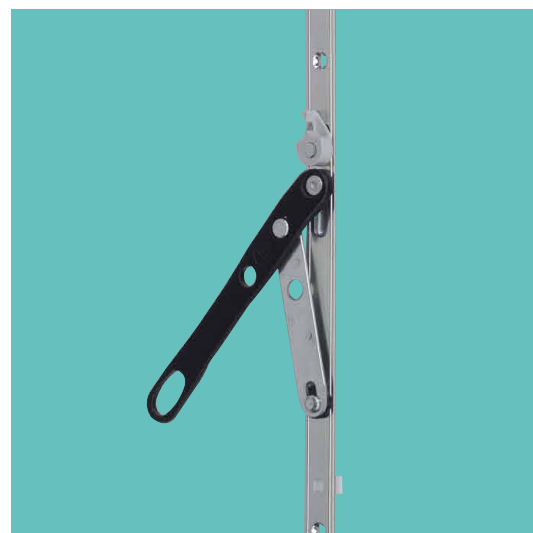
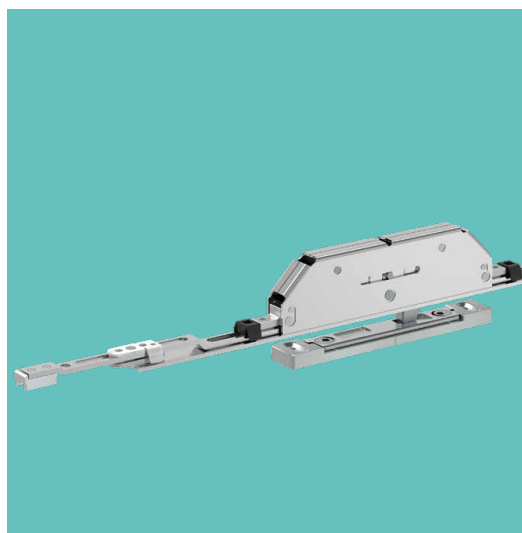
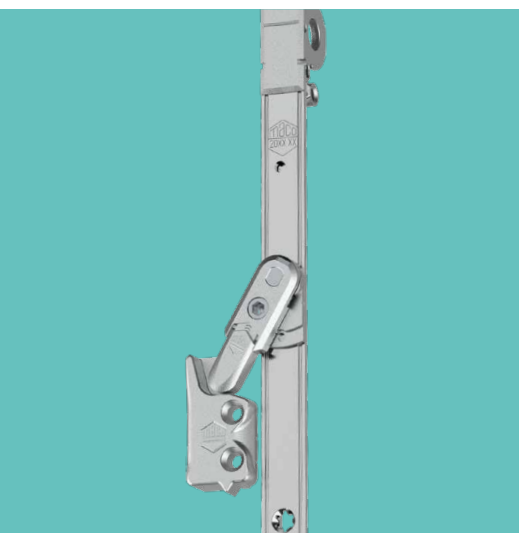




TECHNOLOGY IN MOTION








































# MACO MULTI-MATIC

TURN AND TILT HARDWARE



CATALOGUE

# Symbols

	For timber windows		Offset
	For PVC and aluminium windows		Rebate depth
	Part 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



Dear MACO customer,

You are holding our new order catalogue in your hands. Our main aim was to present our product range in a simple and easy-to-understand manner in order to provide you with a practical working document. In addition to this catalogue, our package leaflet and assembly instructions will help you to process and install our products correctly. These are available to download from [www.maco.eu](http://www.maco.eu).

Our products help to ensure that windows, doors and large-scale elements offer optimum function and security. As a premium manufacturer, that carries out its business according to the highest standards, the optimum quality and functionality of our hardware is our top priority. While we guarantee the best possible product characteristics for our hardware components, the responsibility for professional installation and correct fixing lies in your hands.

We want to support you, as a dealer or fabricator, with your responsibility for the safety of your products. Our binding assembly instructions and package leaflets provide information about the general use and processing of our hardware. To ensure the best fabrication and attachment of the hardware components – to suit the relevant installation situation, such as strength and profile design of the timber, arrangement of chambers and reinforcement in PVC profiles, etc., you can have elements tested and evaluated at our certified test centre: an air permeability and driving rain test as well as a pull-out test will help you to meet CE marking requirements. This means that you can rest assured that you are meeting all the standards and directives applicable to you.

You can find information about how to properly store our hardware components in the VHBH guideline of the Quality Assurance Association: Locks and Hardware ([www.fvsb.de](http://www.fvsb.de)) or section Information on storage and transport of hardware components.

***Important for dealers: MACO supplies its products with the corresponding number of package leaflets. As a dealer, you are responsible for enclosing the correct number of package leaflets with the products sold by you. Also, please ensure that you make your customers aware of the relevant binding instructions and legal aspects of the document.***

We also provide you with operation and maintenance instructions for end users for you to pass on to your customers. These can also be downloaded from the MACO website ([www.maco.eu](http://www.maco.eu)).

We offer an option in our extranet ([extranet.maco.eu](http://extranet.maco.eu)) with our online catalogue, which, in addition to highly up-to-date information, also offers the advantage of extensive additional technical information for all components. You can obtain access details from your contact partner in field sales.

All of our printed documentation is continuously revised and expanded. Please make sure that you are working with our most current documentation. All of our documentation is available for download from [www.maco.eu](http://www.maco.eu). We hope that the catalogue will prove to be a valuable tool for your daily work. We wish you every success and hope to see you online soon.

*Please fill in completely*
















<b>We confirm receipt and approvingly acknowledge its contents.</b>	
<p>Stamp:</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	<hr style="width: 80%; margin: 0 auto;"/> <p><i>Please print your name in capital letters</i></p>
Date: _____	Signature: _____

MACO sales manager: \_\_\_\_\_

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MAYER & CO BESCHLÄGE GMBH • ALPENSTRASSE 173 • PO box 94 • A-5020 Salzburg  
Phone: +43 662 6196-0 • Fax Purchasing: +43 662 6196-1222 • Fax Sales: +43 662 6196-1449  
Commercial register: Salzburg district court • Registration number: FN 136280m • DVR 0564389 • ATU-Nr.: 39042709  
[maco@maco.eu](mailto:maco@maco.eu) • [www.maco.eu](http://www.maco.eu)



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## **1 General and technical information**

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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.

The current version is downloadable from our website ([www.maco.eu](http://www.maco.eu)).

Further technical documents are available in our Technical Online Catalogue TOM ([extranet.maco.eu](http://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](mailto: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](http://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](http://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](http://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](http://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](http://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).

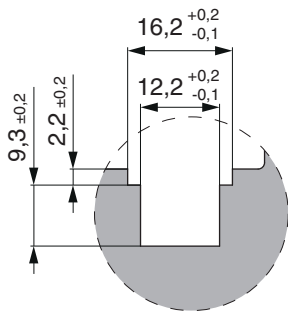
- Aggressive vapors by cleaners or assembly aids such as silicone, and the like must - be avoided - even briefly. Vapors of such substances can cause very rapid corrosion of fittings.
- Salty air or polluted by industrial air causes galvanized surfaces to corrode and can leave deposits.

## 1.5 Profile specifications

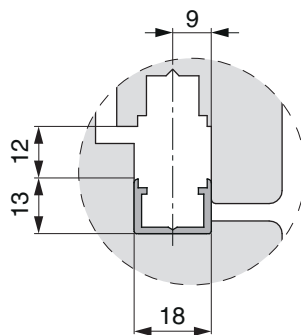
### 1.5.1 Eurogroove

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

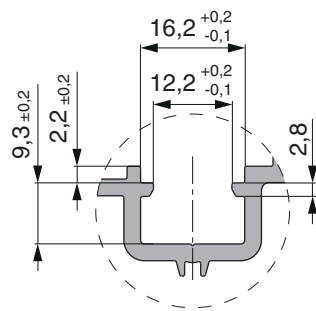
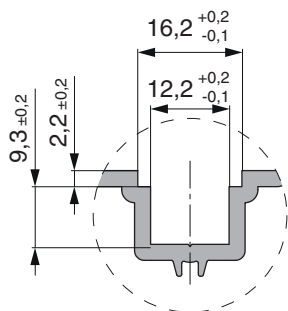
**Timber sash**



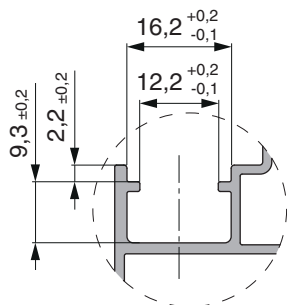
**Timber sash French casement design with aluminium recess**



**PVC sash**



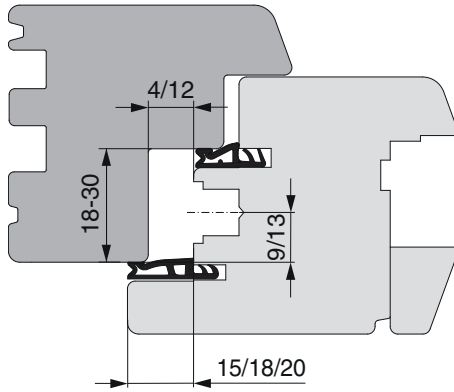
**Aluminium sash**



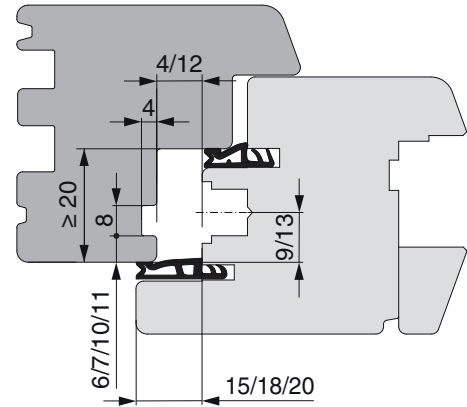
## 1.5.2 Recommendation for timber profiles

### Single-sash

System Euro-rebate

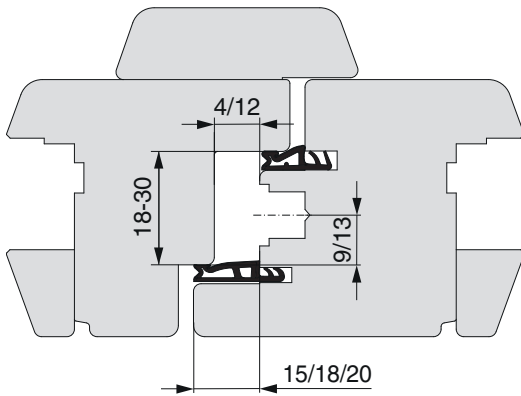


System hardware groove

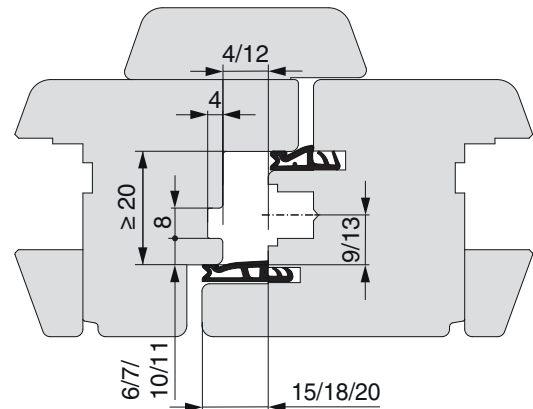


### Double-sash (French casement)

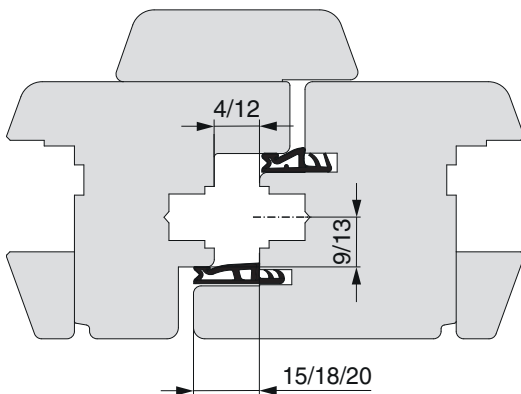
French casement sash with Euro-rebate



French casement sash with hardware groove



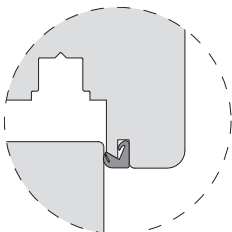
French casement sash with Eurogroove



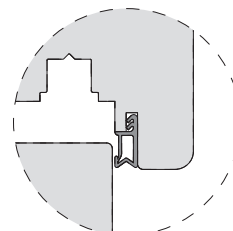


## Design of rebate leg weatherseal

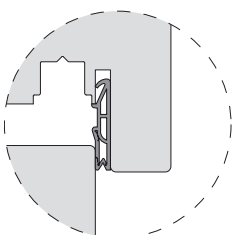
small



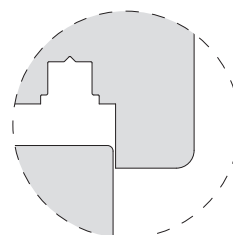
medium



large



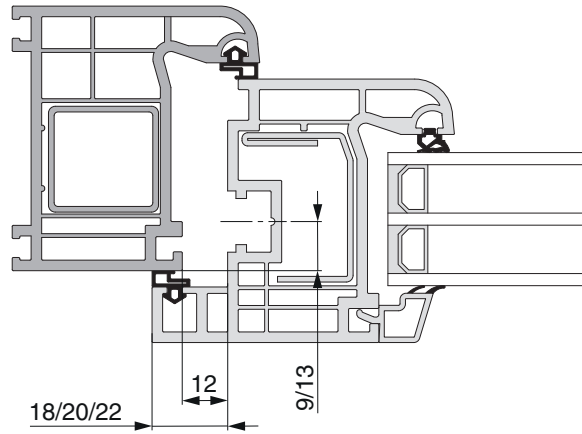
without



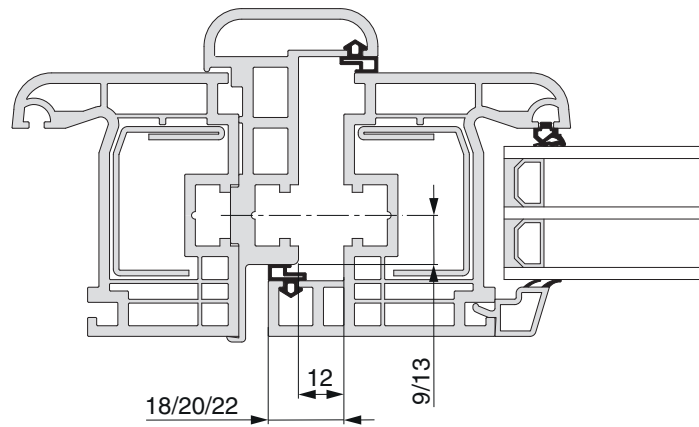
Further information on the possible designs and materials of weatherseals for windows, doors and slide systems according to our weatherseals catalogue (order no. 757507 – for download on [www.maco.eu](http://www.maco.eu)) or our Technical Online Catalogue (TOM).

1.5.3 Examples for PVC profiles

Single-sash



Double-sash (French casement)

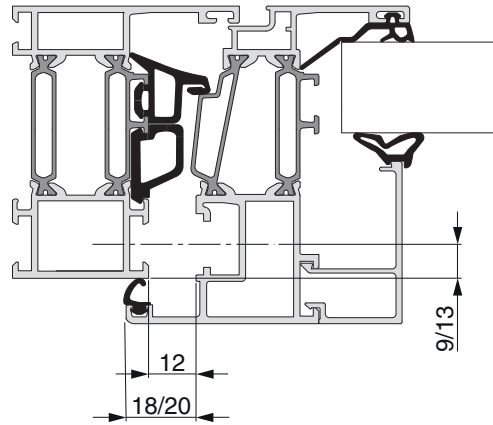




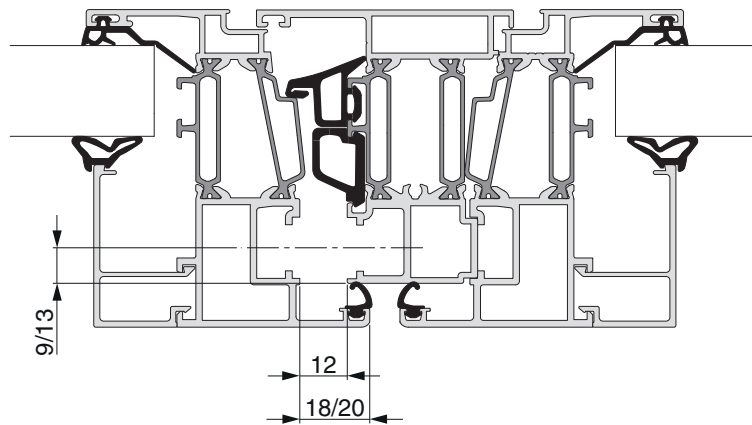
1.5.4 Examples for aluminium profiles



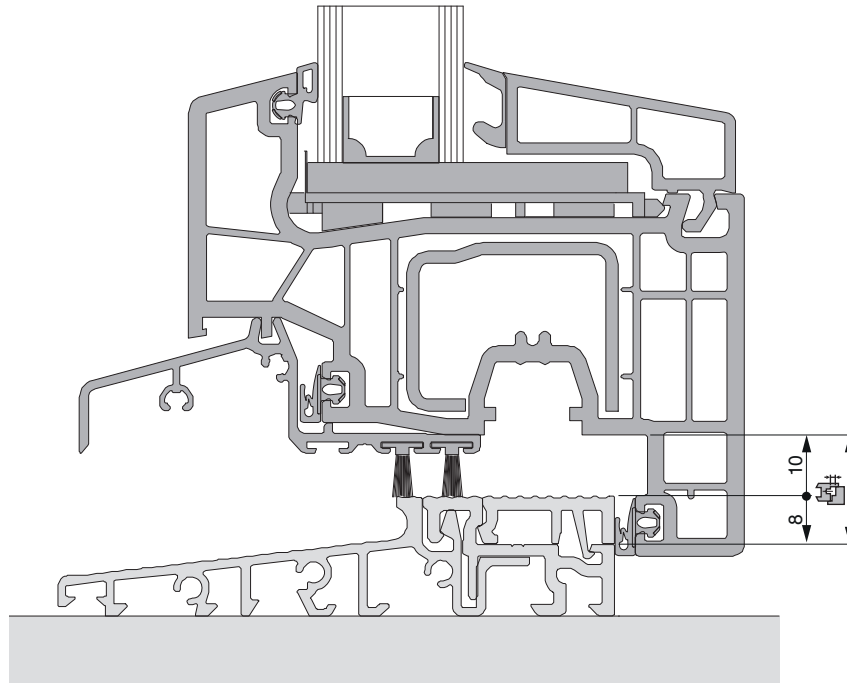
Single-sash



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](http://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](http://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

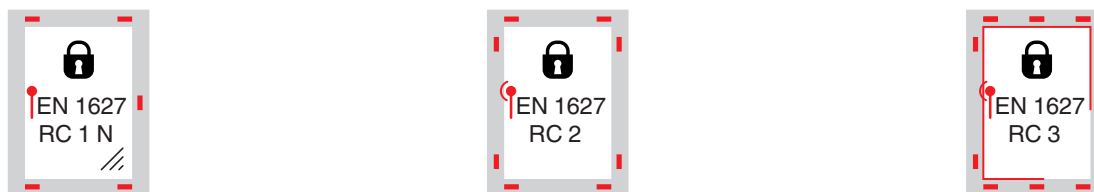


Double-sash windows and balcony doors



### 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](http://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](http://www.maco.eu). In addition our safety descriptions relating to dangerous substances (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](http://www.maco.eu)).



## 2 Fundamental processing information

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## 2 Fundamental processing information

### 2.1 Manufacturers application advices

This catalogue applies only for the installation of MACO MULTI-MATIC turn-only and turn&tilt hardware of plumb windows and window doors in building construction. The hardware is designed for the following sash rebate dimensions and sash weights:

#### 1. Maximum sash weights

The following listed maximum sash weights for the individual hardware versions may not be exceeded. The component that has the lowest permissible load-bearing capacity determines the max. sash weight. Application diagrams and component assignment must be observed.

#### 2. Sash sizes

The description of the application diagrams show the relationships between the permissible sash rebate widths and sash rebate heights, depending on various glass weights and/or total glass thickness. The resulting sash rebate dimensions or sash formats (portrait and/or landscape format) - as well as the maximum sash weight - may not be exceeded under any circumstance.

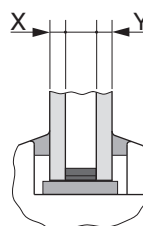
#### 3. Composition of the hardware

The manufacturer's regulations governing the combination of hardware are binding (for example, the application of additional stay arms, the hardware design for burglar-resistant window and casement doors, sashes etc.).

### 2.2 Calculation of glass weight (= sash weight)

Glass thickness (mm)	8	10	12	14	16	18	20	22	24
Weight (kg/m <sup>2</sup> )	20	25	30	35	40	45	50	55	60

1 mm = 2.5 kg/m<sup>2</sup>



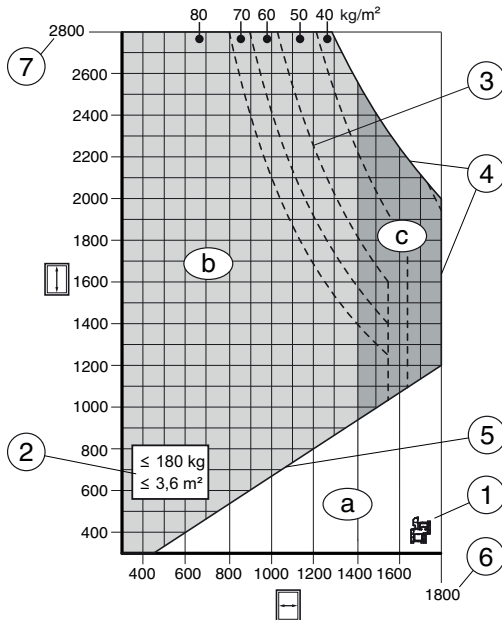
Total glass thickness = x + y

**In order to derive the sash weight from the weight of the glass in a simplified form, it is not necessary to use the glass rebate dimensions but the sash rebate dimensions to calculate the weight!**



## 2.3 Application diagram

### 2.3.1 Information inside the application diagram



- 1) Material mark
  - 2) Maximum weight and format size
  - 3) Glass weight lines (dashed)
  - 4) Maximum format size
  - 5) Ratio SRH : SRW (1 : 1.5)
  - 6) Maximum sash rebate width (SRW)
  - 7) Maximum sash rebate height (SRH)
- a) White area = not allowed  
 b) Grey area = allowed  
 c) Dark grey area = stabilizing scissor stay necessary



### 2.3.2 Calculation examples

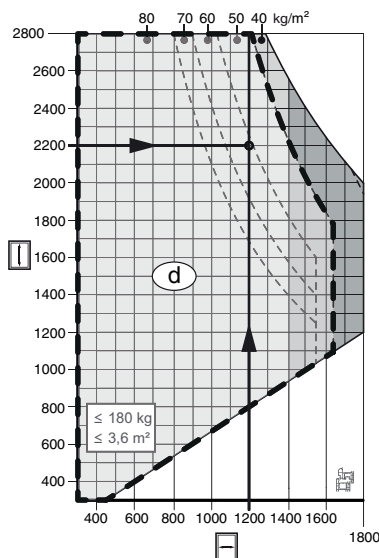
#### Example 1: Sash weight is within the valid range

Sash-rebate dimensions 1,200 x 2,200 mm

Total glass thickness = 20 mm

Glass weight = 20 mm x 2.5 kg/m<sup>2</sup> = 50 kg/m<sup>2</sup>  
 (Sash weight = 1.2 x 2.2 x 50 ≈ 132 kg)

**VALID range of application, because the point of intersection is left of the line 50 kg/m<sup>2</sup>.**



d) Valid range

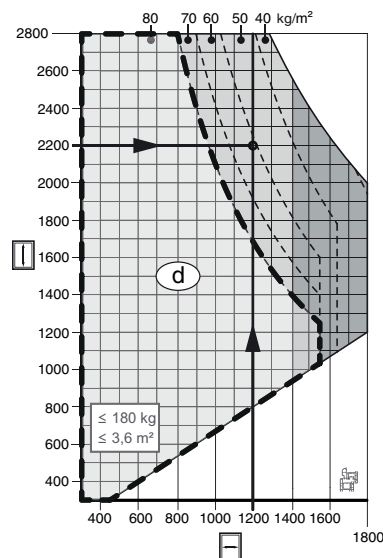
#### Example 2: Sash weight is outside the valid range

Sash-rebate dimensions 1,200 x 2,200 mm

Total glass thickness = 32 mm

Glass weight = 32 mm x 2.5 kg/m<sup>2</sup> = 80 kg/m<sup>2</sup>  
 (Sash weight = 1.2 x 2.2 x 80 ≈ 211 kg)

**INVALID range of application, because the point of intersection is NOT left of the line 80 kg/m<sup>2</sup>.**



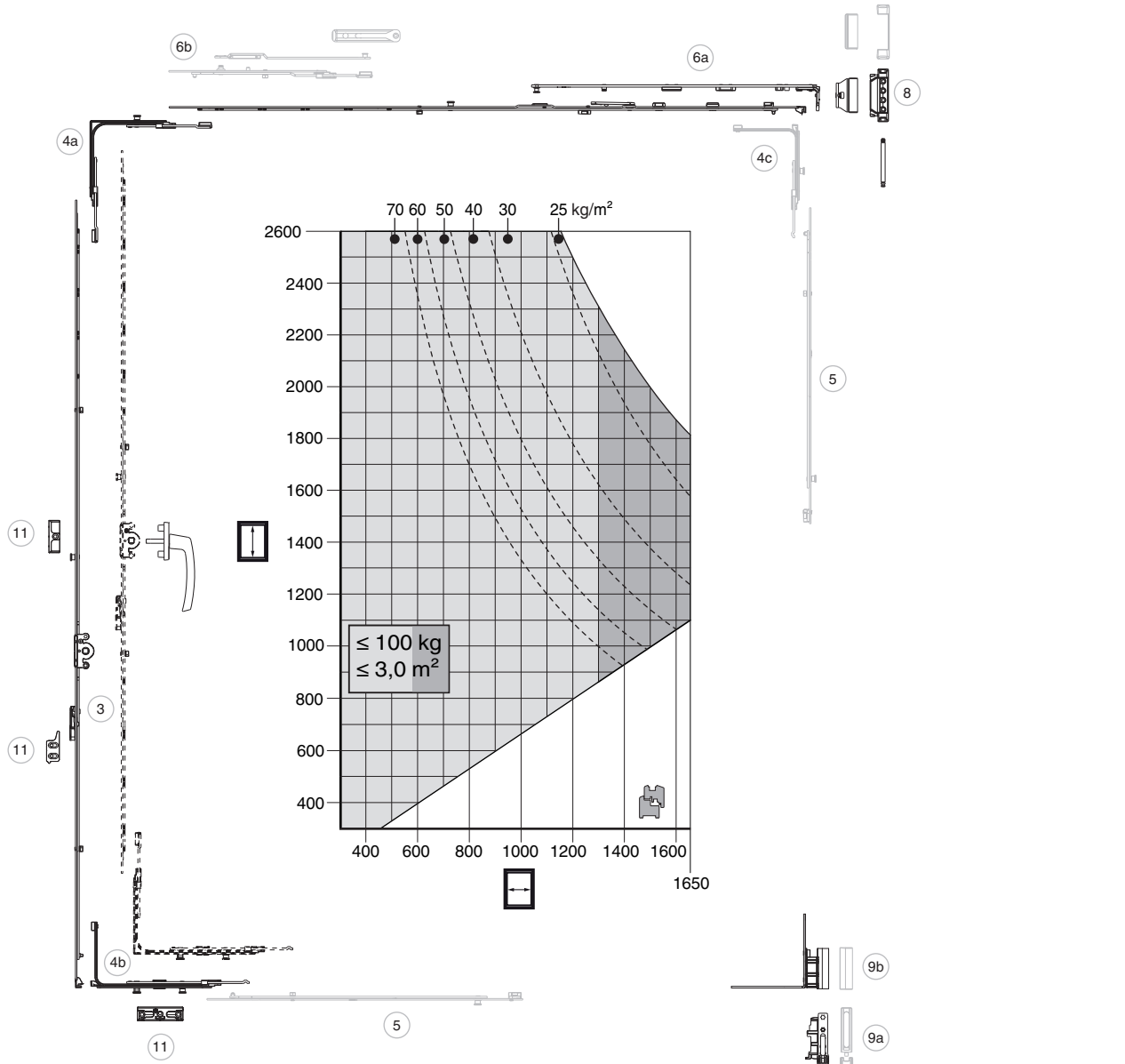
d) Valid range


## 2.4 Hardware overviews



### 2.4.1 Timber (DT130, DT160)



#### 2.4.1.1 DT130



##### 2.4.1.1.1 1-sashed rectangular T&T window with pivot post DT130 and rebated corner support DTuni without rebate-leg screw fixing



