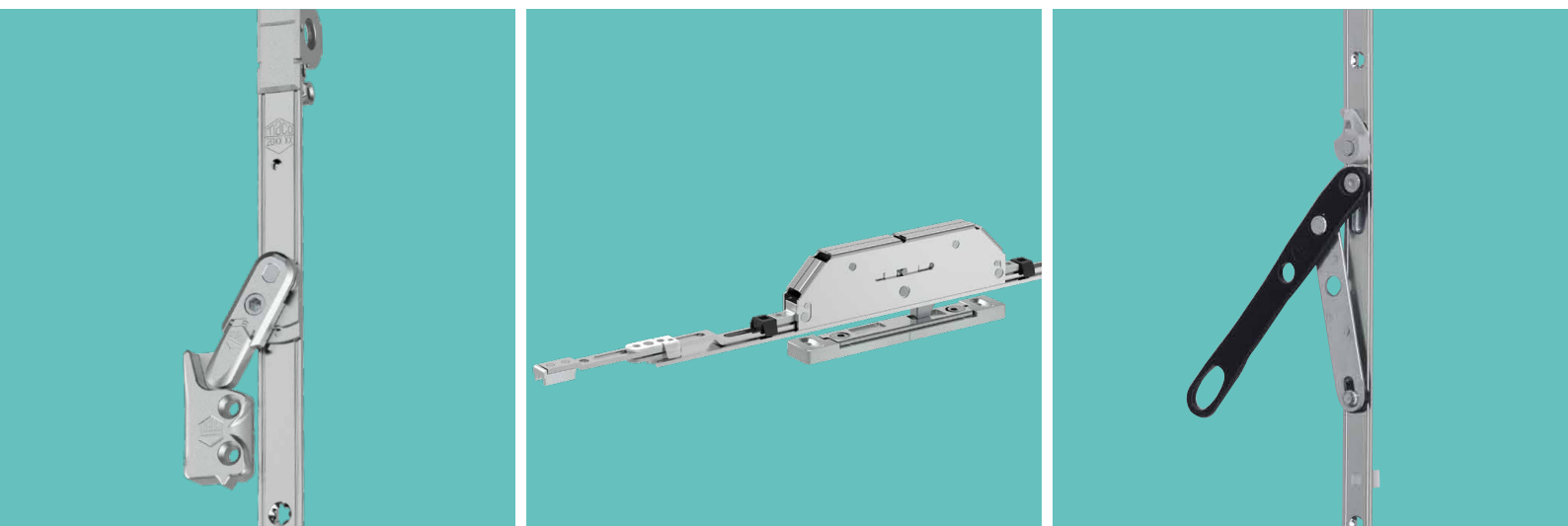











































TECHNOLOGY IN MOTION

MACO MULTI-MATIC

TURN AND TILT HARDWARE












CATALOGUE APAC & MEA

	For timber windows		Offset
	For PVC and aluminium windows		Rebate depth
	Item number		Maximum sash weight
	Tricoat-Evo number		Number of security cams (i.S.)
	Sash rebate width (SRW) and sash rebate height (SRH)		Number of standard cams
	Sash rebate width (SRW)		Sash lifter and mishandling device
	SRW with standard corner element		Screw diameter
	SRW with short corner element		Faceplate width
	SRW with corner elements		Spindle size
	SRW half round window/segmental arch window		Handle centre (E)
	SRW round window		Packer thickness
	SRW angled window		Screw
	Sash rebate height (SRH)		Overall component width
	SRH with short corner element		Overall component length
	SRH half round window/segmental arch window		Packing unit
	Drive gears FHH		Packing unit per pallet
	Drive gears VHH	MM =	MULTI-MATIC
	Backset (BS)	MT =	MULTI-TREND
	Handle height (HH)	MP =	MULTI POWER
	Hinge side	KS =	Tilt lock bolt
	Central locking system	DK =	Turn&Tilt (T&T)
	Air gap	KD =	Tilt before Turn (TBT)
	Rebate leg	DR =	Turn-only
		FFB =	Sash rebate width (SRW)
		FFH =	Sash rebate height (SRH)
		FT =	Rebate depth
		L =	Air gap
		V =	Offset (hardware axis)
		AS =	Surface-mounted

Symbols

DT =	Double routing (Timber)
i.S. =	Security cam
VZ =	Standard cam
MZ =	Magnetic cam
DM =	Backset (BS)
GM =	Handle height (HH)
ÜV =	Rebate leg screw-fixing
Ü =	Rebate leg
RZ =	Round cylinder (RC)
PZ =	Profile cylinder (PC)
EH =	Burglar resistant
AR =	Guide ring
BO =	Drill
FR =	Milling cutter
AWB =	Application range
SFG =	French casement drive gear (FCD)
ES =	adjustable
ESH =	self-locking drive gear
HG =	rear-engaging
GL =	secured ventilation position

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1 General and technical information

1.1 How to use the catalogue

If not otherwise specified, all dimensions are stated in millimetres and packing units in items per box.

Drawings and diagrams are not to scale.

The content of this document is constantly being updated, so regular comparison is necessary (see date on the back of the catalog).

The current version is downloadable from our website (www.maco.eu).

Further technical documents are available in our Technical Online Catalogue TOM (extranet.maco.eu).

No liabilities are accepted for possible printing errors, mistakes or changes.

Please send comments or suggestions about our catalogues by email to feedback@maco.eu.

1.2 Information on product safety and product liability

In accordance with the manufacturer's liability for his products defined in the Product Liability Act (PHG in Austria, ProdHaftG in Germany, PrHG in Switzerland, Codice del Consumo in Italy), the following information on turn-only and turn&tilt hardware for sashes in window and window door must be heeded. Non-compliance shall release the manufacturer from this liability.

1.2.1 Product information and proper use

Turn-only and turn&tilt hardware in the terms of this definition are hardware for turn and/or tilt sashes in windows and window doors made of timber. They are used to move windows and/or casement door sashes to an inwards turn position or to a tilt position that is restricted by the scissor stay when a handle is operated. When closing the sash and locking the hardware, it is generally necessary to overcome the counter-force of the seal.

The sashes that are equipped with this turn-only and turn&tilt hardware can:

- turn-only
- turn and tilt or
- tilt before turn or
- tilt-only.

Turn-only and turn&tilt hardware are used on vertically installed windows and window doors made of timber, PVC, aluminium or steel and their corresponding material combinations. Proper use includes compliance with all specifications made in the corresponding product documentation.

Differing applications do not correspond to their proper use. Burglar-resistant window and window doors, windows and window doors for damp rooms and those for use in environments with aggressive, corrosive air content, require hardware that has been adapted to the particular application and specifically agreed performance features. Open windows and window door sashes achieve only a shielding function and do not satisfy the requirements for joint seals, protection against driving rain, sound absorption, thermal protection and burglary resistance.

In the case of wind and draught, the windows and window door sashes must be closed and locked. Wind and draught in the terms of this definition apply when a window or window door sash that is in one of the opening position opens or closes autonomously due to air pressure or draught and in an uncontrolled manner. The resistance against wind loads in a closed and locked state is dependent on the respective designs of windows & window doors. Should wind loads in accordance with DIN EN 12210 (in particular pressure test p3) be accommodated, suitable hardware set combinations must be agreed for the respective window design and frame material and approved individually. Generally speaking, the hardware sliding fulfils the requirements for barrier-free apartments in accordance with DIN 18025, ÖNORM B 1600 or SIA 500. This requires corresponding combinations and installation of hardware sets for

windows and window doors, which must be coordinated and agreed individually.

1.2.2 Incorrect use or misuse

The following cases, in particular, shall be deemed to be product misuse - i.e. utilization turn-only and turn&tilt hardware for windows and window doors for purposes other than their specified proper use:

- If obstacles are inserted in the opening area, thereby preventing proper use of the product
- Additional loads act on windows or window door sashes
- When opening and/or closing (turning or tilting), handling between the cover frame and the sash or when a person or limb is present in this area
- When the sash is not guided manually over the entire range of motion to the absolute closing or opening position
- The sash is pressed against the opening edge (window reveal).

1.2.3 Principles of liability

The relevant entire hardware set may only consist of hardware components from the MACO turn-only and turn&tilt MULTIMATIC hardware. The component combination may neither be modified, extended nor restricted. In the case of non factory-approved combinations by and/or inappropriately assembled hardware, and/or the use of non-original and/or non factory-approved accessory components, no liability will be accepted.

All hardware for windows and French casement windows must be inspected and serviced systematically by qualified experts to ensure their functional integrity and safety. This maintenance must be carried out - verifiably and documented - in accordance with our maintenance documentation: otherwise, no liability can be accepted.

Our processing specifications in the product catalogues, installation instructions/information and leaflets are binding and must be heeded without restriction; otherwise, no liability can be accepted for the safety and/or durability of the hardware.

Where timber, PVC, light-metal or steel profiles are used, the specifications the profile manufacturer and/or system owner must be observed. The window fabricator is essentially responsible for ensuring compliance with the specified system-related dimensions (for example, the gasket gap dimensions). These specified system-related dimensions must be checked regularly, in particular when using new hardware components for the first time, and also during production as well as during the window installation process. The hardware components are designed to permit partial or full adjustment of the certain system-related dimensions, provided that the hardware can have an effect on these. Should there be a deviation from these dimensions, resulting in a fault that has not been noted prior to window installation, no liability shall be accepted for the additional expenses incurred.

Information on product safety and product liability

1.2.4 Product performance

The fundamental principle for the suitability of use of MACO hardware is compliance with all specification in the product documentation supplied by MACO. The documents are maintained in a document management system and the current edition is available at www.maco.eu. The classification of the products according to EN 13126-8 is shown at Certificates for products.

1.2.4.1 Maximum sash weights and sash rebate dimensions

The defined maximum sash weights for the individual hardware versions may under no circumstances be exceeded. The component that has the lowest permissible load-bearing capacity determines the max. Application diagrams, installation instructions/information and component assignments must be observed.

1.2.4.2 Hardware composition

The manufacturers guidelines regarding hardware composition (e.g. positioning of exterior handles, hardware design for burglary-resistant windows and window sashes) are legally binding.

1.2.4.3 Fixing of hardware

MACO guarantees as a hardware manufacturer and deliverer, the quality and serviceability of its products. Because of different installation situations there are no general valid instructions for the screw fixing of hardware possible. The TBDK guideline Gütegemeinschaft Schlösser und Beschläge (quality community for locks and hardware - www.beschlagindustrie.de) or the standard EN 13126-8 are usually a help for the specifications of screw fixing.

1.2.5 Product maintenance

1.2.5.1 General

Inspection and service are fundamental components of maintenance. The verified maintenance is in turn basis for the legal warrant and/or our guarantee.

All inspection intervals and maintenance instructions must be observed. These details must be evident from the operating and maintenance instructions for the corresponding turn-only and/or turn&tilt hardware.

Settings and adjustments for the hardware, as well as replacement of components may only be carried out by specialists. Similarly, inserting and/or removing the sashes may only be carried out by specialists. When treating surfaces - e.g.: painting or glazing windows and window doors, all hardware components must be excluded from this treatment and protected to prevent contamination.

