



Press release

August 2016

MACO – The leader in security and convenience

MACO i.S. security hardware ranks among the most innovative and completely reliable locking solutions on the market. The continuous addition of new, intelligent details keeps it permanently at the cutting edge. The new solutions, which were presented at the Fensterbau Frontale trade fair, are available from Autumn and improve living quality through even more protection: MACO MULTI SECUIR for a secure ventilation position; the self-locking drive gear; the load-bearing element for increased loadbearing capacity of the fully concealed hinge-side MULTI POWER and the system matrix for producing RC 3-tested timber units.

MACO MULTI SECUIR: secure ventilation for greater thermal and visual comfort

Leave the house feeling safe and secure with tilted windows with no need to worry about uninvited guests or a sudden rainstorm. MACO provides peace of mind with the MULTI SECUIR secure ventilation position which provides security and energy-efficient ventilation with its reduced tilt depth of up to 10 mm. This makes it ideal for modern lifestyles, as it provides continuous ventilation and a constant room climate when the occupants are away for extended periods and for building shells with increased air tightness. If MULTI SECUIR is combined with a lockable handle – such as the MACO-TRESOR handle – then the solution is equipped and tested for burglary-resistance grade RC 2. The anti-slam device, which catches in both tilt positions in the event of a draught or blast of wind, is a huge plus.

A revolution in ventilation – secure ventilation

Just one additional item extends the tilting options of the window and provides secure ventilation via an additional handle position.

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Photographs: MACO
Reference copy requested





In addition to the familiar tilting at the full tilt depth in the new, additional 135° handle position, a reduced tilt opening via the familiar 180° position is now possible. In this position, the sash is tilted a maximum of 10 mm from the frame at the top, while at the bottom it remains anchored in the frame. This opening width is small enough to prevent the ingress of rainwater yet large enough to ensure a sufficient supply of fresh air without energy loss.



MACO images: Window positions with extended tilt option. Window opening options (from left to right): closed, open, tilted and secured ventilation position.

This solution is currently available and has been tested for timber and select PVC windows. In the future, this will be extended to other PVC profiles available on the market.

A great deal of added value with just one additional component

The numerous design options according to the modular concept are a huge plus with MACO. They provide the fabricator with significant added value and exceptional flexibility when it comes to product design. With just one additional component, a standard window can be quickly and easily upgraded or even turned into a premium unit. This is also a plus for logistics and storage, keeping them lean and economical.

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Self-locking drive gear: put a stop to burglars

The self-locking drive gear is one-of-a-kind on the market. It prevents the cam from being shifted, thereby providing additional basic security in conventional window manufacturing. The basic idea here is to automatically fix the safety stud in the locking position, which cannot be shifted in order to unbolt the window even with a force of up to 300 kg. Even if the cam is exposed during an attempted burglary, it holds firm. In standard window manufacturing and on windows which offer basic security, the self-locking drive gear takes on the function of a lockable handle. This means that conventional window handles can be used, increasing the range of handle designs and colours to choose from.

Flexible window shape and material

The self-locking drive gear can be used for turn-only and turn&tilt windows in all conventional window shapes such as rectangular, pitched and half round units and with all window materials: timber, timber/aluminium, PVC, PVC/aluminium and aluminium (with Eurogroove). The familiar operating convenience is retained. Window manufacturers will be delighted by the easy retrofitting or fabrication with no additional effort and can clearly set themselves apart from the competition on the market with this unique solution.

Load-bearing element supports heavyweights

MULTI POWER enables giant windows to be produced with fully concealed hinge-side up to 3 m² in size with turn&tilt, tilt-first and turn-only and tilt-only opening modes.

Previously sash weights of up to 150 kg could be moved when opening casement doors. Now a weight of up to 180 kg is possible. The new load-bearing element takes on the supporting role: it diverts the entire weight of the timber or PVC sash into the frame, thereby relieving the load on the pivot post.

Hinging made easy

The simplified "Mount & Go" mounting concept enables the sash to be connected to the frame component with ease by simple attachment. The load-bearing element is effective as soon as the sash is hung with no support needed. This prevents the pivot post from being overloaded during installation and the sash does not need any extra support. The

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load-bearing element can also be retrofitted and fabrication is easy with the use of a drilling jig.

Unique: fabricate RC 3-tested windows with MACO's system matrix

MACO offers its customers the decisive competitive advantage of being able to fabricate windows according to security class RC 3 without needing to invest in their own testing. This is possible with the system matrix developed by MACO for RC 3-tested timber units. Customers purchase this at a favourable price in the form of licences and can construct all window sizes within this matrix.

In term of content, MACO has taken a range of components into consideration for this system matrix as well as material, profile geometry, sizes, glass types, opening modes (turn-only and turn&tilt, tilt-only and French windows), fixed glazing, screwed sashes, windows with shutter boxes and the connection with the MACO TRONIC contact for the locking monitoring. Manufacturers can now turn to a wide system pallet and, within these window sizes, fabricate RC 3 units without needing to invest in their own testing. Once again, MACO is bringing fresh ideas onto the hardware market and offers an enormous and unparalleled variety when it comes to fabricating window sizes and opening modes.

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Image selection



MACO MULTI SECUIR – ventilation with RC 2: the sash protrudes 10 mm at the top – wide enough for ventilation, small enough for optimum security.

Image: MACO (Bd_MACO_Multi_Gesicherte_Kippstellung.jpg)



Image left:
The self-locking drive gear with i.S. safety stud and unmovable deadbolt can withstand 300 kg of force.
Image right: If force is applied without the self locking, then the handle turns up.

Image: MACO (Bd_MACO_Multi_Selbthemmendes_Getriebe.jpg)

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TECHNOLOGY IN MOTION



The load-bearing element enables heavy-weight casement doors to be created with maximum functionality. Mount & Go makes hinging easy: The sash no longer needs to be supported.

Image: MACO (Bd_MACO_Multi_Power_Lastabtragung.jpg)



Pioneering RC 3 work for timber with system matrix for units of all sizes.

Image: MACO (Bd_MACO_Multi_RC3_Pruefung.jpg)



Image_@alexandre zveiger/Fotolia_
Image for the self-locking drive gear

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