 ≤ 1650 x 2600 mm

 ≥ 320 mm  
 ≥ 220 mm

 ≥ 360 mm ( 15 )  
 ≥ 455 mm ( 6,5 )  
 ≥ 470 mm ( 15 )  
 ≥ 530 mm ( 6,5 )

 ≥ 270 mm ( 15 )  
 ≥ 365 mm ( 6,5 )  
 ≥ 400 mm ( 15 )  
 ≥ 460 mm ( 6,5 )

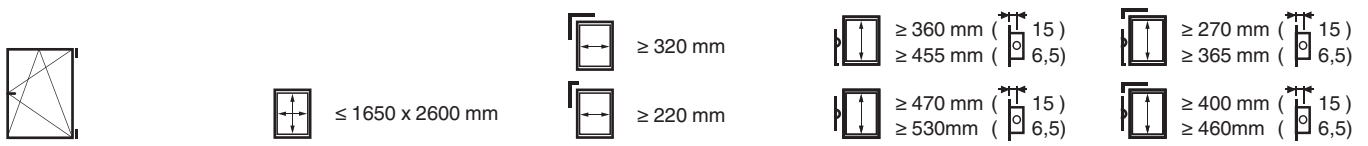
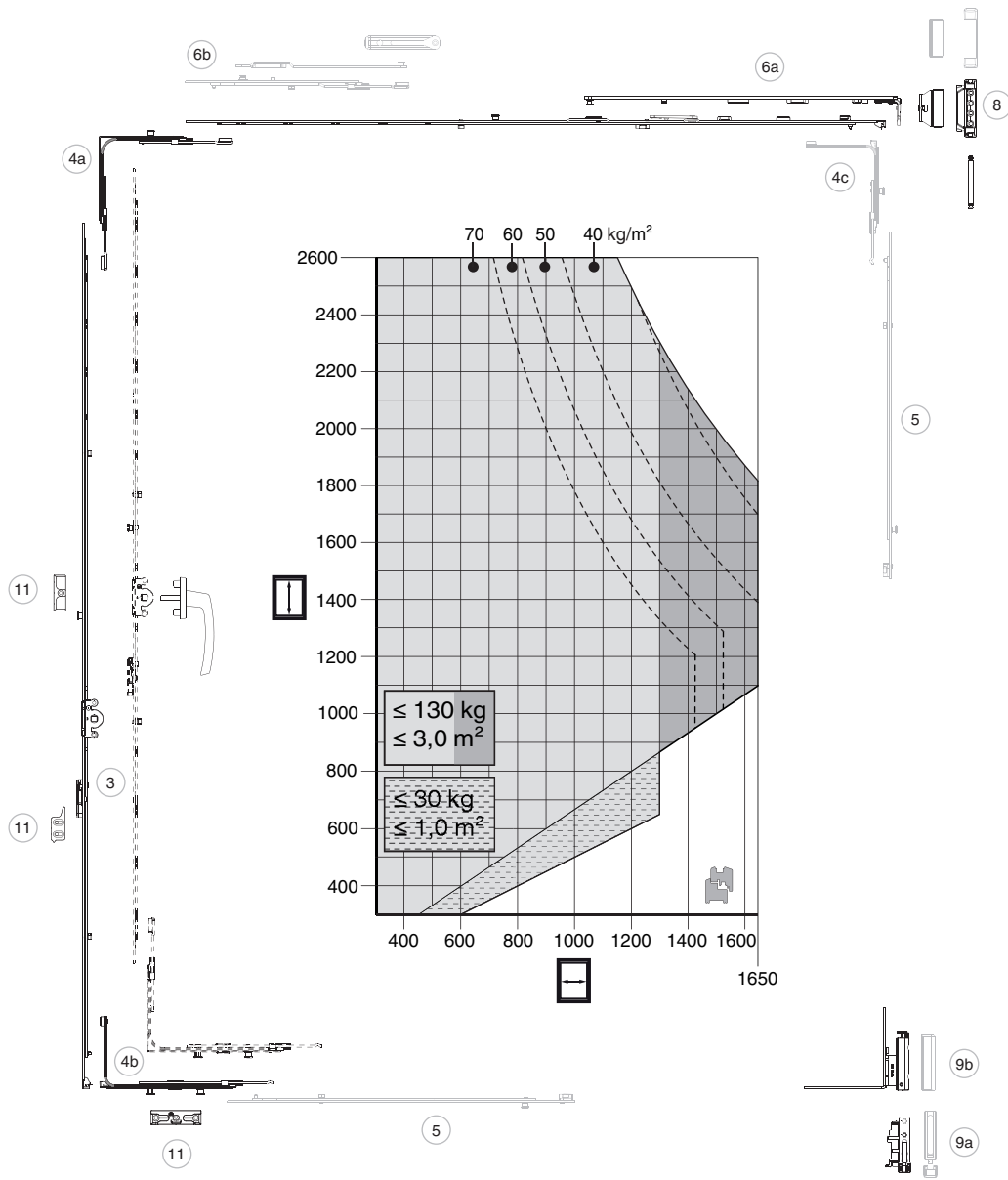
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 6b = Stabilizing scissor stay necessary from 1,301 mm (dark shading in application range diagram).

# Fundamental processing information

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6a	6.1.4 Scissor stay faceplates i.S.	→191
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8	8.5.1 Scissor stay hinges DT130	→222
9a	9.4.1 Pivot posts DT130	→237
9b	9.4.3.3 Rebated corner supports DTuni without rebate-leg screw fixing	→239
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## 2.4.1.1.2 1-sashed rectangular T&T window with pivot post DT130 and rebated corner support DT130 with rebate-leg screw fixing



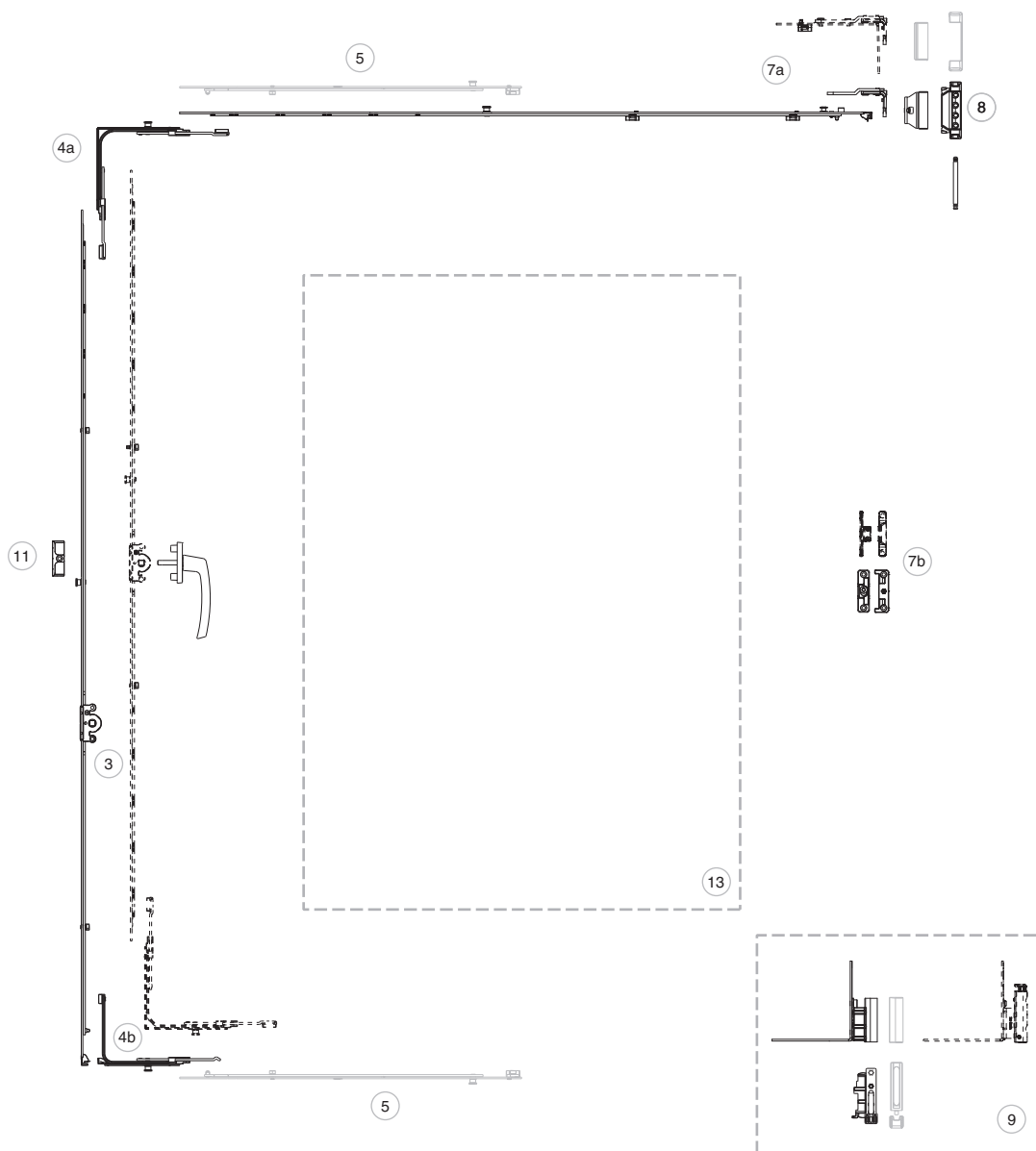
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 6b = Stabilizing scissor stay necessary from 1,301 mm (dark shading in application range diagram).
- 9 = The support screw has to be set from 100 kg sash weight!

# Fundamental processing information

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9a	9.4.1 Pivot posts DT130	→237
9b	9.4.3.1 Rebated corner supports DT130 with rebate-leg screw fixing	→238
11	11 Striker plates	→274



## 2.4.1.1.3 1-sashed rectangular turn-only window with pivot post DT130 and fixed or croppable turn-only hinge



≤ 1650 x 2600 mm



≥ 320 mm

≥ 220 mm



≥ 360 mm ( 15), ≥ 455 mm ( 6,5)



≥ 470 mm ( 15), ≥ 530 mm ( 6,5)

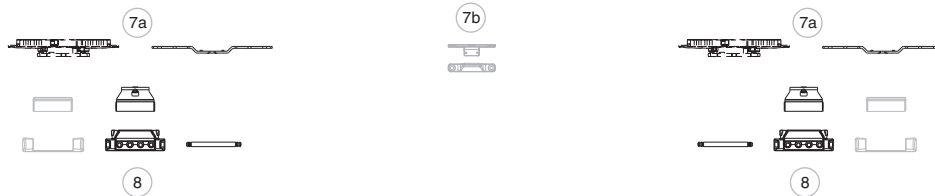
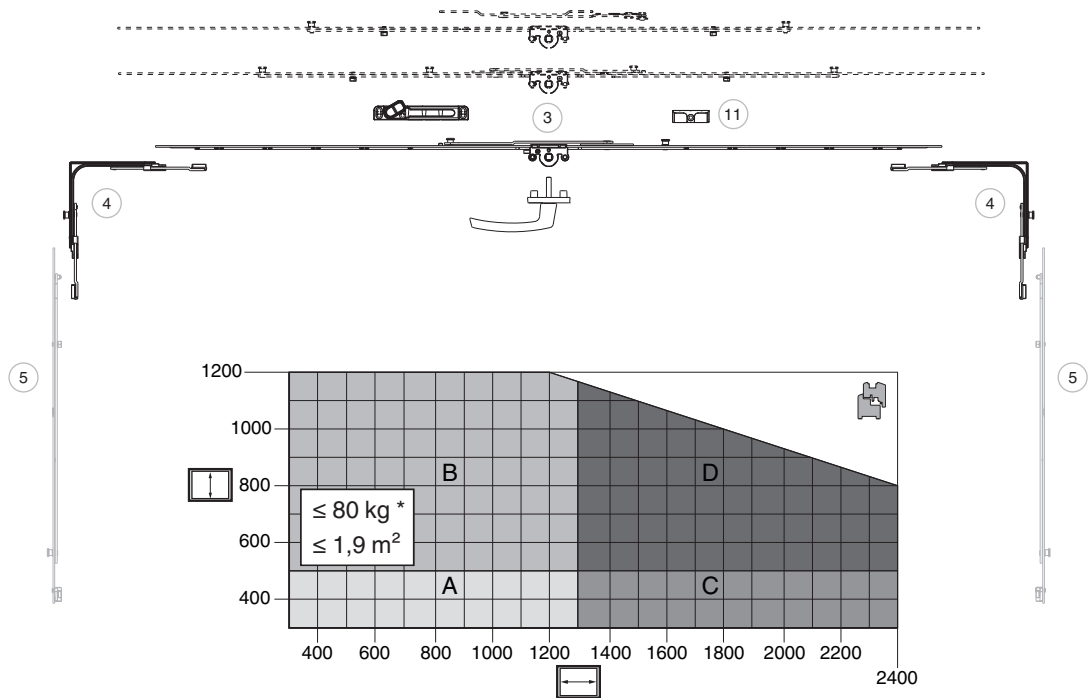
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7a = Turn-only hinge - sash part fixed or croppable.
- 7b = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!
- 9 = For possible pivot post combinations refer to matrix; the support screw has to be set from 100 kg sash weight!
- 13 = For application diagram refer to turn&tilt hardware overview according to corresponding pivot post combination.


# Fundamental processing information


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7a	7.1 Turn-only hinges - sash part AS/DTuni/PVC	→204
7b	7.7 Compression devices	→213
8	8.5.1 Scissor stay hinges DT130	→222
9	9.4.1 Pivot posts DT130	→237
11	11 Striker plates	→274





## 2.4.1.1.4 1-sashed rectangular tilt-only window with scissor stay hinge DT130 and tilt-only hinge DT



 ≤ 2400 x 1200 mm

 ≥ 210 mm

 ≥ 300 mm

 ≥ 650 mm

- A = 1 tilt stay + restrictor and cleaning stay size 1.
- B = 1 tilt stay + restrictor and cleaning stay size 2.
- C = 2 tilt stays + restrictor and cleaning stay size 1.
- D = 2 tilt stays + restrictor and cleaning stay size 2.
- \* = Mandatory installation of restrictor and cleaning stay (guideline FPKF at [www.schlossindustrie.de](http://www.schlossindustrie.de))! Observe application diagrams and max. load capacity for restrictor and cleaning stays!
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7b = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!

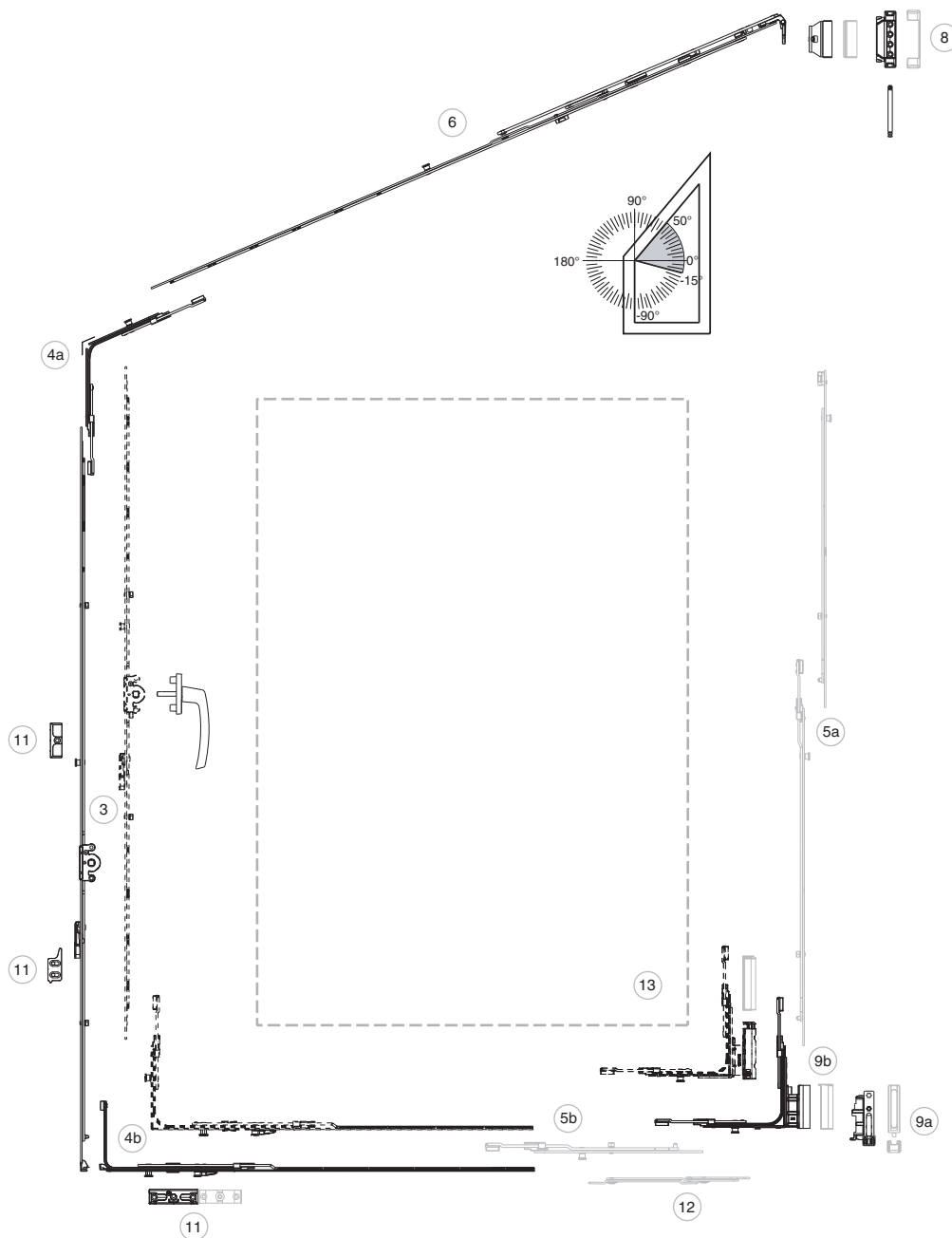



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7b	7.7	Compression devices	→213
8	8.5.1	Scissor stay hinges DT130	→222
11	11	Striker plates	→274







## 2.4.1.1.5 1-sashed angled T&T window with pivot post DT130 and rebated corner support DT with corner element






 ≤ 1650 x 2600 mm

 ≥ 465 mm

 ≥ 370 mm

 ≥ 360 mm (  15), ≥ 455 mm (  6,5)

 ≥ 470 mm (  15), ≥ 530 mm (  6,5)

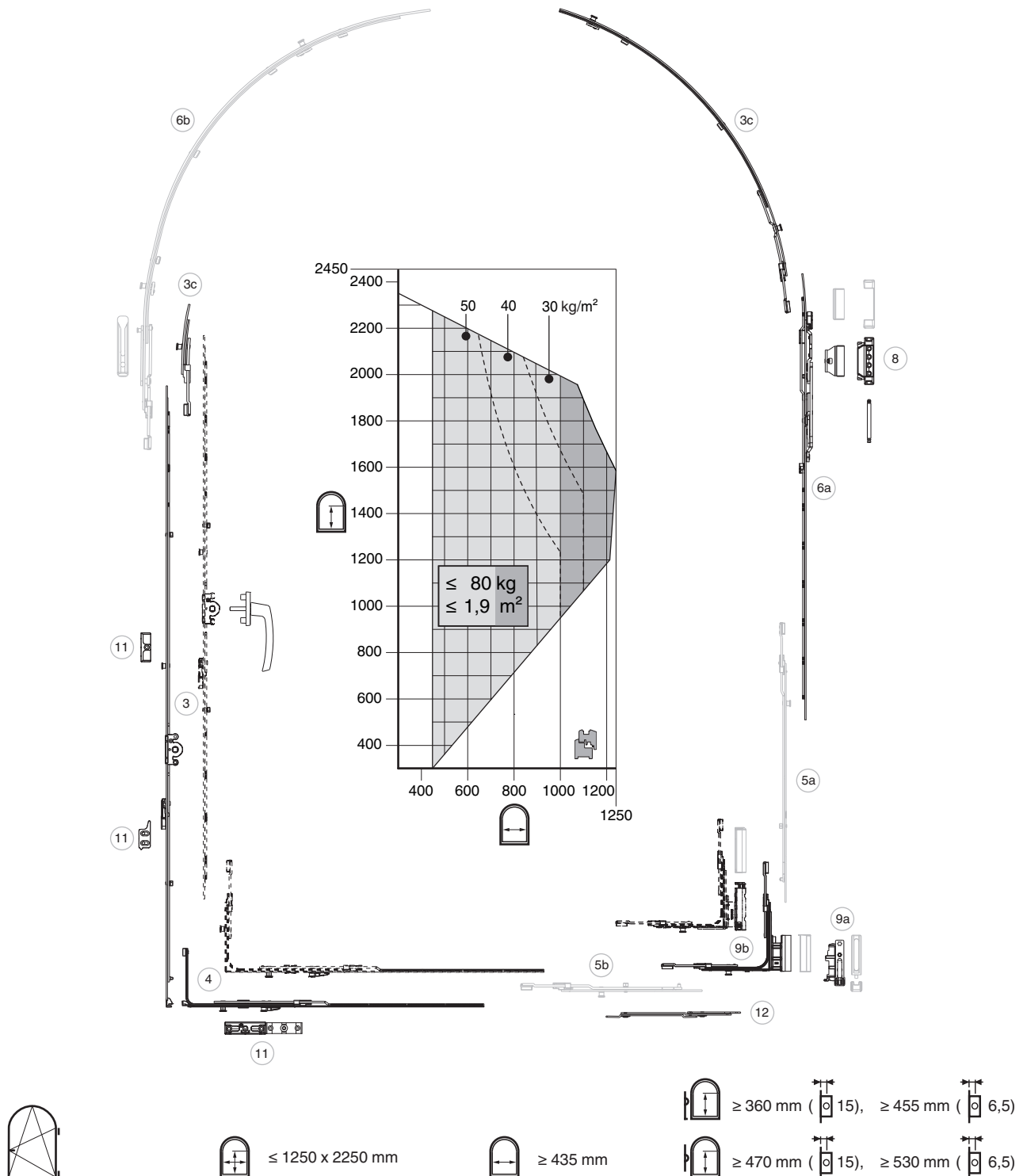
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5a = Above SRH 800 mm; Observe details from profile manufacturer!
- 5b = Required above SRW 670 mm.
- 13 = Refer to application diagrams for angled windows in chapter 2.5.

# Fundamental processing information

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9a	9.4.1 Pivot posts DT130	→237
9b	9.4.3.7 Rebated corner supports DTuni with rebate-leg screw fixing EH with corner element	→241
11	11 Striker plates	→274
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## 2.4.1.1.6 1-sashed half round T&T window with pivot post DT130 and rebated corner support DT130 with corner element



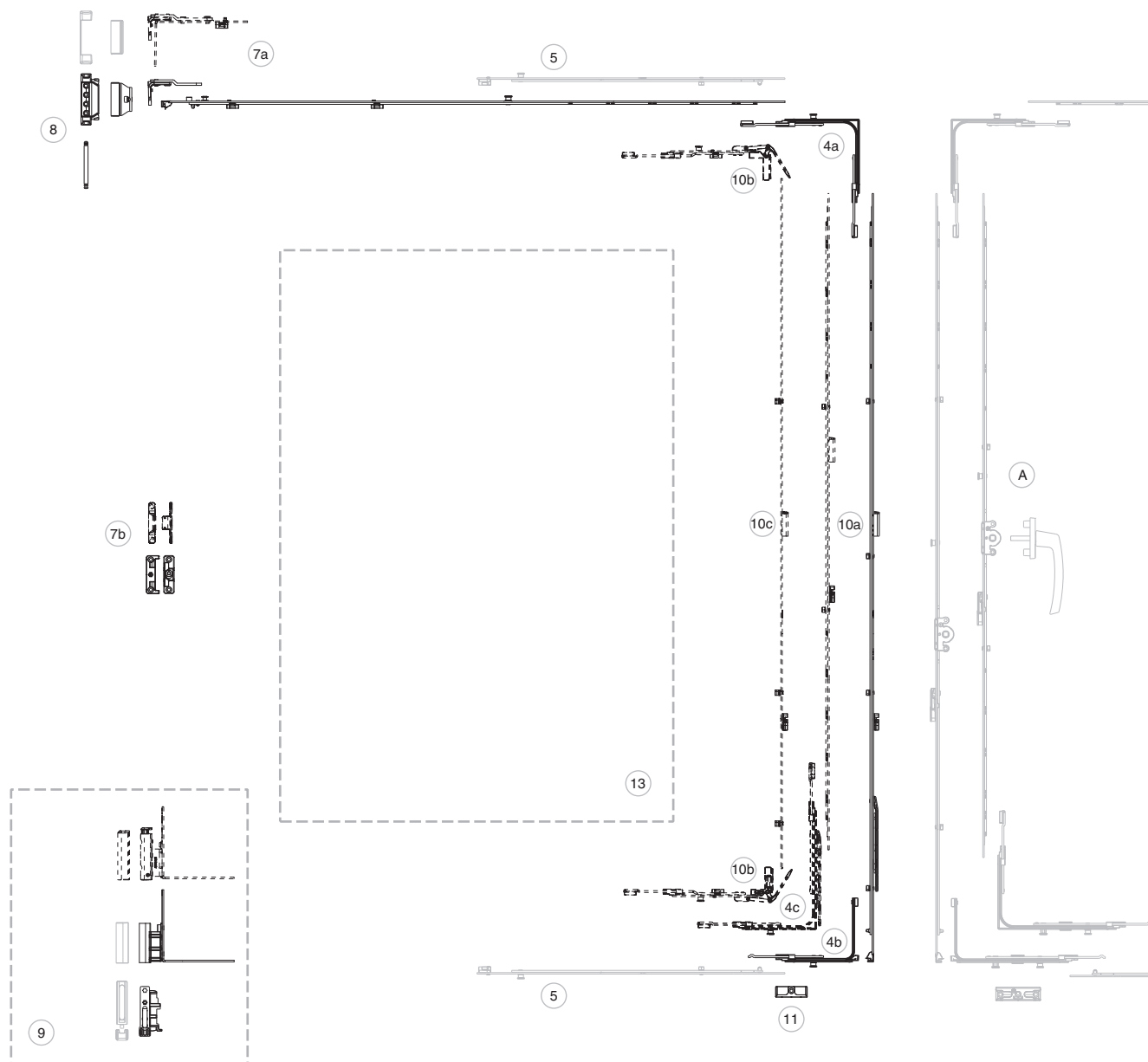
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 3c = Required above SRW 671 mm.
- 5a = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 5b = Required above SRW 670 mm.
- 6b = Stabilizing scissor stay necessary from 1,001 mm (dark shading in application range diagram).
- 9b = Rebated corner support with corner element with or without rebate-leg screw fixing.

# Fundamental processing information

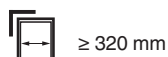
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5a	5.2 Centre locks extendable i.S.	→182
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6b	6.8.4 Stabilizing scissor stays for half round windows	→201
8	8.5.1 Scissor stay hinges DT130	→222
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9b	9.4.3.7 Rebated corner supports DTuni with rebate-leg screw fixing EH with corner element	→241
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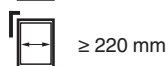
## 2.4.1.1.7 2-sashed rectangular T&T window with pivot post DT130 and rebated corner support DT130



≤ 1650 x 2600 mm



≥ 320 mm



≥ 220 mm



≥ 360 mm ( 15),



≥ 455 mm ( 6,5)



≥ 470 mm ( 15),



≥ 530 mm ( 6,5)

- A = For details refer to 1-sashed turn&tilt window.
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7b = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!
- 9 = For possible pivot post combinations refer to matrix; the support screw has to be set from 100 kg sash weight!
- 10a = French casement drive gear FHH or VHH.
- 13 = For application diagram refer to turn&tilt hardware overview according to corresponding pivot post combination.