1.2.5.2 Retaining the surface quality

The electrolytically applied zinc coatings are not affected in a normal room climate if no condensation collects on the hardware components (or occasional condensation can dry off

quickly). To retain the surface quality of the hardware components over the long term and prevent damage due to corrosion, it is essential to observe the following points:

- The hardware and/or the rebate areas must be ventilated sufficiently – in particular during the building phase – so that they are not exposed to direct wetness impact or to condensation. If systematic ventilation is not possible, because fresh screed cannot be accessed or does not tolerate draughts, bring the windows to the tilt position and seal them off air-tight at the room side. Use condensation dryers to remove any humidity from the room air to outside the area.
- The hardware must be kept free of deposits and soiling through construction material (building dust, gypsum plaster, cement etc.). Aggressive vapours in the rebate area (e.g.: due to formic or acetic acids, ammonia, amine or ammonia compounds, aldehydes phenols, tannic acids, etc.) in conjunction with small formations of condensation can lead to fast corrosion on the hardware components. If such aggressive vapours do occur, a sufficient supply of fresh air to the rebate areas must generally be provided for windows and window doors. This applies in particular to windows and window doors made of oak or other wood types that have a high share of tannic acid. No acetic-acid or cross-linked acidic sealing compounds or those with the above mentioned contents may be used, since both direct contact with the sealing compound and its vapours can attack the surface.
- Cleaning instructions according to the operation and maintenance instruction for end customers (order no. 757071) in the download area of our website (www.maco.eu).

1.2.6 Information and instruction duties

The following is available to comply with information and instruction obligation duties and perform maintenance work in accordance with the product liability legislation:

- for dealers: Catalogues, operation and maintenance instructions, installation instructions/information and leaflets for components
- for processors: Catalogues, tool drawings, operation and maintenance instructions, installation instructions/information and leaflets for components
- for owners and end users: Operating and maintenance instructions

To ensure the functional integrity of sliding hardware for the sashes of window and window doors:

- Designers must request all relevant product information from the manufacturer and observe the details provided.
- Specialised dealers are obliged to comply with all relevant product information and, in particular, request installation instructions/information, factory drawings, component leaflets, as well as operating and maintenance instructions from the manufacturer and hand these over to the processors.
- Processors are obliged to comply with all relevant product information and, in particular, request operating and maintenance instructions from the manufacturer or specialized dealers and forward these to the end user.

Information on product safety and product liability

All above mentioned reference material is available for download from the MACO website (www.maco.eu).

1.2.7 Application for similar hardware

Hardware for sliding folding doors must be treated analogously with respect to product information for proper use, misuse, product performance, product maintenance, information & instruction obligations as the features apply.

1.2.8 Disclaimer

The manufacturer's liability can also be excluded, among other things:

- If the fault is attributed to a regulation or an official ruling, to which product compliance was stipulated.
- Characteristics of the product, which have given rise to the

claim (against the manufacturer), could not be identified as a fault according to the conditions of science and technology at the time.

- The claim (against the manufacturer) only involves a basic material or a part product that was manufactured, and the fault is due to the construction of the product that was incorporated into the basic material or the part product, or as a result of instructions issued by the manufacturer of this product.

In connection with Section 1.2 and its subsections, the guideline - Hardware for windows and balcony doors - Guidelines/ advice on the product and on liability (VHBH) of the Quality Assurance Association: Locks and Hardware (Gütegemeinschaft Schlösser und Beschläge e.V.) must be observed. Download at www.beschlagindustrie.de.



Information on transport and handling of window units

1.3 Information on transport and handling of window units

Improper handling and improper transport of the windows and/or casement door elements can produce hazardous situations and cause serious accidents or lethal injury. To prevent this, the following instructions must be heeded:

- During loading and unloading, select force application points which exclusively create reaction forces appropriate to the designed layout of the hardware components for the intended installation location.
- During handling and transport, ensure that the hardware is in the locked position to prevent the sash from opening unexpectedly. Use suitable securing equipment to do this.
- Use only transport fastenings designed for the respective clearance.
- Wherever possible, transport the windows in the intended installation position. If transport in the intended installation position is not possible, unhinge the sash, and transport it separately from the frame to which it belongs.
- During transport, loading, and unloading, especially if auxiliaries such as suction cups, transport nets, forklifts, or cranes are used for support, reaction forces may arise which could damage or overload the installed hardware. Therefore, observe the following instructions during all transport, loading, and unloading.
- The type and the force application points when transporting,

loading, and unloading have a significant effect on the reaction forces which arise.

- Always choose the force application points so that the resulting reaction forces are dissipated appropriate to the design of the hardware components for the intended installation location. This applies particularly for the hinge positions.
- During transport, loading, and unloading, especially if auxiliaries such as suction cups, transport nets, forklifts, or cranes are used for support, reaction forces may arise which could damage or overload the installed hardware.
- Always use transport securing measures appropriate to the actual clearance (e.g. spacer blocks), in order to hold the sash in the intended position in the frame during transport, and thus to dissipate the resulting reaction forces directly from the sash via the frame.
- Wherever possible, always transport window elements in the intended installation position, so that the resulting reaction forces are dissipated appropriate to the designed layout of the hardware components for the intended installation location. This applies particularly for the hinge positions. If transport in the intended installation position is not possible, unhinge the sash, and transport it separately from the frame to which it belongs.

1.4 Information on storage and transport of hardware components

Improper storage of fittings can affect the surface quality. To prevent this, the following points should be noted:

- Ensure that the room air is permanently dry.
- Large temperature fluctuations, which lead to condensation must be prevented. Condensation on fittings means that the galvanized surfaces are attacked (red rust formation).

- Aggressive vapors by cleaners or assembly aids such as silicone, and the like must - be avoided - even briefly. Vapors of such substances can cause very rapid corrosion of fittings.
- Salty air or polluted by industrial air causes galvanized surfaces to corrode and can leave deposits.

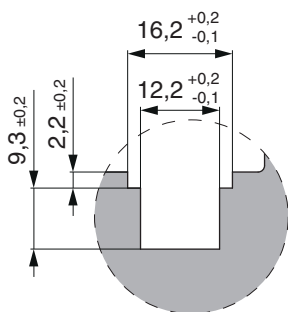


1.5 Profile specifications

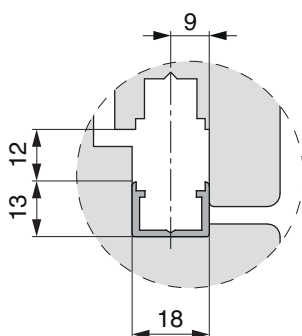
1.5.1 Eurogroove

For installation of turn-only and turn&tilt hardware the Eurogroove must be designed according to the following specifications:

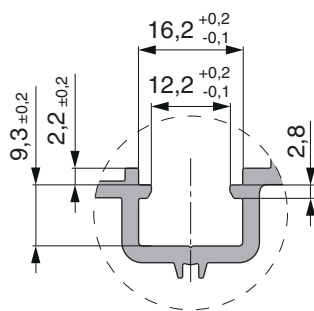
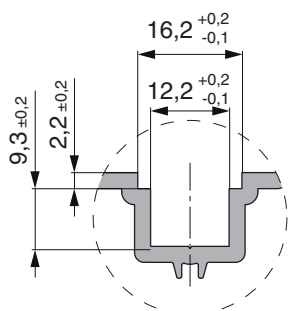
Timber sash



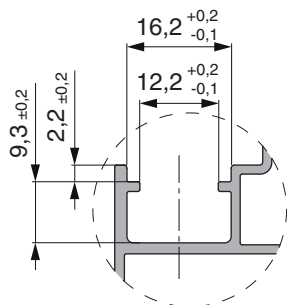
Timber sash French casement design with aluminium recess



PVC sash



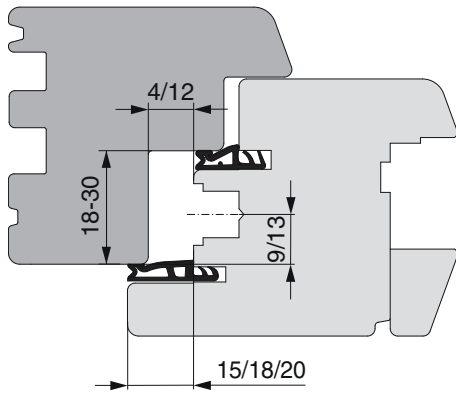
Aluminium sash



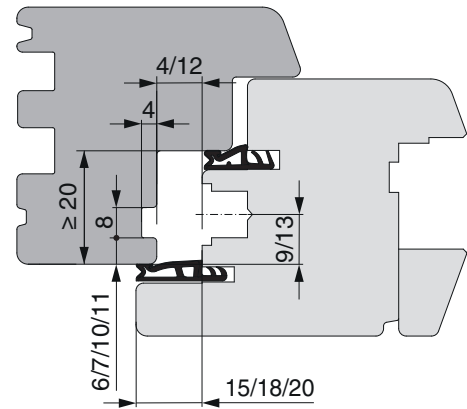
1.5.2 Recommendation for timber profiles

Single-sash

System Euro-rebate

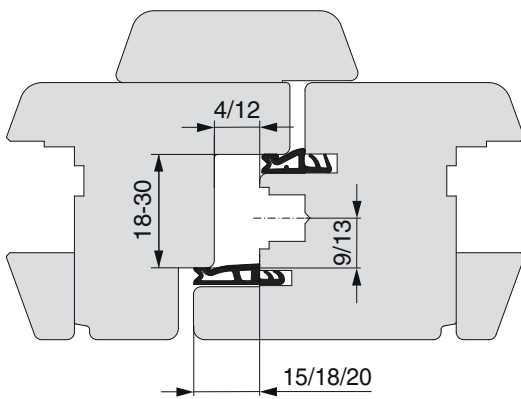


System hardware groove

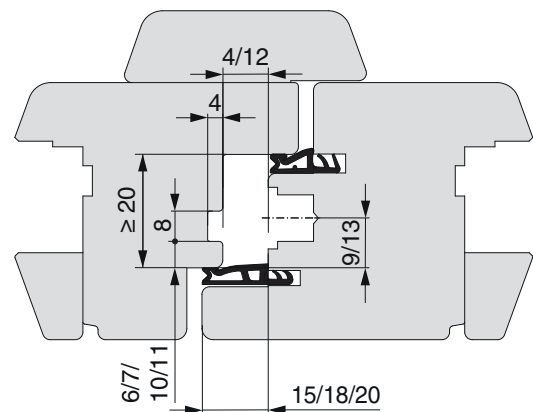


Double-sash (French casement)

