

TECHNOLOGY IN MOTION



# HARDWARE SOLUTIONS FOR **UNHINDERED ACCESS** & OPERATIONAL CONVENIENCE IN EVERYDAY LIFE







Operate windows and doors easily. Take the threshold in your stride. Open and close the shutters without having to lean out. This should not be a luxury, it should be a normal part of day-to-day life.

Normality embedded in the motto „accessibility“, which has long since become established in the world of architecture and living. Sometimes, a window can be difficult for anyone to reach: behind a fitted kitchen, in the bathroom or stairway.

“Unhindered access is indispensable for 10 percent of the population, required by 40 percent and comfortable and a quality feature for 100 percent. Offerings for unhindered access latterly benefit us all because they make life easier” \*

\* BMWi, Factsheet 4, April 2010

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## HIGH-COMFORT FITTINGS

## A life without hindrances

The MACO-MULTI comfort fitting for PVC and timber windows lets all users handle any tilt-and-turn window unhindered. In any installation, situation and at any age.

The window handle is positioned where it is easily accessible for every user: at a low level – positioned horizontally or vertically on the bottom casement.

The window tilts and closes without the user having to exert any pressure on the window. The MACO-MULTI comfort fitting does the work. It incorporates a handle with an extended body for enhanced lever action.



Window closed



Window tilted



Window opened



# Prams, bobby-car & Co.

## TRANSIT THRESHOLD

**All its edges are rounded off to make them foot-friendly, and the 20-mm flat TRANSIT threshold for timber profiles is a DIN 18025-compliant manufactured design.**

This ensures unhindered access to inside and outside worlds for people who are older or have restricted mobility. An important

aspect when renovating and unhindered access to French windows is required.



The TRANSIT threshold is used for turn-only and tilt&turn doors.





# are very welcome!

## GFK THRESHOLD WITH FLAT ROLLER TRACK

When the GFK threshold with flat roller track is used, the step height is merely 17 mm.



The TRANSIT threshold is used for lift&slide units.





# Open now, main door!

## Z-TF 3-LATCH LOCK WITH ELECTRICAL OPENER

Simply press a button to open the main door conveniently from any flat. This is one of the main advantages of PROTECT Z-TF when combined with commercially-available, symmetrical electrical openers. No matter how many flats the new building or renovated premises may have.



Z-TF 3-latch lock



Soft latch, multifunctional latches and locking bar are standard basics with the Z-TF. The electrical opener solution is available for three versions of the Z-TF. The additional interlocking elements in these three lock versions vary:

- Z-TF with 2 multifunctional latches and 2 or 3 i.S. security roller cams
- Z-TF with 2 multifunctional latches and 4 i.S. security roller cams to burglary-resistance grade 2 (RC 2)
- Z-TF with 2 multifunctional latches and 2 steel bolts



Each of these 3-latch locks is held by an electrical opener. As a rule, only two wires are required to control it. They transfer the electrical impulse to all three electrical openers

simultaneously. The cable, also available as cable harness, is routed along or inside the door frame to the electrical opener. The cabling for the electrical opener is usually available on-site.

It is only necessary to route the cable or cable harness along the door frame to the electrical opener.