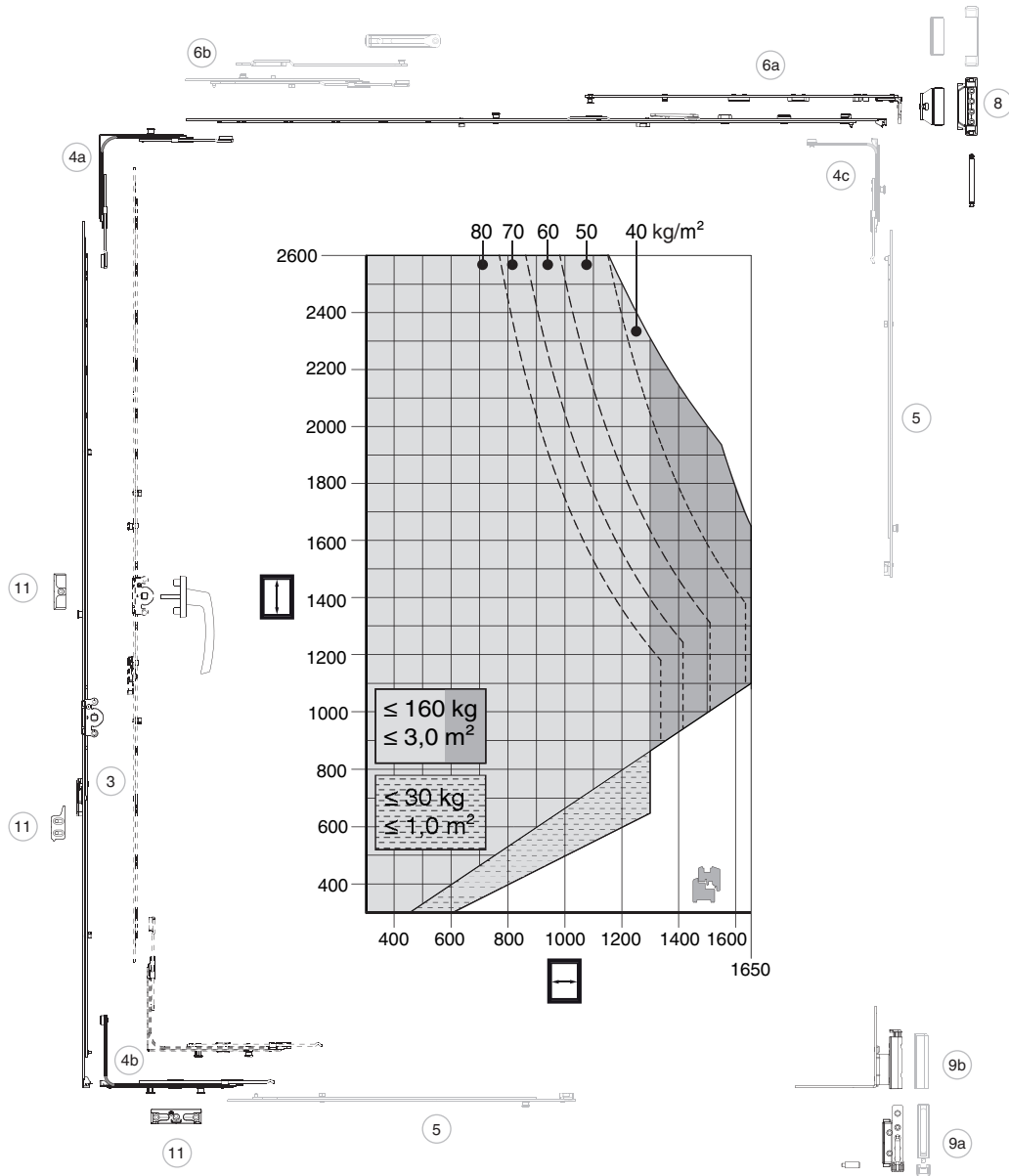
# Fundamental processing information

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5	5.1	Centre locks FHH i.S.	→182
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10b	10.2	French casement drive gears	→261
10c	10.3	Single piece door striker	→268
11	11	Striker plates	→274



## 2.4.1.2 DT160

### 2.4.1.2.1 1-sashed rectangular T&T window with pivot post DT160 and rebated corner support DT160 with rebate-leg screw fixing



$\leq 1650 \times 2600 \text{ mm}$



$\geq 320 \text{ mm}$



$\geq 220 \text{ mm}$



$\geq 360 \text{ mm}$  ( 15 )  
 $\geq 455 \text{ mm}$  ( 6,5 )



$\geq 470 \text{ mm}$  ( 15 )  
 $\geq 530 \text{ mm}$  ( 6,5 )



$\geq 270 \text{ mm}$  ( 15 )  
 $\geq 365 \text{ mm}$  ( 6,5 )



$\geq 400 \text{ mm}$  ( 15 )  
 $\geq 460 \text{ mm}$  ( 6,5 )

- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 6b = Stabilizing scissor stay necessary from 1,301 mm (dark shading in application range diagram).
- 9 = The support dowel or support screw has to be set from 100 kg sash weight!

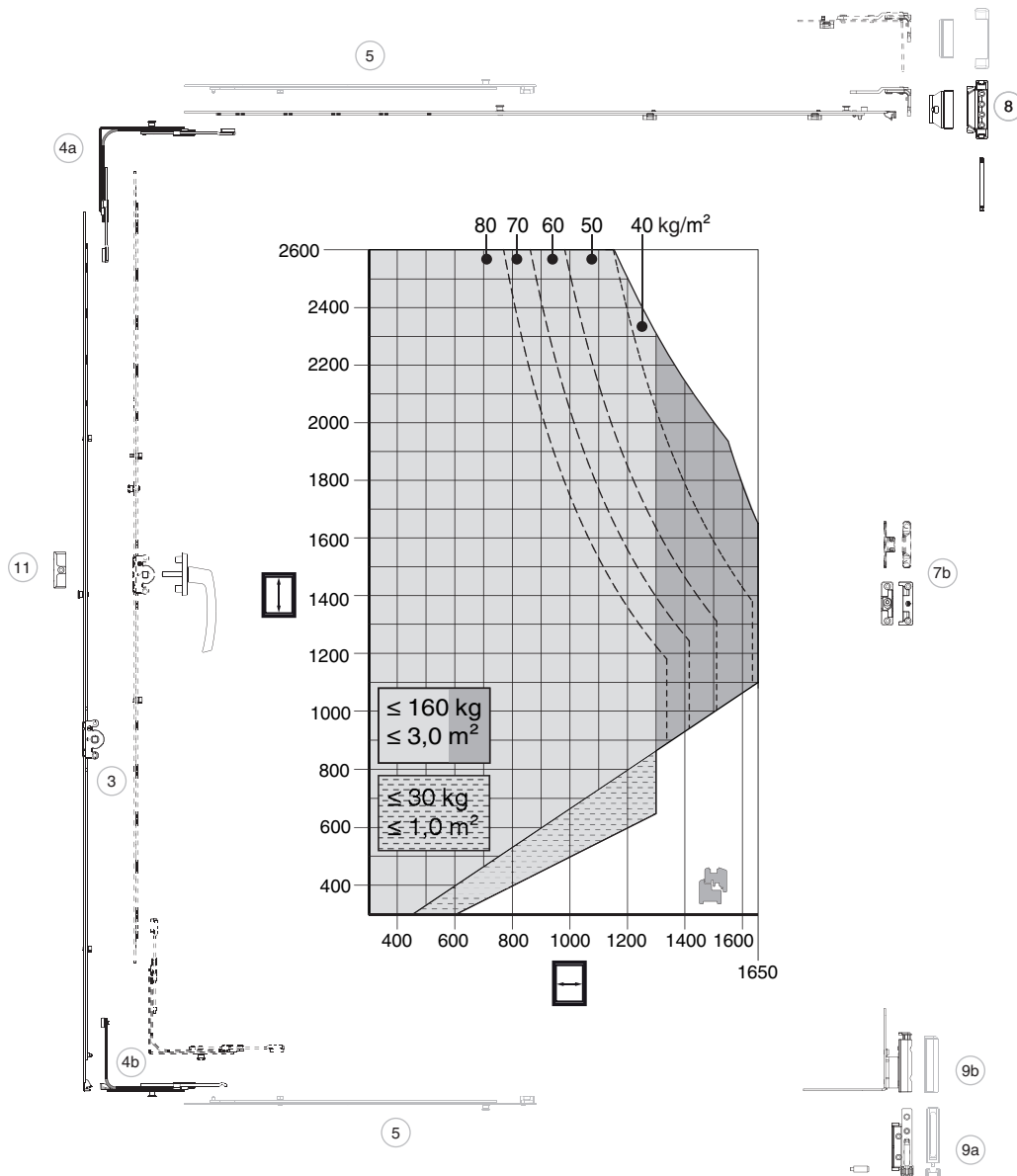


# Fundamental processing information

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3a	3.1.1.1 T&T drive gears BS 15 FHH i.S.	→144
3b	3.1.1.9 T&T drive gears BS 15 VHH i.S.	→146
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.2 Corner elements horizontal i.S.	→172
4c	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
6a	6.1.4 Scissor stay faceplates i.S.	→191
6b	6.8.1 Stabilizing scissor stays	→201
8	8.5.2 Scissor stay hinges DT160	→222
9a	9.4.2 Pivot posts DT160	→237
9b	9.4.3.2 Rebated corner supports DT160 with rebate-leg screw fixing	→239
11	11 Striker plates	→274



## 2.4.1.2.2 1-sashed rectangular turn-only window with pivot post DT160 and fixed or croppable turn-only hinge



≤ 1650 x 2600 mm



≥ 320 mm



≥ 220 mm



≥ 360 mm ( 15),



≥ 470 mm ( 15),



≥ 455 mm ( 6,5)



≥ 530 mm ( 6,5)

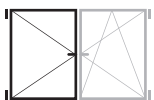
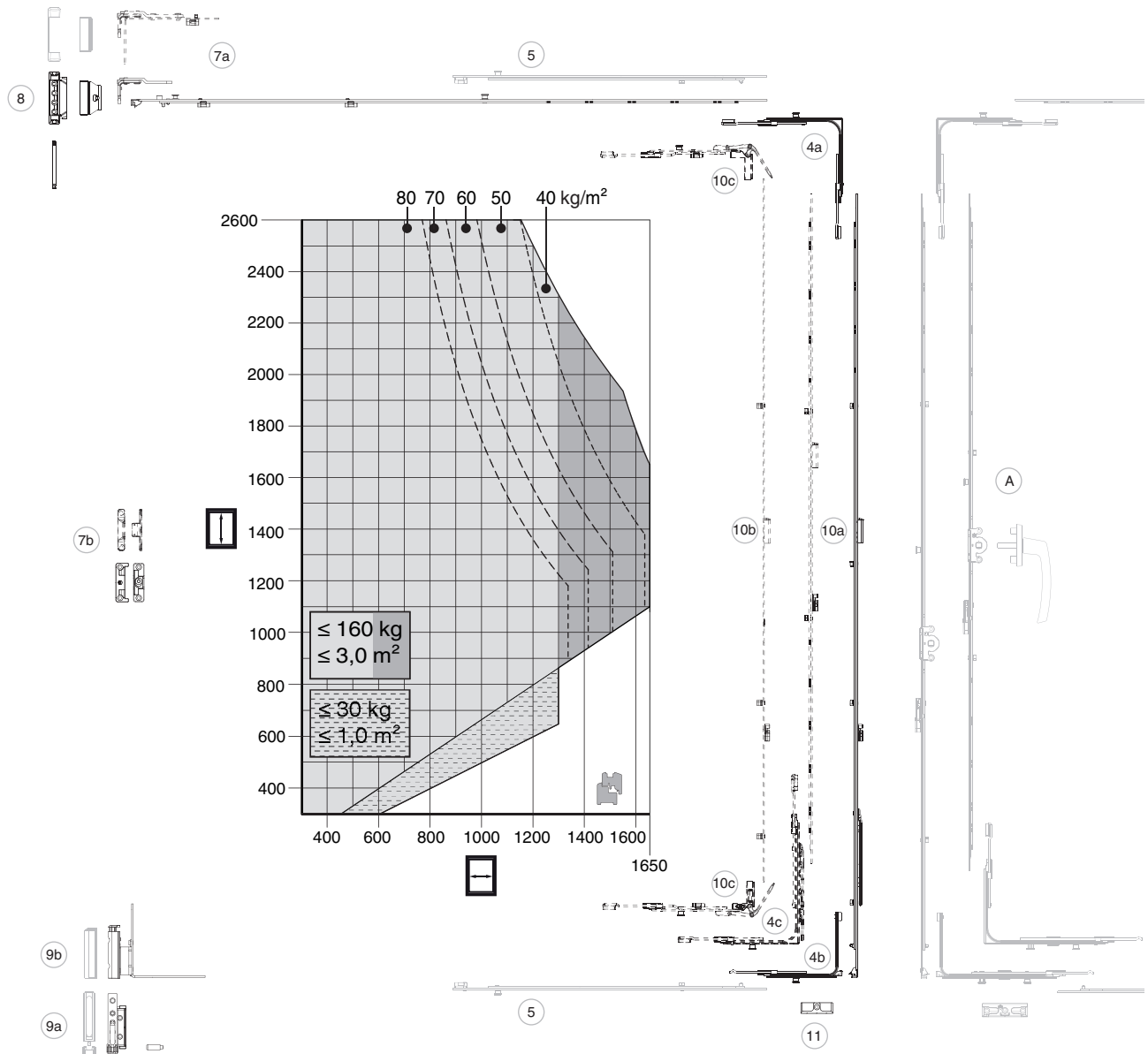
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7a = Turn-only hinge - sash part fixed or croppable.
- 7b = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!
- 9 = For possible pivot post combinations refer to matrix; the support dowel or support screw has to be set from 100 kg sash weight!


# Fundamental processing information

Selection guide		Page
3a	3.2.1.1 Turn-only drive gears BS 15 FHH i.S.	→155
3b	3.2.1.6 Turn-only drive gears BS 15 VHH i.S.	→156
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
7a	7.1 Turn-only hinges - sash part AS/DTuni/PVC	→204
7b	7.7 Compression devices	→213
8	8.5.2 Scissor stay hinges DT160	→222
9a	9.4.2 Pivot posts DT160	→237
9b	9.4.3.2 Rebated corner supports DT160 with rebate-leg screw fixing	→239
11	11 Striker plates	→274









## 2.4.1.2.3 2-sashed rectangular T&T window with pivot post DT160 and rebated corner support DT160



 ≤ 1650 x 2600 mm

 ≥ 320 mm  
 ≥ 220 mm

 ≥ 360 mm (  15), ≥ 455 mm (  6,5)  
 ≥ 470 mm (  15), ≥ 530 mm (  6,5)

- A = For details refer to 1-sashed turn&tilt window.
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7b = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!
- 9 = For possible pivot post combinations refer to matrix; the support dowel or support screw has to be set from 100 kg sash weight!
- 10a = French casement drive gear FHH or VHH.

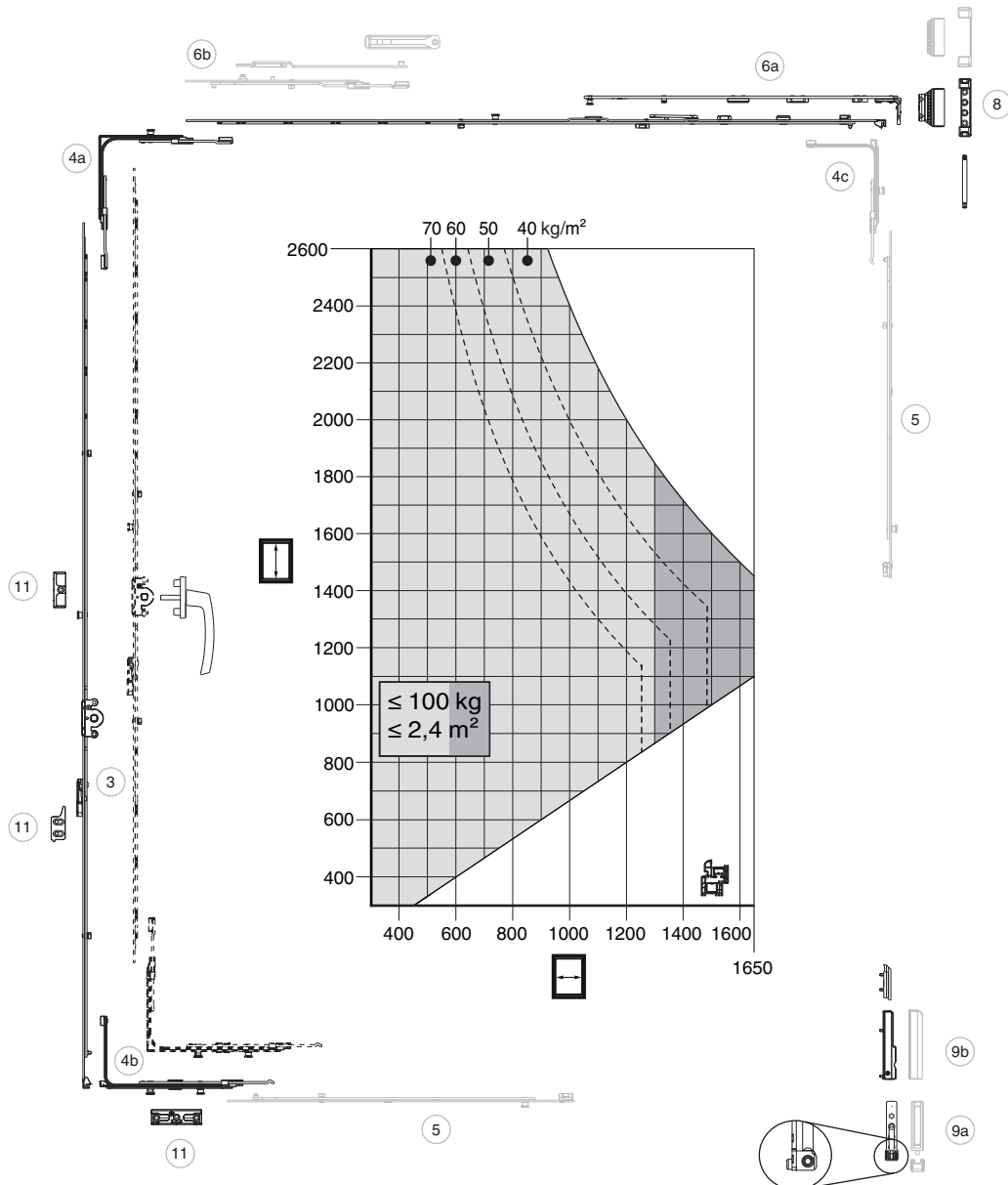
# Fundamental processing information

Selection guide		Page
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.3 Corner elements vertical i.S.	→173
4c	4.4 Corner elements i.S. for French casement drive gears	→175
5	5.1 Centre locks FHH i.S.	→182
7a	7.1 Turn-only hinges - sash part AS/DTuni/PVC	→204
7b	7.7 Compression devices	→213
8	8.5.2 Scissor stay hinges DT160	→222
9a	9.4.2 Pivot posts DT160	→237
9b	9.4.3.2 Rebated corner supports DT160 with rebate-leg screw fixing	→239
10a	10.1.5 Horizontal French casement locks	→259
10b	10.2 French casement drive gears	→261
10c	10.3 Single piece door striker	→268
11	11 Striker plates	→274



## 2.4.2 PVC (drive gear FHH/VHH)

### 2.4.2.1 1-sashed rectangular T&T window with pivot post PVC with positioning pin or short support pin + corner support PVC with positioning pin



≤ 1650 x 2600 mm

≥ 320 mm  
≥ 220 mm

≥ 360 mm ( 15 )  
≥ 455 mm ( 6,5 )  
≥ 470 mm ( 15 )  
≥ 530 mm ( 6,5 )

≥ 270 mm ( 15 )  
≥ 365 mm ( 6,5 )  
≥ 400 mm ( 15 )  
≥ 460 mm ( 6,5 )

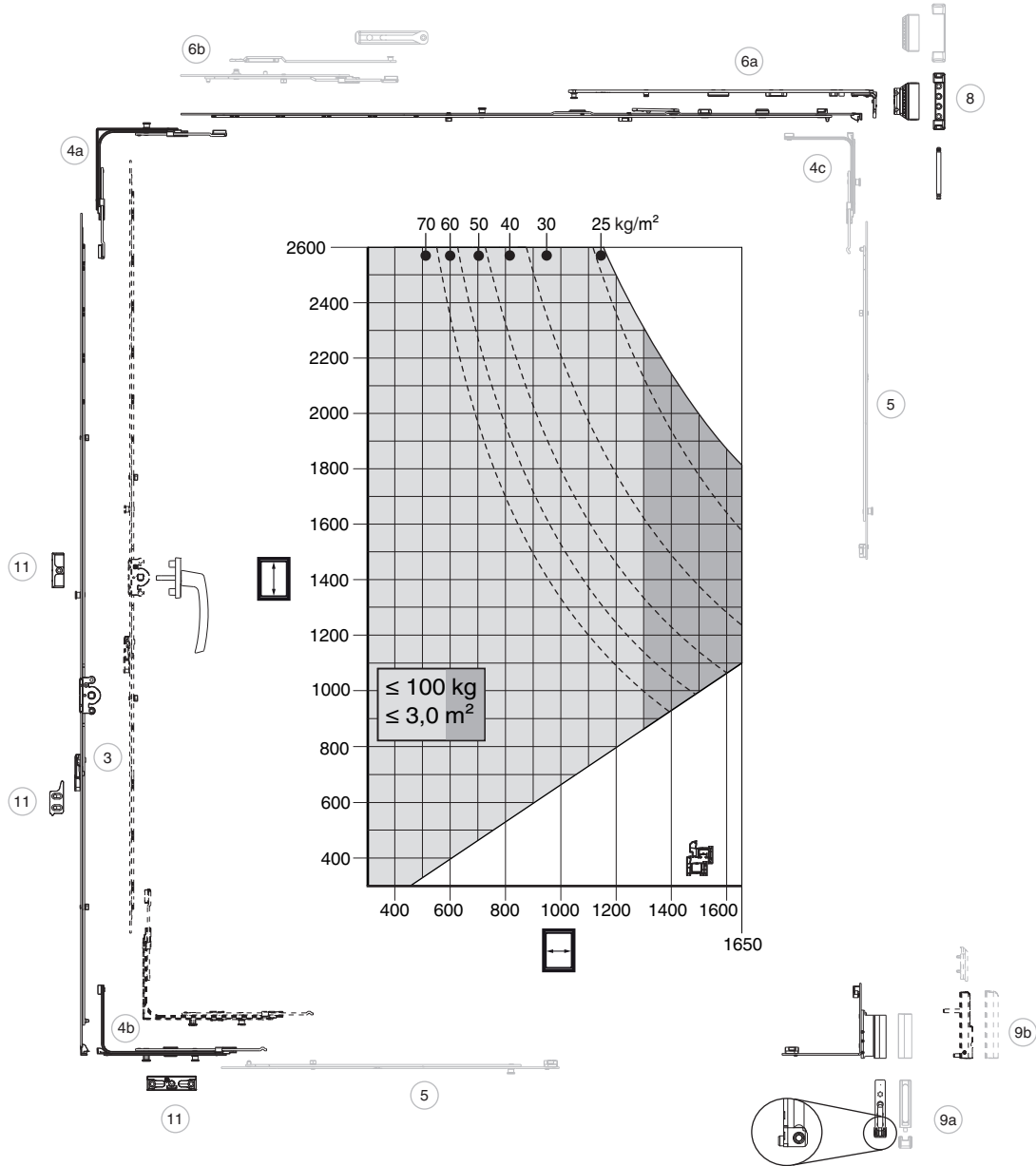
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 6b = Stabilizing scissor stay necessary from 1,301 mm (dark shading in application range diagram).
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

# Fundamental processing information

Selection guide		Page
3a	3.1.1.1 T&T drive gears BS 15 FHH i.S.	→144
3b	3.1.1.9 T&T drive gears BS 15 VHH i.S.	→146
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.2 Corner elements horizontal i.S.	→172
4c	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
6a	6.1.4 Scissor stay faceplates i.S.	→191
6b	6.8.1 Stabilizing scissor stays	→201
8	8.1 Scissor stay hinges PVC	→220
9a	9.2.1 Pivot posts PVC	→230
9b	9.2.2 Corner supports PVC	→230



**2.4.2.2 1-sashed rectangular T&T window  
with pivot post PVC with positioning pin or short support pin  
+ corner support PVC with support pin or rebated corner support AS/PVC without rebate-leg screw fixing**



- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 6b = Stabilizing scissor stay necessary from 1,301 mm (dark shading in application range diagram).
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

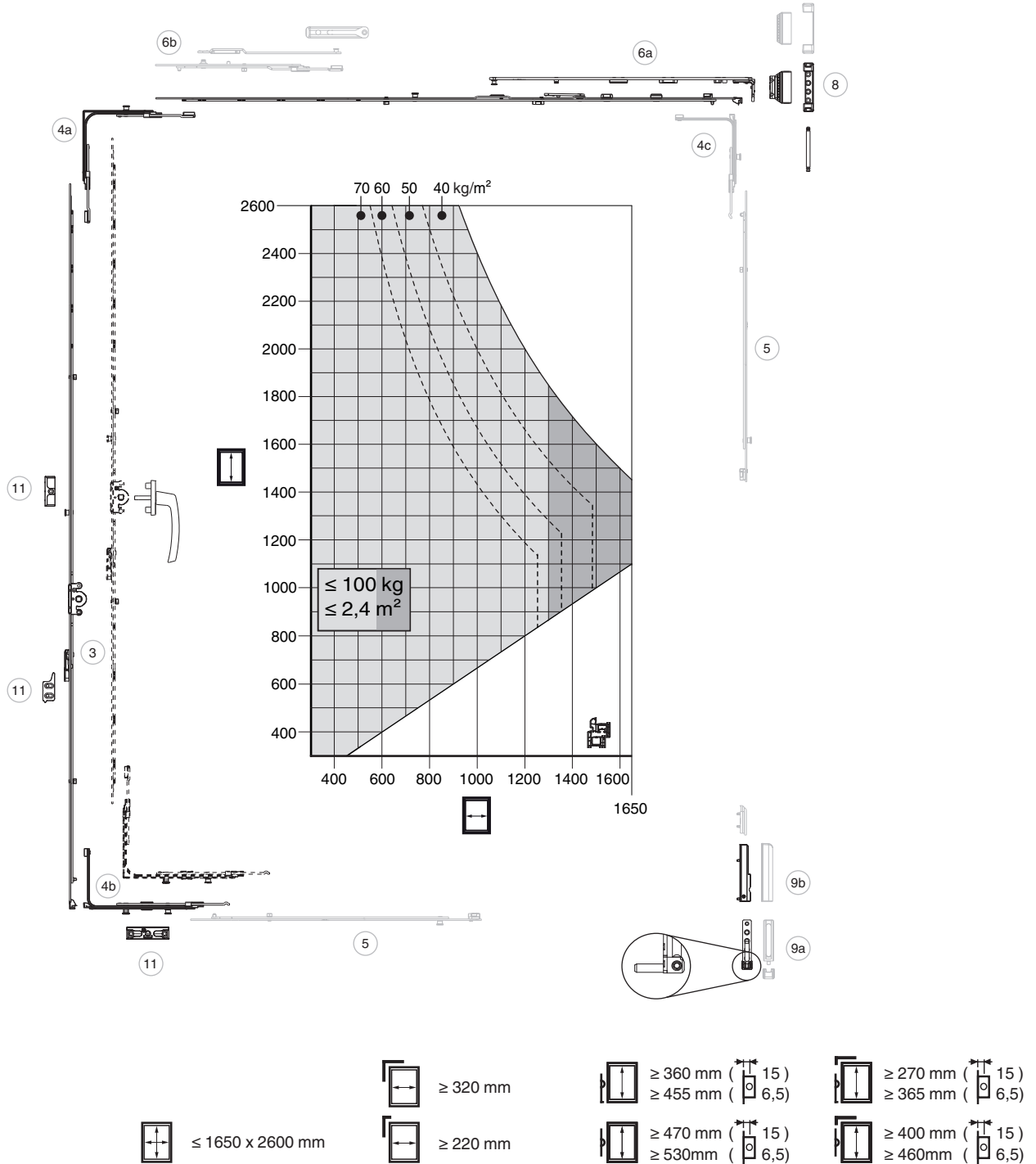


# Fundamental processing information

Selection guide		Page
3a	3.1.1.1 T&T drive gears BS 15 FHH i.S.	→144
3b	3.1.1.9 T&T drive gears BS 15 VHH i.S.	→146
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.2 Corner elements horizontal i.S.	→172
4c	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
6a	6.1.4 Scissor stay faceplates i.S.	→191
6b	6.8.1 Stabilizing scissor stays	→201
8	8.1 Scissor stay hinges PVC	→220
9a	9.2.1 Pivot posts PVC	→230
9b	9.2.2 Corner supports PVC	→230



## 2.4.2.3 1-sashed rectangular T&T window with pivot post PVC with long support pin + corner support PVC with positioning pin