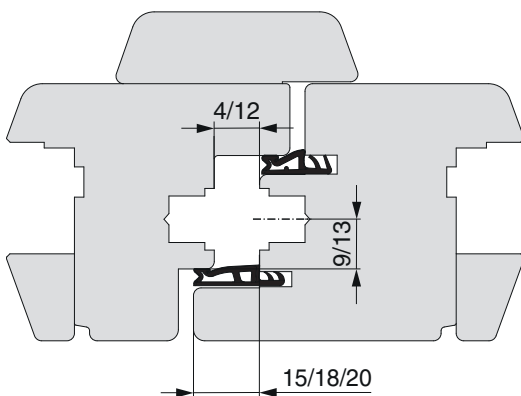
French casement sash with Euro-rebate



French casement sash with hardware groove



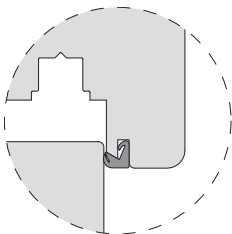
French casement sash with Eurogroove



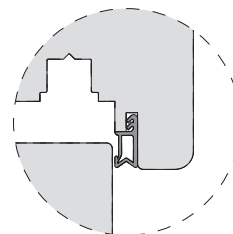


Design of rebate leg weatherseal

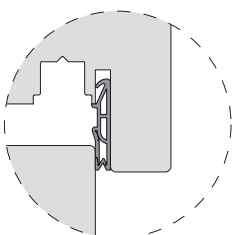
small



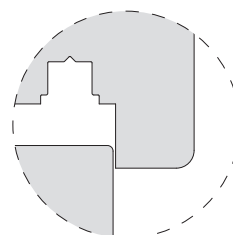
medium



large



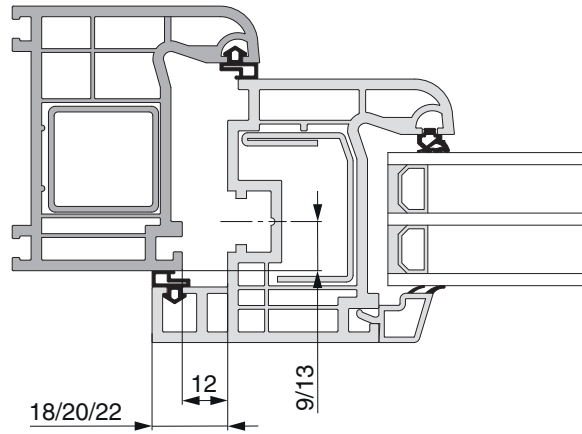
without



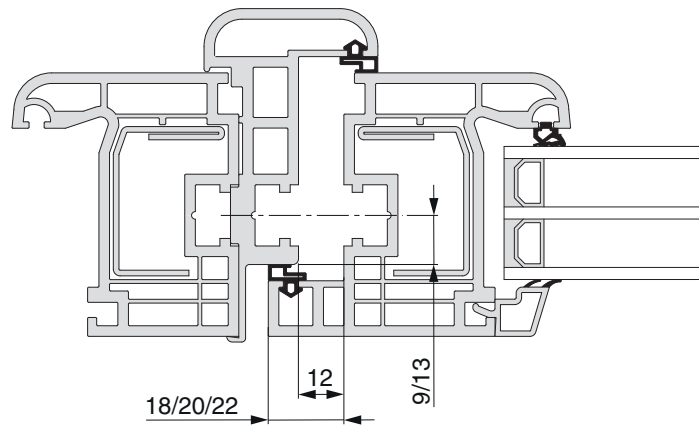
Further information on the possible designs and materials of weatherseals for windows, doors and slide systems according to our weatherseals catalogue (order no. 757507 – for download on www.maco.eu) or our Technical Online Catalogue (TOM).

1.5.3 Examples for PVC profiles

Single-sash



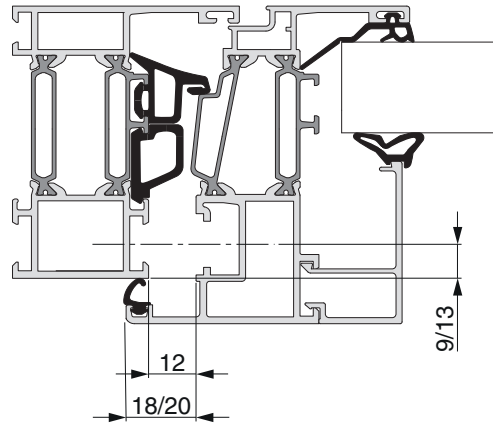
Double-sash (French casement)



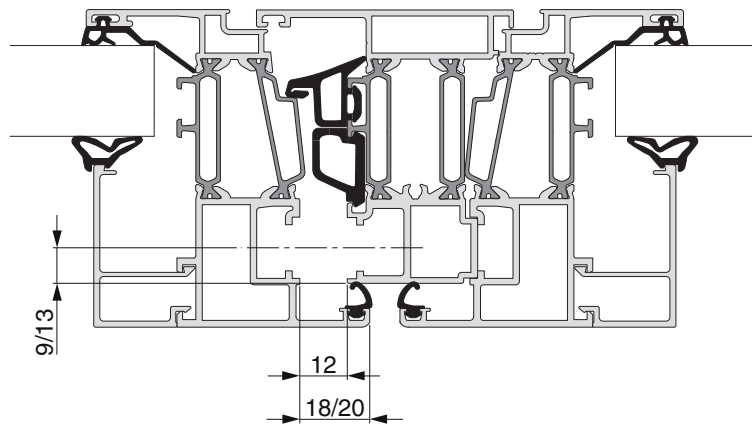
1.5.4 Examples for aluminium profiles



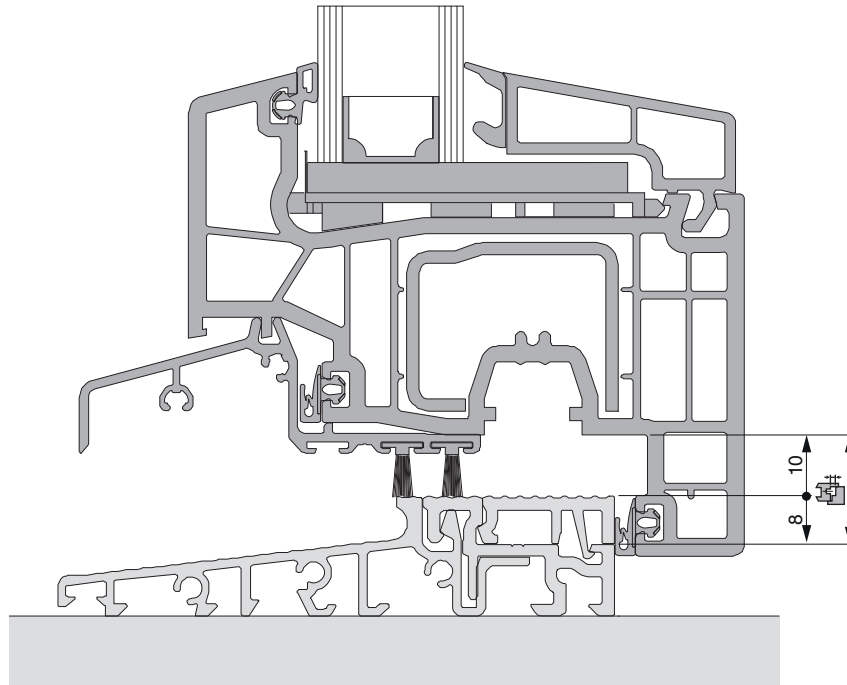
Single-sash



Double-sash



1.5.5 Example for threshold profiles



1.6 MACO surface finish

Hardware components in this catalogue are offered in different surface finishes. Components of the central locking system are available in Silverlook or Tricoat, visible bearing components can be powder coated in RAL classic colors as well. Standard components in this catalogue are readily available, the delivery times for special versions are available on request from our field service representatives. In our brochure “MACO surfaces”

(order no. 49510, available to download from our website www.maco.eu) you will find detailed information about all our surface finishes and their areas of application. Activities to protect and preserve the surface finishes according to the operation and maintenance instruction for end customers (order no. 757071).



Classification code in accordance with EN 13126-8

1.7 Classification code in accordance with EN 13126-8

Consecutive number	Design of sash rebate	Design of sash hardware	Description of hardware specifications on frame side				Sash weight	Classification according to verification as per EN 13126-8			
			Rebated scissor stay support arm	Scissor stay hinge	Corner support	Pivot post		1	2	3	4
								Lasting functionality	Mass (in kg)	Corrosion resistance	Test quantities (in mm)
1.	PVC with positioning pins	MULTI-MATIC RC 2	52486	52480	52478	52483	100 kg	H2	100	5	900/2300
2.	PVC with positioning pins	MULTI-MATIC RC 2	52486	52480	52478	52483	100 kg	H2	100	5	1300/1200
3.	PVC with supporting pins long	MULTI-MATIC Standard *	52486	52481	52479	52484	120 kg	H2	120	5	1300/1200
4.	PVC with supporting pins long	MULTI-MATIC RC 2 *	52486	52481	52479	52484	120 kg	H2	120	5	900/2300
5.	PVC with supporting pins long	MULTI-MATIC RC 2 *	52486	52481	52479	52484	120 kg	H2	120	5	1300/1200
6.	DT130	MULTI-MATIC Standard *	202534	202543	54710	52703	130 kg	H2	130	5	1300/1200
7.	DT130	MULTI-MATIC RC 2 *	202534	202543	54710	52703	130 kg	H2	130	5	900/2300
8.	DT130	MULTI-MATIC RC 2 *	202534	202543	54710	52703	130 kg	H2	130	5	1300/1200
9.	DT160	MULTI-MATIC Standard *	202535	227470	227504	227476	160 kg	H2	160	5	900/2300
10.	DT160	MULTI-MATIC Standard *	202535	227470	227504	227476	130 kg	H2	130	5	1300/1200
11.	MULTI POWER PVC	MULTI-MATIC Standard *	217482	215767	215804	215810	130 kg	H2	130	5	1300/1200
12.	MULTI POWER PVC	MULTI-MATIC Standard *	217482	215767	215804	215810	150 kg	H2	150	5	900/2300
13.	MULTI POWER Timber	MULTI-MATIC Standard *	217474	215767	215804	215810	130 kg	H2	130	5	1300/1200
14.	MULTI MAMMUT PVC	MULTI-MATIC Standard *	223624	210600	227694	211869	180 kg	H2	180	5	1550/1400
15.	MULTI MAMMUT Timber	MULTI-MATIC Standard *	223606	210600	210611	210594	220 kg	H2	220	5	900/2300
16.	MULTI MAMMUT Timber	MULTI-MATIC Standard *	223608	210600	210611	210594	200 kg	H2	200	5	1550/1400

* optional with MULTI-MATIC tilt lock bolt

Observe all technical documentation of hardware manufacturer, especially corresponding application diagrams!
A list of all current classification keys is available at the MACO website (www.maco.eu) under tab "Downloads" (ift Certificate of Conformity QM328).

Security for turn and tilt hardware (mechanical burglary resistance)



1.8 Security for turn and tilt hardware (mechanical burglary resistance)

1.8.1 General Information

Generally, a variety of design variants are possible for a window or French door. Besides the requirements for corrosion resistance, the end user's demands for convenience, colour design and, above all, security are decisive for the selection of the hardware components. The combination and/or design of various hardware components allows a variety of security levels.

With MACO hardware windows and casement doors can be built in burglar-resistant versions in accordance with resistance classes RC 1, RC 2 or RC 3 (EN 1627 - 1630).

Note: These standards dictate a complete examination of the finished window, which includes the following areas:

- a) Glazing
- b) Hardware
- c) Assembly and/or securing the window within the wall

1.8.2 MACO security levels (basic security)

Single-sash windows and balcony doors

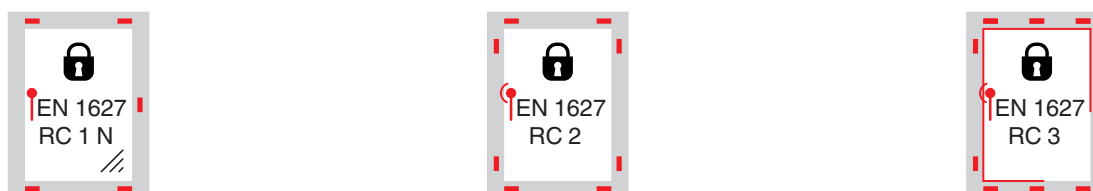


Double-sash windows and balcony doors



1.8.3 Security in accordance with EN 1627 - 1630

Single-sash windows and balcony doors



Double-sash windows and balcony doors



Further and/or supplementary information on the topic of security and the exact design of the hardware is provided in our brochures MACO security and MACO MULTI burglary re-

sistance in timber and PVC windows. All documents are available for download from the MACO website www.maco.eu in the Downloads area.