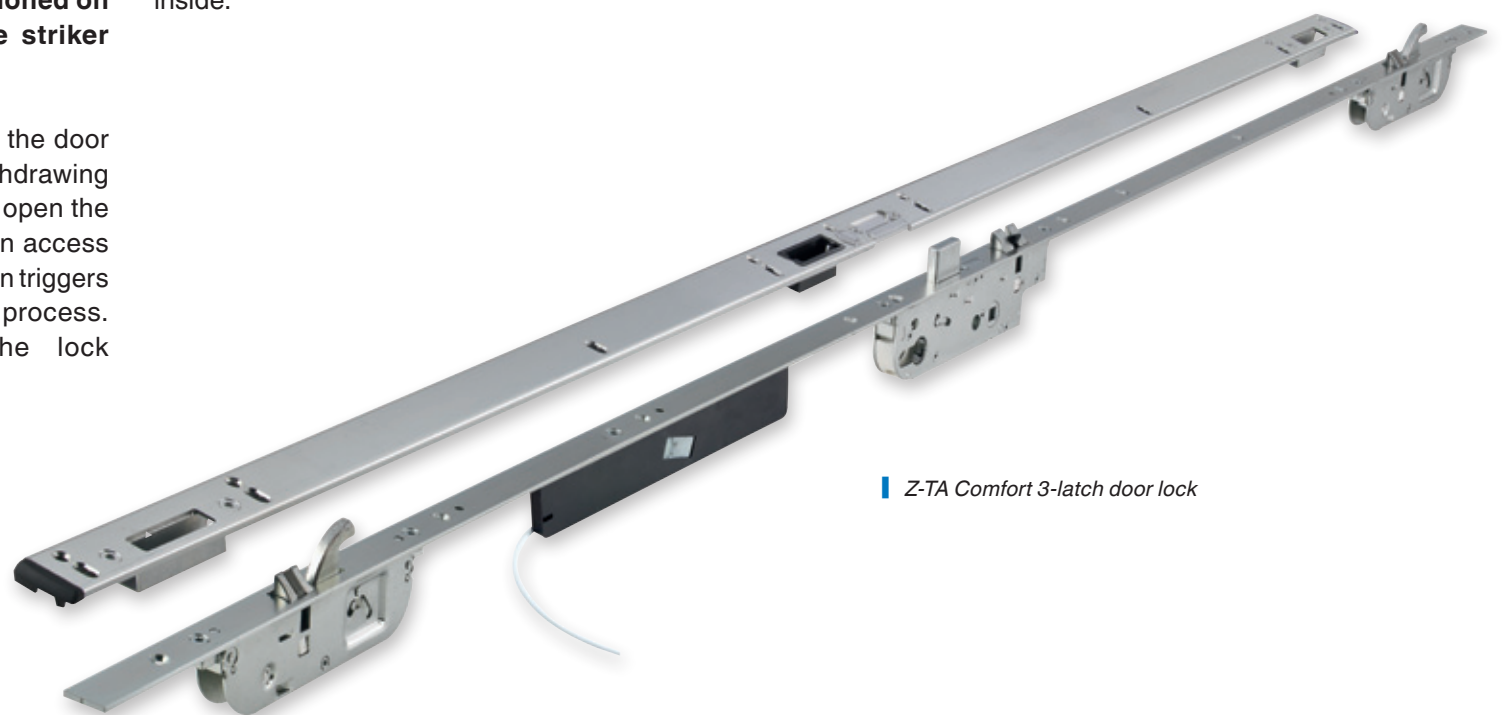
## Z-TF COMFORT 3-LATCH LOCK WITH MOTORISED OPENING

**The door falls into the lock and interlocks automatically (including the locking bar) without operating the key. All interlocking elements are secured against back pressure. The automatic interlocking mechanism is triggered by magnets that are positioned on the frame side of the striker plate.**

The motor positioned at the door lock takes charge of withdrawing the strikers and locks to open the door. It is activated by an access control system, which then triggers the motorised opening process. The motor opens the lock automatically.

The door lock can also be used without motor. This version is called Z-TA Automatic. The automatic interlocking mechanism is also triggered by a magnet in this case. It is positioned in the striker plate on the frame side. The door handle is used to unlock simply from the inside:

The strikers and locks also retract automatically. The door is opened from the outside using a key: The toggle function integrated in the main-lock casing retracts all the interlocking elements, including all three latches.



■ Z-TA Comfort 3-latch door lock



MACO PROTECT



OPEN DOOR ACCESS CONTROL SYSTEM

# Door lock opening with **high-tech spirit**

MACO openDoor transponder-based access control systems turn almost any car key into a door key for your house and garage.

