

TECHNOLOGY IN MOTION



MACO RAIL SYSTEMS

SLIDING HARDWARE



Three functions combined in a single hardware unit

PARALLEL SLIDE HARDWARE
TIMBER AND PVC

MACO
RAIL SYSTEMS



The PAS hardware in the RAIL SYSTEMS series is a high-grade sliding solution with parallel retract functionality that complements the product range. It is based on the proven roller technology used for the Slide&Tilt hardware. MACO offer a variety of striker plates to insure that the PAS system is compatible with a wide range of PVC profile systems and Timber units. In addition to the flexibility and ease of use, the system offers occupants the option to enjoy secure ventilation around the entire sash.



**The parallel slide hardware system
from MACO**



Superior operation and ventilation for passive house applications



Retracting distance 125 mm

The PAS hardware excels with a retracting distance of 125 mm. This makes it possible to accommodate very thick sash profiles that are primarily used in eco-conscious new builds.

Examples of this can be found within the construction of Passive Houses and Zero Carbon Homes.



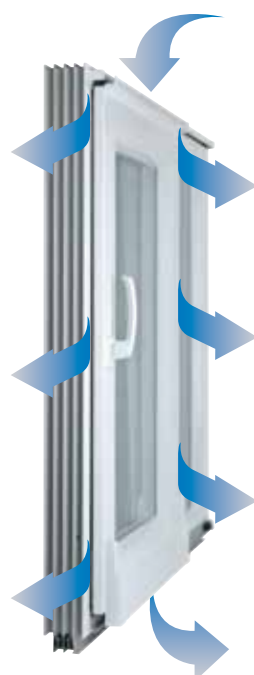
Integrated energy store

The user need only exert minimum force to close the sash. The Intergrated energy store insures that the sash is automatically pulled towards the frame in one fluid effortless motion.

damper on the scissor stay. The suspension package installed in the energy store preserves the energy released when the sash is opened. When you close the sash, the stored energy is released to help move the sash back into the closed position. Discrete guide blocks attached to the frame are used to trigger the operation.



This ease of operation is achieved through a combination of the Intergrated energy store located in the roller and the



Healthy peripheral ventilation

For peripheral ventilation in the parallel position, the sash retracts a distance of 6mm. Here, the parallel retract position is hardly visible from the outside and remains securely locked allowing occupants to enjoy the piece of mind secure ventilation affords.

PAS is supplied as standard with i.S.security roller for the smoothest possible operation.



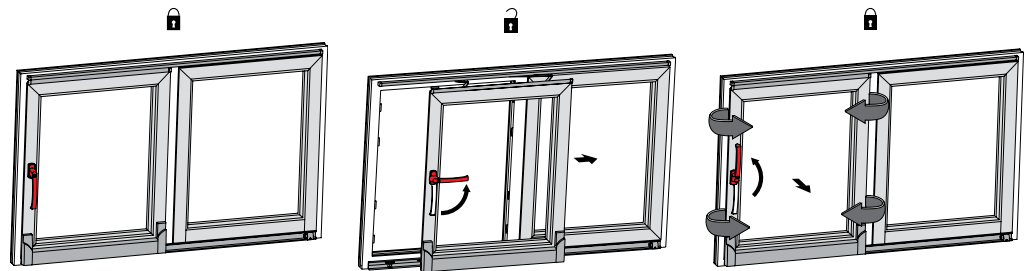
Without compromise

Fail-safe operation

The operating principle behind the hardware just about rules out incorrect operation. No need for specific components, such as fail-safe devices.

The three handle settings are intuitive: In the closed position, the handle points down. To open, turn the handle 90 degrees, and to 180 degrees for parallel

retraction. Immediate switch-over to parallel retraction is possible from the closed position.



Rollers with brush technology

The operating principle of the roller is based on the familiar technology of the Slide&Tilt roller. The energy store has been added to complement the tried-and-tested roller design (entry curve, steering arm and roller assembly). It is positioned at the rear roller.

Furthermore, the PAS roller is equipped with high-tech cleaning brushes. A brush is located in front of each roller. The brushes keep the roller track clean during operation and ensure that no dirt can find its way into the rollers. This keeps the system

smooth running and easy to slide during the long term.

Handles with grace

The PAS hardware is perfectly complemented with MACO's range of tried and tested Slide&Tilt handles, which are available in five colours; White, Silver, Titanium, Champagne and Bronze. In addition to the standard version, the handle is also available in a lockable version with key.





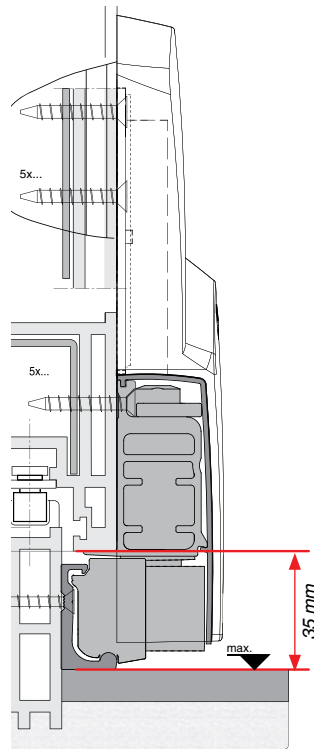
That's what added-value is all about



- Suitable for use with timber and PVC
- Sash weight up to 160 kg
- Scissors design with parallelogram geometry and integrated damper
- Even peripheral ventilation due to the parallel-retract sash design
- Parallel retraction, hardly visible from the outside
- Effortless operation with integrated energy store
- Fail-safe operation
- Modular system and centre-fastened components for the simplest possible installation
- RC 2 possible in parallel setting



Technology overview



- Sash weights up to 160 kg in timber or PVC
- Windows and glass doors
- Sash rebate width 750 – 1650 mm
- Sash rebate height 850 – 2450 mm
- Suitable for rebate depths from 22 mm/13 mm displacement
- Air gap retracting distance 5 mm
- 125 mm retracting distance for thermally insulated profile systems
- Central MULTI-MATIC lock with i.S. security roller cam
- Silver-look surface and extremely corrosion-resistant TRICOAT-plus
- Frame clearance 35 mm: low threshold height for level access and easy exit and entry
- No dual profiles required

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