1.9 Certificates and guarantees

MACO ensures high quality, not only with ongoing continuous internal testing, but also through external auditing by renowned, independent institutes. Copies of all our current independent test certificates, covering our quality, safety and environmental management systems, as well as our product

guarantees are available to download from our website www.maco.eu. In addition our safety descriptions relating to dangerous substances (RoHS and REACH Declaration) are available, covering all MACO products.

1.10 General terms and conditions

Our current general terms and conditions are available for download from our website (www.maco.eu).



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2 Drive gears

2.1 T&T drive gears

2.1.1 T&T drive gears BS 15



2.1.1.1 T&T drive gears BS 15 FHH i.S.								No	No Tricoat	
silver	430	15	0	125	360 - 430	-	20	201730 ¹		
	660	15	0	190	431 - 660	1	20	201732 ¹		
	840	15	1	300	661 - 840	1	20	201733		
	1090	15	1	400	841 - 1.090	1	20	201734		
	1340	15	1	500	1.091 - 1.340	1	10	201735		
	1590	15	2	600	1.341 - 1.590	1	10	201739		
	1700	15	2	700	1.591 - 1.700	1	10	207301		
	1950	15	3	1.050	1.701 - 1.950	1	10	201740		
	2200	15	3	1.050	1.951 - 2.200	1	10	201741		
	2450	15	4	1.050	2.201 - 2.450	1	10	201742		
	with door catch	1950	15	3	1.050	1.701 - 1.950	1	10	201842	
		2200	15	3	1.050	1.951 - 2.200	1	10	201843	
		2450	15	4	1.050	2.201 - 2.450	1	10	201844	

¹ To fasten faceplate use faceplate restrainer item no. 213287.



2.1.1.2 T&T drive gears BS 15 VHH i.S.		L							No	No Tricoat
silver	800	640	15	0	470 - 800	200	-	20	201746 ¹	233923 ¹
	1250	1.040	15	1	801 - 1.250	260	1	20	201747	
	1750	1.540	15	2	1.251 - 1.750	260	1	10	201748	
	2250	2.040	15	3	1.751 - 2.250	260	1	10	202739	


¹ To fasten faceplate use faceplate restrainer item no. 213287.








2.1.1.3 T&T drive gears BS 15 VHH VZ		L						No	No Tricoat
silver	800	640	15	470 - 800	200	-	20	201746 ¹	233923 ¹


¹ To fasten faceplate use faceplate restrainer item no. 213287.






2.1.2 T&T drive gears BS 6.5

202491 

2.1.2.1 T&T drive gears BS 6.5 VHH i.S.		L						No	No Tricoat
silver	800	640	6,5	530 - 800	170	-	20	202491 ¹	233925 ¹


¹ To fasten faceplate use faceplate restrainer item no. 213287.







202491 

2.1.2.2 T&T drive gears BS 6.5 VHH VZ		L						No	No Tricoat
silver	800	640	6,5	530 - 800	170	-	20	202491 ¹	233925 ¹

¹ To fasten faceplate use faceplate restrainer item no. 213287.

2.1.3 T&T drive gears lockable special-BS i.S.

205674 

2.1.3.1 T&T drive gears lockable special BS for PC VHH i.S.		L							No	No Tricoat
silver	2250	2.040	25	3	1.751 - 2.250	260	1	10	210347	234059
			30	3	1.751 - 2.250	260	1	10	205674	234051

2.2 Turn-only drive gears

2.2.1 Turn-only drive gears BS 15



2.2.1.1 Turn-only drive gears BS 15 FHH i.S.							No	No Tricoat
silver	430	15	0	125	360 - 430	20	201730 ¹	
	660	15	0	190	431 - 660	20	201731 ¹	
	840	15	1	300	661 - 840	20	201833	
	1090	15	1	400	841 - 1.090	20	201834	
	1340	15	1	500	1.091 - 1.340	10	201835	
	1590	15	2	600	1.341 - 1.590	10	201836	
	1700	15	2	700	1.591 - 1.700	10	207302	
	1950	15	3	1.050	1.701 - 1.950	10	201837	
	2200	15	3	1.050	1.951 - 2.200	10	201838	
	2450	15	4	1.050	2.201 - 2.450	10	201839	

¹ To fasten faceplate use faceplate restrainer item no. 213287.



2.2.1.2 Turn-only drive gears BS 15 VHH i.S.		L						No	No Tricoat
silver	800	640	15	0	470 - 800	200	20	201746 ¹	233923 ¹
	1250	1.040	15	1	801 - 1.250	260	20	202170	234062
	1350	1.140	15	1	901 - 1.350	260	20	215408	
	1750	1.540	15	2	1.251 - 1.750	260	10	202171	234063
	2250	2.040	15	3	1.751 - 2.250	260	10	202172	234065


¹ To fasten faceplate use faceplate restrainer item no. 213287.








2.2.1.3 Turn-only drive gears BS 15 VHH VZ		L					No	No Tricoat
silver	800	640	15	470 - 800	200	20	201746 ¹	233923 ¹


¹ To fasten faceplate use faceplate restrainer item no. 213287.






2.2.2 Turn-only drive gears BS 6.5

202493 

2.2.2.1 Turn-only drive gears BS 6.5 VHH i.S.		L						No	No Tricoat
silver	800	640	6,5	0	530 - 800	170	20	202491 ¹	233925 ¹
	1250	1.040	6,5	1	801 - 1.250	260	20	202493	234064
	1750	1.540	6,5	2	1.251 - 1.750	260	10	202495	
	2250	2.040	6,5	3	1.751 - 2.250	260	10	202497	234066


¹ To fasten faceplate use faceplate restrainer item no. 213287.






202491 

2.2.2.2 Turn-only drive gears BS 6.5 VHH VZ		L						No	No Tricoat
silver	800	640	6,5		530 - 800	170	20	202491 ¹	233925 ¹


¹ To fasten faceplate use faceplate restrainer item no. 213287.


2.2.3 Turn-only drive gears special BS i.S.

205515 

2.2.3.1 Turn-only drive gears special-BS VHH i.S.		L						No	No Tricoat
silver	1750	1.540	25	2	1.251 - 1.750	260	10	205515	
			30	2	1.251 - 1.750	260	10	205541	
	2250	2.040	25	3	1.751 - 2.250	260	10	205516	
			30	3	1.751 - 2.250	260	10	205523	

2.3 Accessories for drive gears

201168 

2.3.1 Door catches			No	No Tricoat
silver	door catch MM	50	201168	234411

202581 

2.3.2 Sash lifters and mishandling devices			No	No Tricoat
silver	sash lifter and mishandling device retrofittable MM	50	202581	234412

2.4 Espagnolettes

2.4.1 Espagnolettes BS 15



2.4.1.1 Espagnolettes BS 15 centered i.S.						No	No Tricoat
silver		500	15	2	300 - 500	20	208328

2.4.2 Espagnolettes with mounted tilt stay



2.4.2.1 Espagnolettes centered i.S. with mounted tilt stay						No	No Tricoat
silver		1.000	15	2	20	206268 ^{1,2}	
		1.300	15	3	10	206269 ^{1,2}	
		1.700	15	3	10	206270 ^{2,3}	

¹ One mounted tilt stay.

² The MACO product liability stipulates the additional use of a restrictor and cleaning stay. Note the max. sash weight for the restrictor and cleaning stay.

³ Two mounted tilt stays.



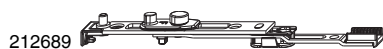
2.4.2.2 Espagnolettes VHH i.S. with mounted tilt stay						No	No Tricoat
silver		1.250	15	1	755 - 1.250	20	206174 ^{1,2}
		1.700	15	2	1.501 - 1.700	10	212772 ^{2,3}
		2.200	15	3	1.701 - 2.200	10	206271 ^{2,3}

¹ One mounted tilt stay.

² The MACO product liability stipulates the additional use of a restrictor and cleaning stay. Note the max. sash weight for the restrictor and cleaning stay.

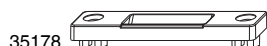
³ Two mounted tilt stays.

2.5 End pieces



2.5.1 End pieces with tilt lock bolt		L			No	No Tricoat
silver	for windows bottom	113,5	470 - 1.750	20	212689	
	for doors bottom	113,5	1.751 - 2.250	20	212688	

2.6 Balcony door locks B-TV



2.6.1 Hook Strike for B-TV			No	No Tricoat
silver	for French casement drive gear	1 fixed slot	50	35178

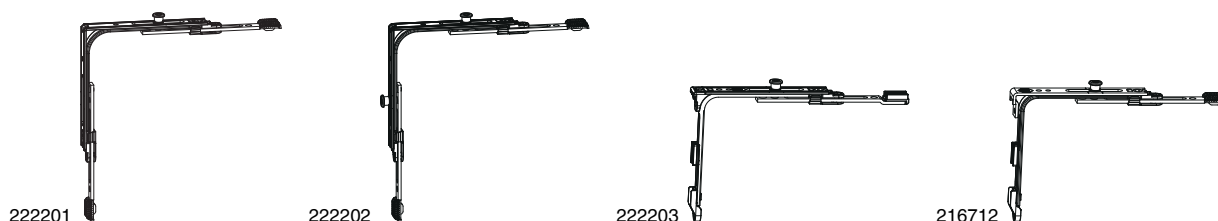


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3.3	Corner elements i.S. for French casement drive gears _____	31

3 Corner elements

3.1 Corner elements i.S.



3.1.1 Corner elements standard i.S.					No	No Tricoat
silver	with 1 i.S.	320 - 1.800	360 - 2.800	50	222201	232851
	with 2 i.S.	320 - 1.800	360 - 2.800	50	222202	232854
	short with 1 i.S.	220 - 319	275 - 359	50	222203¹	
	short with faceplate fixing with 1 i.S.	225 - 324	280 - 364	50	216712²	232880³

¹ Countersunk head screw M4x8 mm self-forming, item no. 101339 included.

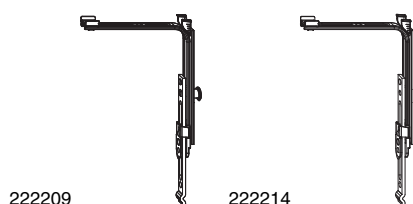
² Countersunk head screw M4x6 mm self-forming, item no. 40533 included.

³ Countersunk head screw M4x6 mm self-forming, item no. 106191 included.

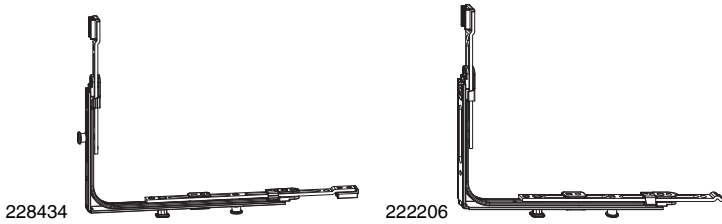


3.1.2 Corner elements horizontal i.S.				No	No Tricoat
silver	horizontally extendable with 1 i.S.	320 - 1.800	50	222205¹	

¹ In combination with rebated corner supports possible from SRW 365 mm.



3.1.3 Corner elements vertical i.S.				No	No Tricoat
silver	vertically extendable with 1 i.S.	750 - 2.800	50	222209	232862
	vertically extendable without i.S. cams	750 - 2.800	50	222214	232864



3.2 Corner elements horizontal i.S. for drive gears VHH					No	No Tricoat
silver	with gearbox for variable transmission horizontally extendable with 2 i.S.	320 - 1.650	470 - 2.250	40	228434	
	for variable drive gear horizontally extendable with 1 i.S.	320 - 1.800	470 - 2.800	50	222206¹	232857¹

¹ In combination with rebated corner supports possible from SRW 365 mm.



