

User, maintenance and
precautions manual

windows, exterior pedestrian doors and blinds



STRUGAL

MANUFACTURER INFORMATION

Product: Aluminum exterior windows and pedestrian doors.

Use: Communication in residential and commercial locations.

Company name: NAZAN Aluminium, S.L.

Manufacturer's address: Ctra.
Tembleque, 80, 45860 Villacañas, Toledo

Contact phone number: 925 11 80 37

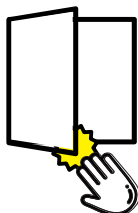
Email address: info.alu@nazan.es

USE, MAINTENANCE AND PRECAUTIONS FOR EXTERIOR PEDESTRIAN WINDOWS AND DOORS MANUFACTURED BY STRUGAL

I.1. SAFETY WARNINGS

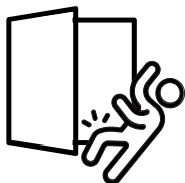


SAFETY INSTRUCTIONS



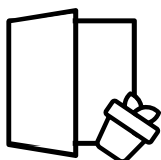
PINCHING HAZARD

Possibility of pinching the frame and sash when handling windows, patio doors and entrance doors.



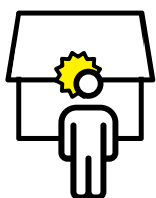
DANGER OF FALLS

Falls can occur due to open elements.



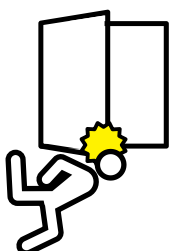
DANGER OF OBJECTS FALLING WHEN STRUCK

Due to air currents, open elements can close, hitting objects located between the frame and the sash.



DANGER OF ACCIDENT WHEN THE ELEMENTS CLOSE

Horizontal hinged elements can strike unexpectedly when unlocked. Pivoting-tilting elements can cause accidents if they open or close suddenly.



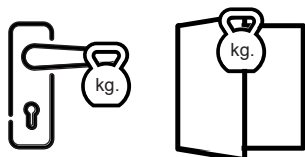
DANGER OF ACCIDENT WHEN THE ELEMENTS ARE OPEN

Silahoja is open, there is a risk of accidents when moving underneath it.

I.2. MISUSE

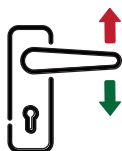


PLEASE TAKE NOTE OF THE FOLLOWING INSTRUCTIONS TO AVOID DAMAGE TO WINDOW AND DOOR COMPONENTS.



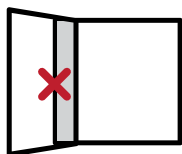
DO NOT LOAD THE FRAMES AND LEVERS WITH ADDITIONAL WEIGHTS

This excess weight can cause frame deformations and damage to the levers.



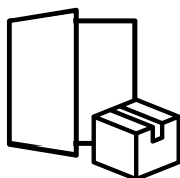
OPERATE THE LEVER IN THE CORRECT DIRECTION AND DO NOT FORCE IT BEYOND THE STOP POSITION

The extra load can cause the levers to be damaged.



DO NOT PRESS THE OPEN SHEET AGAINST ANY WALL PROTRUSIONS

Drafts of air could suddenly open and close the leaves and break them.



DO NOT PLACE ANY OBSTACLE BETWEEN SHEET AND FRAME

This additional stress can cause deformations in the frames.



DOUBLE DOORS SHOULD NOT BE OPENED THROUGH THE PASSIVE LEAF (EXCEPTION: PANIC DOORS)

This extra strain can cause frame deformations and damage to locks.

- ① Active leaf with latch
- ② Passive leaf



DO NOT OPEN THE LOCK WITH THE DOOR LEAF OPEN

Closing the door with the lock engaged can cause damage to the frame.

1.3 STORAGE

Windows and pedestrian exterior doors manufactured and supplied by STRUGAL must be stored in a cool, dry environment, and temperatures must never exceed -30°C/+70°C. Storage should only take place in suitable, enclosed rooms and not outdoors. Condensation must be prevented during both transport and storage.

1.4. CLEANING OF STRUGAL FINISHED PRODUCTS

Exterior pedestrian windows and doors are exposed to harsh environmental conditions, including sun, rain, and dust accumulation. This has a negative impact not only on their appearance but can also affect the durability of the installed product components through the development of corrosion.

In urban or industrial environments, industrial gases and waste dissolved in rainwater are the main culprits behind deterioration. Dirt accumulates primarily in the angles and corners of windows and doors where dust collects. Dirt from dust projections and that generated during construction (plaster, cement, etc.) must also be considered. It is essential to clean any remaining dirt, cement, mortar, or any other contaminant that may have been deposited during installation.

To prevent this degradation, products supplied by STRUGAL must be cleaned regularly, on a schedule that depends on their location and level of exposure. As a general guideline, the window or door should be cleaned at least four times a year using water with a neutral cleaning agent, applied with soft, absorbent sponges or cloths. It should then be rinsed with clean water. Never use cleaning agents with a pH below 5 or above 8, nor wire brushes or steel wool scouring pads.