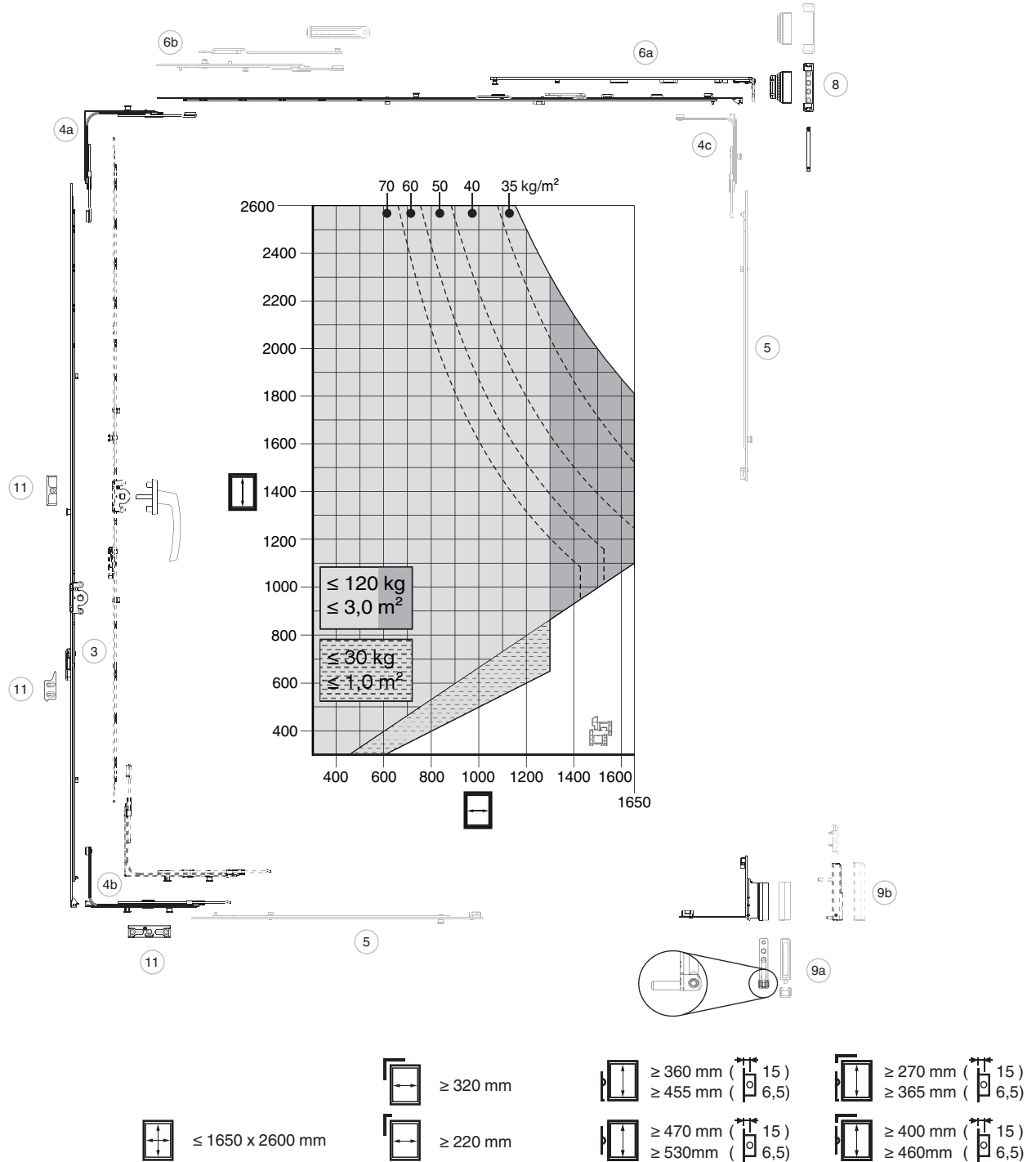
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Mandatory installation of third multi-sash centre frame hinge above SRH 800 mm (PVC) or 1,000 mm (timber)!
- 6b = Stabilizing scissor stay necessary from 1,301 mm (dark shading in application range diagram).
- 9 = Support pin must reach through at least two profile walls!
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

# Fundamental processing information

Selection guide		Page
3a	3.1.1.1 T&T drive gears BS 15 FHH i.S.	→144
3b	3.1.1.9 T&T drive gears BS 15 VHH i.S.	→146
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.2 Corner elements horizontal i.S.	→172
4c	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
6a	6.1.4 Scissor stay faceplates i.S.	→191
6b	6.8.1 Stabilizing scissor stays	→201
8	8.1 Scissor stay hinges PVC	→220
9a	9.2.1 Pivot posts PVC	→230
9b	9.2.2 Corner supports PVC	→230



## 2.4.2.4 1-sashed rectangular T&T window with pivot post PVC with long support pin + corner support PVC with support pin or rebated corner support AS/PVC without rebate-leg screw fixing



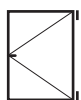
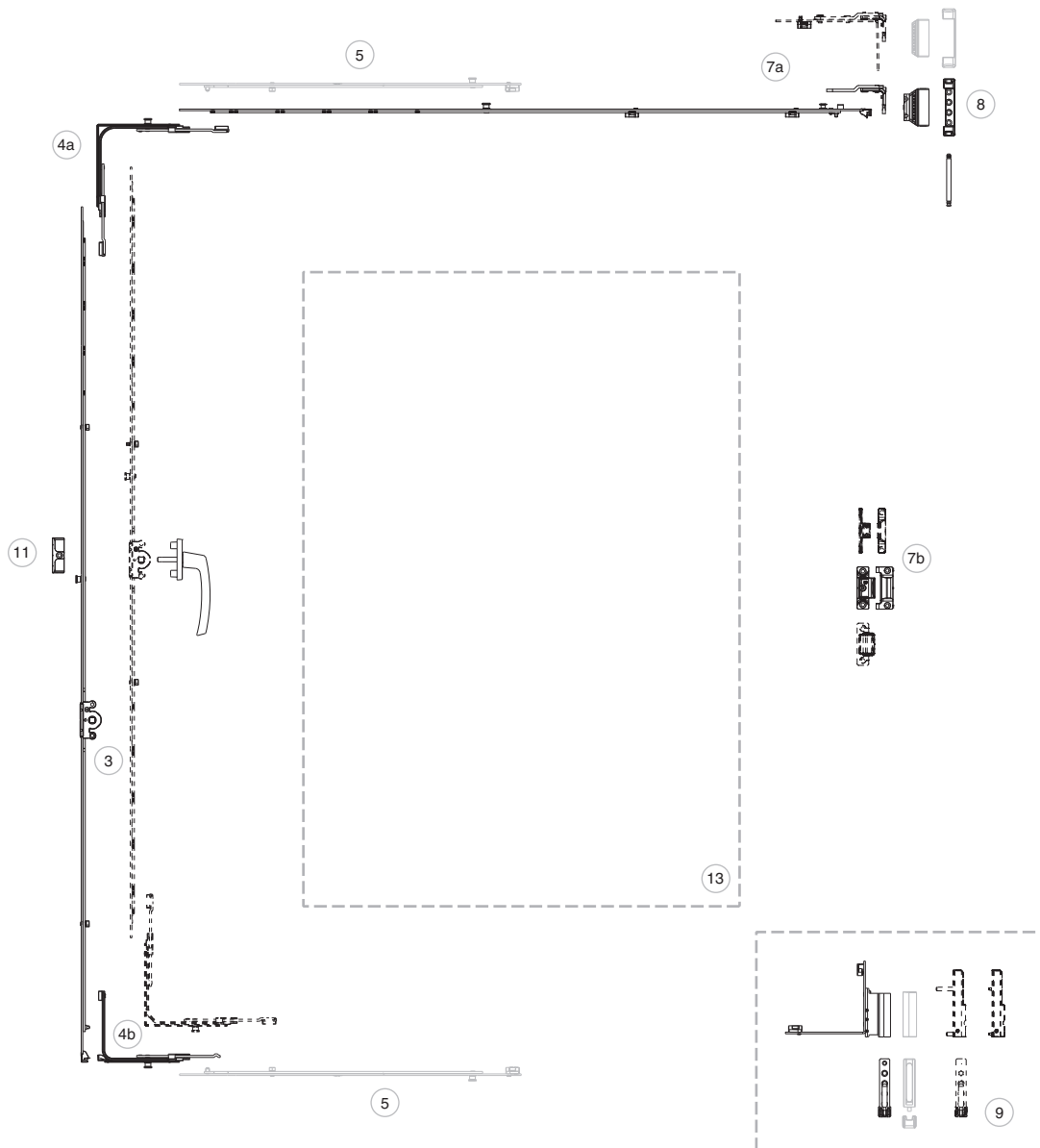
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 6b = Stabilizing scissor stay necessary from 1,301 mm (dark shading in application range diagram).
- 9 = Support pin must reach through at least two profile walls! Observe restrictions for 26 mm rebate depth!
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

# Fundamental processing information

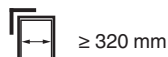
Selection guide		Page
3a	3.1.1.1 T&T drive gears BS 15 FHH i.S.	→144
3b	3.1.1.9 T&T drive gears BS 15 VHH i.S.	→146
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.2 Corner elements horizontal i.S.	→172
4c	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
6a	6.1.4 Scissor stay faceplates i.S.	→191
6b	6.8.1 Stabilizing scissor stays	→201
8	8.1 Scissor stay hinges PVC	→220
9a	9.2.1 Pivot posts PVC	→230
9b	9.2.2 Corner supports PVC	→230



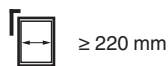
## 2.4.2.5 1-sashed rectangular turn-only window with pivot post PVC



≤ 1650 x 2600 mm



≥ 320 mm



≥ 220 mm



≥ 360 mm ( 15), ≥ 455 mm ( 6,5)



≥ 470 mm ( 15), ≥ 530 mm ( 6,5)

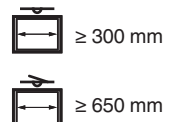
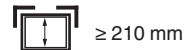
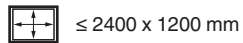
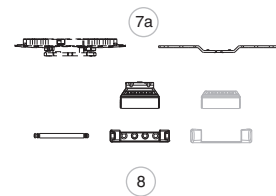
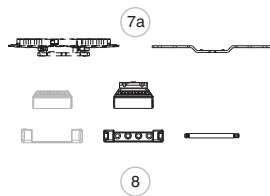
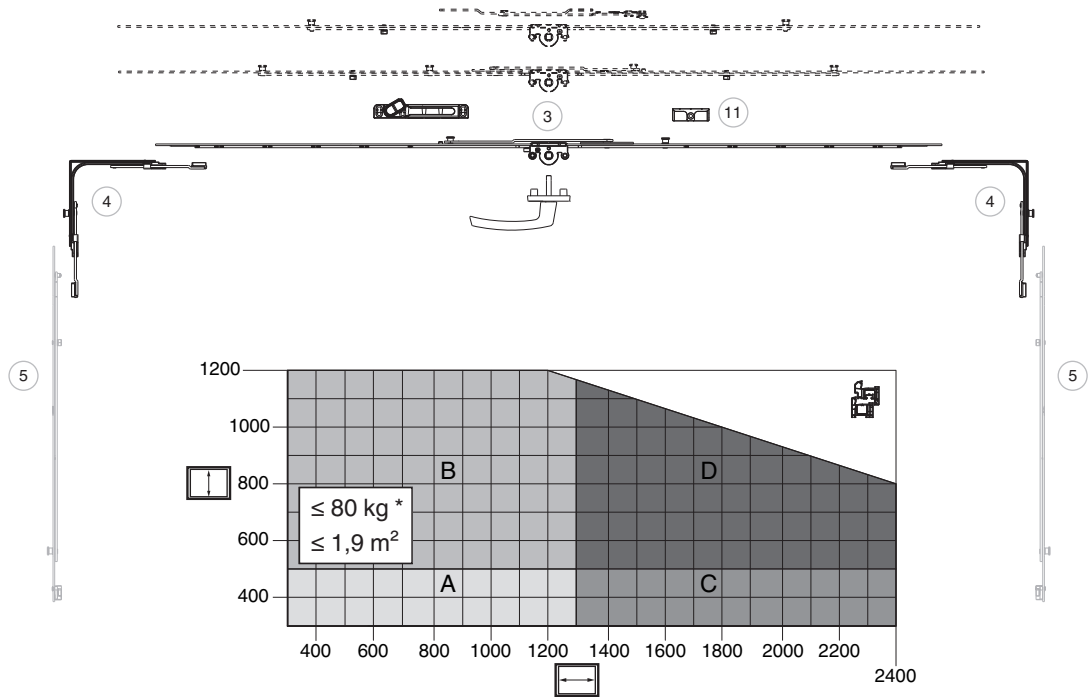
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7a = Turn-only hinge - sash part fixed or croppable.
- 7b = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!
- 9 = For possible pivot post combinations refer to matrix.
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.
- 13 = For application diagram refer to turn&tilt hardware overview according to corresponding pivot post combination.

# Fundamental processing information

Selection guide		Page
3a	3.2.1.1 Turn-only drive gears BS 15 FHH i.S.	→155
3b	3.2.1.6 Turn-only drive gears BS 15 VHH i.S.	→156
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
7a	7.1 Turn-only hinges - sash part AS/DTuni/PVC	→204
7b	7.7 Compression devices	→213
8	8.1 Scissor stay hinges PVC	→220
9	9.2 Pivot posts PVC	→230



## 2.4.2.6 1-sashed rectangular tilt-only window with scissor stay hinge PVC and tilt-only hinge AS/PVC



- A = 1 tilt stay + restrictor and cleaning stay size 1.
- B = 1 tilt stay + restrictor and cleaning stay size 2.
- C = 2 tilt stays + restrictor and cleaning stay size 1.
- D = 2 tilt stays + restrictor and cleaning stay size 2.
- \* = Mandatory installation of restrictor and cleaning stay (guideline FPKF at [www.schlossindustrie.de](http://www.schlossindustrie.de))! Observe application diagrams and max. load capacity for restrictor and cleaning stays!
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7b = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

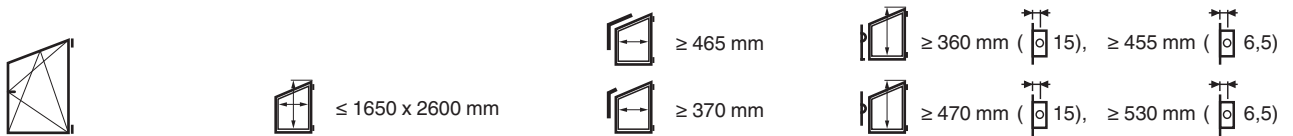
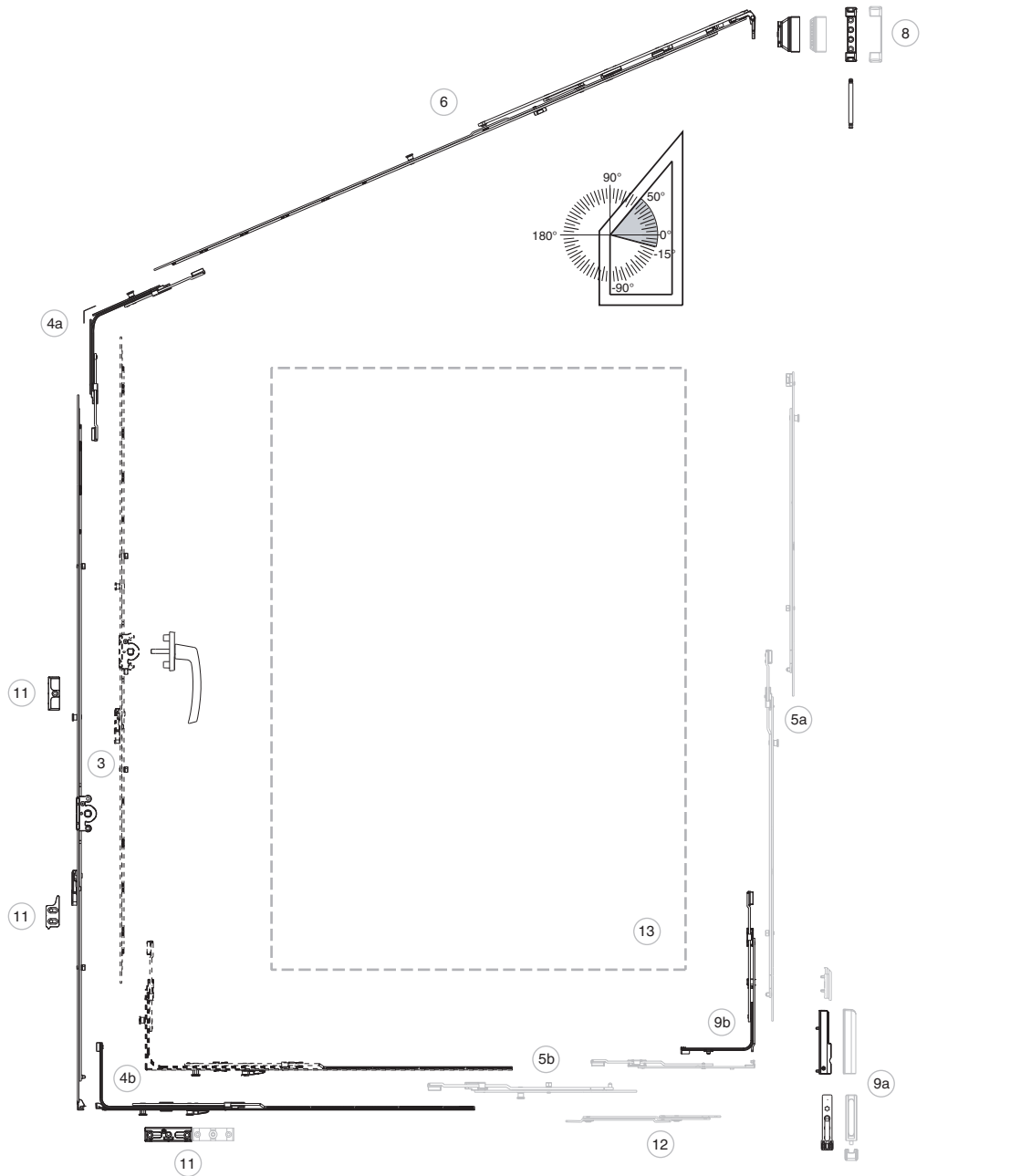


# Fundamental processing information

Selection guide			Page
3	3.4	Espagnolettes	→162
4	4.1.1	Corner elements standard i.S.	→172
5	5.1	Centre locks FHH i.S.	→182
7a	7.2	Turn and tilt hinges - sash part AS/DTuni/PVC	→206
7b	7.7.1	Surface-mounted compression devices	→213
8	8.1	Scissor stay hinges PVC	→220



## 2.4.2.7 1-sashed angled T&T window with pivot post PVC with positioning pin and corner support PVC with positioning pin



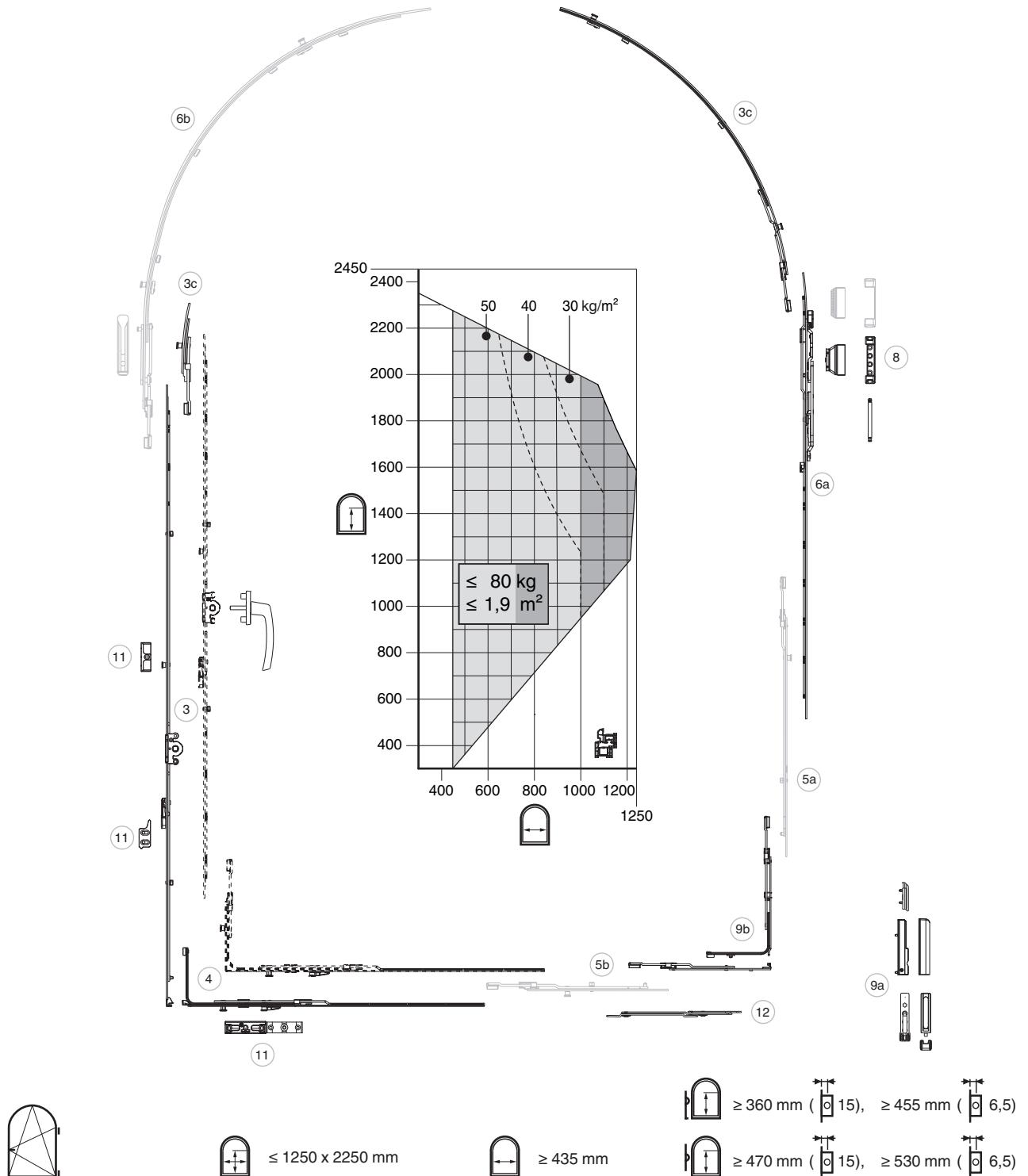
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5a = Above SRH 800 mm; Observe details from profile manufacturer!
- 5b = Required above SRW 670 mm.
- 9b = Rebated corner support with corner element with or without rebate-leg screw fixing.
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.
- 13 = Refer to application diagrams for angled windows in chapter 2.5.

# Fundamental processing information

Selection guide		Page
3a	3.1.1.1 T&T drive gears BS 15 FHH i.S.	→144
3b	3.1.1.9 T&T drive gears BS 15 VHH i.S.	→146
4a	4.5 Corner elements i.S. for angled windows	→175
4b	4.6 Corner elements i.S. for half round windows	→176
5a	5.1 Centre locks FHH i.S.	→182
5b	5.11 Faceplate extensions fixed and extendable	→185
6	6.1.11 Rebated scissor stays i.S. for angled windows	→193
8	8.1 Scissor stay hinges PVC	→220
9a	9.2.1 Pivot posts PVC	→230
9b	9.2.5 Corner element two-part	→232
12	12.12 Turn restrictions	→299



## 2.4.2.8 1-sashed half round T&T window with pivot post PVC with positioning pin and corner support PVC with positioning pin



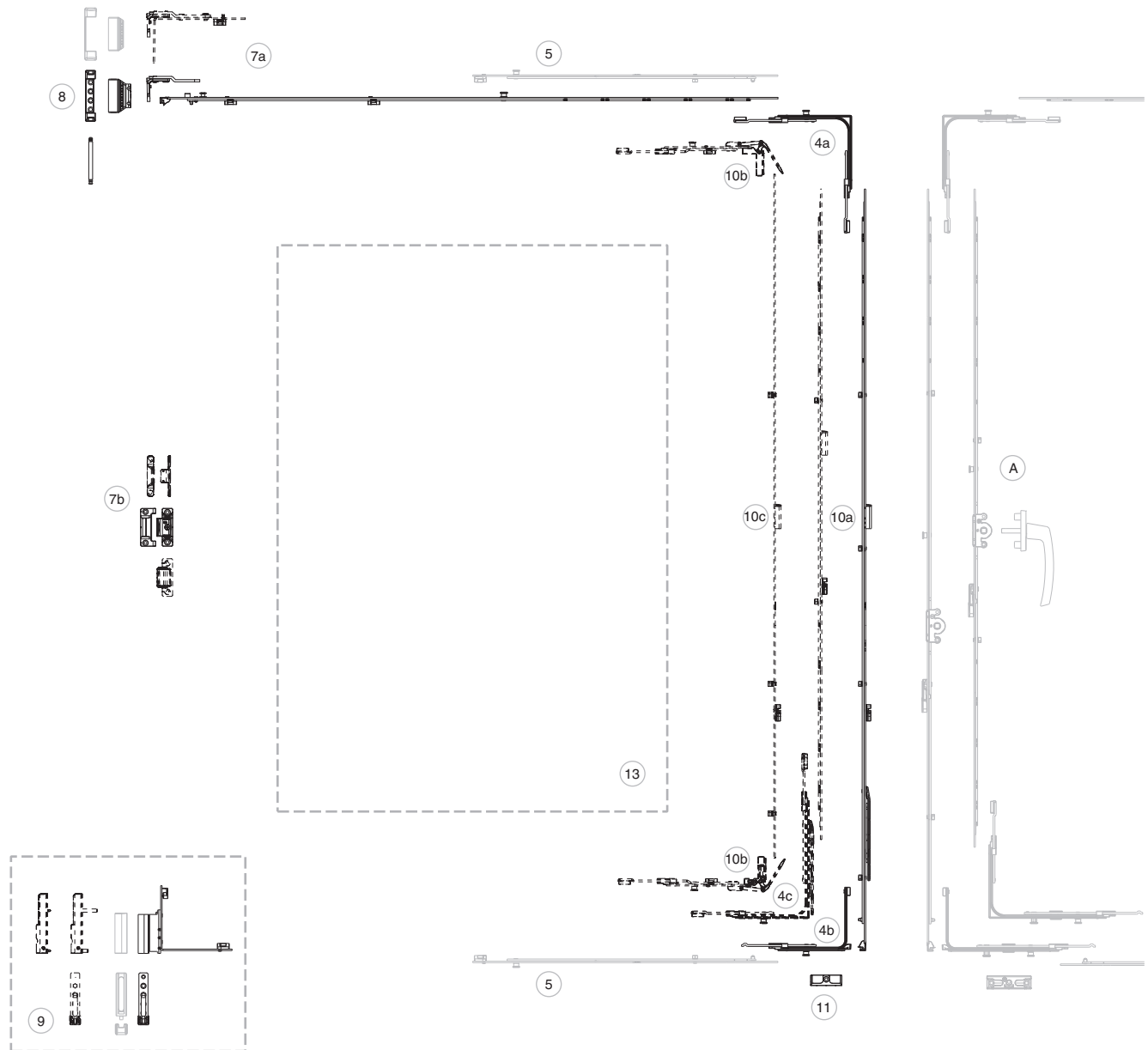
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 3c = Required above SRW 671 mm.
- 5a = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 5b = Required above SRW 670 mm.
- 6b = Stabilizing scissor stay necessary from 1,001 mm (dark shading in application range diagram).
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

# Fundamental processing information

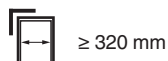
Selection guide		Page
3a	3.1.1.1 T&T drive gears BS 15 FHH i.S.	→144
3b	3.1.1.9 T&T drive gears BS 15 VHH i.S.	→146
3c	3.5.3 End piece top for half round windows	→167
4	4.6 Corner elements i.S. for half round windows	→176
5a	5.2 Centre locks extendable i.S.	→182
5b	5.11 Faceplate extensions fixed and extendable	→185
6a	6.1.12 Rebated scissor stays i.S. for half round windows	→194
6b	6.8.4 Stabilizing scissor stays for half round windows	→201
8	8.1 Scissor stay hinges PVC	→220
9a	9.2.1 Pivot posts PVC	→230
9b	9.2.5 Corner element two-part	→232
12	12.12 Turn restrictions	→299



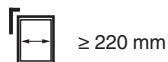
## 2.4.2.9 2-sashed rectangular T&T window with pivot post PVC and corner support PVC or rebated corner support PVC



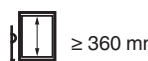
≤ 1650 x 2600 mm



≥ 320 mm



≥ 220 mm



≥ 360 mm

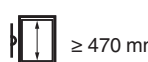


( 15),

≥ 455 mm



( 6,5)



≥ 470 mm



( 15),

≥ 530 mm



( 6,5)

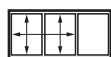
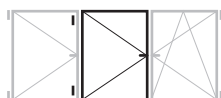
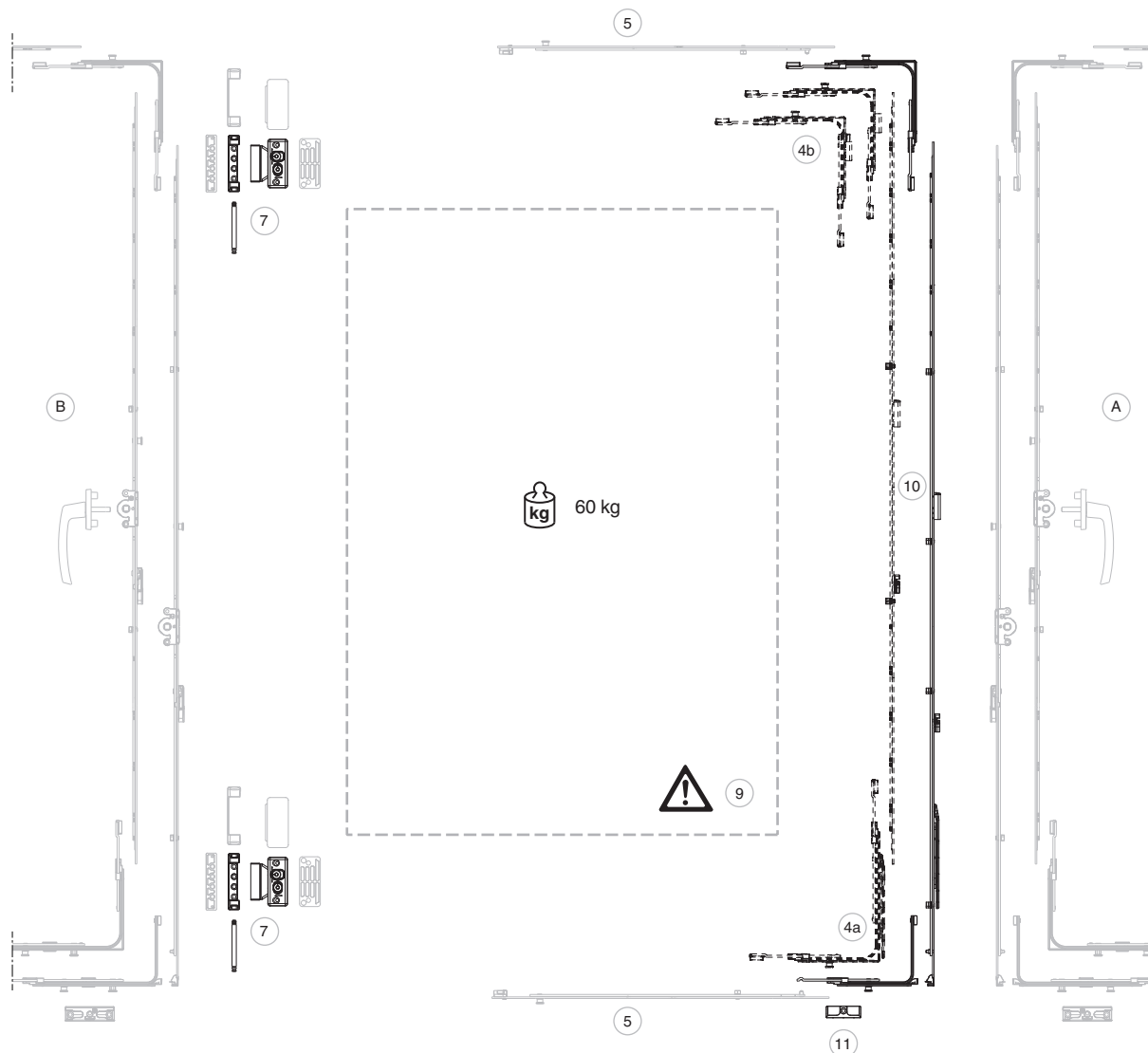
- A = For details refer to 1-sashed turn&tilt window.
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7b = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!
- 9 = For possible pivot post combinations refer to matrix.
- 10a = French casement drive gear FHH or VHH.
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.
- 13 = For application diagram refer to turn&tilt hardware overview according to corresponding pivot post combination.

