, as they create a risk of damage to or breakage of the shutter.
-  At wind speeds over 60km/h the shutters must be closed, otherwise deformation and other subsequent damage may occur. In addition, the wind resistance classes in closed position must be complied with.
-  Closed shutters cannot withstand any wind force if the windows / doors are open – so make sure you close your windows / doors fully during high winds. Make sure that no draughts can occur while you are away. Take note of the operating conditions according to the wind classifications (open / closed).
-  Before the maximum permissible wind force is exceeded, additionally secure the system, or take down the shutters and keep them in a safe place.
-  If the shutter can no longer be used due to a technical defect, the danger zone around the shutter must be adequately secured or the leaf / leaves taken down. Falling awning component can injure persons and animals or can damage other items!
-  In the event of any malfunction of the shutter, always contact a relevant specialist dealer.
-  When dismantling or replacing the shutter, please comply with the disposal regulations in force.

### 7.2 SHUTTERS WITH CRANK HANDLE OPERATION

-  If the shutter is fully closed or fully open, do not forcibly turn the crank handle any further – this could damage the system. Always make sure you are cranking in the right direction.
-  Slow down the cranking motion before the shutter is fully opened / closed. This will prevent the shutter from impacting violently against the façade or the window.
-  Do not leave in partially open position.

### 7.3 SHUTTERS WITH INTEGRATED INSECT SCREEN

-  Integrated insect screen roller blind – manual operation from top to bottom or diagonally: after the end bar has been manually unlatched, the roller blind (insect screen) will scroll up a few inches by itself. If necessary, hold the screen in place by hand to prevent it from being damaged by colliding too fast with the end stop. For technical reasons, in slimline systems there is no built-in brake mechanism.
-  The integrated insect screen roller blinds are pre-tensioned by means of a spring shaft. Never try to disassemble the fabric shaft – danger of injury! Always contact your local specialist dealer regarding maintenance and repairs.
-  When using an integrated insect screen in a door space (roller blind, tilting frame, sliding frame) always check whether the insect protection system is open or closed. Because it allows good visibility, it is easy to forget that the insect screen is in place. Attempting to walk through the screen while it is in place can cause personal injury and/or damage the screen.
-  When using an integrated hinged door insect screen with automatic door closer, the hinged screen closes automatically. When revolving doors are closing automatically, ensure no persons or objects are between the revolving leaf and the frame profile. – Risk of crushing!
-  When using an integrated sliding door insect screen take care to ensure that no one and nothing is in the space between the sliding screen and the frame – danger of crushing!

## 8. CLEANING AND SERVICE



When cleaning and maintaining the shutter, no system components or covers should be opened or removed. If this should be necessary, contact your dealer.



Heavy soiling can make the movement stiff or cause other damage and shorten the service life of the product. You should therefore regularly remove any adhering dirt or debris.



To clean, use only standard, commercially available detergents and clean water. Do not use harsh detergents, solvents such as alcohol or petrol, abrasives or scouring cloths.



The coated aluminium parts should be cleaned at least once a year, or more often in the event of heavier environmental soiling.



Remove dust and dirt accumulations from the coated aluminium parts by washing with warm water with an admixture of neutral wetting agents that do not damage aluminium. Use a soft sponge or cloth to clean. Acid and alkaline cleaning agents are not suitable.



Mechanical instruments with abrasive action which damage the paint surface are unsuitable for cleaning.

## 9. SERVICE



Safe and risk-free use of the shutter can only be guaranteed if the system is checked and maintained annually. You should regularly inspect your shutter for signs of wear or damage. Do not use shutters in need of repair! Always contact your local specialist dealer for any necessary maintenance or repair work.



To replace worn or defective parts, use only spare parts approved by **WOUNDWO**, otherwise any guarantee and warranty claim will be voided.

## 10. DISMANTLING



Incorrect dismantling of the shutter can result in personal injury or damage to property. Therefore, always have the equipment disassembled by appropriately qualified personnel from a specialist company. Instructions and notes on removal can be found in the relevant installation guide.



The removal and re-installation of the product must be carried out by a specialist company in accordance with the current guidelines and standards. Always request any missing documentation from your **WOUNDWO** dealer prior to removal or re-installation.