In areas near chemical industries or less than 5 km from the coast, the above operations must be carried out at least once a month to avoid saltpeter stains or other corrosive substances.

Cleaning hot or sunny surfaces should be avoided, especially for profiles.

Remove dust and dirt from between the joints and the outside of the frames with a vacuum cleaner. Clogged drain grooves can be cleaned with a thin wooden or plastic rod.

Rub all gaskets with grease or petroleum jelly. This will keep them flexible and prevent them from sticking together during the winter months. Inspect these gaskets frequently to ensure they are free of damage. If a defective gasket needs replacing, contact a specialist company authorized by STRUGAL.

In the hinge areas, the inner joints of the leaf are interrupted, so small controlled air infiltrations are normal in this area.

1.5. USER MAINTENANCE

The user must check the correct operation of the locking and operating mechanisms. If any breakage or loss of watertightness is observed in the profiles, a qualified technician authorized by STRUGAL must be notified.

In the case of sliding or lift-and-slide windows and doors, the channels between the tracks should be cleaned regularly. For this purpose, the use of vacuum cleaners is recommended.

In any case, you should avoid using abrasive materials, solvents, acetone, alcohol, or other products that may damage the surfaces of the window or door.

Although the fittings are supplied with a protective layer of grease, once installed, they should be lubricated at least once a year with a small amount of acid-free oil and grease for protection. This will maintain the smooth movement of the mechanisms and ensure ease of use for a long time.

Doors with locks should have their bolt and latch greased at least once a year.

The adjustment work on the hardware, especially in the area of the angle hinges and the stays, as well as the replacement of parts and the unhooking and hooking of the opening leaf, must be carried out by a company specialized and authorized by STRUGAL.

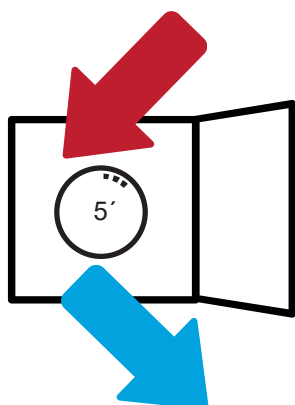
Every three years, or sooner if any lack of watertightness, breakage or malfunction is noticed, the window or door will be inspected and any defects that may appear will be repaired.

I.6. PROPER VENTILATION

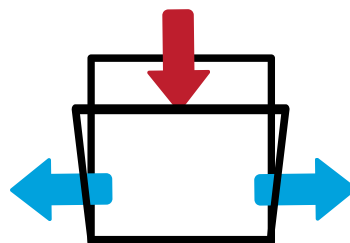
The airtight seal of your new STRUGAL windows and doors prevents the exchange of dry air between the inside and outside. Furthermore, your home has various sources of humidity (kitchen, bathrooms, plants, people, etc.) that can cause moisture in the air to condense on your window or door. This moisture can lead to dampness or mold on the walls.

Therefore, it is essential to ventilate during the day and, depending on the number of occupants and use of the window and/or door, for at least 5 minutes.

Prolonged ventilation should be avoided during periods of use of heating and/or cooling equipment.



RAPID VENTILATION



PROLONGED VENTILATION

only when the heating is off

USE, MAINTENANCE AND PRECAUTIONS FOR BLINDS MANUFACTURED BY STRUGAL

II.1. GENERAL INSTRUCTIONS

The user should know that the roller blind they have purchased is a product used as a sunscreen and is not a closing device. Before using it for the first time, the user should read and take into account these instructions for use and maintenance.

II.2. GENERAL HAZARD AND SAFETY INFORMATION

II.2.1. Usage warnings

It is the user's obligation to READ this manual CAREFULLY and COMPLY WITH ALL THE RECOMMENDATIONS indicated regarding safety measures to be taken into account according to its use.

Any improper use of the blind's operating mode could lead to impaired performance, as well as additional risks to the user or users in the vicinity of the blind.

The user MUST NOT, under any circumstances, disable any of the safety measures or devices installed on the blind, nor install electrical or mechanical components that could increase the risks in the normal use of the blind.



Danger of injury or damage to the product due to incorrect operation.

- Keep operating elements out of the reach of children. Do not allow them to access and/or manipulate the controls, automation systems, installed drives, or their components.
- Operation must be carried out only by trained personnel.
- Do not grab the moving parts of the blind when folding or unfolding the fabric.
- There is a risk of crushing due to obstacles in the retractable area.
- Avoid having items that could get caught and wrapped around the blind fabric (curtains, clothing, hair or body parts).
- Do not place objects on the blind.
- No people should be near the shutter during the raising and lowering of the shutter.
- Do not touch internal parts that may have been exposed due to possible damage (e.g. cables/conductors, control elements,)



Dangers of suffering injuries due to faulty maintenance

- Check the products periodically for signs of wear. (e.g., if the drive belt breaks, the cloth may fall off).
- Do not use products that need to be repaired.
- The user must inform the installer if they detect any defects or anomalies in the operation of the blind.