# Fundamental processing information

<b>Selection guide</b>		<b>Page</b>
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.3 Corner elements vertical i.S.	→173
4c	4.4 Corner elements i.S. for French casement drive gears	→175
5	5.1 Centre locks FHH i.S.	→182
7a	7.1 Turn-only hinges - sash part AS/DTuni/PVC	→204
7b	7.7 Compression devices	→213
8	8.1 Scissor stay hinges PVC	→220
9	9.2 Pivot posts PVC	→230
10a	10.1.5 Horizontal French casement locks	→259
10b	10.2 French casement drive gears	→261
10c	10.3 Single piece door striker	→268



## 2.4.2.10 3-sashed rectangular turn-only window with multi-sash centre frame hinge



≤ 1650 x 2600 mm \*



≥ 465 mm

- A = For details refer to 1-sashed turn&tilt window.
- B = For details refer to 1-sashed turn-only window.
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7 = Mandatory installation of third multi-sash centre frame hinge above SRH 800 mm (PVC) or 1,000 mm (timber)!
- 9 = Maximum sash weight of the middle sash is 60 kg! The total weight of the two combined sashes must not exceed the maximum weight of the used hinge side!
- 10 = French casement drive gear FHH or VHH.
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

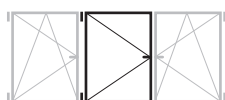
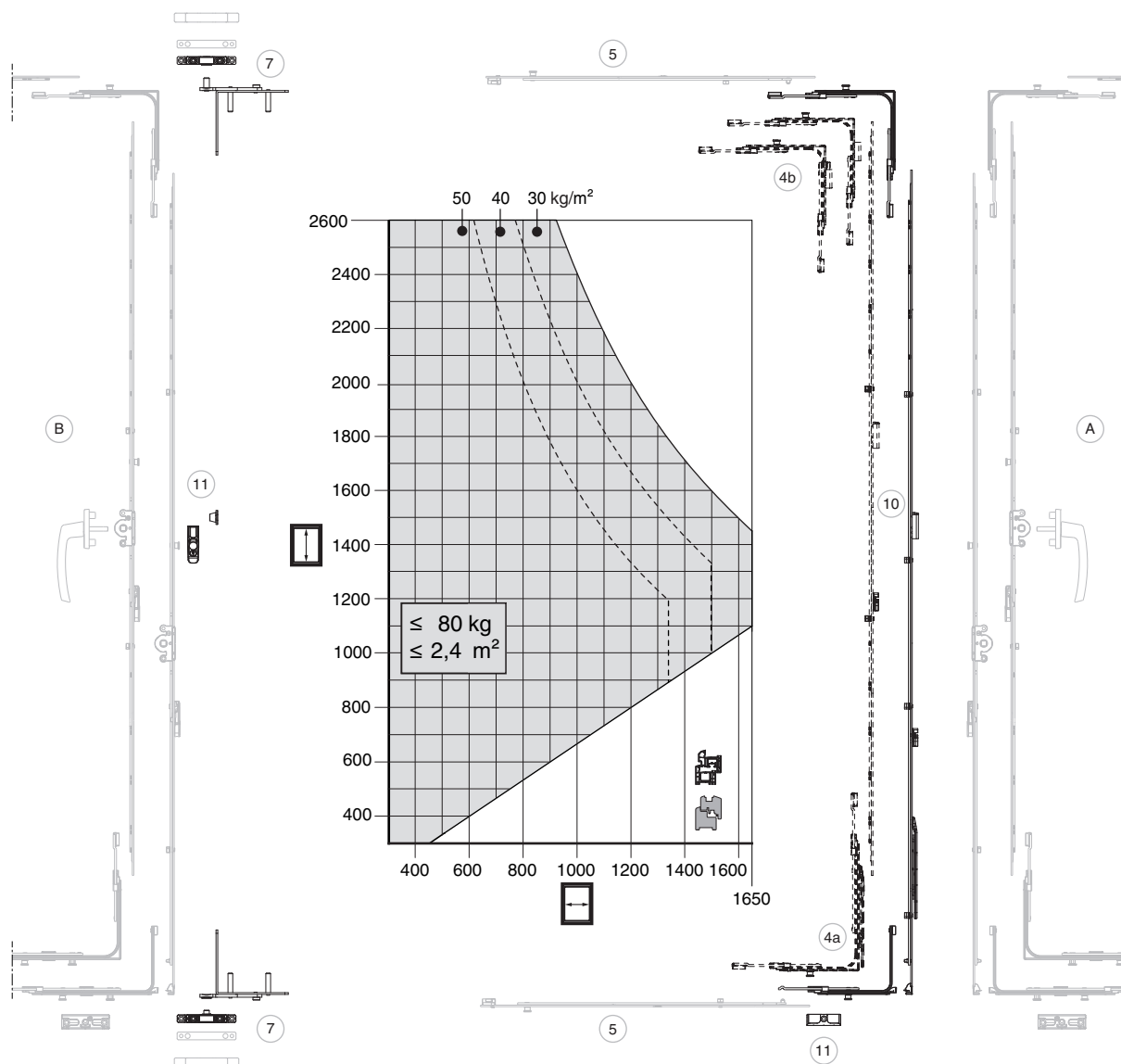



# Fundamental processing information


Selection guide			Page
4a	4.1.3	Corner elements vertical i.S.	→173
4b	4.4	Corner elements i.S. for French casement drive gears	→175
5	5.1	Centre locks FHH i.S.	→182
7	7.6	Multi-sash centre frame hinges	→211
10	10.2	French casement drive gears	→261



## 2.4.2.11 3-sashed rectangular turn-only window with 3-sashed turn-only hinge (frame part)



  $\leq 1650 \times 2600 \text{ mm}$

  $\geq 465 \text{ mm}$

- A = For details refer to 1-sashed turn-only or turn&tilt window.
- B = For details refer to 1-sashed turn-only or turn&tilt window.
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 10 = French casement drive gear FHH or VHH.
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

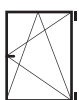
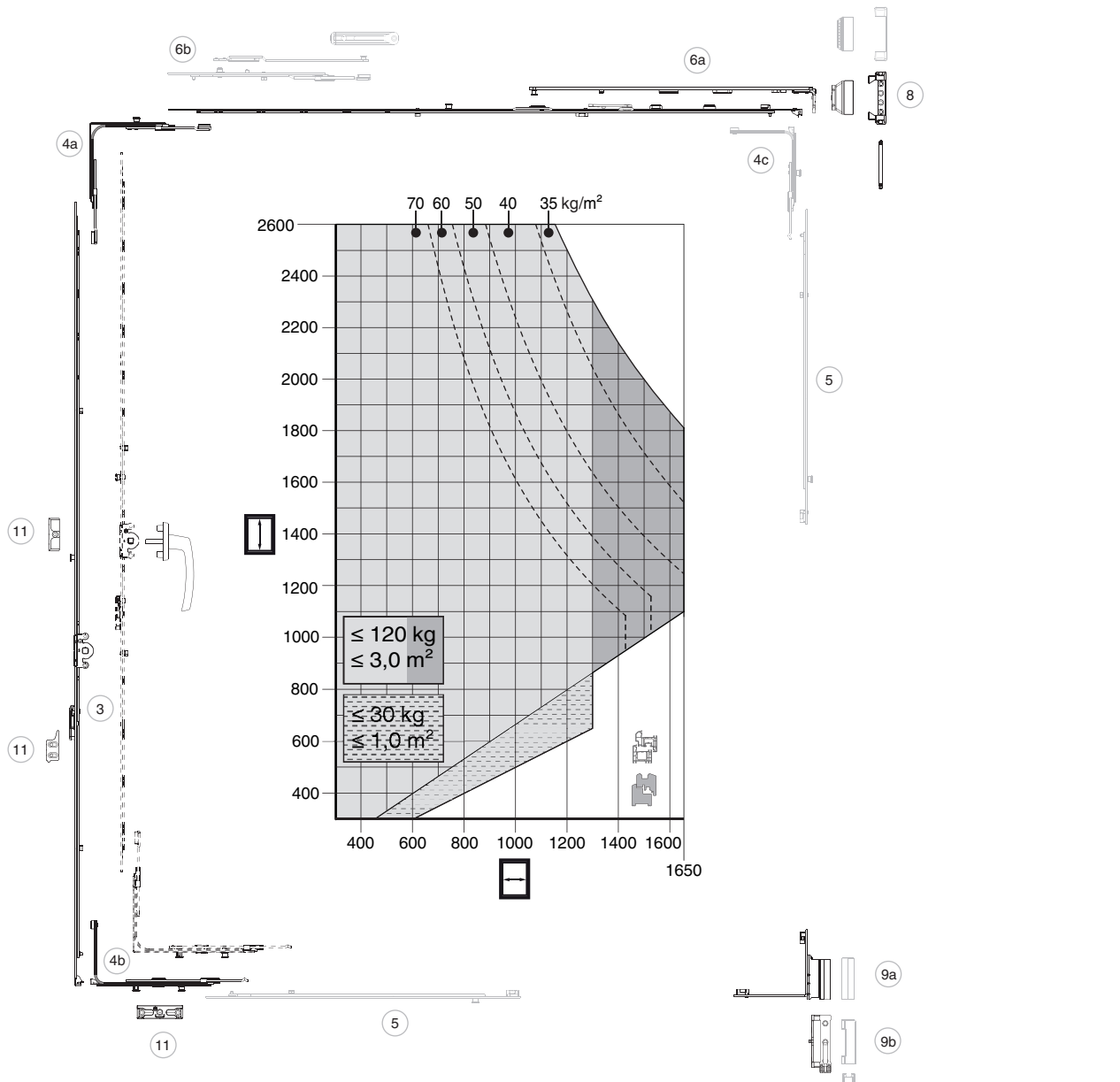
# Fundamental processing information

Selection guide			Page
4a	4.1.3	Corner elements vertical i.S.	→173
4b	4.4	Corner elements i.S. for French casement drive gears	→175
5	5.1	Centre locks FHH i.S.	→182
7	7.5	Turn-only hinges - frame part for 3-sashed windows	→210
10	10.2	French casement drive gears	→261
11	11	Striker plates	→274

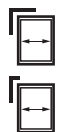


## 2.4.3 AS (drive gear FHH/VHH)

### 2.4.3.1 1-sashed rectangular T&T window with pivot post AS (for rebated corner support AS/PVC) + rebated corner support AS/PVC without rebate-leg screw fixing



≤ 1650 x 2600 mm



≥ 320 mm



≥ 220 mm



≥ 360 mm (15)  
≥ 455 mm (6,5)



≥ 470 mm (15)  
≥ 530mm (6,5)



≥ 270 mm (15)  
≥ 365 mm (6,5)



≥ 400 mm (15)  
≥ 460mm (6,5)

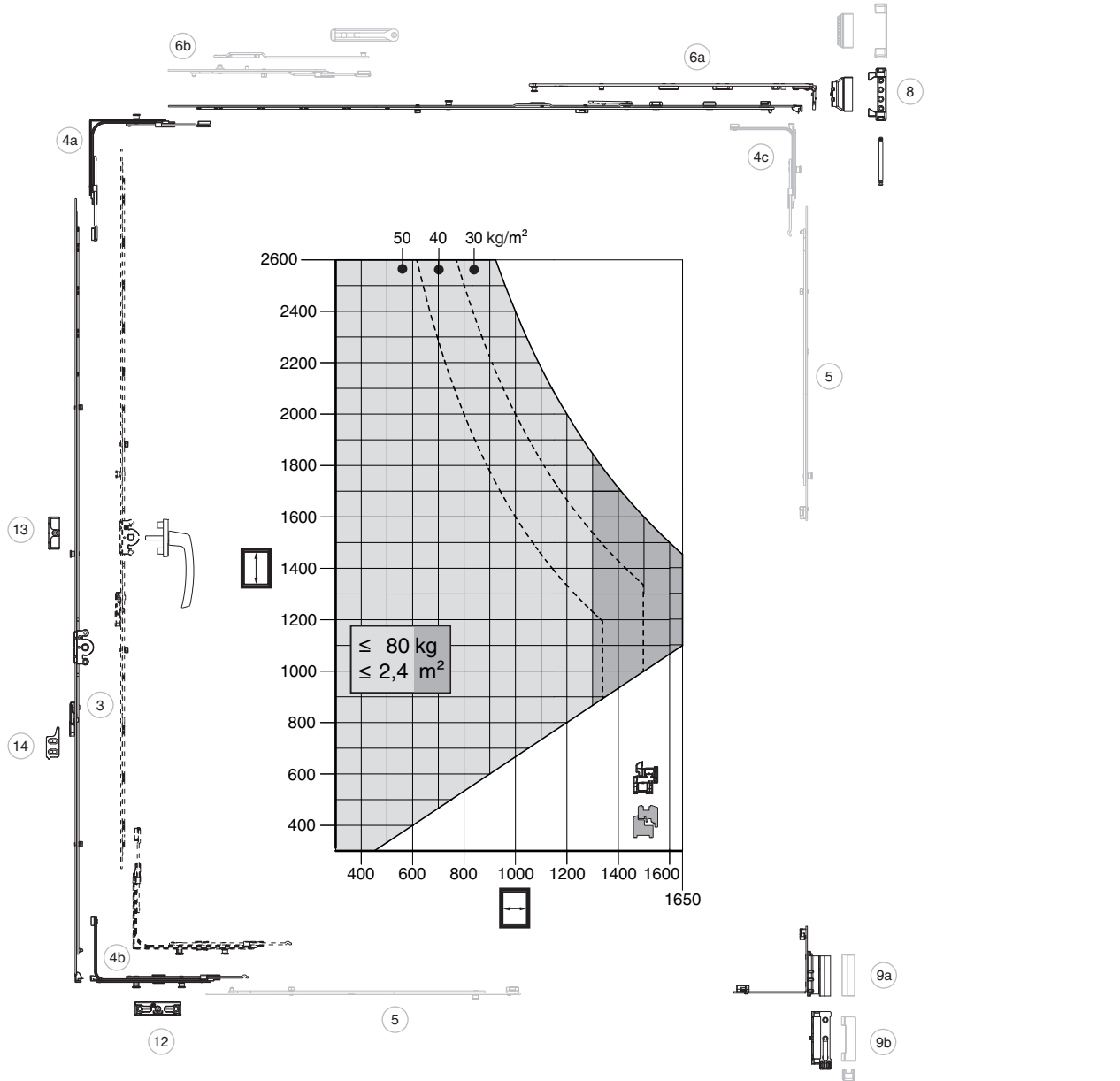
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 6b = Stabilizing scissor stay necessary from 1,301 mm (dark shading in application range diagram).
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

# Fundamental processing information

Selection guide		Page
3a	3.1.1.1 T&T drive gears BS 15 FHH i.S.	→144
3b	3.1.1.9 T&T drive gears BS 15 VHH i.S.	→146
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.2 Corner elements horizontal i.S.	→172
4c	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
6a	6.1.4 Scissor stay faceplates i.S.	→191
6b	6.8.1 Stabilizing scissor stays	→201
8	8.2 Surface-mounted scissor stay hinges	→220
9a	9.2.3 Rebated corner supports AS/PVC without rebate-leg screw fixing	→231
9b	9.3.1.1 Surface-mounted pivot posts for rebated corner supports AS/PVC without rebate-leg screw fixing	→234
11	11 Striker plates	→274



## 2.4.3.2 1-sashed rectangular T&T window with pivot post AS (for rebated corner support AS/PVC) + rebated corner support AS/PVC without rebate-leg screw fixing / 26 mm offset



≤ 1650 x 2600 mm



≥ 320 mm



≥ 220 mm



≥ 360 mm (15)  
≥ 455 mm (6,5)



≥ 470 mm (15)  
≥ 530 mm (6,5)



≥ 270 mm (15)  
≥ 365 mm (6,5)



≥ 400 mm (15)  
≥ 460 mm (6,5)

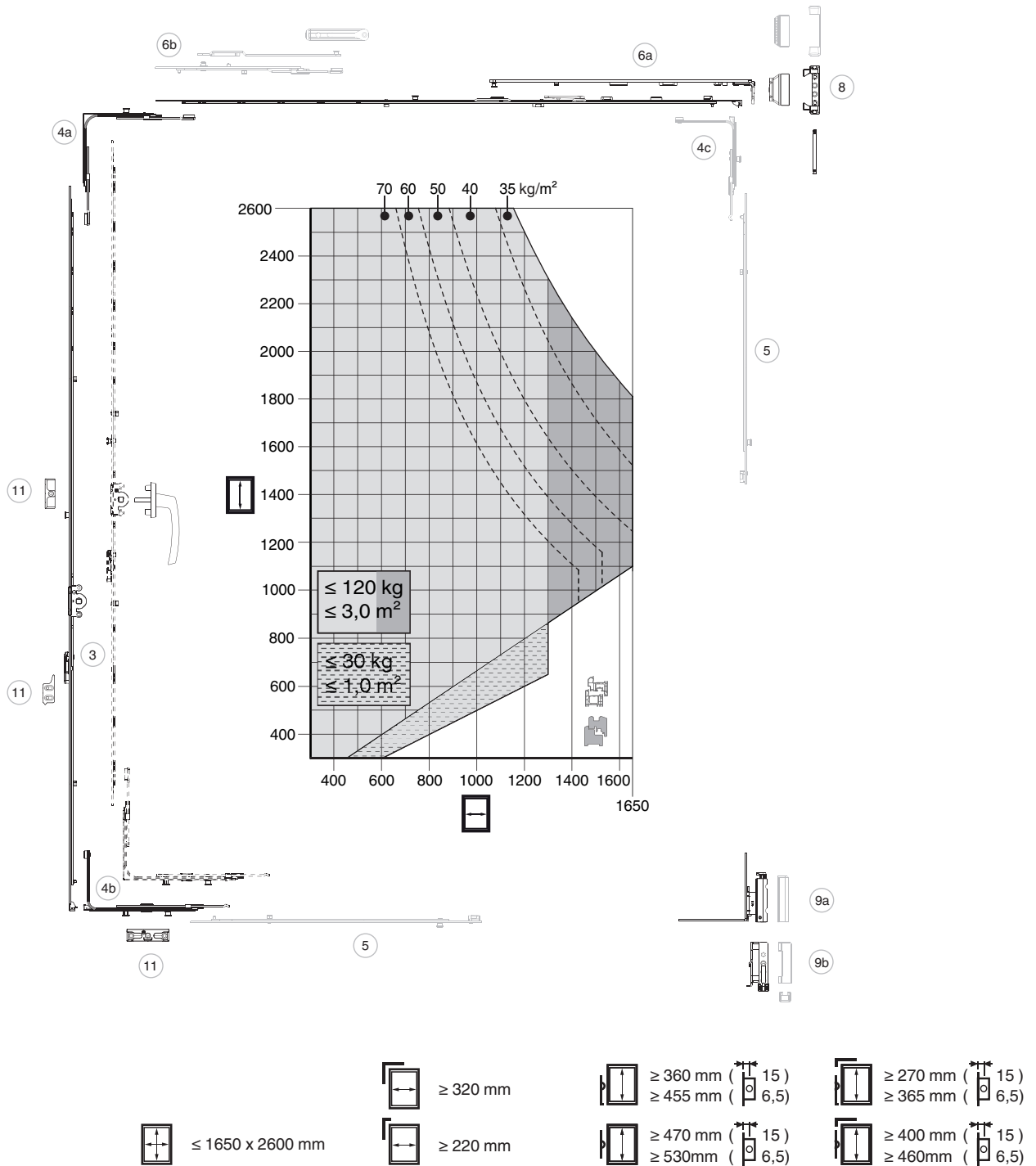
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 6b = Stabilizing scissor stay necessary from 1,301 mm (dark shading in application range diagram).
- 9b = Observe restrictions for 26 mm rebate depth!
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

# Fundamental processing information

Selection guide		Page
3a	3.1.1.1 T&T drive gears BS 15 FHH i.S.	→144
3b	3.1.1.9 T&T drive gears BS 15 VHH i.S.	→146
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.2 Corner elements horizontal i.S.	→172
4c	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
6a	6.1.4 Scissor stay faceplates i.S.	→191
6b	6.8.1 Stabilizing scissor stays	→201
8	8.2 Surface-mounted scissor stay hinges	→220
9a	9.2.3 Rebated corner supports AS/PVC without rebate-leg screw fixing	→231
9b	9.3.1.1 Surface-mounted pivot posts for rebated corner supports AS/PVC without rebate-leg screw fixing	→234
11	11 Striker plates	→274



## 2.4.3.3 1-sashed rectangular T&T window with pivot post AS and rebated corner support AS with rebate-leg screw fixing



- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 6b = Stabilizing scissor stay necessary from 1,301 mm (dark shading in application range diagram).
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

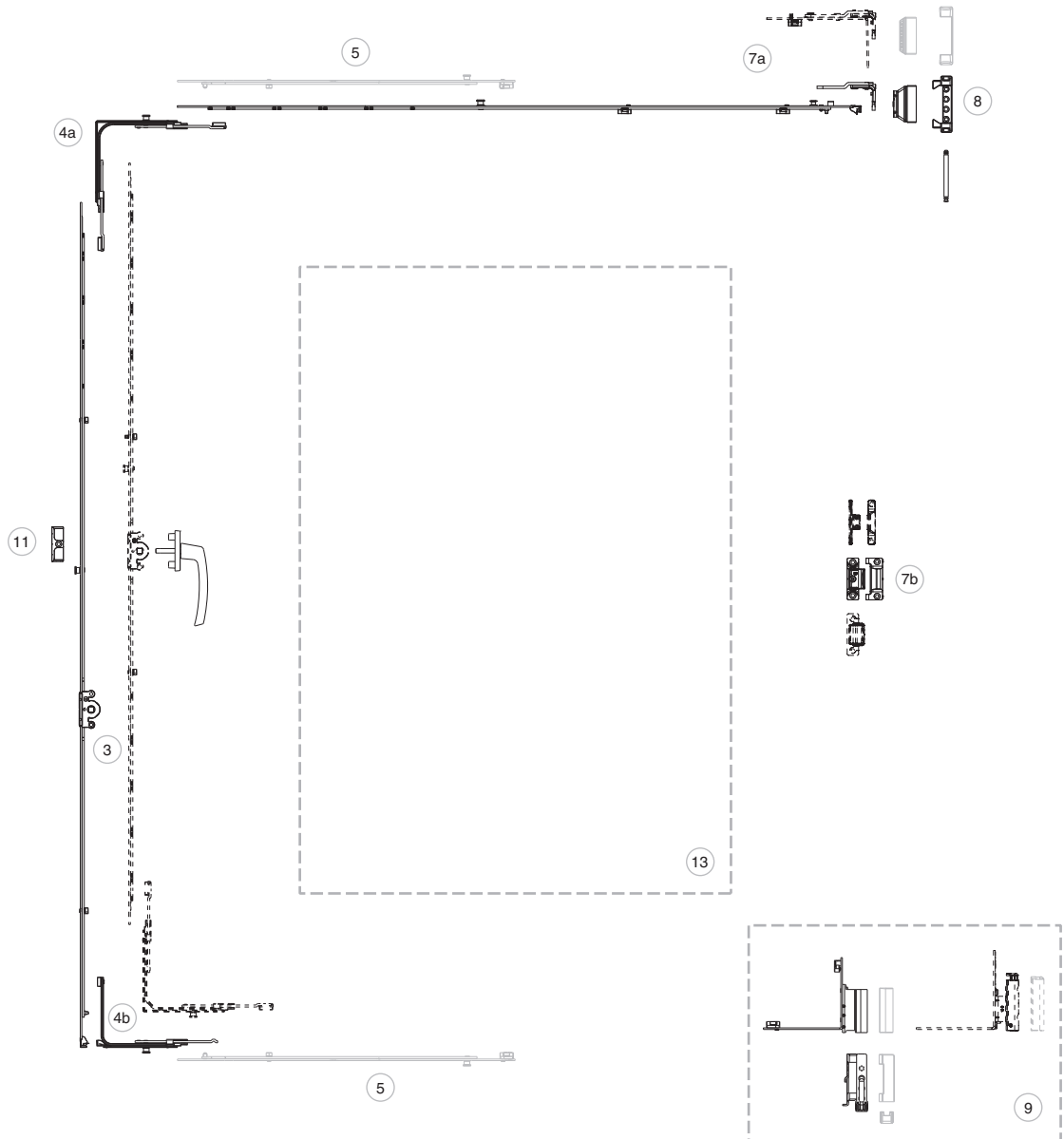


# Fundamental processing information

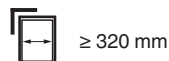
Selection guide		Page
3a	3.1.1.1 T&T drive gears BS 15 FHH i.S.	→144
3b	3.1.1.9 T&T drive gears BS 15 VHH i.S.	→146
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.2 Corner elements horizontal i.S.	→172
4c	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
6a	6.1.4 Scissor stay faceplates i.S.	→191
6b	6.8.1 Stabilizing scissor stays	→201
8	8.2 Surface-mounted scissor stay hinges	→220
9a	9.3.2.1 Surface-mounted pivot posts for surface-mounted rebated corner supports with rebate-leg screw fixing	→235
9b	9.3.2.2 Surface-mounted rebated corner supports with rebate-leg screw fixing	→236
11	11 Striker plates	→274