3.3 Corner elements i.S. for French casement drive gears				No	No Tricoat
silver	variable 1250 with reverse-action lever with 1 i.S.	801 - 1.250	10	202475¹	250232¹

¹ Can be used only in combination with French casement drive gears for Eurogroove VHH (item no. 227937 and item no. 202471)!










4 Centre locks, Horizontal tilt locks, Faceplate extensions

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Centre locks, Horizontal tilt locks, Faceplate extensions






4 Centre locks, Horizontal tilt locks, Faceplate extensions

201751 

4.1 Centre locks FHH i.S.				L				
silver	1280	with 1 i.S.	1	470	801 - 1.280	20	201751	
	1500	with 1 i.S.	1	705	1.281 - 1.500	20	201752	

201840 

201754 

4.2 Centre locks extendable i.S.				L				
silver	1280V	with 1 i.S.	1	470	801 - 1.280	20	201840¹	232893¹
	1500V	with 1 i.S.	1	705	1.281 - 1.500	20	201753	232894
	Use 201753 and 201840 for application range 1501-1700 mm.							
	2200V	with 2 i.S.	2	1.410	1.701 - 2.200	10	201754	232897
Use 201754 and 201840 for application range 2201-2450 mm.								





¹ Possible only from 850 mm SRH/SRW when using a rebated corner support!

215272 

4.3 Centre locks extendable VZ				L				
silver	1280V	with 1 VZ	1	470	801 - 1.280	20	215272¹	

¹ Possible only from 850 mm SRH/SRW when using a rebated corner support!

206630 

4.4 Faceplate extensions fixed and extendable				L			
silver	faceplate extension MM, extendable		0	138,5	20	206630	232890
				235	20	206197	
		with 1 i.S.	1	235	20	201750	232891



5 Scissor stays

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5 Scissor stays

5.1 Rebated scissor stays



5.1.1 Rebated scissor stays i.S.								
silver	scissor stay mounted MM	400	0	320 - 400	220 - 320	20	211694	236569
		600	0	401 - 600	321 - 490	20	211695	236610
		800	0	601 - 800	491 - 690	20	211696	236611
		1050	1	801 - 1.050		20	211905¹	236617¹
		1300	1	1.051 - 1.300		20	211906¹	236618¹

¹ A stabilizing scissor stay is compulsory from a SRW of 1301 mm.



5.1.2 Rebated scissor stays VZ								
silver	scissor stay mounted MM	400	0	320 - 400	220 - 320	20	211694	236569
		600	0	401 - 600	321 - 490	20	211695	236610
		800	0	601 - 800	491 - 690	20	211696	236611
		1300	1	1.051 - 1.300		20	211699¹	

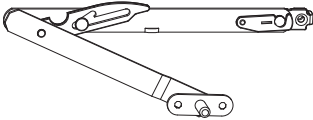
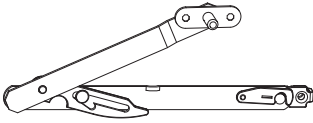
¹ A stabilizing scissor stay is compulsory from a SRW of 1301 mm.



5.2 Tilt stays							
silver	tilt stay with screw hole mounting		204	80	20	101548¹	

¹ Please note: The minimum sash rebate height depends on window profile or geometry!

5.3 Restrictor and cleaning stays



455347

5.3.1 Restrictor and cleaning stays							
silver	Restrictor and cleaning stay with fixing tab	size 1	300 - 500	40	10	455347^{1,2}	
		size 2	501 - 1.200	40	10	455348²	

¹ Application range for Multi Power: 701 - 1200 mm.

² One piece = one pair.

5.4 Accessories for scissor stays



213043

5.4.1 Stabilizing scissor stays						
silver	stabilizing scissor stay MM mounted without night-vent		235	20	213043	



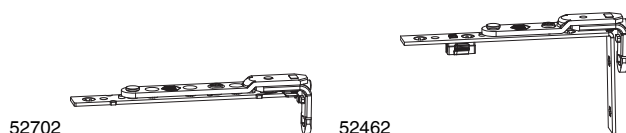
6 Turn-only and tilt-only hinges, compression devices

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Turn-only and tilt-only hinges, compression devices

6 Turn-only and tilt-only hinges, compression devices

6.1 Turn-only hinges - sash part AS/DTuni/PVC



6.1.1 Turn-only hinges - sash part AS/DTuni/PVC				L	kg	cube	No	No Tricoat
silver	turn-only hinge on top AS/DTuni with spacer	13 mm offset	without Eurogroove	151	130	50	214850 ¹	
	turn-only hinge on top DTuni		timber	152	130	50	52702 ^{1,2,3}	
	turn-only hinge on top PVC + AS corner hinge version			143	120	50	52462 ^{1,4}	236299 ^{1,4}

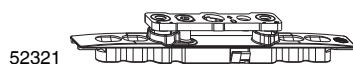
¹ For sash weight above 100 kg use the faceplate extension (item no. 360327 or item no. 215572)!

² For 13 mm offset without Eurogroove use spacer clips item no. 357881.

³ For Eurogroove use packer item no. 41103.

⁴ Only suitable for timber with hardware groove.

6.2 Turn and tilt hinges - sash part AS/DTuni/PVC

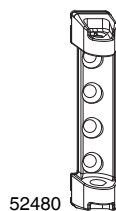


6.2.1 Turn and tilt hinges adjustable AS/DTuni/PVC				L	kg	cube	No	No Tricoat
silver	tilt-only hinge and turn-only hinge AS/DTuni/PVC adjustable			146	80	50	52321 ^{1,2}	

¹ When our restrictor and cleaning stay is used, the maximum sash weight is 40 kg. Observe FPKF guideline of the Gütegemeinschaft Schösser und Beschläge (quality community for locks and hardware)!

² For Eurogroove.

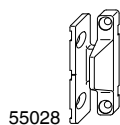
6.3 Multi-sash centre frame hinges



6.3.1 Multi-sash centre frame hinge bearings				kg	cube	No	No Tricoat
silver	scissor stay hinge PVC	with 3 mm positioning pin	PVC	100	100	52480	

Turn-only and tilt-only hinges, compression devices

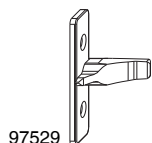
6.4 Compression devices



T 6.4.1 Surface-mounted compression devices

silver	sash and frame component for rebate leg weatherseal	timber	100	55028 ¹	No Tricoat
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¹ Not suitable for fully concealed hardware!

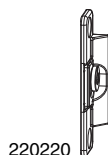


T 6.4.2 Drill-in compression devices for timber

silver	sash component 9 / 13 mm offset	for Eurogroove	100	94089 ^{1,2}	No Tricoat
	sash component 9 mm offset	without Eurogroove	100	97529 ¹	
	sash component 13 mm offset	without Eurogroove	100	360009 ¹	

¹ Suitable for MULTI POWER, MULTI MAMMUT, DT and AS.

² Spacer for corner hinge item no. 40485 may be used for Eurogroove.

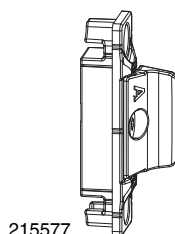


T 6.4.3 Concealed compression devices adjustable with depth adjustment

silver	sash component 9 mm offset	for Eurogroove	100	220219 ¹	No Tricoat
		without Eurogroove	100	220220 ²	

¹ Suitable for MULTI POWER, MULTI MAMMUT, DT and AS.

² Not suitable for fully concealed hardware!



6.4.4 Concealed compression devices adjustable with lateral adjustment

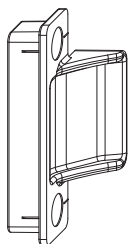
silver	sash component for timber	for Eurogroove	100	215577 ¹	No Tricoat
	sash component for PVC	for Eurogroove	100	218543 ^{1,2}	

¹ Suitable for MULTI POWER, MULTI MAMMUT, DT and AS.


² Frame components for PVC, see profile sheet.



Turn-only and tilt-only hinges, compression devices



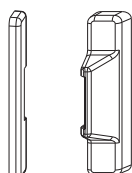
94185

P 6.4.5 Concealed compression devices for PVC				No	No Tricoat
silver	sash component	PVC	100	94185^{1,2}	
	sash component with 5 mm positioning pin	PVC	100	354795^{1,2}	
	sash component for PVC	for Eurogroove	100	218543^{1,2}	


¹ Suitable for MULTI POWER, MULTI MAMMUT and AS.

² Frame components for PVC, see profile sheet.

6.5 Cover caps



101689

6.5.1 Cover cap sets for centre hinges				No	No Tricoat
compression lock AS	light bronze	dyed	10	101689	
for centre hinge	brown F5		10	I70404	

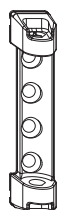


7 Scissor stay hinges

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7 Scissor stay hinges

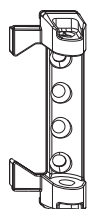
7.1 Scissor stay hinges PVC



52480

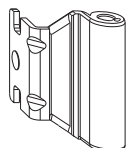
P 7.1.1 Scissor stay hinges PVC		kg	cube	No	No Tricoat
silver	with 3 mm positioning pin	100	100	52480	
	with 7 mm supporting pin	120	100	52481	
traffic white RAL 9016	with 3 mm positioning pin	100	100	204039	

7.2 Surface-mounted scissor stay hinges



54695

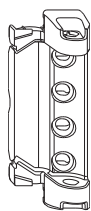
7.2.1 Surface-mounted scissor stay hinges		kg	cube	No	No Tricoat
silver	12/20	120	50	54695	



52486

7.3 Rebated scissor stay support arms AS/PVC		kg	cube	No	No Tricoat
silver	12/20-9	120	100	52487	
	12/20-13	120	100	52486	
traffic white RAL 9016	12/20-9	120	100	207268	
	12/20-13	120	100	206588	

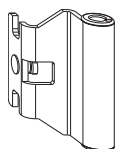
7.4 Scissor stay hinges DT



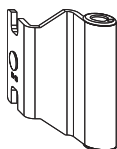
202543

T 7.4.1 Scissor stay hinges DT130		kg		No	
		Tricoat			
silver	12/18	130	50	202543 ¹	233369 ¹

¹ Angled screw-fixing required from 100 kg.



202534



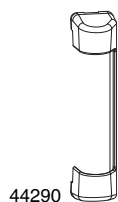
202535

T 7.4.2 Rebated scissor stay support arms DTuni		kg		No	
		Tricoat			
silver	4/18-9 and 12/18-9	160	50	202534 ¹	233343 ¹
	4/18-13 and 12/18-13	160	50	202535 ¹	233344 ¹

¹ Compatible with scissor stay hinge DT130 and DT160.



7.5 Cover caps



44290

7.5.1 Cover caps for scissor stay hinges AS/DT130/PVC						
silver	painted			100	44290	
traffic white RAL 9016	dyed			100	42083 ¹	

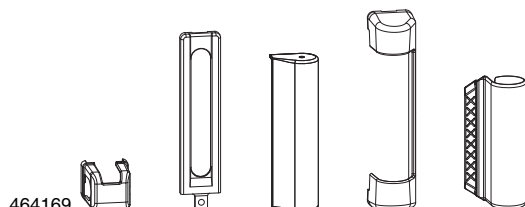
¹ Also available as bulk pack of 500 pieces as item no. 42284.



44291

7.5.2 Cover caps for rebated scissor stay support arms AS/PVC						
silver	painted			100	44291	
traffic white RAL 9016	dyed			100	42084 ¹	

¹ Also available as bulk pack of 500 pieces as item no. 42285.