II.2.2. Use of blinds

The function of the blind is to protect the interior environment against solar radiation, wind, cold and, in some cases, to provide additional security to the home; therefore, the installed product must be intended solely for the raising and lowering of the blind panel.

The user must avoid obstructing the blind guides to prevent the possible blocking of the blind panel during the raising and lowering maneuver.

Improper use of the installed manual operating mechanism that could cause breakage of said mechanism should be avoided.

II.3. INSTRUCTIONS RELATING TO THE MAINTENANCE AND CLEANING OF THE BLINDS

The maintenance of the blind should always be carried out by qualified personnel, so the installer must have a service for assistance and inspection of the product to ensure its maintenance or that of the adjacent elements.

Maintenance of the blinds performed by qualified personnel refers to aspects related to:

- Replacement and/or repair of the manual or motorized operating mechanism.
- Replacement and/or repair of accessories and elements involved in the compact system.

The panels of roller shutters are exposed to harsh environmental conditions, including sun, rain, and dust accumulation. This has a negative impact not only on their appearance but can also affect the durability of the shutter components through the development of corrosion.

In urban and industrial environments, industrial gases and waste dissolved in rainwater are the main culprits behind deterioration. Dirt from dust and debris generated during construction (plaster, cement, etc.) must also be considered.

To prevent this deterioration, blinds should be cleaned regularly, on a schedule that depends on their location and level of exposure. As a general guideline, the end user should clean the blinds at least four times a year using water with a neutral cleaning agent, applied with sponges or soft, absorbent cloths. Afterwards, rinse with clean water. Never use cleaning agents with a pH below 5 or above 11, nor wire bristle brushes or metal wool scouring pads.

In areas near chemical industries or the seafront, it is advisable to perform the above operation at least once a month, to avoid saltpeter stains or other corrosive substances.

Cleaning hot or sunny surfaces should be avoided, especially for lacquered profiles.

II.4. ADDITIONAL SPECIFICATIONS FOR MOTORIZED BLINDS



• **IMPORTANT SAFETY INSTRUCTIONS**

• **WARNING: IT IS IMPORTANT FOR THE SAFETY OF PEOPLE THAT THESE INSTRUCTIONS BE FOLLOWED**

• **SAVE THESE INSTRUCTIONS**

For inspection or maintenance of electrical parts, the blind must be safely disconnected from the power supply.

Children are not allowed to play with the blind control device. Keep remote controls away from children.

Frequently inspect the installation for signs of wear or damage to the cables. Do not use them if repair is required.

Special care must be taken when manually unlocking the shutter with it retracted, as it may fall quickly due to aging or breakage of the straps and brakes.

For blinds that can be operated from a position without a view of the product, the user must take appropriate measures to prevent the blind from being operated during maintenance in the vicinity, such as cleaning the window or adjacent wall.

II.5. FINAL CONSIDERATIONS ON PRECAUTION AND SAFETY

Incorrect operation



Keep operating elements out of the reach of children.



Prevent items from getting caught or rolled up by the blind fabric.



No people should be near the lift during the lift operation.



Do not grab the moving parts of the blind when folding or unfolding the fabric, and do not push the blind upwards.



Do not place objects on the blind.



Danger of crushing due to obstacles in the retractable area.



Do not touch any exposed internal parts.

Faulty maintenance



Check products periodically for signs of wear and tear, and do not use them if they need repair.



The user must inform the installer if they detect any defects in the operation of the blind.

PERSIANAS MOTORIZADAS



For inspection of electrical parts, the blind must be disconnected from the power supply.



Frequently examine the installation for signs of wear or damage to the cables.



Take appropriate measures to prevent the operation of the blind during maintenance in the vicinity, such as cleaning the adjacent window or wall.



Keep remote controls away from children.



Take special care when manually unlocking the shutter with it folded down, as it may fall due to the breakage of straps and brakes.

II.6. RESOLUTION OF THE MOST FREQUENT INCIDENTS WITH BLINDS

The following table serves as a guide to help resolve the most common problems that commonly arise when operating blinds:

INCIDENT	POSSIBLE PROBLEM	POSSIBLE SOLUTION
Shutter lock during operation	• Displacement of the slats • Obstruction in the side guides	• Call your technical support service • Check that the guides do not contain any items inside.
The blind makes noise and doesn't move smoothly.	• Dirt in the guide	• Clean and grease the guide
Falling or sagging of the blind fabric	• Brace breakage	• Call your technical support service
Inserting the blind fabric into the drawer	• Breakage or fall of the stops at the end of the blind fabric	• Call your technical support service
The blind does not roll up completely	• Incorrect adjustment of the motor's limit switch	• Call your technical support service
The blind neither goes up nor down	• The remote control battery has run out • The remote control is not working • Possible interference in the vicinity • There is no electrical voltage • The engine is broken	• Replace the battery with a new one • Buy a new controller • Wait for the interference to clear • Check the power supply • Call your technical support service
The motor is locked after a period of continuous operation.	• Activation of thermal protection	• Let the engine cool down and, after a few minutes, try again.