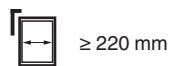
## 2.4.3.4 1-sashed rectangular turn-only window with pivot post AS and fixed or croppable turn-only hinge



≤ 1650 x 2600 mm



≥ 320 mm



≥ 220 mm



≥ 360 mm



( 15), ≥ 455 mm



( 6,5)



≥ 470 mm



( 15), ≥ 530 mm



( 6,5)

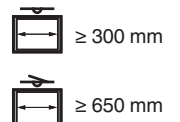
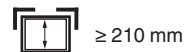
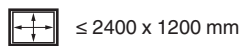
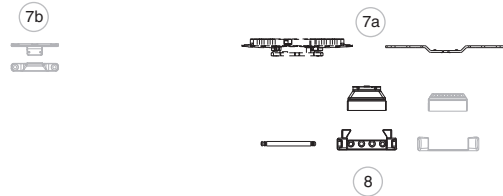
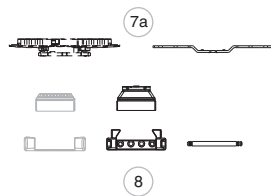
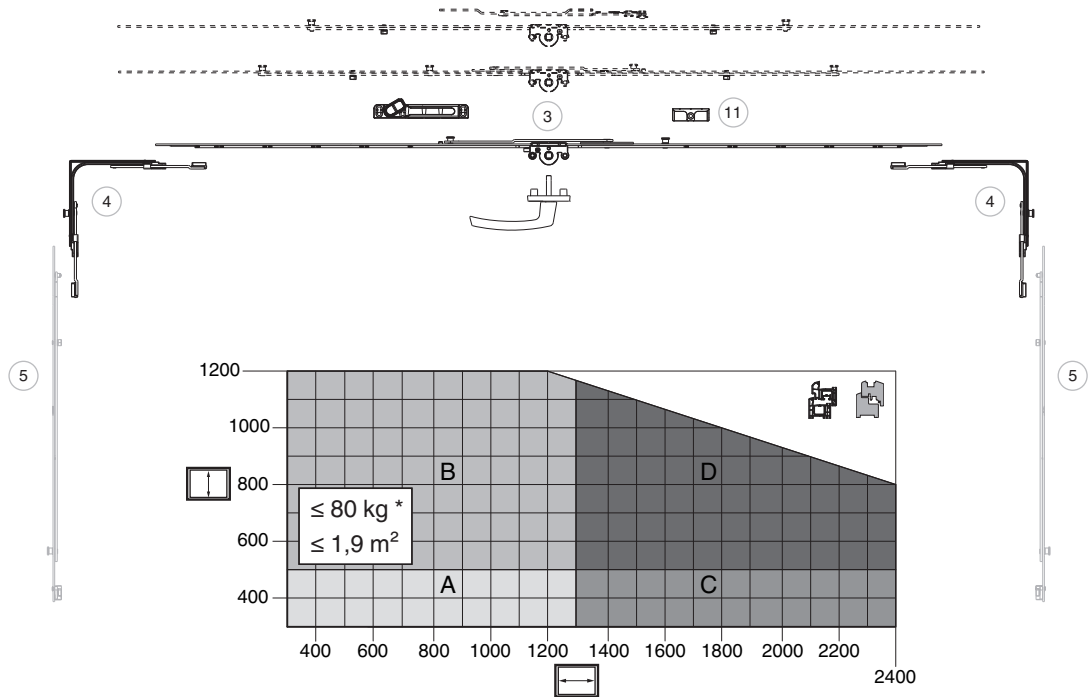
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7a = Turn-only hinge - sash part fixed or croppable.
- 7b = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!
- 9 = For possible pivot post combinations refer to matrix; the support screw has to be set from 100 kg sash weight!
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.
- 13 = For application diagram refer to turn&tilt hardware overview according to corresponding pivot post combination.

# Fundamental processing information

Selection guide		Page
3a	3.2.1.1 Turn-only drive gears BS 15 FHH i.S.	→155
3b	3.2.1.6 Turn-only drive gears BS 15 VHH i.S.	→156
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
7a	7.1 Turn-only hinges - sash part AS/DTuni/PVC	→204
7b	7.7.1 Surface-mounted compression devices	→213
8	8.2 Surface-mounted scissor stay hinges	→220
9	9.3 Pivot posts AS (surface-mounted)	→234
11	11 Striker plates	→274



## 2.4.3.5 1-sashed rectangular tilt-only window with scissor stay hinge AS and tilt-only hinge AS/PVC



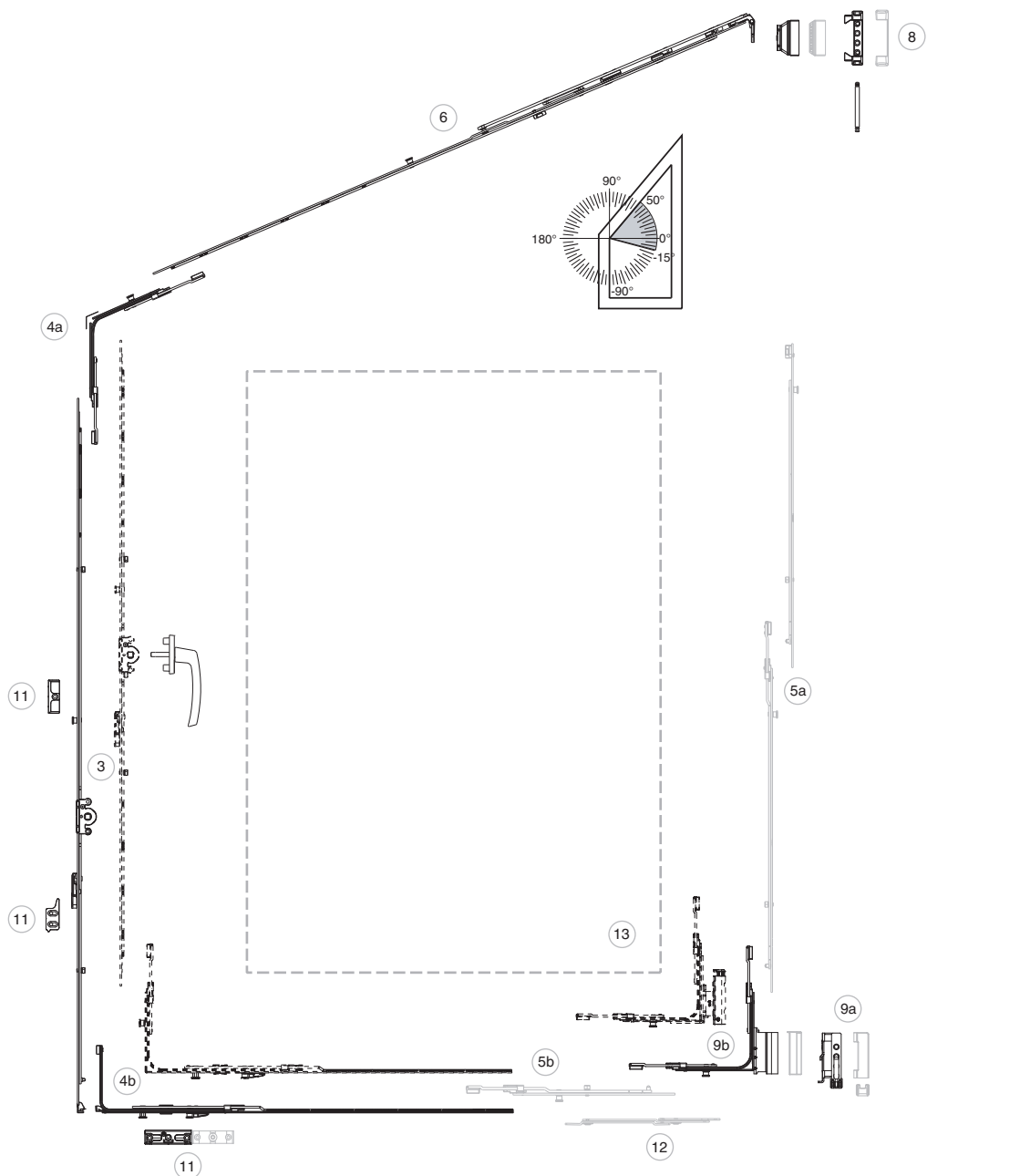
- A = 1 tilt stay + restrictor and cleaning stay size 1.
- B = 1 tilt stay + restrictor and cleaning stay size 2.
- C = 2 tilt stays + restrictor and cleaning stay size 1.
- D = 2 tilt stays + restrictor and cleaning stay size 2.
- \* = Mandatory installation of restrictor and cleaning stay (guideline FPKF at [www.schlossindustrie.de](http://www.schlossindustrie.de))! Observe application diagrams and max. load capacity for restrictor and cleaning stays!
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7b = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

# Fundamental processing information

Selection guide			Page
3	3.4	Espagnolettes	→162
4	4.1.1	Corner elements standard i.S.	→172
5	5.1	Centre locks FHH i.S.	→182
7a	7.2	Turn and tilt hinges - sash part AS/DTuni/PVC	→206
7b	7.7.1	Surface-mounted compression devices	→213
8	8.2	Surface-mounted scissor stay hinges	→220
11	11	Striker plates	→274



## 2.4.3.6 1-sashed angled T&T window with pivot post AS and rebated corner support AS EH with corner element



≤ 1650 x 2600 mm



≥ 465 mm



≥ 370 mm



≥ 360 mm ( 15), ≥ 455 mm ( 6,5)



≥ 470 mm ( 15), ≥ 530 mm ( 6,5)

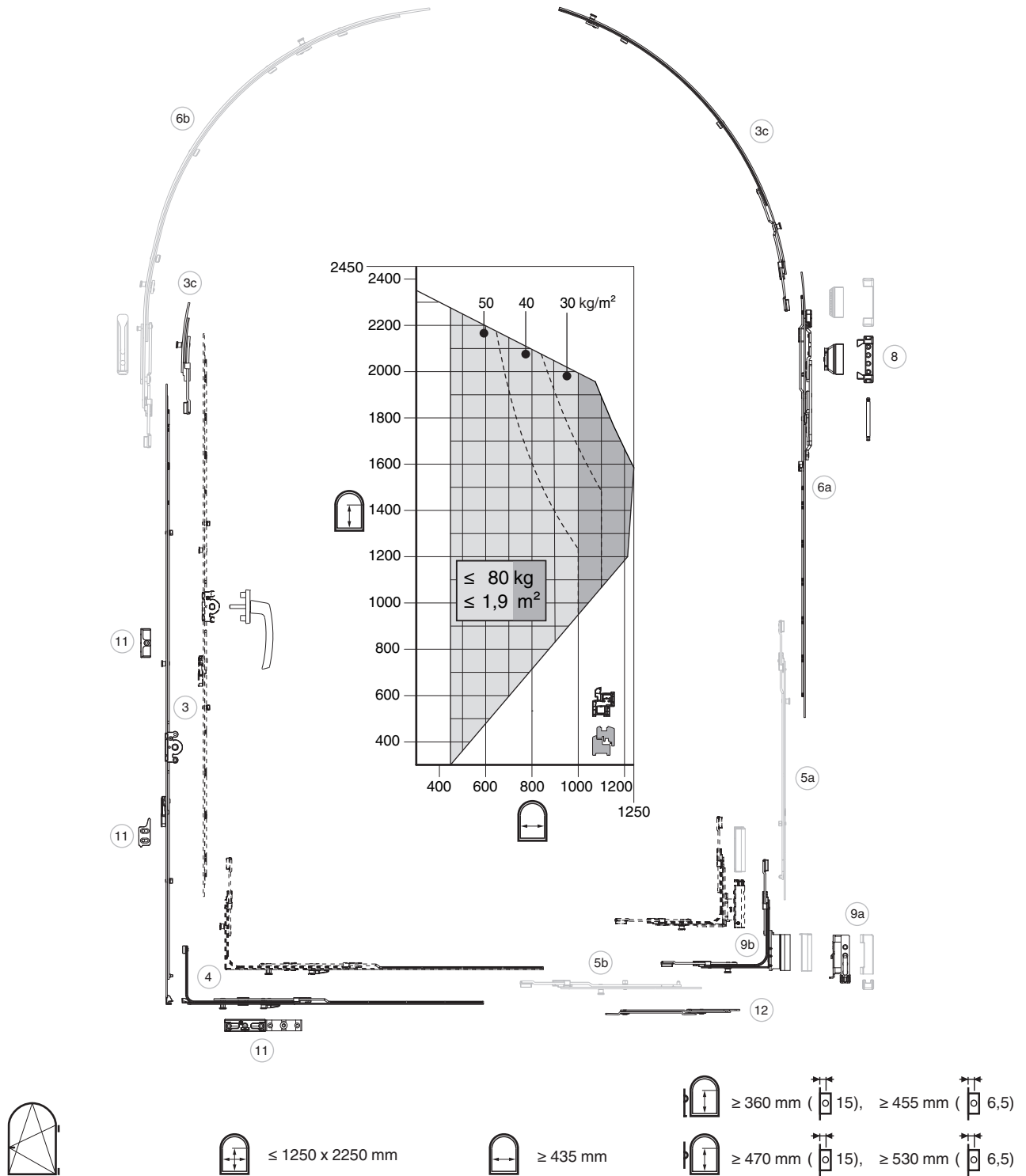
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5a = Above SRH 800 mm; Observe details from profile manufacturer!
- 5b = Required above SRW 670 mm.
- 9b = Rebated corner support with corner element with or without rebate-leg screw fixing.
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.
- 13 = Refer to application diagrams for angled windows in chapter 2.5.

# Fundamental processing information

Selection guide		Page
3a	3.1.1.1 T&T drive gears BS 15 FHH i.S.	→144
3b	3.1.1.9 T&T drive gears BS 15 VHH i.S.	→146
4a	4.5 Corner elements i.S. for angled windows	→175
4b	4.6 Corner elements i.S. for half round windows	→176
5a	5.1 Centre locks FHH i.S.	→182
5b	5.11 Faceplate extensions fixed and extendable	→185
6	6.1.11 Rebated scissor stays i.S. for angled windows	→193
8	8.2 Surface-mounted scissor stay hinges	→220
9a	9.3.1.1 Surface-mounted pivot posts for rebated corner supports AS/PVC without rebate-leg screw fixing	→234
9b	9.3.2.3 Surface-mounted rebated corner supports with rebate-leg screw fixing EH with corner element	→236
11	11 Striker plates	→274
12	12.12 Turn restrictions	→299



## 2.4.3.7 1-sashed half round T&T window with pivot post AS (for rebated corner support AS/PVC) + rebated corner support AS EH with corner element



- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 3c = Required above SRW 671 mm.
- 5a = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 5b = Required above SRW 670 mm.
- 6b = Stabilizing scissor stay necessary from 1,001 mm (dark shading in application range diagram).
- 9b = Rebated corner support with corner element with or without rebate-leg screw fixing.
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

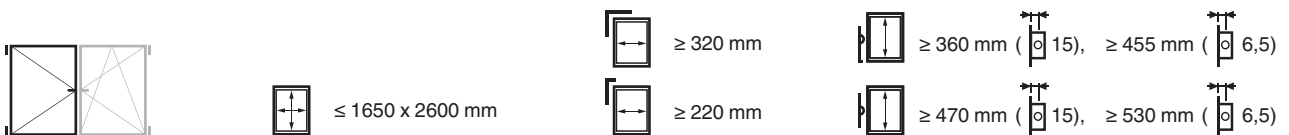
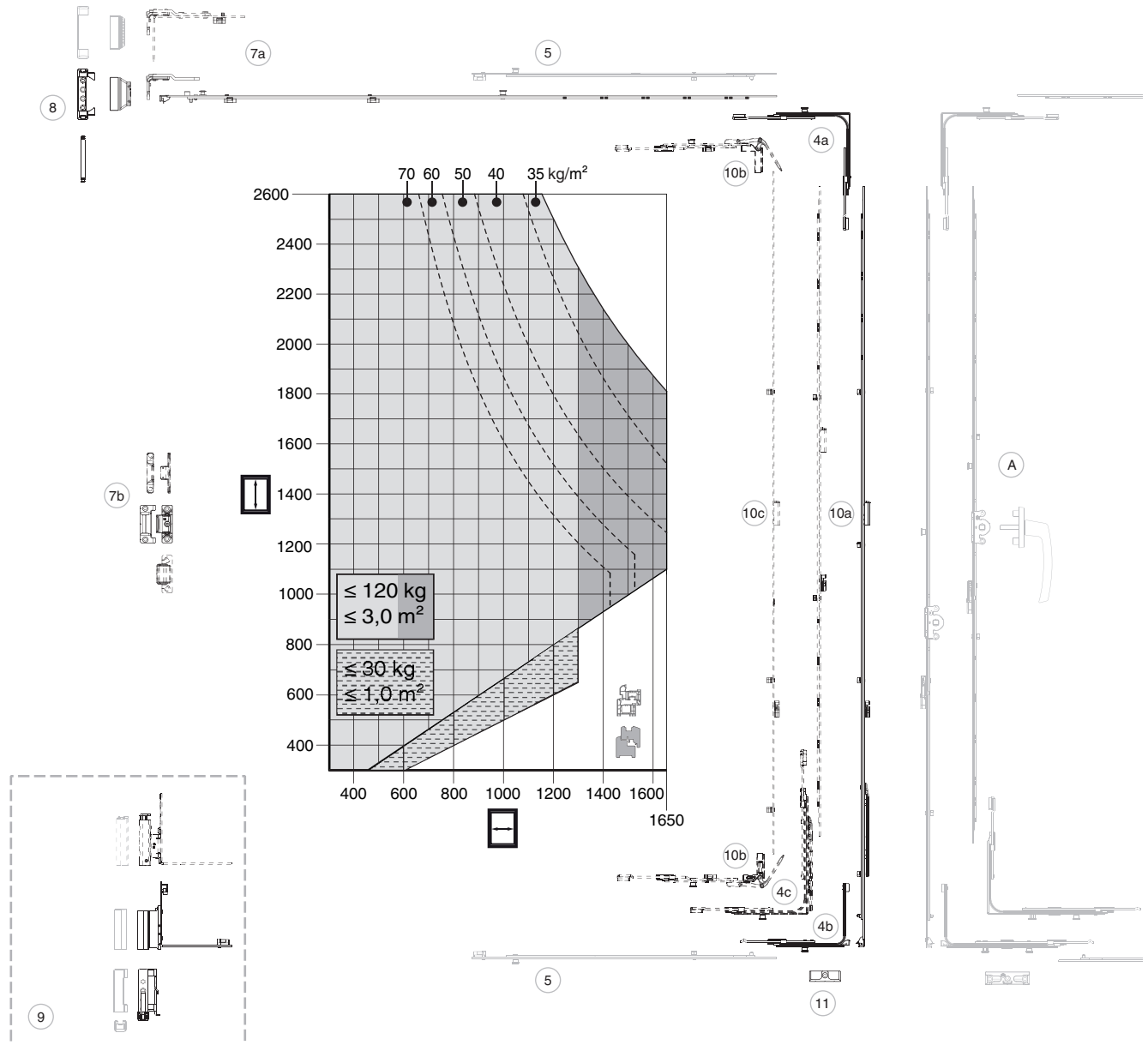


# Fundamental processing information

Selection guide		Page
3a	3.1.1.1 T&T drive gears BS 15 FHH i.S.	→144
3b	3.1.1.9 T&T drive gears BS 15 VHH i.S.	→146
3c	3.5.3 End piece top for half round windows	→167
4	4.6 Corner elements i.S. for half round windows	→176
5a	5.2 Centre locks extendable i.S.	→182
5b	5.11 Faceplate extensions fixed and extendable	→185
6a	6.1.12 Rebated scissor stays i.S. for half round windows	→194
6b	6.8.4 Stabilizing scissor stays for half round windows	→201
8	8.2 Surface-mounted scissor stay hinges	→220
9a	9.3.1.1 Surface-mounted pivot posts for rebated corner supports AS/PVC without rebate-leg screw fixing	→234
9b	9.3.2.3 Surface-mounted rebated corner supports with rebate-leg screw fixing EH with corner element	→236
11	11 Striker plates	→274
12	12.12 Turn restrictions	→299



## 2.4.3.8 2-sashed rectangular T&T window with pivot post AS



- A = For details refer to 1-sashed turn&tilt window.
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7b = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!
- 9 = For possible pivot post combinations refer to matrix; the support screw has to be set from 100 kg sash weight!
- 10a = French casement drive gear FHH or VHH.

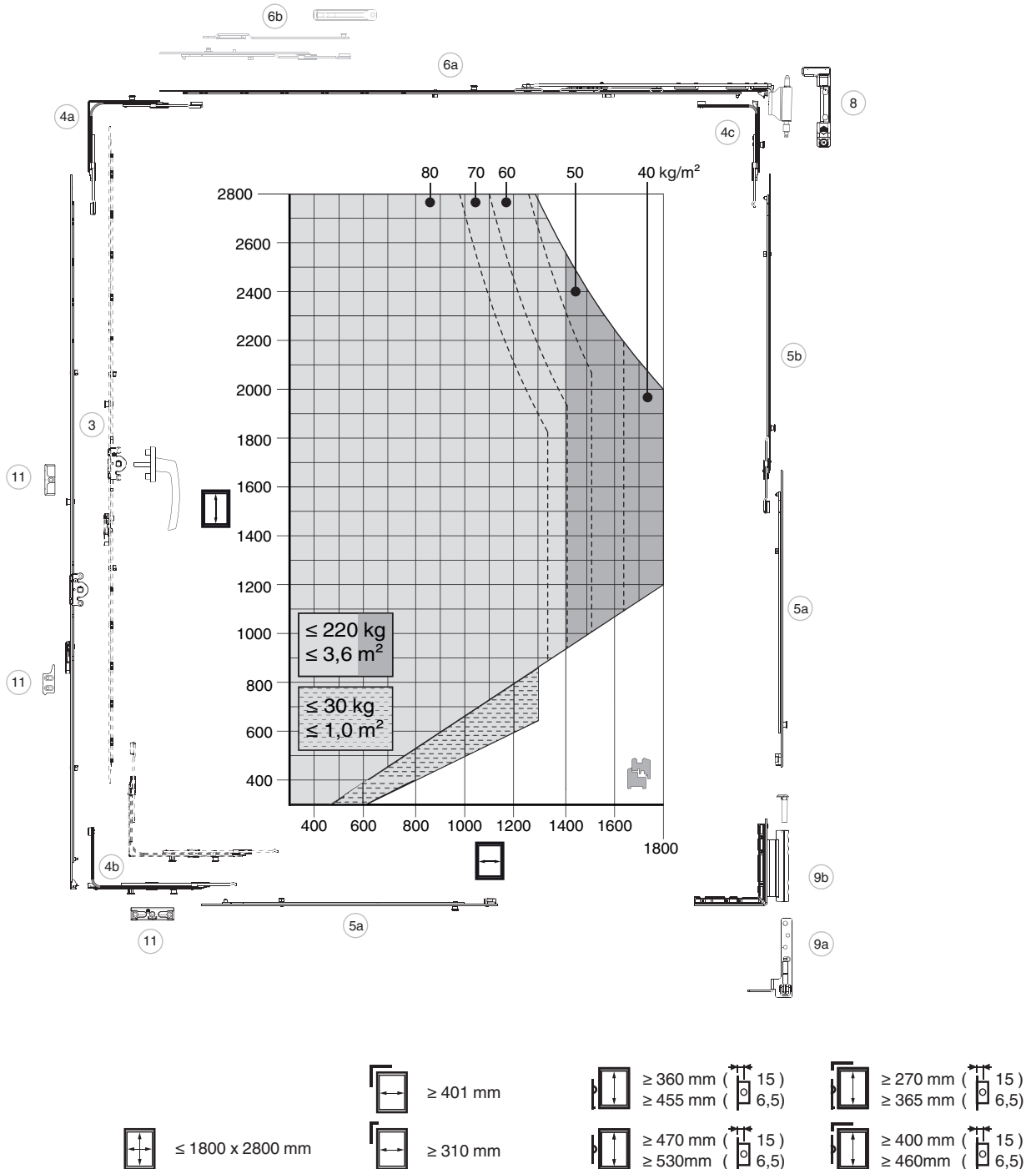
# Fundamental processing information

Selection guide			Page
4a	4.1.1	Corner elements standard i.S.	→172
4b	4.1.3	Corner elements vertical i.S.	→173
4c	4.4	Corner elements i.S. for French casement drive gears	→175
5	5.1	Centre locks FHH i.S.	→182
7a	7.1	Turn-only hinges - sash part AS/DTuni/PVC	→204
7b	7.7	Compression devices	→213
8	8.2	Surface-mounted scissor stay hinges	→220
9	9.3	Pivot posts AS (surface-mounted)	→234
10a	10.1.5	Horizontal French casement locks	→259
10b	10.2	French casement drive gears	→261
10c	10.3	Single piece door striker	→268
11	11	Striker plates	→274



## 2.4.4 MULTI MAMMUT (drive gear FHH/VHH)

### 2.4.4.1 1-sashed rectangular T&T window with pivot post timber MULTI MAMMUT and corner support MULTI MAMMUT



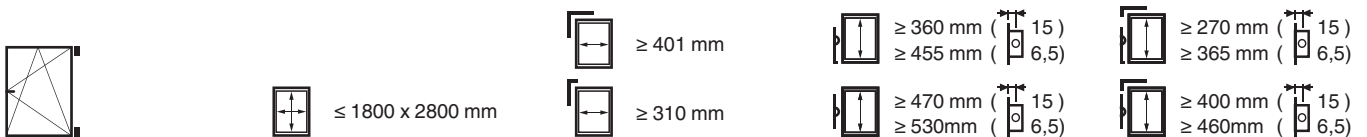
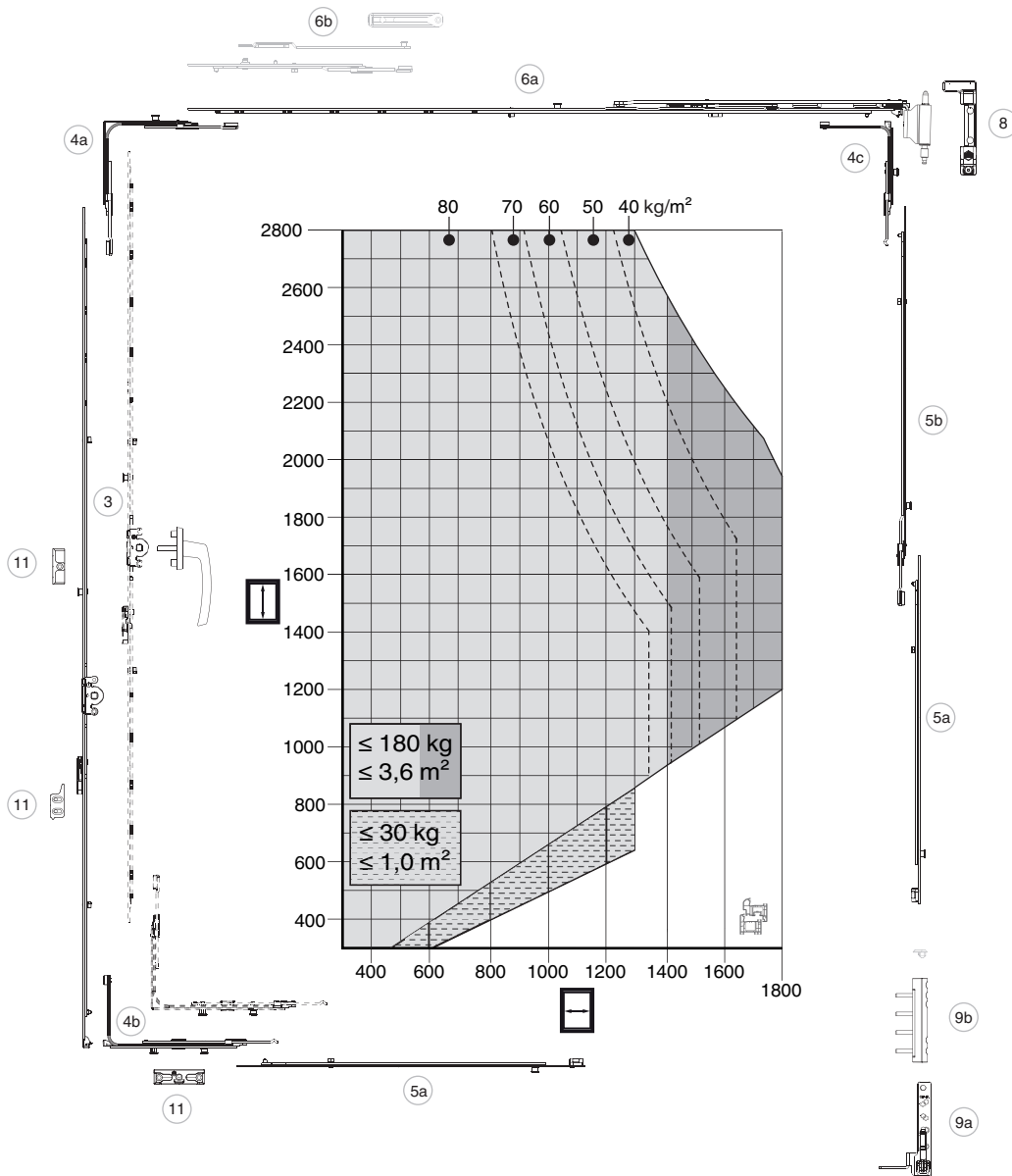
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 5b = Use additional centre locks from 1,280 mm!
- 6b = Stabilizing scissor stay necessary from 1,401 mm (dark shading in application range diagram).