464169

P 7.5.3 Cover sets						
silver	right			10	464169	
	left			10	464170	
			for pivot post and scissor stay hinge	10	463685	
black brown RAL 8022			10	101911		
bronze	right		with rebate-leg screw-fixing	10	11107	
	left		with rebate-leg screw-fixing	10	11108	
RAL 8003 clay brown	right	dyed	for pivot post and scissor stay hinge	10	104061	
	left	dyed	for pivot post and scissor stay hinge	10	104062	
RAL 8016 mahogany brown	right	painted	for pivot post and scissor stay hinge	10	104067	
	left	painted	for pivot post and scissor stay hinge	10	104068	
RAL 9004 signal black	left	painted	for pivot post and scissor stay hinge	10	104066	

7.6 Accessories for scissor stay hinges



94491

7.6.1 Scissor stay hinge pin AS/DTuni/PVC		No	No Tricoat
silver	200	94491	372750



Scissor stay hinges



8 Pivot posts

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










8 Pivot posts

8.1 Matrix for pivot posts and corner supports

8.1.1 PVC

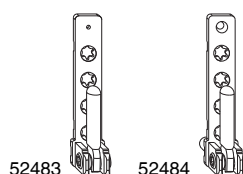
Pivot post / Corner support	Pivot post with Ø 3 mm positioning pin 52483	Pivot post with Ø 7 mm supporting pins, 3 mm short 52485	Pivot post with Ø 7 mm supporting pins, 12 mm / 23 mm long	Pivot post AS for rebated corner support PVC	Pivot post AS	Pivot post INVISIBLE	Pivot post MULTI POWER	Pivot post MULTI MAMMUT
Corner support PVC with Ø 3 mm positioning pin 52478	100 kg max. 2,4 m ²	100 kg max. 2,4 m ²	100 kg max. 2,4 m ²	--	--	--	--	--
Corner support PVC with Ø 5 mm supporting pins 52479	100 kg max. 3,0 m ²	100 kg max. 3,0 m ²	120 kg max. 3,0 m ²	--	--	--	--	--
Rebated corner support AS/PVC without rebate-leg	100 kg* max. 3,0 m ²	100 kg* max. 3,0 m ²	120 kg* max. 3,0 m ²	120 kg* max. 3,0 m ²	--	--	--	--
Rebated corner support AS with rebate-leg	--	--	--	--	120 kg* max. 3,0 m ²	--	--	--
Rebated corner support INVISIBLE	--	--	--	--	--	100 kg* max. 2,4 m ²	--	--
Rebated corner support MULTI POWER	--	--	--	--	--	--	150 kg max. 3,0 m ²	--
Rebated corner support MULTI MAMMUT	--	--	--	--	--	--	--	180 kg max. 3,6 m ²
Corner support PVC MULTI MAMMUT	--	--	--	--	--	--	--	180 kg max. 3,6 m ²
* Observe maximum load of 80 kg for certain components!								
Above pivot post / corner support combinations may only be combined with scissor stay hinges of the same bearing type!								

8.1.2 Timber

Pivot post / Corner support	Pivot post AS	Pivot post AS for rebated corner support ASI/PVC	Pivot post DT130	Pivot post DT160	Pivot post TV	Pivot post INVISIBLE	Pivot post MULTI POWER	Pivot post MULTI MAMMUT
Rebated corner support AS with rebate-leg	 120 kg max. 3,0 m ²	--	--	--	--	--	--	--
Rebated corner support ASI/PVC without rebate-leg	--	 120 kg max. 3,0 m ²	--	--	--	--	--	--
Rebated corner support DT130 without rebate-leg	--	--	 100 kg max. 3,0 m ²	 100 kg max. 3,0 m ²	--	--	--	--
Rebated corner support DT130 with rebate-leg	--	--	 130 kg max. 3,0 m ²	 130 kg max. 3,0 m ²	--	--	--	--
Rebated corner support DT160 with rebate-leg	--	--	--	 160 kg max. 3,0 m ²	--	--	--	--
Rebated corner support TV	--	--	--	--	 100 kg max. 2,4 m ²	--	--	--
Rebated corner support INVISIBLE	--	--	--	--	--	 100 kg max. 2,4 m ²	--	--
Rebated corner support MULTI POWER	--	--	--	--	--	--	 150 kg max. 3,0 m ²	--
Rebated corner support MULTI MAMMUT	--	--	--	--	--	--	--	 220 kg max. 3,6 m ²
* Observe maximum load of 80 kg for certain components!								
Above pivot post / corner support combinations may only be combined with scissor stay hinges of the same bearing type!								

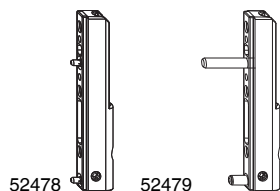


8.2 Pivot posts PVC



P 8.2.1 Pivot posts PVC		kg		No	No Tricoat
silver	with 3 mm positioning pin	100	100	52483	
	with 7 mm supporting pins 23 mm long	120	100	52484¹	
traffic white RAL 9016	with 3 mm positioning pin	100	100	206802	

¹ Above 100 kg support pin must reach through at least 2 profile walls!

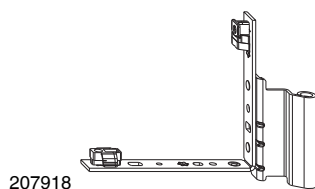


P 8.2.2 Corner supports PVC		kg		No	No Tricoat
silver	with 3 mm positioning pin	100	100	52478^{1,2}	
	with 5 mm supporting pins 23 mm long	120	100	52479^{1,3}	
traffic white RAL 9016	with 3 mm positioning pin	100	100	206848^{1,2}	

¹ For packers for corner supports refer to accessories for pivot posts PVC.

² Maximum sash total surface 2.4 m².

³ Above 100 kg support pin must reach through at least 2 profile walls!

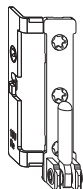


8.2.3 Rebated corner supports AS/PVC without rebate-leg screw fixing			kg		No	No Tricoat
traffic white RAL 9016	right	12/20-9	120	100	207918¹	
	left	12/20-9	120	100	207919¹	
	right	12/20-13	120	100	207920¹	
	left	12/20-13	120	100	207921¹	

¹ Not for use with half-round or angled windows; use on profile system with overlap gasket upon request.

8.3 Pivot posts AS (surface-mounted)

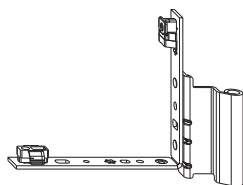
8.3.1 Surface-mounted pivot posts for rebated corner supports AS/PVC without rebate-leg screw fixing



214106

8.3.1.1 Surface-mounted pivot posts for rebated corner supports AS/PVC without rebate-leg screw fixing			kg		No	No Tricoat
silver	right	12/20	120	50	214106 ¹	
	left	12/20	120	50	214107 ¹	

¹ Suitable only with rebated corner support AS/PVC without rebate-leg screw fixing!

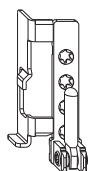


54890

8.3.1.2 Rebated corner supports AS/PVC without rebate-leg screw fixing			kg		No	No Tricoat
silver	right	12/20-9	120	100	54890 ¹	
	left	12/20-9	120	100	54891 ¹	
	right	12/20-13	120	100	54892 ¹	
	left	12/20-13	120	100	54893 ¹	

¹ Not for use with half-round or angled windows; use on profile system with overlap gasket upon request.

8.3.2 Surface-mounted pivot posts for surface-mounted rebated corner supports with rebate-leg screw fixing

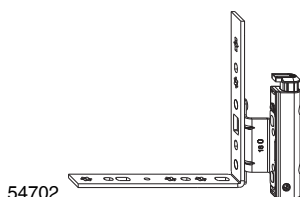


54692

8.3.2.1 Surface-mounted pivot posts for surface-mounted rebated corner supports with rebate-leg screw fixing			kg		No	No Tricoat
silver	right	12/20	120	50	54692 ¹	
	left	12/20	120	50	54693 ¹	

¹ Only suitable with rebated corner support AS with rebate-leg screw fixing!



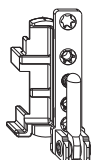


54702

8.3.2.2 Surface-mounted rebated corner supports with rebate-leg screw fixing				kg		No	No Tricoat
silver	with rebate-leg screw-fixing	right	12/20-9	120	50	54702 ¹	
		left	12/20-9	120	50	54703 ¹	
		right	12/20-13	120	50	54704 ¹	
		left	12/20-13	120	50	54705 ¹	

¹ Use on profile systems with overlap gasket upon request.

8.4 Pivot posts DT

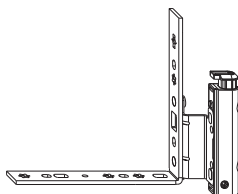


52703

T	8.4.1 Pivot posts DT130			kg		No	No Tricoat
silver		right	12/18	130	50	52703 ¹	233022 ¹
		left	12/18	130	50	52704 ¹	233023 ¹

¹ For sash weights above 100 kg or a dry density below 0.62 g/cm³, insert a countersunk head screw 4 x 40 mm flush below the pivot post!

8.4.2 Rebated corner supports DT



54710

T	8.4.2.1 Rebated corner supports DT130 with rebate-leg screw fixing			kg		No	No Tricoat
silver	with rebate-leg screw-fixing	right	12/18-9	130	50	54710	232934
		left	12/18-9	130	50	54711	232935
		right	12/18-13	130	50	55452	232965
		left	12/18-13	130	50	55453	232966

8.5 Cover caps for pivot posts and corner supports

8.5.1 Cover caps for pivot posts



41742

8.5.1.1 Short cover caps for pivot posts AS/DTuni/PVC			No	No Tricoat
traffic white RAL 9016	dyed	100	41742 ¹	
silver	painted	100	360232	
brown F5	dyed	100	42195	
graphite black RAL 9011	dyed	100	42196	

¹ Also available as bulk pack of 500 pieces as item no. 42286.

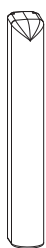


360231

8.5.1.2 Long cover caps for pivot posts DT130/PVC			No	No Tricoat
traffic white RAL 9016	dyed	100	41743 ¹	
silver	painted	100	360231	

¹ Also available as bulk pack of 500 pieces as item no. 42287.

