

SIGMA

TILT & TURN WINDOW



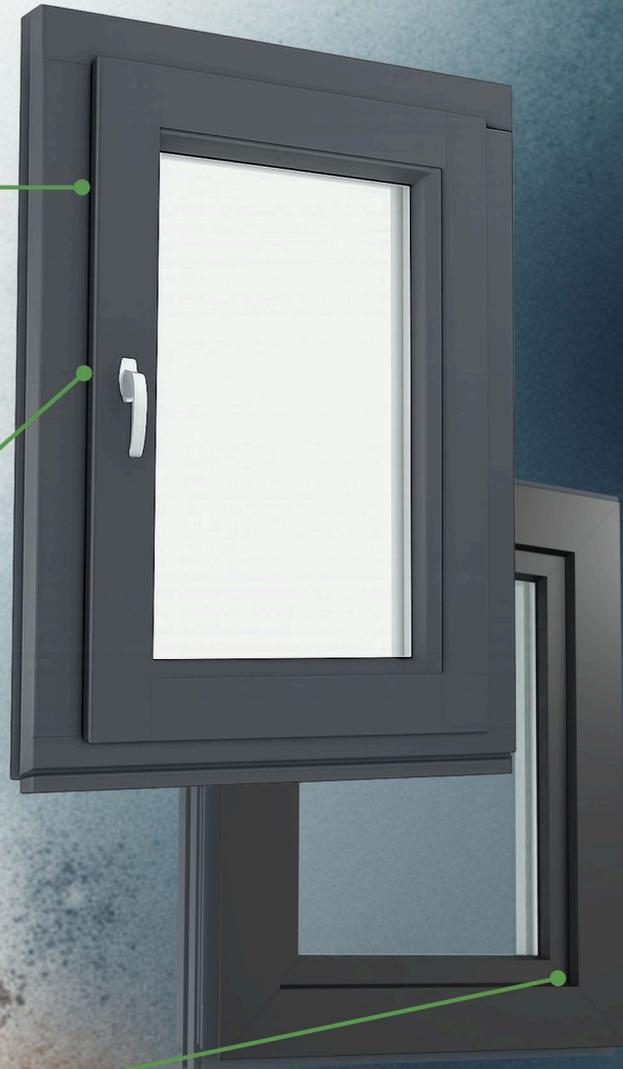
**Roto Multipoint Locking
Espagnolette**



Roto Line Handles



Concealed Hinge Mechanism



VENTILATION POSITION



Ensure the handle is pointing downward with the window closed



Turn the handle 90 degrees so its is at right angle to the frame



The sash can safely tilt into the room for everyday ventilation



To close the window, push the sash back into the frame



Turn the handle downwards to close the window

CLEANING POSITION



Ensure the handle is pointing downward with the window closed



Turn the handle 180 degrees so it points upwards



The window can now open into the room for cleaning. Clean the external glass safely from the inside.



To close the window, push the sash back into the frame



Turn the handle downwards to close the window



Do not use windows in the cleaning position for ventilation purposes.

Always ensure that child safety restrictors are re-engaged when closing the window.

SAFETY RESTRICTIONS



Ensure that suitable restrictors / locks are installed for safety purposes. Restrictors and locks limit the opening angle of the sash, particularly in the "turn" mode, thereby reducing the risk of accidental falls. The "tilt" function provides safe ventilation but does not eliminate risk when the window is fully opened. Restrictors should be compliant with safety standards and should be inspected periodically to ensure continued safe operation.

Restrictor / Lock Options



Lockable handles can be set to lock in 90 degree position for child safety purposes