# Fundamental processing information

Selection guide		Page
3a	3.1.1.1 T&T drive gears BS 15 FHH i.S.	→144
3b	3.1.1.9 T&T drive gears BS 15 VHH i.S.	→146
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.2 Corner elements horizontal i.S.	→172
4c	4.1.3 Corner elements vertical i.S.	→173
5a	5.1 Centre locks FHH i.S.	→182
5b	5.2 Centre locks extendable i.S.	→182
6a	6.2 Rebated scissor stays MULTI MAMMUT	→195
6b	6.8.1 Stabilizing scissor stays	→201
8	8.6 Scissor stay hinges MULTI MAMMUT	→223
9a	9.5.1 Pivot posts for timber MULTI MAMMUT	→242
9b	9.5.4 Rebated corner supports MULTI MAMMUT	→243
11	11 Striker plates	→274



## 2.4.4.2 1-sashed rectangular T&T window with pivot post PVC MULTI MAMMUT and corner support MULTI MAMMUT



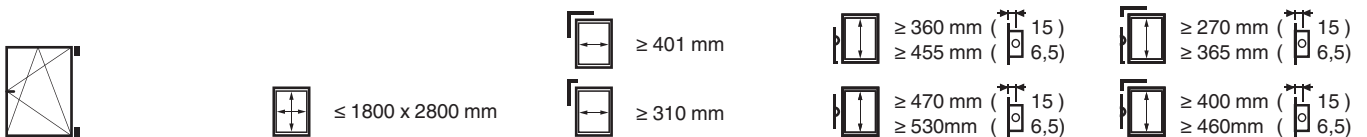
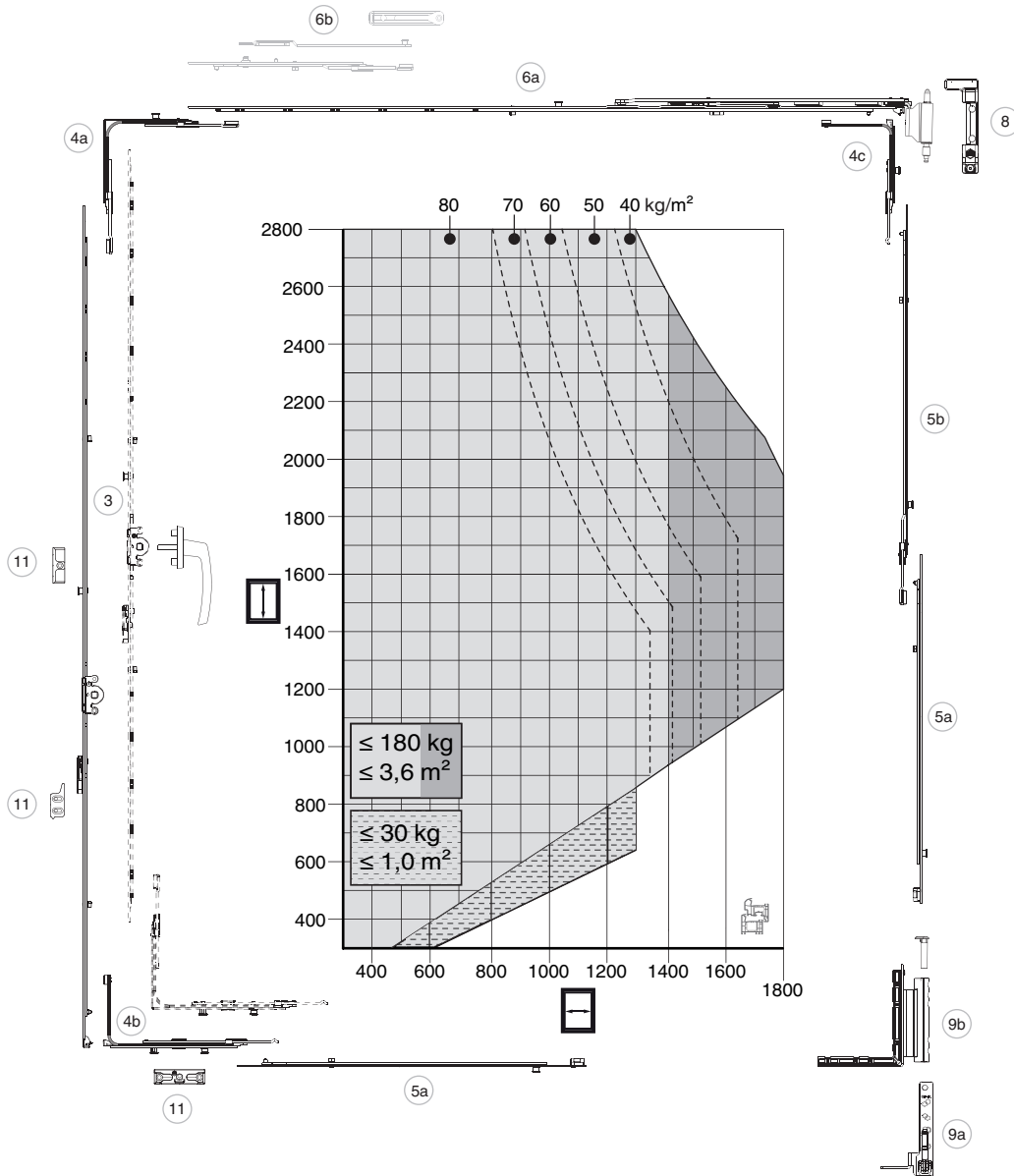
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 5b = Use additional centre locks from 1,280 mm!
- 6b = Stabilizing scissor stay necessary from 1,401 mm (dark shading in application range diagram).
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

# Fundamental processing information

Selection guide		Page
3a	3.1.1.1 T&T drive gears BS 15 FHH i.S.	→144
3b	3.1.1.9 T&T drive gears BS 15 VHH i.S.	→146
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.2 Corner elements horizontal i.S.	→172
4c	4.1.3 Corner elements vertical i.S.	→173
5a	5.1 Centre locks FHH i.S.	→182
5b	5.2 Centre locks extendable i.S.	→182
6a	6.2 Rebated scissor stays MULTI MAMMUT	→195
6b	6.8.1 Stabilizing scissor stays	→201
8	8.6 Scissor stay hinges MULTI MAMMUT	→223
9a	9.5.2 Pivot posts for PVC MULTI MAMMUT	→242
9b	9.5.3 Corner supports PVC MULTI MAMMUT	→242



## 2.4.4.3 1-sashed rectangular T&T window with pivot post PVC MULTI MAMMUT and rebated corner support MULTI MAMMUT



- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 5b = Use additional centre locks from 1,280 mm!
- 6b = Stabilizing scissor stay necessary from 1,401 mm (dark shading in application range diagram).
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

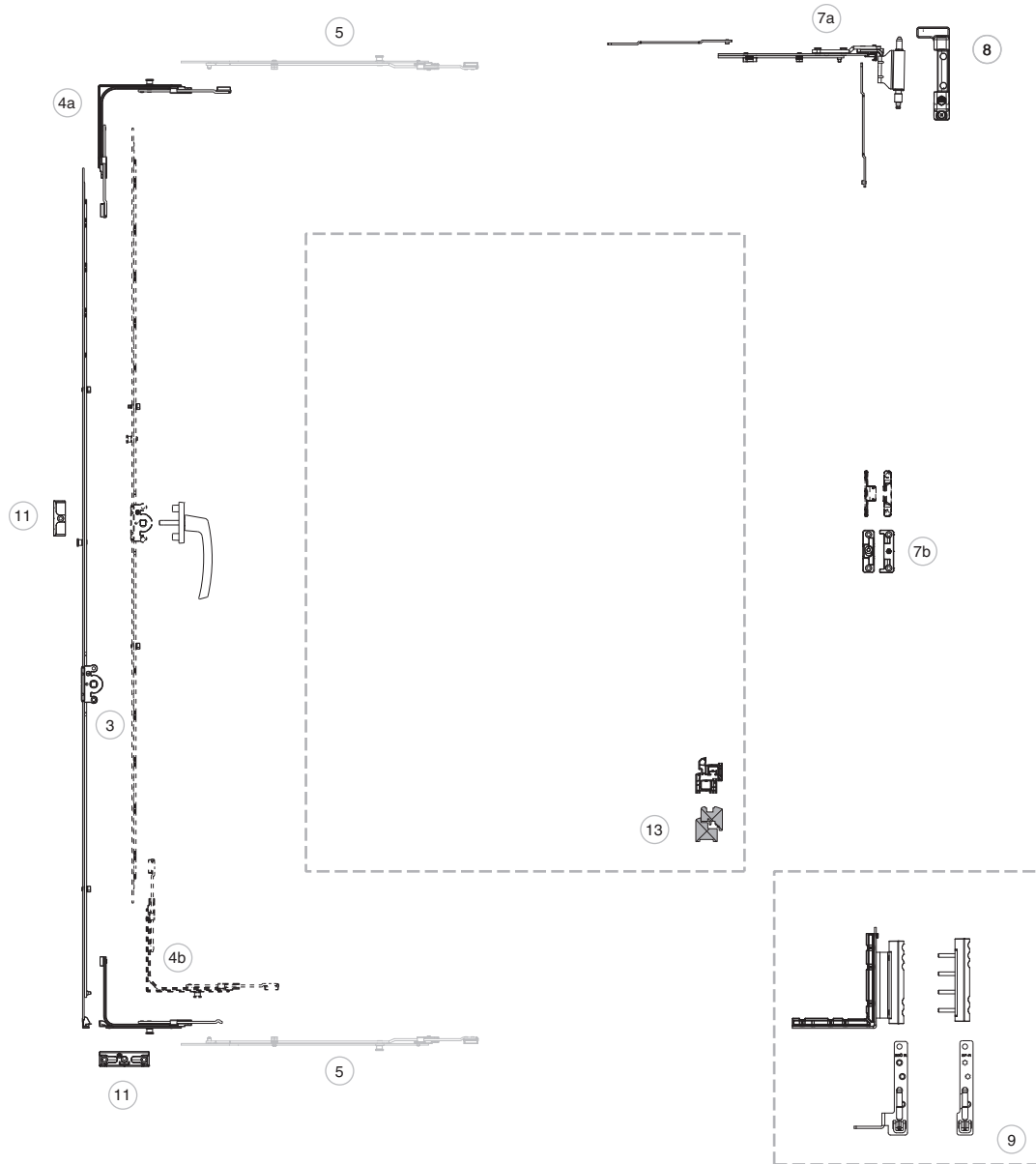


# Fundamental processing information

Selection guide		Page
3a	3.1.1.1 T&T drive gears BS 15 FHH i.S.	→144
3b	3.1.1.9 T&T drive gears BS 15 VHH i.S.	→146
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.2 Corner elements horizontal i.S.	→172
4c	4.1.3 Corner elements vertical i.S.	→173
5a	5.1 Centre locks FHH i.S.	→182
5b	5.2 Centre locks extendable i.S.	→182
6a	6.2 Rebated scissor stays MULTI MAMMUT	→195
6b	6.8.1 Stabilizing scissor stays	→201
8	8.6 Scissor stay hinges MULTI MAMMUT	→223
9a	9.5.2 Pivot posts for PVC MULTI MAMMUT	→242
9b	9.5.4 Rebated corner supports MULTI MAMMUT	→243



## 2.4.4.4 1-sashed rectangular turn-only window with pivot post MULTI MAMMUT and corner support MULTI MAMMUT with fixed turn-only hinge



≤ 1800 x 2800 mm

≥ 385/400 mm  
 ≥ 325/340 mm

≥ 360 mm ( 15), ≥ 455 mm ( 6,5)  
 ≥ 470 mm ( 15), ≥ 530 mm ( 6,5)

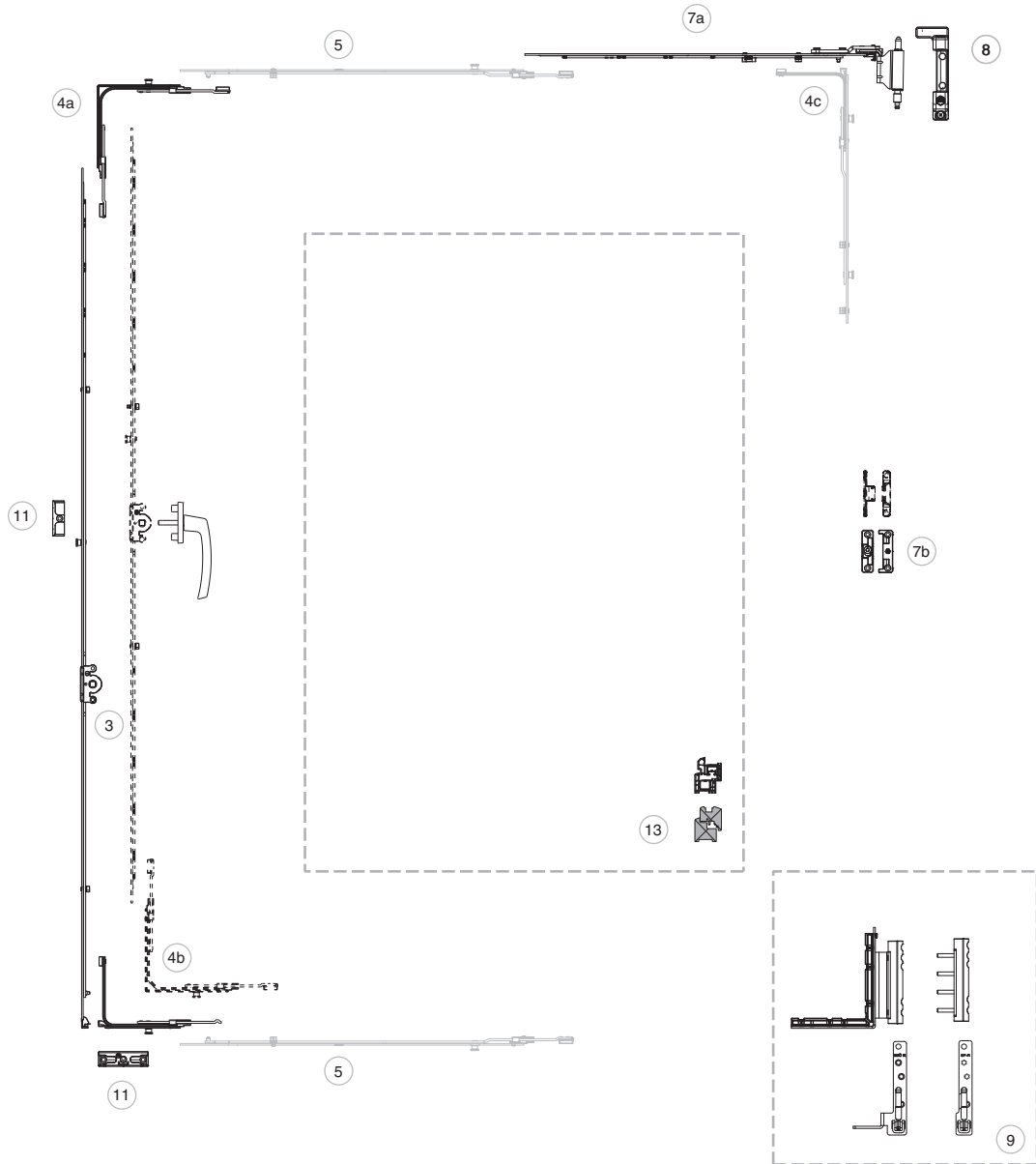
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7a = Faceplate extensions, when used as turn-only hinge (sash part) FHH (application range 385-1800 mm).
- 7b = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Top compression device must be installed close to turn-only hinge for gasket compression adjustment; Observe details from profile manufacturer!
- 9 = For possible pivot post combinations refer to matrix.
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.
- 13 = For application diagram refer to turn&tilt hardware overview according to corresponding pivot post combination.

# Fundamental processing information

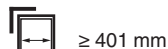
Selection guide		Page
3a	3.2.1.1 Turn-only drive gears BS 15 FHH i.S.	→155
3b	3.2.1.6 Turn-only drive gears BS 15 VHH i.S.	→156
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.2 Corner elements horizontal i.S.	→172
5	5.1 Centre locks FHH i.S.	→182
7a	7.3 Turn-only hinges - sash part MULTI MAMMUT	→207
7b	7.7 Compression devices	→213
8	8.6 Scissor stay hinges MULTI MAMMUT	→223
9	9.5 Pivot posts MULTI MAMMUT	→242
11	11 Striker plates	→274



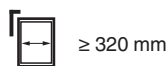
## 2.4.4.5 1-sashed rectangular turn-only window with pivot post MULTI MAMMUT and corner support MULTI MAMMUT with croppable turn-only hinge



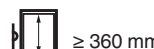
≤ 1800 x 2800 mm



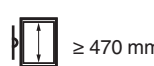
≥ 401 mm



≥ 320 mm



≥ 360 mm ( 15), ≥ 455 mm ( 6,5)



≥ 470 mm ( 15), ≥ 530 mm ( 6,5)

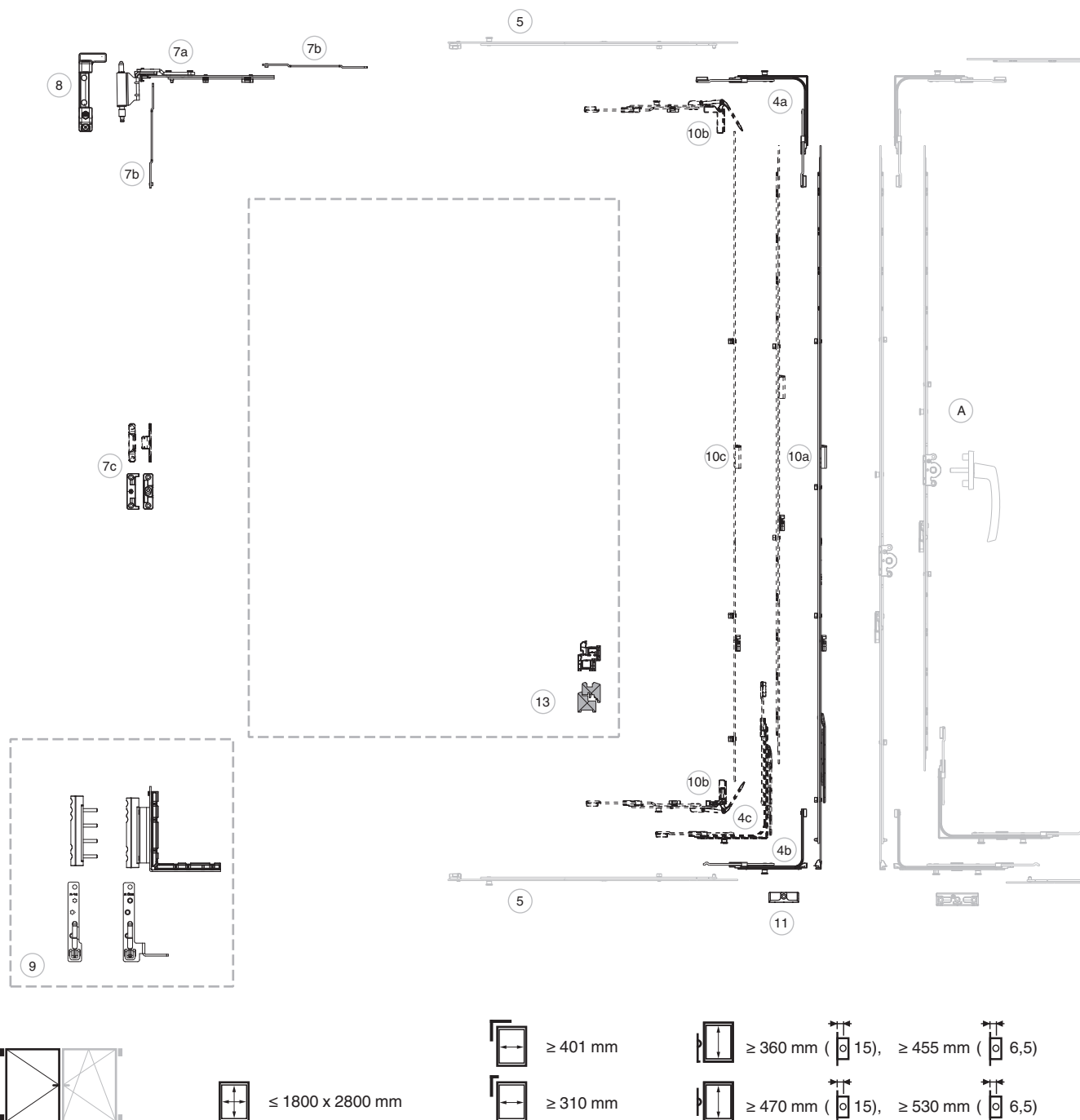
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7a = Use as croppable turn-only hinge (sash part) (application range 400 - 635 mm).
- 7b = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!
- 9 = For possible pivot post combinations refer to matrix.
- 13 = For application diagram refer to turn&tilt hardware overview according to corresponding pivot post combination.

# Fundamental processing information

Selection guide		Page
3a	3.2.1.1 Turn-only drive gears BS 15 FHH i.S.	→155
3b	3.2.1.6 Turn-only drive gears BS 15 VHH i.S.	→156
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.2 Corner elements horizontal i.S.	→172
4c	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
7a	7.3 Turn-only hinges - sash part MULTI MAMMUT	→207
7b	7.7 Compression devices	→213
8	8.6 Scissor stay hinges MULTI MAMMUT	→223
9	9.5 Pivot posts MULTI MAMMUT	→242
11	11 Striker plates	→274



## 2.4.4.6 2-sashed rectangular T&T window with pivot post MULTI MAMMUT and fixed turn-only hinge



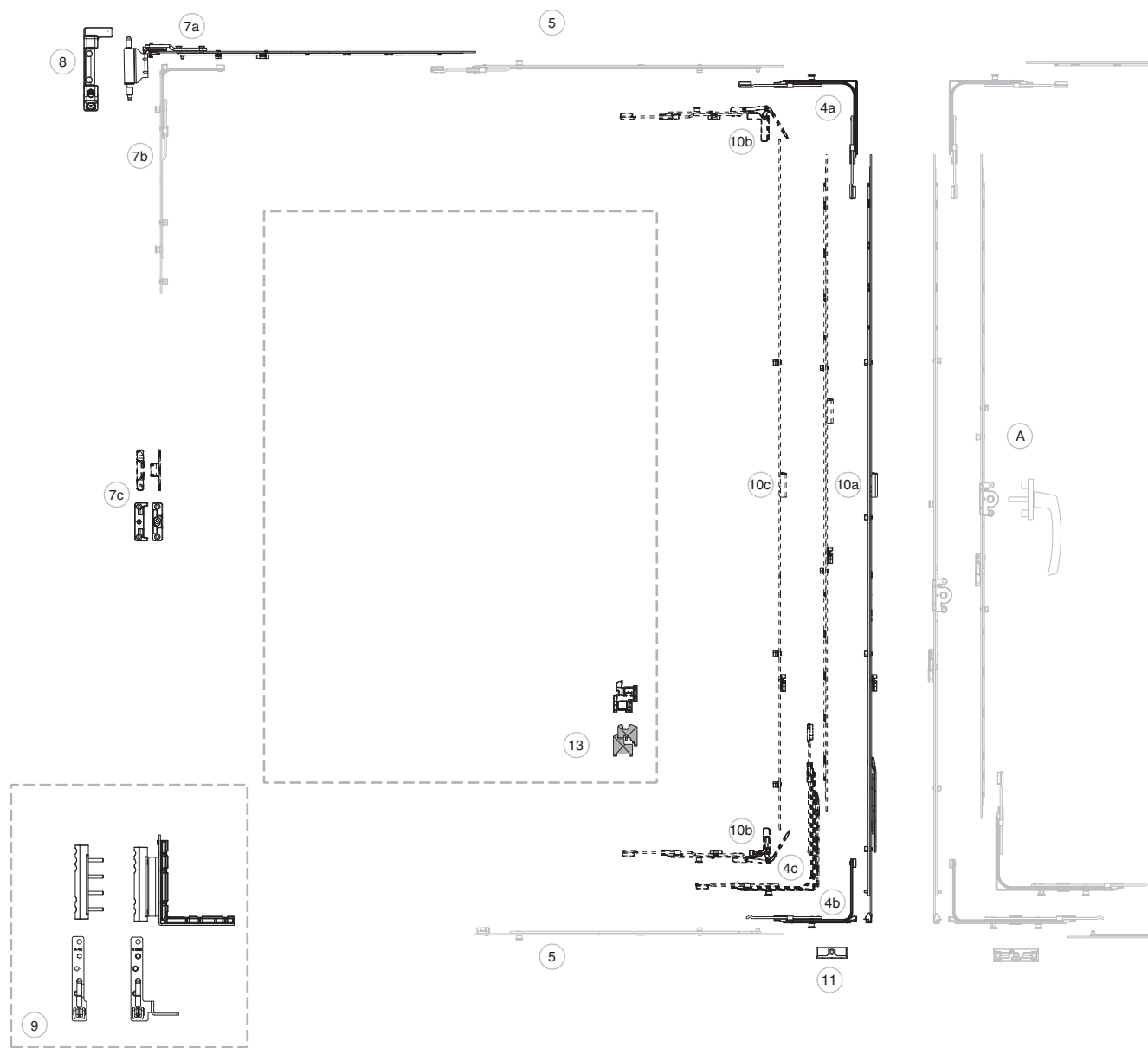
- A = For details refer to 1-sashed turn&tilt window.
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7c = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!
- 9 = For possible pivot post combinations refer to matrix; the support screw has to be set from 100 kg sash weight!
- 10a = French casement drive gear FHH or VHH.
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.
- 13 = For application diagram refer to turn&tilt hardware overview according to corresponding pivot post combination.


# Fundamental processing information


Selection guide		Page
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.3 Corner elements vertical i.S.	→173
4c	4.4 Corner elements i.S. for French casement drive gears	→175
5	5.1 Centre locks FHH i.S.	→182
7a	7.3.1 Turn-only hinges - sash part croppable MULTI MAMMUT	→207
7b	7.3.2 Faceplate extension for turn-only hinge - sash part MULTI MAMMUT	→207
7c	7.7 Compression devices	→213
8	8.6 Scissor stay hinges MULTI MAMMUT	→223
9	9.5 Pivot posts MULTI MAMMUT	→242
10a	10.1.5 Horizontal French casement locks	→259
10b	10.2 French casement drive gears	→261
10c	10.3 Single piece door striker	→268
11	11 Striker plates	→274







## 2.4.4.7 2-sashed rectangular T&T window with pivot post MULTI MAMMUT and croppable turn-only hinge






  $\leq 1800 \times 2800 \text{ mm}$

  $\geq 401 \text{ mm}$

  $\geq 310 \text{ mm}$

  $\geq 360 \text{ mm}$  (  15),  $\geq 455 \text{ mm}$  (  6,5)

  $\geq 470 \text{ mm}$  (  15),  $\geq 530 \text{ mm}$  (  6,5)

- A = For details refer to 1-sashed turn&tilt window.
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7c = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!
- 9 = For possible pivot post combinations refer to matrix; the support screw has to be set from 100 kg sash weight!
- 10a = French casement drive gear FHH or VHH.
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.
- 13 = For application diagram refer to turn&tilt hardware overview according to corresponding pivot post combination.