8.5.2 Cover caps for corner supports and rebated corner supports



360233

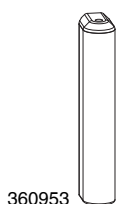
P 8.5.2.1 Cover caps for corner supports PVC			No	No Tricoat
silver	painted	100	360233	




41740

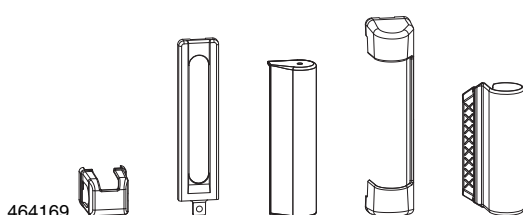
8.5.2.2 Cover caps for rebated corner supports without rebate-leg screw fixing				No	No Tricoat
traffic white RAL 9016	right	dyed	100	41740	
	left	dyed	100	41741	






360953

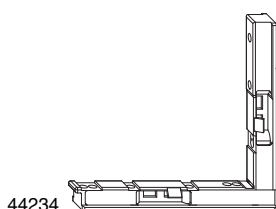
8.5.2.3 Cover caps for rebated corner supports with rebate-leg screw fixing					No	No Tricoat
traffic white RAL 9016	right	dyed		100	43587	
	left	dyed		100	43588	
silver	right	dyed		100	360953	
	left	dyed		100	360954	




464169

P 8.5.3 Cover sets					No	No Tricoat
silver	right			10	464169	
	left			10	464170	
			for pivot post and scissor stay hinge	10	463685	
black brown RAL 8022			10	101911		
bronze	right		with rebate-leg screw-fixing	10	11107	
	left		with rebate-leg screw-fixing	10	11108	
RAL 8003 clay brown	right	dyed	for pivot post and scissor stay hinge	10	104061	
	left	dyed	for pivot post and scissor stay hinge	10	104062	
RAL 8016 mahogany brown	right	dyed	for pivot post and scissor stay hinge	10	104067	
	left	dyed	for pivot post and scissor stay hinge	10	104068	
RAL 9004 signal black	left	dyed	for pivot post and scissor stay hinge	10	104066	

8.6 Accessories for pivot posts



44234

8.6.1 Spacer bars for corner support					No	No Tricoat
graphite black RAL 9011	spacer bar for corner support		for rebated corner support AS/DTuni	100	44234	

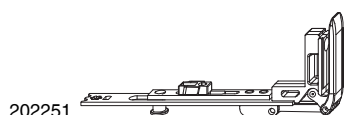


9 French casement locks

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9 French casement locks

9.1 Shootbolts



9.1.1 Horizontal French casement locks		L			No	No Tricoat
silver	French casement lock MM	153	230 - 800	20	202251	233621

9.2 French casement drive gears

9.2.1 French casement drive gears for Eurogroove



9.2.1.1 French casement drive gears for Eurogroove FHH					No	No Tricoat
silver		660	190	431 - 660	10	202873 ¹
	for 1 i.S.	840	300	661 - 840	10	221901
		1090	400	841 - 1.090	10	221902
		1340	500	1.091 - 1.340	10	221903
	for 2 i.S.	1590	600	1.341 - 1.590	10	221906
		1700	700	1.591 - 1.700	10	207242
	for 3 i.S.	1950	1.050	1.701 - 1.950	10	221907
		2200	1.050	1.951 - 2.200	10	221908
	for 4 i.S.	2450	1.050	2.201 - 2.450	10	221909

¹ Use only in combination with turn-only drive gear 660 (item no. 201731).



9.2.1.2 French casement drive gears for Eurogroove VHH i.S.				No	No Tricoat
silver	for 1 i.S.	800	695 - 800	10	227937 ¹
		1250	801 - 1.250	10	202471 ¹
	for 2 i.S.	1750	1.251 - 1.750	10	202472
	for 3 i.S.	2250	1.751 - 2.250	10	202473

¹ Use only in combination with corner element item no. 202475.



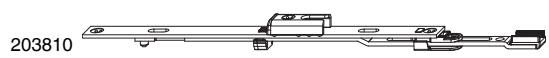
9.2.1.3 French casement drive gears for Eurogroove VHH VZ				No	No Tricoat
silver	for 1 VZ	1250	840 - 1.250	10	211791 ¹
		1460	960 - 1.460	10	225100 ²
	for 2 VZ	1750	1.251 - 1.750	10	209670
	for 3 VZ	2250	1.751 - 2.250	10	209671


¹ Use only in combination with end piece item no. 209648. At centered handle position the application range changes to 930 – 1250 mm.

² Use only in combination with end piece 209648. At centered handle position the application range changes to 1070 – 1350 mm.

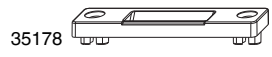
French casement locks


9.2.1.4 Extensions, end pieces and accessories for French casement drive gears for Eurogroove



9.2.1.4.1 Faceplate extensions for French casement drive gears				No	No Tricoat
silver	for 1 i.S.	235	20	203810	

9.3 Accessories for French casement drive gears



9.3.1 Latch striker plates for balcony door locks B-TV				No	No Tricoat
silver	for French casement drive gear	1 fixed slot	50	35178	



10 Striker plates

10.1	Frame components for PVC	62
10.2	Striker plates 12 mm air gap, Euro-rebate, 18 mm rebate depth	65
10.3	Striker plates 12 mm air gap, Euro-rebate, 20 mm rebate depth	67
10.4	Striker plates 12 mm air gap, Euro-rebate, 24 mm rebate depth	69
10.5	Striker plates 12 mm air gap, Euro-rebate, 18 - 30 mm rebate depth	72
10.6	Striker plates for opposite Eurogroove	73



10 Striker plates

10.1 Frame components for PVC

10.1.1 Aluplast

10.1.1.1 energeto MD



P 10.1.1.1.1 1-sashed

silver striker plate for PVC



200



34741



Tricoat

10.1.1.2 Ideal 8000



P 10.1.1.2.1 1-sashed

silver striker plate i.S. for PVC
lifting component MM for PVC right
lifting component MM for PVC left



100
100
100



96674¹

356323¹

356324¹



Tricoat

¹ Default item MACO (recommended by the profile/system provider).

10.1.1.3 Ideal 3000 MD



P 10.1.1.3.1 1-sashed

silver lifting component MM for PVC right
lifting component MM for PVC left



100
100



358016¹

358017¹



Tricoat

¹ Default item MACO (recommended by the profile/system provider).

10.1.2 Deceuninck

10.1.2.1 Elegant



P 10.1.2.1.1 1-sashed

silver striker plate for PVC
striker plate i.S. for PVC
striker plate i.S. for PVC - 0.5 mm gasket-compression
lifting component MM for PVC right
lifting component MM for PVC left



200
100
100
100
100



358074

96355

357189

364237

364238




Tricoat

10.1.3 Gealan

10.1.3.1 S 8000



356398

P 10.1.3.1.1 1-sashed			No	No Tricoat
silver	striker plate for PVC	200	34529¹	
	striker plate i.S. for PVC	100	96429¹	
	lifting component MM for PVC right	100	356397¹	
	lifting component MM for PVC left	100	356398¹	

¹ Default item MACO (recommended by the profile/system provider).

10.1.4 Profine

10.1.4.1 System 76 AD



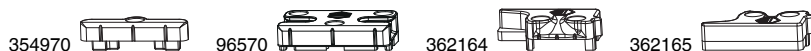
34133

P 10.1.4.1.1 1-sashed			No	No Tricoat
silver	striker plate for PVC	200	34133¹	

¹ Default item MACO (recommended by the profile/system provider).

10.1.5 Rehau

10.1.5.1 Synego AD




354970

96570

362164

362165

P 10.1.5.1.1 1-sashed			No	No Tricoat
silver	striker plate for PVC	200	354970¹	
	striker plate i.S. for PVC	100	96570¹	
	lifting component MM for PVC right	100	362164¹	
	lifting component MM for PVC left	100	362165¹	

¹ Default item MACO (recommended by the profile/system provider).

10.1.6 Salamander


10.1.6.1 Design 3D MD



96140

356966

356967

P 10.1.6.1.1 1-sashed			No	No Tricoat
silver	striker plate for PVC	200	34824¹	
	striker plate i.S. for PVC	100	96140¹	
	lifting component MM for PVC right	100	356966¹	
	lifting component MM for PVC left	100	356967¹	

¹ Default item MACO (recommended by the profile/system provider).



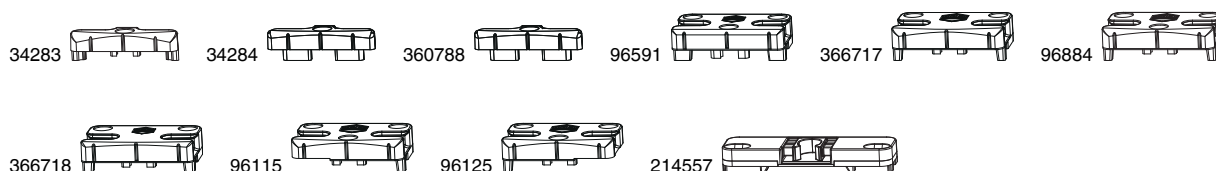
10.1.7 Veka

10.1.7.1 Alu Connect 82 MD



P 10.1.7.1.1 1-sashed			No	No Tricoat
silver	striker plate i.S. for PVC	100	96883	
	lifting component MM for PVC right	100	357931	
	lifting component MM for PVC left	100	357932	
	concealed compression lock PVC frame component	100	362280	

10.1.7.2 Softline 82 AD



P 10.1.7.2.1 1-sashed			No	No Tricoat
silver	striker plate for PVC	200	34283	
	striker plate for PVC - 0.8 mm gasket-compression	200	34284 ¹	
		200	360788	
	striker plate i.S. for PVC	100	96591	
		100	366717	
	striker plate i.S. for PVC - 0.8 mm gasket-compression	100	96884 ¹	
	striker plate i.S. for PVC - 1 mm gasket-compression	100	366718	
	striker plate i.S. for PVC recess for transom connector - 0.8 mm gasket-compression right	100	96115	
	striker plate i.S. for PVC recess for transom connector - 0.8 mm gasket-compression left	100	96125	
	bullet catch for PVC	50	214557	

¹ Default item MACO (recommended by the profile/system provider).



10.1.7.2.2 2-sashed			No	No Tricoat
silver	latch striker for Eurogroove	50	35250	
	latch striker opposite Eurogroove 1 fixed slot	100	97824	

10.2 Striker plates 12 mm air gap, Euro-rebate, 18 mm rebate depth



10.2.1 Striker plates 12 mm air gap, Euro-rebate, 18 mm rebate depth			No	No Tricoat
silver	double screw fixing	200	34943	
	angled screw-fixing	200	34980	
		- 1 mm gasket-compression	200	357844
			100	34407



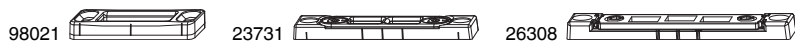
10.2.2 Sash lifters 12 mm air gap, Euro-rebate, 18 mm rebate depth			No	No Tricoat
silver	angled screw-fixing	right	100	356298
		left	100	356299



10.2.3 Striker plates i.S. 12 mm air gap, Euro-rebate, 18 mm rebate depth			No	No Tricoat
silver	angled screw-fixing		100	96860
		+ 1 mm gasket-compression	100	359770
		- 0.7 mm gasket-compression	100	96660
	without reinforcement rings	angled screw-fixing	100	355606



10.2.4 Tilt-first striker plates i.S. 12 mm air gap, Euro-rebate, 18 mm rebate depth			No	No Tricoat
silver	MM	right	100	365400
		left	100	365401



10.2.5 Shootbolt striker plates 12 mm air gap, Euro-rebate, 18 mm rebate depth			No	No Tricoat
silver	1 fixed slot	100	98021 ¹	
	2 slots	100	23731	
		+ 1 mm gasket-compression	100	26745
	2 slots with angled screw-fixing	100	26741	
	3 slots	100	26308 ¹	

¹ For windows - Group C5 EN 12210.



10.2.6 Tilt striker plate 12 mm air gap, Euro-rebate, 18 mm rebate depth			No	No Tricoat
silver		100	33981	





25118

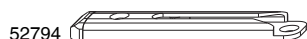
T	10.2.7 Night-vent striker plate 12 mm air gap, Euro-rebate, 18 mm rebate depth			No	No Tricoat
	silver				

¹ Only possible in combination with corner element item no. 209034.