If your product is no longer usable, dispose of it in accordance with the applicable legal regulations.

## 11. WARRANTY



The statutory limitation period for warranty claims applies. Regular maintenance is a condition precedent. Wear parts such as gear-wheels, bearings and supplied fittings are excluded from the warranty.



The assessment of the coating surface is carried out in accordance with the quality regulations of the GSB (Gütegemeinschaft für die Stückbeschichtung von Bauteilen, the quality association for batch coating of building components). The assessment is carried out from a vertical viewing distance of 3 meters, outdoors, in diffuse, natural daylight. Anything that is not visible to the naked eye from this viewing distance is not considered a defect in the coating. However, there may be minor variations in colour from product to product, even though the products have been coated using the same colour (e.g. RAL). Depending on the support substrate, processing technology, batches or duration of weathering, variations in colour may occur. Due to the technical design, these variations cannot be avoided and are not grounds for a warranty claim.

**EC DECLARATION OF CONFORMITY** in accordance with the Machinery Directive 2006/42/EC

MANUFACTURER: W-Sonnenschutzsysteme GmbH  
Hafnerstraße 193, 8054 Graz, AUSTRIA  
hereby declares that



PRODUCT NAME: **WINDOW SHUTTER**

MODEL CODES: FL-M1, FL-M2, FL-M3, FL-M4  
FL-MIS1, FL-MIS2, FL-MIS3, FL-MIS4  
FL-OM1, FL-OM2, FL-OM3, FL-OM4

INTENDED USE: The shutter is a cover plate that serves as a sunshade, privacy screen or glare shield in front of a window or door. External cover plate with a range of combinable frame profiles and infill elements for customised adaptation to the building exterior.

complies with the provisions of the EC directives listed above.

## THE FOLLOWING STANDARDS AND TECHNICAL SPECIFICATIONS HAVE BEEN USED:

- External blinds – Performance requirements including safety EN 13659:2009 + EN 13659:2015
- Low Voltage Directive 2014/35/EU
- Directive relating to electromagnetic compatibility 2014/30/EU
- Product Safety Directive 2001/95/EC

Subject to proper use as intended and the manufacturer's instructions, and installation in accordance with the applicable standards and recommendations of the manufacturer.

Dipl. Kfm. Volker Schmidt  
Authorised representative

Graz, Juni 2019

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VAT NO. ATU 73514226, Commercial register: Regional court Graz No. 496423 I  
Authorised representative: Volker Schmidt

**DECLARATION OF PERFORMANCE DOP NO. 700011904**

Identification code  
for the product type: WINDOW SHUTTER  
(Window shutter with mounting frame,  
Window shutter with mounting frame for insect screen  
Window shutter without mounting frame for mounting directly on the window)

Intended purpose: Sun protection as an external shutter

Manufacturer: W-Sonnenschutzsysteme GmbH, Hafnerstraße 193, 8054 Graz, AUSTRIA

Authorised representative: Dipl. Kfm. Volker Schmidt

Certification: According to Rating System 4 of the Construction Products Regulation 305/2011/EG

Declared performance: Wind resistance class 0 – 6 pursuant to EN 13659:2009

The order's delivery slip, on which the product-specific wind resistance classes per order item are printed, serves as a supplement to this Declaration of Performance.

When used as intended, the product satisfies the essential properties defined in the following standards.

Harmonised standard: EN 13659:2009-01 Shutters – Performance requirements including safety

Dipl. Kfm. Volker Schmidt  
Authorised representative

Graz, Juni 2019

**14. PRODUCT IDENTIFICATION**

To make it easier to handle future questions or suggestions about the product, the dealer should document the product data.

Product name	<input type="radio"/> WINDOW SHUTTER WITH MOUNTING FRAME <input type="radio"/> WINDOW SHUTTER WITH MOUNTING FRAME FOR INSECT SCREEN <input type="radio"/> WINDOW SHUTTER WITHOUT MOUNTING FRAME FOR MOUNTING DIRECTLY ON THE WINDOW
<b>WOUNDWO</b> order number	
Installation date	
Handed over by/on: (Dealer's signature)	