Lockable cable restrictors can be installed for child safety purposes

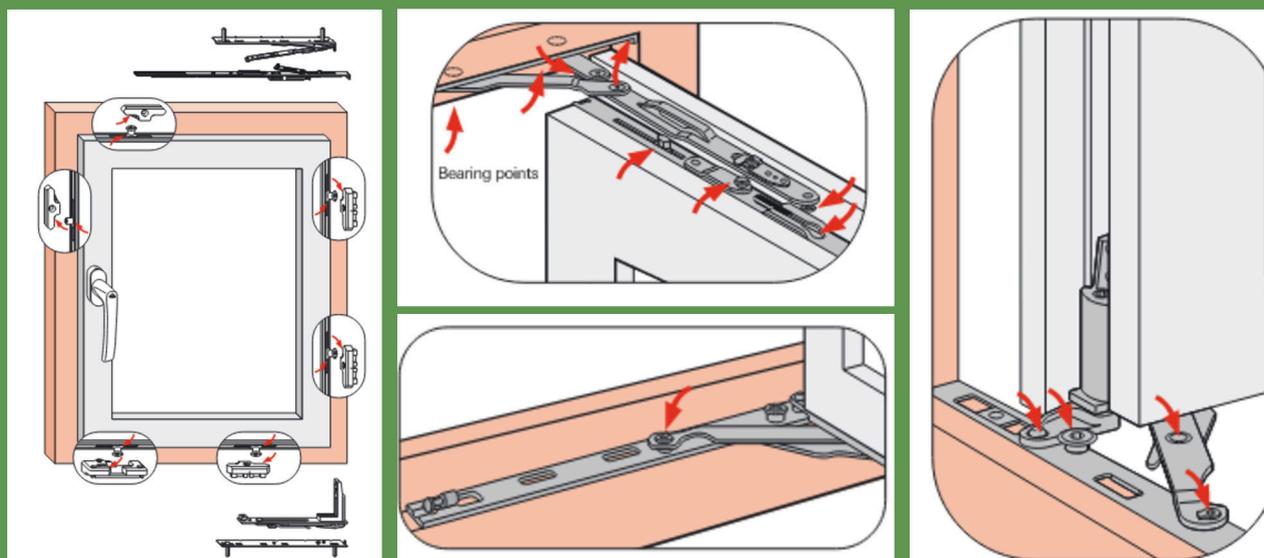


Lockable restrictors can be installed for child safety purposes

MAINTENANCE



Carefully apply recommended lubricant into the following areas and wipe off any excess lubricant.

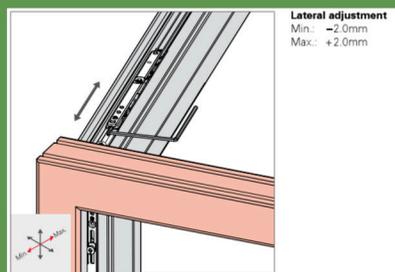


- Inspect for and eliminate any airborne debris that may be trapped between the frame and sash. Open the window in the cleaning position to facilitate this process.
- Clean all surfaces thoroughly and ensure that the weather seal is clean, dry, continuous, and undamaged. Avoid applying paint to the weather seal, as this can impair the window's performance.
- Verify that the handle operates freely and smoothly. If it feels stiff, apply a recommended lubricant to the locking tongues or bolts while they are in their extended position.
- Ensure that there is no water vapor trapped inside the sealed unit and that the glass is free from damage.
- Examine all timber surfaces for any signs of damage and determine if the finishing, such as paint, requires refreshing.
- Check that all handle and ventilator controls are secure. If any are loose, tighten them using an appropriate screwdriver. Ensure they are tightened enough for smooth operation without being overly tight.

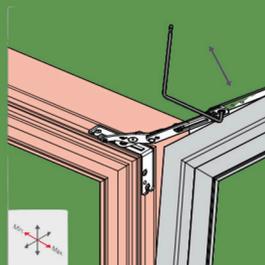
ADJUSTMENTS



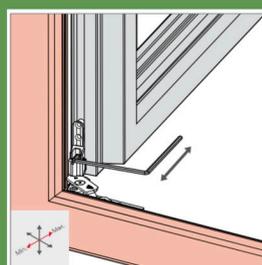
The following illustrations provide guidance on how make adjustments to the product.



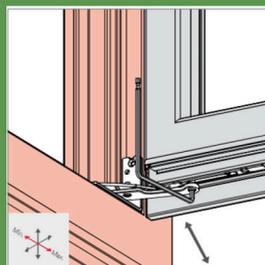
Lateral adjustment
Min.: -2.0mm
Max.: +2.0mm



Height adjustment
Min.: -1.0mm
Max.: +2.0



Lateral adjustment
Min.: -1.5mm
Max.: +2.0mm



Gasket compression
Min.: -0.5mm
Max.: +0.5

Cam type	Adjustment range	Gasket compression adjustment (mm)	Height	Side view	Tools
E cam					
	90°	+/-0.8mm			
P cam					
	90°	+/-0.8mm			

Cam type	Adjustment range	Gasket compression adjustment (mm)	Height adjustment / mm	Side view/Top view	Tools
	90°	+/-0.8mm	+/-0.2mm	<p>0 = Original position</p> <p>-0.8mm max. adjustment</p> <p>+0.8mm max. adjustment</p>	
	180°	-	+/-0.4mm		
	270°	+/-0.8mm	+/-0.6mm		
	360°	-	+/-0.8mm		