55277

T	10.2.8 Striker plate for espagnolette with mounted tilt stay 12 mm air gap, Euro-rebate, 18 mm rebate depth			No	No Tricoat
	silver				



52794

T	10.2.9 Stabilizing scissor stay casing 12 mm air gap, Euro-rebate, 18 mm rebate depth			No	No Tricoat
	silver				



38924

T	10.2.10 Latch striker plate 12 mm air gap, Euro-rebate, 18 mm rebate depth			No	No Tricoat
	silver	adjustable			



34963

T	10.2.11 Striker plates with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 18 mm rebate depth			No	No Tricoat		
	silver	angled screw-fixing				200	34963
		- 1 mm gasket-compression				200	370110



96690

T	10.2.12 Striker plates i.S. with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 18 mm rebate depth			No	No Tricoat		
	silver	angled screw-fixing				100	96690
		- 0.7 mm gasket-compression				100	96890



26621

T	10.2.13 Shootbolt striker plate with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 18 mm rebate depth			No	No Tricoat
	silver	2 slots			




364286


T	10.2.14 Sash lifters with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 18 mm rebate depth			No	No Tricoat			
	silver	angled screw-fixing				right	100	364286
						left	100	364287

10.3 Striker plates 12 mm air gap, Euro-rebate, 20 mm rebate depth

34981 


T 10.3.1 Striker plates 12 mm air gap, Euro-rebate, 20 mm rebate depth			No	No Tricoat
silver	angled screw-fixing	200	34981	
		- 1 mm gasket-compression	200	355396
	without reinforcement rings angled screw-fixing	200	34986	

361960 


T 10.3.2 Striker plate rear-engaging 12 mm air gap, Euro-rebate, 20 mm rebate depth			No	No Tricoat
silver	angled screw-fixing	200	361960¹	

¹ Only for i.S. cam!


356326 

T 10.3.3 Sash lifters 12 mm air gap, Euro-rebate, 20 mm rebate depth			No	No Tricoat
silver	angled screw-fixing	right 100	356326	
		left 100	356327	


96561 

T 10.3.4 Striker plates i.S. 12 mm air gap, Euro-rebate, 20 mm rebate depth			No	No Tricoat
silver	angled screw-fixing	100	96561	
		- 0.7 mm gasket-compression	100	96861
	without reinforcement rings angled screw-fixing	100	96779	
		- 0.7 mm gasket-compression	100	96641

363797 

T 10.3.5 Tilt-first striker plate i.S. 12 mm air gap, Euro-rebate, 20 mm rebate depth			No	No Tricoat
silver	MM	right and left 100	363797	

26241 

T 10.3.6 Shootbolt striker plates 12 mm air gap, Euro-rebate, 20 mm rebate depth			No	No Tricoat
silver	2 slots	100	26241	
		+ 1 mm gasket-compression	100	208439





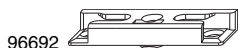
T 10.3.7 Tilt striker plate 12 mm air gap, Euro-rebate, 20 mm rebate depth			No	No Tricoat
silver		left/right	100	33607
	angled screw-fixing	right	100	357738
		left	100	357739
	without reinforcement rings	right	100	361949
		left	100	361950
		right and left	100	363300



T 10.3.8 Striker plate with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 20 mm rebate depth			No	No Tricoat
silver	angled screw-fixing		200	34985



T 10.3.9 Sash lifters with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 20 mm rebate depth			No	No Tricoat
silver	angled screw-fixing	right	100	356959
		left	100	356960




T 10.3.10 Striker plate i.S. with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 20 mm rebate depth			No	No Tricoat
silver	angled screw-fixing		100	96692



T 10.3.11 Shootbolt striker plate with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 20 mm rebate depth			No	No Tricoat
silver	2 slots		100	206977

10.4 Striker plates 12 mm air gap, Euro-rebate, 24 mm rebate depth

34934 


10.4.1 Striker plates 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset					No	No Tricoat
T	silver	angled screw-fixing		200	34934	
			- 1 mm gasket-compression	200	359297	
	without reinforcement rings	angled screw-fixing		100	362812	



360849 


10.4.2 Striker plate rear-engaging 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset					No	No Tricoat
T	silver	angled screw-fixing		200	360849 ¹	

¹ Only for i.S. cam!


356333 

10.4.3 Sash lifters 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset					No	No Tricoat
T	silver	angled screw-fixing	right	100	356333	
			left	100	356334	

364952  363027 

10.4.4 Striker plates i.S. 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset					No	No Tricoat
T	silver	without reinforcement rings	angled screw-fixing		100	364952
				- 1 mm gasket-compression	100	364953
		design without reinforcement rings	angled screw-fixing		100	363027

369757 

10.4.5 Tilt-first striker plates i.S. 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset					No	No Tricoat
T	silver		right	100	369757	
			left	100	369758	





T 10.4.6 Shootbolt striker plates 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset			No	No Tricoat
silver	24 mm rebate depth, 13 mm offset	1 fixed slot	100	360624¹
		2 slots	100	203329
		2 slots with angled screw-fixing	+ 1 mm 100	212474²
	24 mm rebate depth, 13 mm offset without reinforcement rings	+ 1 mm gasket-compression	100	211369
		2 slots with angled screw-fixing	+ 1 mm gasket-compression	100
	2 slots	100	210279	

¹ For windows - Group C5 EN 12210.

² Height + 1 mm.



T 10.4.7 Tilt striker plates 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset			No	No Tricoat
silver		right	100	359003
		left	100	359004
	without reinforcement rings	right	100	361922
		left	100	361923



T 10.4.8 Night-vent striker plate 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset			No	No Tricoat
silver		100	370925¹	

¹ Only possible in combination with an i.S. cam.



T 10.4.9 Sash lifter for half round and angled windows, 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset			No	No Tricoat
silver		50	206200	

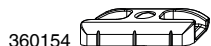


T 10.4.10 Latch striker plate 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset			No	No Tricoat
silver	adjustable	50	209347	



T 10.4.11 Striker plates with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset			No	No Tricoat
silver	angled screw-fixing		200	356961
		+ 1.2 mm gasket compression	200	357213

Striker plates



360154

T	10.4.12 Striker plate rear-engaging with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset				No	No Tricoat
	silver			200	360154¹	

¹ Only for i.S. cam!



363992

T	10.4.13 Sash lifters with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset				No	No Tricoat
	silver	angled screw-fixing		right 200 left 200	363992 363993	



364954



363487

T	10.4.14 Striker plates i.S. with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset				No	No Tricoat
	silver	with positioning pins 12x3 mm	angled screw-fixing	100	364954	
			- 1 mm gasket- compression	100	370557	
		design with positioning pins 12x3 mm	angled screw-fixing	100	363487	




207368

T	10.4.15 Shootbolt striker plates with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset				No	No Tricoat
	silver	2 slots		100	207368	




10.5 Striker plates 12 mm air gap, Euro-rebate, 18 - 30 mm rebate depth


206200 

T	10.5.1 Sash lifter for half round and angled windows 12 mm air gap, Euro-rebate, 18 - 30 mm rebate depth		No	No Tricoat
	silver			

55277 


T	10.5.2 Striker plate for espagnolette with mounted tilt stay 12 mm air gap, Euro-rebate, 18 - 30 mm rebate depth		No	No Tricoat
	silver			

25118 

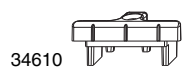
T	10.5.3 Night-vent striker plate 12 mm air gap, Euro-rebate, 18 - 30 mm rebate depth		No	No Tricoat
	silver			

¹ Only possible in combination with corner element item no. 209034.

52794 

T	10.5.4 Stabilizing scissor stay casing 12 mm air gap, Euro-rebate, 18 - 30 mm rebate depth		No	No Tricoat
	silver			

10.6 Striker plates for opposite Eurogroove



34610

10.6.1 Striker plates for opposite Eurogroove



No

No
Tricoat

silver		200	34610
	- 1 mm gasket-compression	200	34606



355923

10.6.2 Sash lifters for opposite Eurogroove



No

No
Tricoat

silver	right	100	355923
	left	100	355924



355221

96558

10.6.3 Striker plates i.S. for opposite Eurogroove

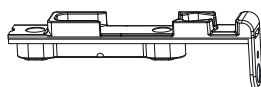


No

No
Tricoat

silver		100	355221
	- 0.8 mm gasket-compression	100	96558

26071



P 10.6.4 Tilt striker plate for opposite Eurogroove for PVC



No

No
Tricoat

silver	right and left	100	26071
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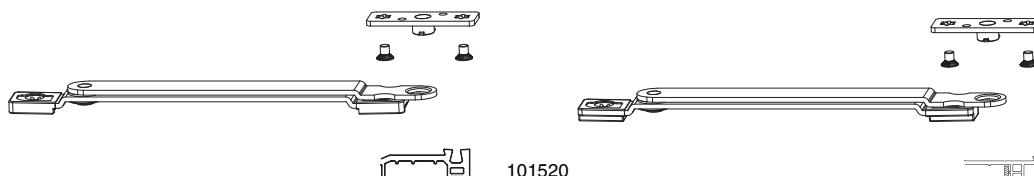


11 Accessories Multi-Matic

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11 Accessories Multi-Matic



P 11.1 Turn restrictions							
silver	turn restriction PVC / TV PVC end cap - type 1		260 - 1.300	80	20	101519 ^{1,2}	
	turn restriction PVC / TV PVC end cap - type 2		260 - 1.300	80	20	101520 ^{1,2}	

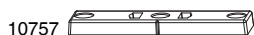
¹ In combination with horizontal corner support, the application area increases by 250 mm.
² Not for use in combination with rebated corner support without rebate-leg screw fixing.

11.2 Opening restrictors



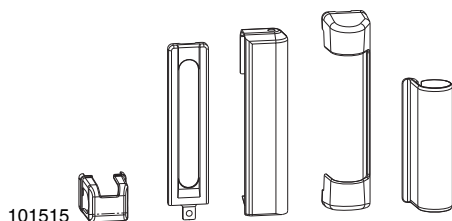
P 11.2.1 Frame components for opening restrictors			L			
silver	frame component for opening restrictor for PVC		78	20	10757	

11.3 Comfort adjusters

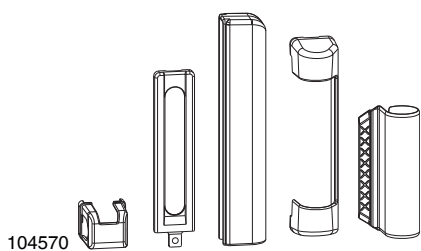



P 11.3.1 Frame components for comfort adjusters					
silver	frame component for opening restrictor for PVC		20	10757	

11.4 Cover cap sets




T 11.4.1 Cover cap sets for pivot posts and scissor stay hinges DT					
right	DT130	silver	10	463683	
		light bronze	dyed	10	101515
left	DT130	silver	10	463684	
		light bronze	dyed	10	101516





P 11.4.2 Cover cap sets for pivot posts and scissor stay hinges			No	No Tricoat
PVC	bronze	10	461219	
	brown F5	10	11100	
	deer brown RAL 8007 dyed	10	104570	





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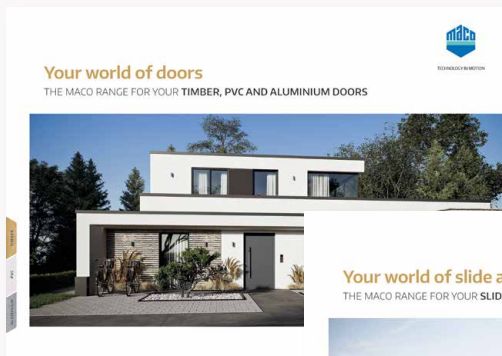
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358017	100	62
358074	200	62
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359004	100	70
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359770	100	65
360009	100	41
360154	200	71
360231	100	

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363797	100	67	96692	100	68
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