This solution is available as

- surface-mount openDoor transponder and
- openDoor Transponder+ as a system that is integrated in the door leaf

In addition to this, openDoor will be available from mid 2012 in three additional, integrated door-leaf variants:

- openDoor Code (keypad)
- openDoor with Bluetooth®
- openDoor Touch (fingerprint)







## SHUTTER INSIDE OPENERS

# All good things come **from within**

To operate the window shutter, the window must normally be opened first. But it can be done differently. Namely from inside with the window closed. With the MACO shutter inside openers. Simply insert the crank – turn it – finished.

This enables people to operate the window shutter, who cannot or do not want to stand and lean out of the window.

Also consider

- fixed glazing
- a sliding window
- windows that should not be opened
- a fitted kitchen in front of the window or
- safety for your loved ones.





MACO RUSTICO



Rasthalter



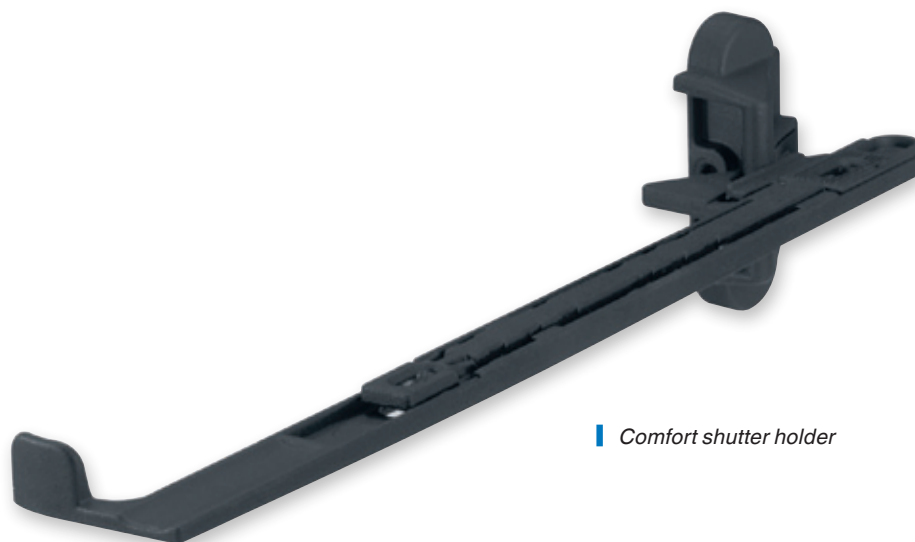
## COMFORT SHUTTER HOLDER & SNAP HOLDER

# Convenience second to none.

**The opened shutter is retained on the outside of the facade. Increasing requirements for thermal insulation mean that outside walls are becoming thicker and thicker. This can complicate shutter operation. How far can you or do you actually want to lean out of the window to operate the shutter?**

The shutter sash engages automatically on all MACO shutter holders. Simply push open the shutter – finished.

No need to lean out. To close, you can disengage the shutter single-handed. Operation of the comfort shutter holder & snap versions takes place in the window reveal. And no one needs to lean out of the window. A short pull is all you need.



Comfort shutter holder



## WINDOW SHUTTER TOP END PIECE

# No more tripping!

With balcony doors, increasing attention is paid to a flat design of the frame components at floor level for unhindered access. This also applies to the shutter fitting on doors. Interlocking of a multi-sash shutter on the floor is possible without protruding lock routings. An easy matter with the MACO shutter top end piece.

At the shutter end piece, the rotary motion of rod is translated into a longitudinal movement of the locking cam. The cam itself engages in an embedded socket that lies flush in the floor.

MACO-RUSTICO makes potential tripping hazards like these cams a thing of the past!



MACO EMOTION

## SKB HANDLE

# Long handle body – enhanced lever action – less force required

Windows – as easy to open as your laptop. With the MACO SKB handle. The body of the handle is considerably longer than a standard window handle. Its enhanced lever action reduces the force required to operate the handle.

| The MACO SKB handle



**IF YOU WANT FIND OUT MORE ABOUT ANY OF THE FITTINGS SOLUTIONS IN THIS  
BROCHURE, PLEASE CONTACT YOUR MACO TECHNICAL CONSULTANT OR SEND US  
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