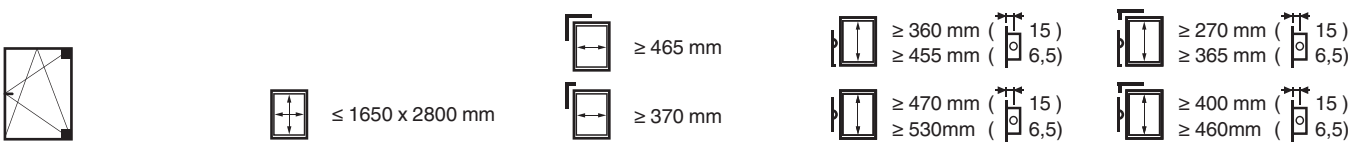
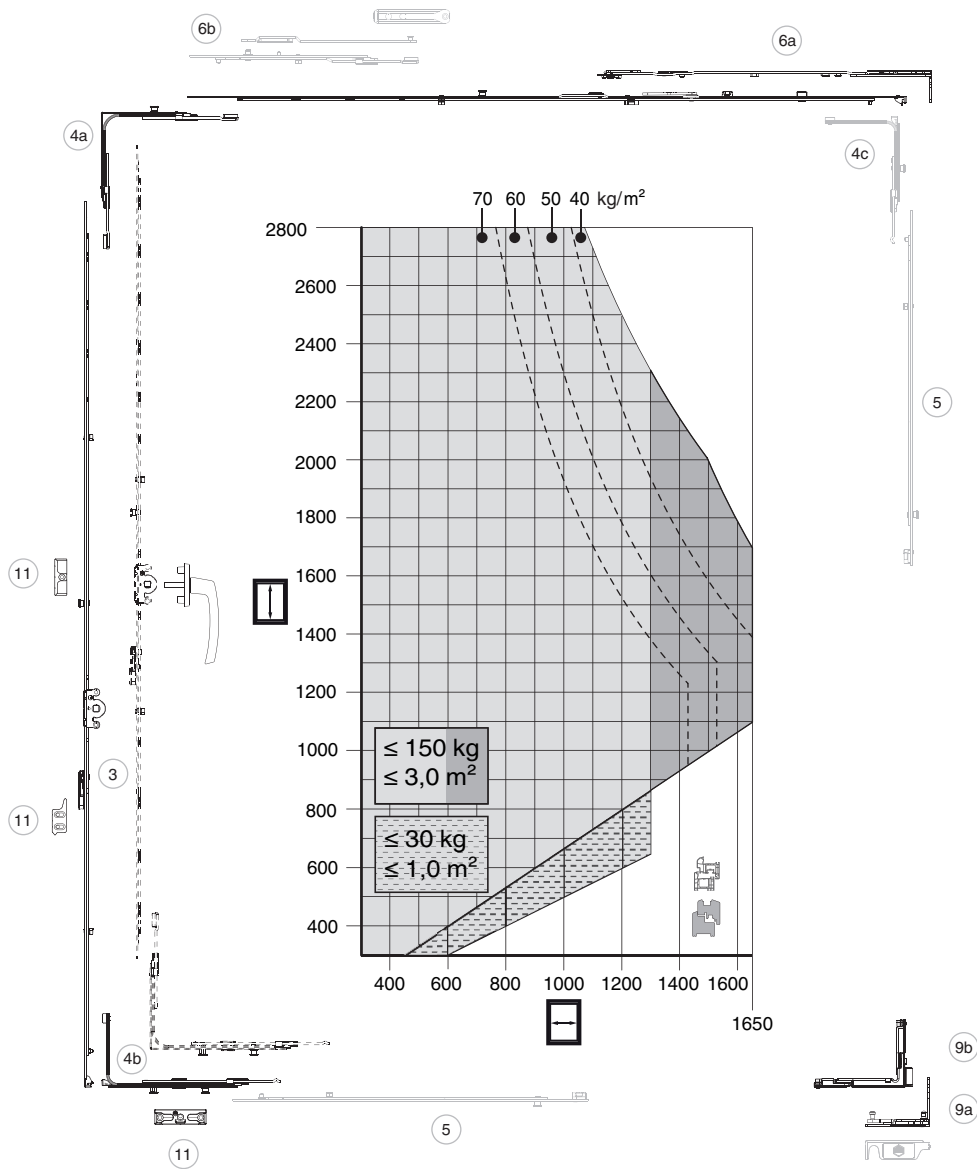
# Fundamental processing information

Selection guide		Page
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.3 Corner elements vertical i.S.	→173
4c	4.4 Corner elements i.S. for French casement drive gears	→175
5	5.1 Centre locks FHH i.S.	→182
7a	7.3.1 Turn-only hinges - sash part croppable MULTI MAMMUT	→207
7b	7.3.2 Faceplate extension for turn-only hinge - sash part MULTI MAMMUT	→207
7c	7.7 Compression devices	→213
8	8.6 Scissor stay hinges MULTI MAMMUT	→223
9	9.5 Pivot posts MULTI MAMMUT	→242
10a	10.1.5 Horizontal French casement locks	→259
10b	10.2 French casement drive gears	→261
10c	10.3 Single piece door striker	→268
11	11 Striker plates	→274



## 2.4.5 MULTI POWER (drive gear FHH/VHH)

### 2.4.5.1 1-sashed rectangular T&T window with pivot post MULTI POWER and corner support MULTI POWER



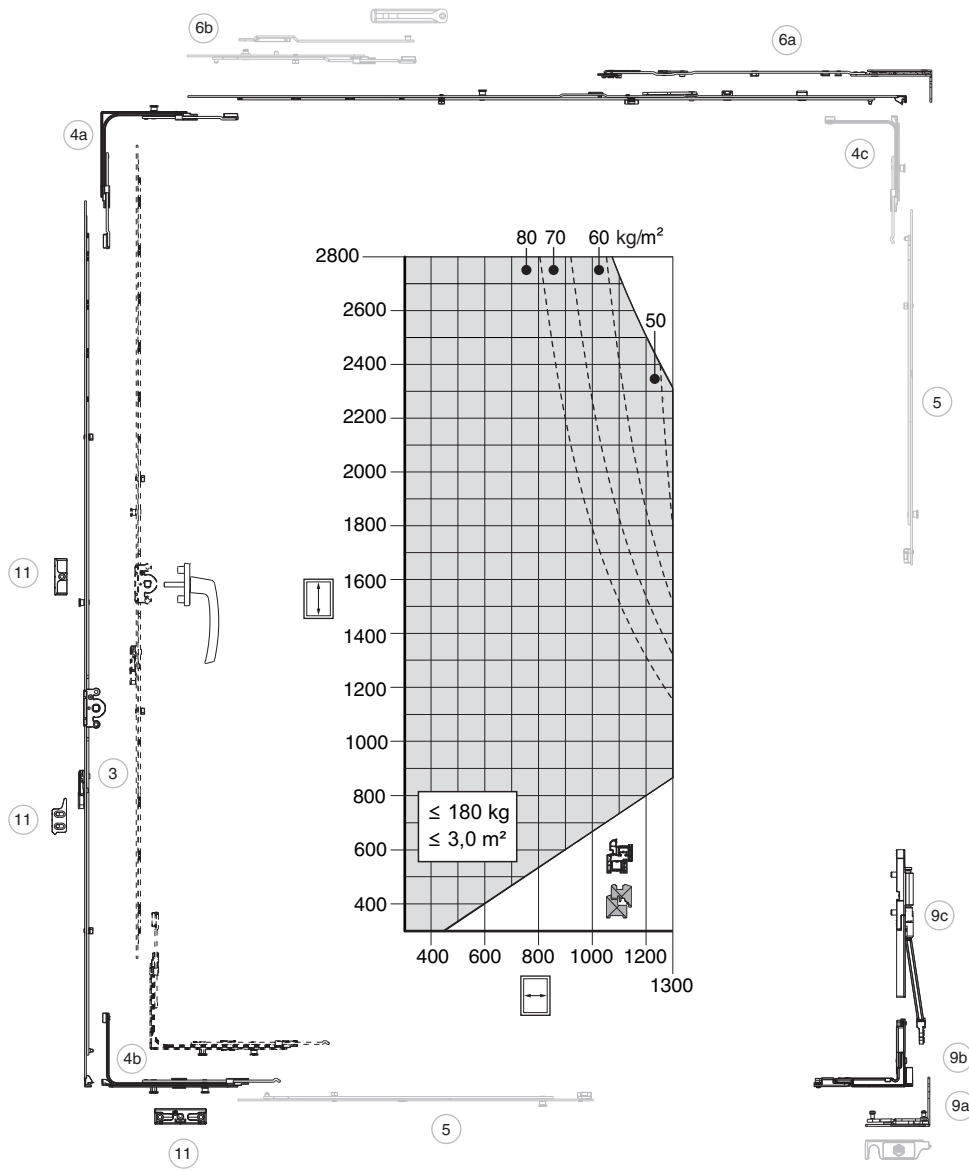
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 6b = Stabilizing scissor stay necessary from 1,301 mm (dark shading in application range diagram).
- 9 = Timber or PVC variant.
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

# Fundamental processing information

Selection guide		Page
3a	3.1.1.1 T&T drive gears BS 15 FHH i.S.	→144
3b	3.1.1.9 T&T drive gears BS 15 VHH i.S.	→146
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.2 Corner elements horizontal i.S.	→172
4c	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
6a	6.3 Scissor stays MULTI POWER	→197
6b	6.8.1 Stabilizing scissor stays	→201
9a	9.6.1 Pivot posts MULTI POWER	→244
9b	9.6.4 Rebated corner supports MULTI POWER	→244
11	11 Striker plates	→274



## 2.4.5.2 1-sashed rectangular T&T window with pivot post MULTI POWER and corner support MULTI POWER and load transfer



≤ 1300 x 2800 mm



≥ 465 mm



≥ 370 mm



≥ 360 mm ( 15 )  
≥ 455 mm ( 6,5 )



≥ 470 mm ( 15 )  
≥ 530mm ( 6,5 )



≥ 270 mm ( 15 )  
≥ 365 mm ( 6,5 )



≥ 400 mm ( 15 )  
≥ 460mm ( 6,5 )

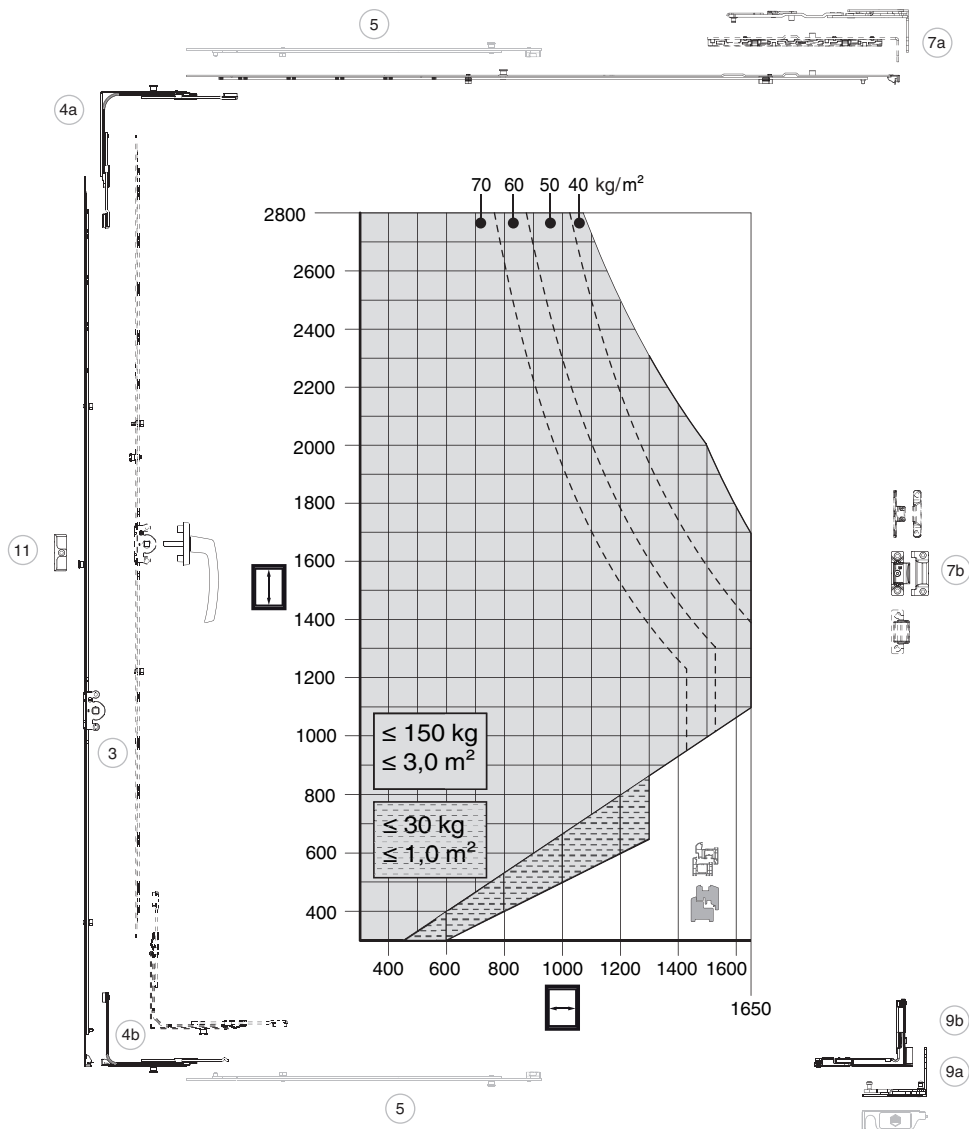
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 6b = Stabilizing scissor stay necessary from 1,301 mm (dark shading in application range diagram).
- 9 = Timber or PVC variant.
- 9c = In timber, the use of a turn restrictor for MULTI POWER (item no. 103623 or item no. 103624) is required! Installation of the turn restrictor in accordance with package leaflet turn restrictor (order no. 750304).
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

# Fundamental processing information

Selection guide		Page
3a	3.1.1.1 T&T drive gears BS 15 FHH i.S.	→144
3b	3.1.1.9 T&T drive gears BS 15 VHH i.S.	→146
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.2 Corner elements horizontal i.S.	→172
4c	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
6a	6.3 Scissor stays MULTI POWER	→197
6b	6.8.1 Stabilizing scissor stays	→201
9a	9.6.1 Pivot posts MULTI POWER	→244
9b	9.6.4 Rebated corner supports MULTI POWER	→244
9c	9.6.5 Load transfer MULTI POWER	→245
11	11 Striker plates	→274



## 2.4.5.3 1-sashed rectangular turn-only window with fixed or croppable turn-only hinge faceplate and pivot post MULTI POWER and corner support MULTI POWER



$\leq 1650 \times 2800 \text{ mm}$



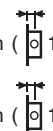
$\geq 465 \text{ mm}$



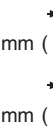
$\geq 370 \text{ mm}$



$\geq 360 \text{ mm}$



( $\varnothing$  15),  $\geq 455 \text{ mm}$



( $\varnothing$  6,5)



$\geq 470 \text{ mm}$



( $\varnothing$  15),  $\geq 530 \text{ mm}$



( $\varnothing$  6,5)

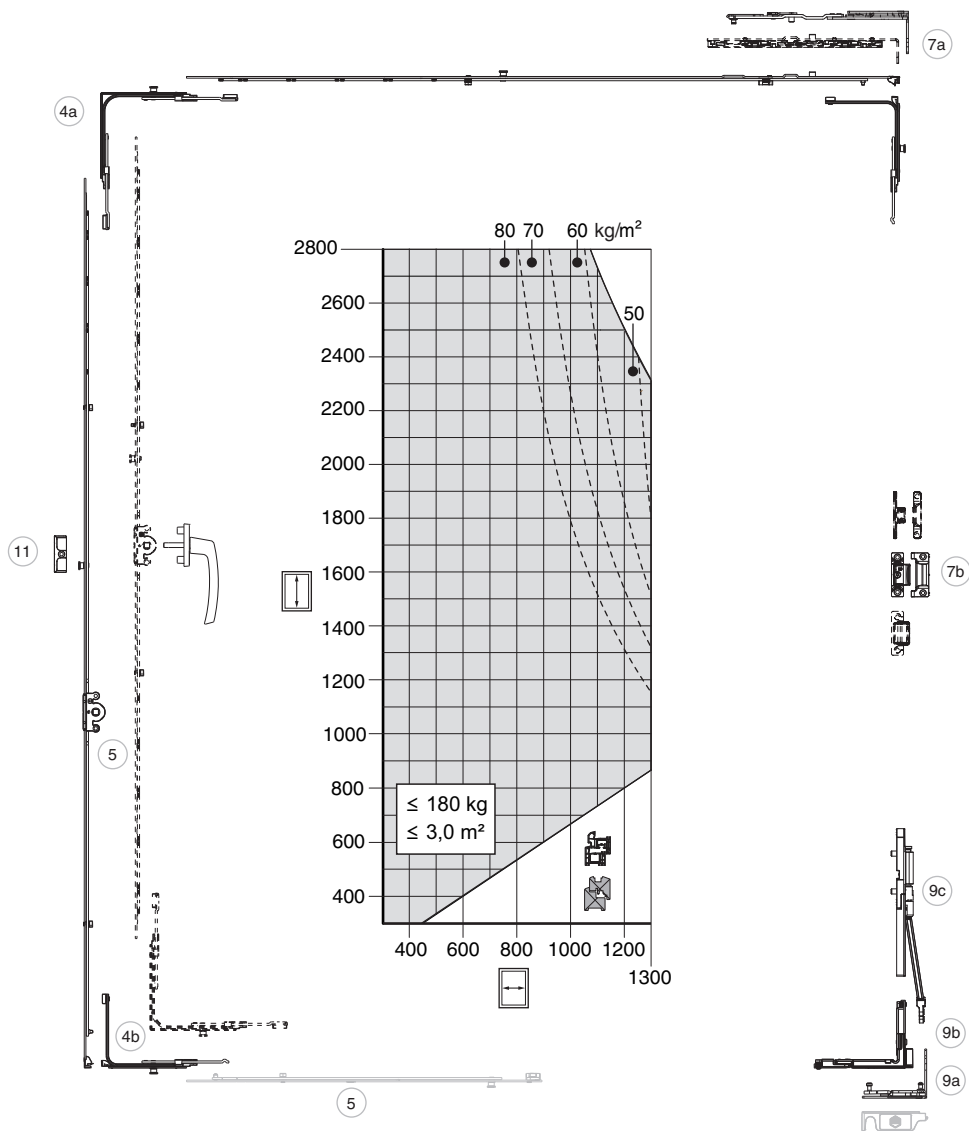
- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7a = Turn-only hinge faceplate fixed or croppable.
- 7b = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!
- 9 = Timber or PVC variant.
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

# Fundamental processing information

Selection guide		Page
3a	3.2.1.1 Turn-only drive gears BS 15 FHH i.S.	→155
3b	3.2.1.6 Turn-only drive gears BS 15 VHH i.S.	→156
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
7a	7.4.1 Turn-only and tilt-only hinge faceplates / turn-only and tilt-only hinge arms with hinge MULTI POWER	→208
7b	7.7 Compression devices	→213
9a	9.6.1 Pivot posts MULTI POWER	→244
9b	9.6.4 Rebated corner supports MULTI POWER	→244
11	11 Striker plates	→274



## 2.4.5.4 1-sashed rectangular turn-only window with fixed or croppable turn-only hinge faceplate and pivot post MULTI POWER and corner support MULTI POWER and load transfer



≤ 1300 x 2800 mm



≥ 465 mm



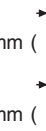
≥ 370 mm



≥ 360 mm ( 15),



≥ 455 mm ( 6,5)



≥ 470 mm ( 15),



≥ 530 mm ( 6,5)



- 3 = Drive gear FHH or VHH (Backset 15 or 6.5). Recommendation: Handle height should be between  $\frac{1}{3}$  and  $\frac{1}{2}$  of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7a = Turn-only hinge faceplate fixed or croppable.
- 7b = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!
- 9 = Timber or PVC variant.
- 9c = In timber, the use of a turn restrictor for MULTI POWER (item no. 103623 or item no. 103624) is required! Installation of the turn restrictor in accordance with package leaflet turn restrictor (order no. 750304).
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

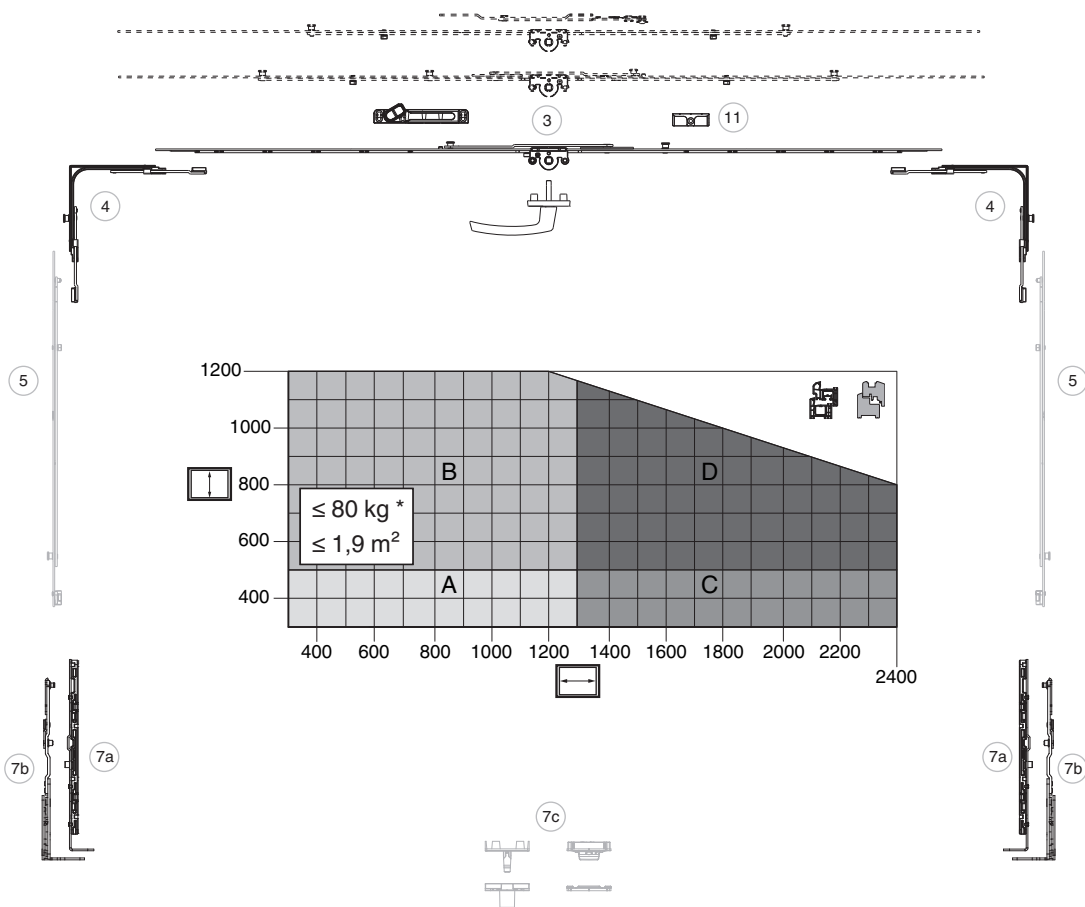


# Fundamental processing information

Selection guide		Page
3a	3.2.1.1 Turn-only drive gears BS 15 FHH i.S.	→155
3b	3.2.1.6 Turn-only drive gears BS 15 VHH i.S.	→156
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
7a	7.4.1 Turn-only and tilt-only hinge faceplates / turn-only and tilt-only hinge arms with hinge MULTI POWER	→208
7b	7.7 Compression devices	→213
9a	9.6.1 Pivot posts MULTI POWER	→244
9b	9.6.4 Rebated corner supports MULTI POWER	→244
9c	9.6.5 Load transfer MULTI POWER	→245
11	11 Striker plates	→274



## 2.4.5.5 1-sashed rectangular tilt-only window with tilt-only hinge arm MULTI POWER and fixed tilt-only hinge faceplate MULTI POWER



≤ 2400 x 1200 mm

≥ 255 mm

≥ 310 mm

≥ 455 mm

≥ 650 mm

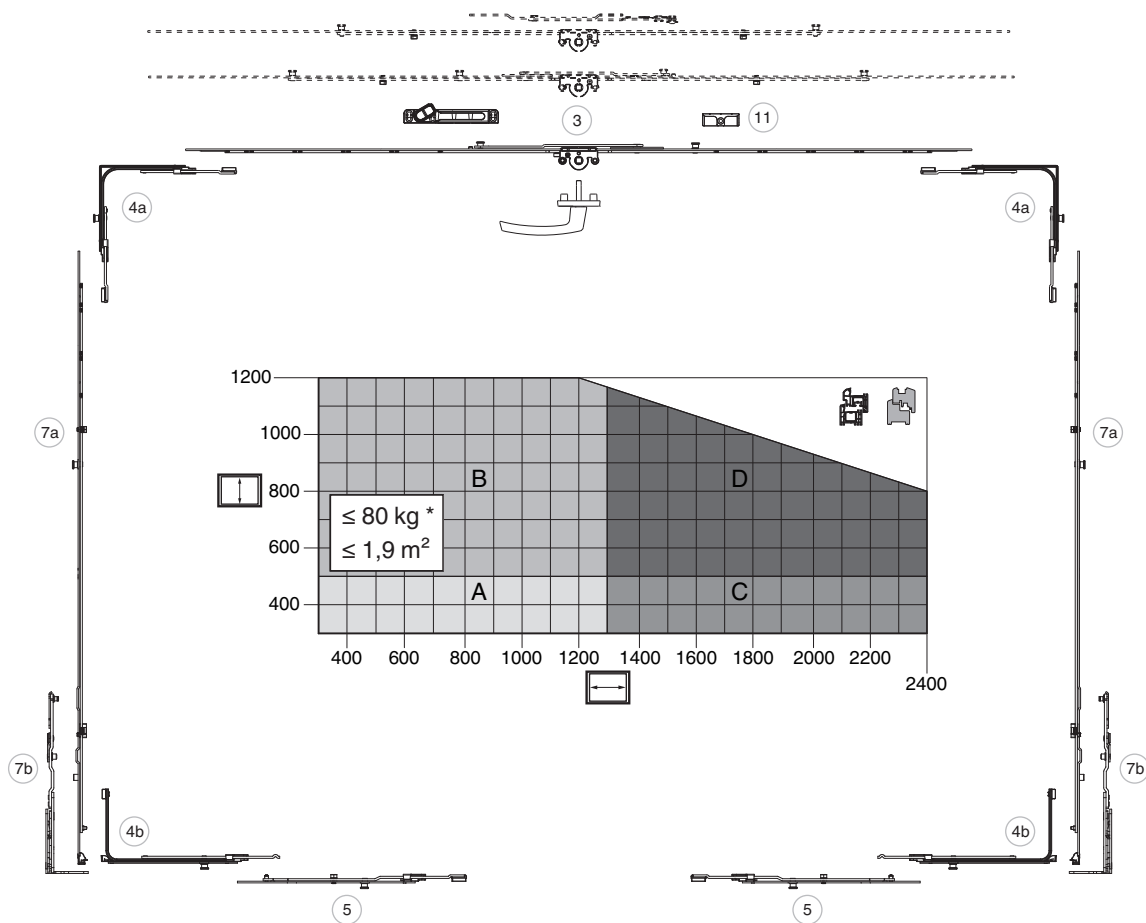
- A = 1 tilt stay + restrictor and cleaning stay size 1.
- B = 1 tilt stay + restrictor and cleaning stay size 2.
- C = 2 tilt stays + restrictor and cleaning stay size 1.
- D = 2 tilt stays + restrictor and cleaning stay size 2.
- \* = Mandatory installation of restrictor and cleaning stay (guideline FPKF at [www.schlossindustrie.de](http://www.schlossindustrie.de))! Observe application diagrams and max. load capacity for restrictor and cleaning stays!
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7c = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

# Fundamental processing information

Selection guide			Page
3	3.4	Espagnolettes	→162
4	4.1.1	Corner elements standard i.S.	→172
5	5.1	Centre locks FHH i.S.	→182
7a	7.4.1.1	Turn-only and tilt-only hinge faceplate fixed MULTI POWER	→208
7b	7.4.1.4	Tilt-only hinge arms with hinge MULTI POWER	→208
7c	7.7	Compression devices	→213
11	11	Striker plates	→274



## 2.4.5.6 1-sashed rectangular tilt-only window with tilt-only hinge arm MULTI POWER and croppable tilt-only hinge faceplate MULTI POWER



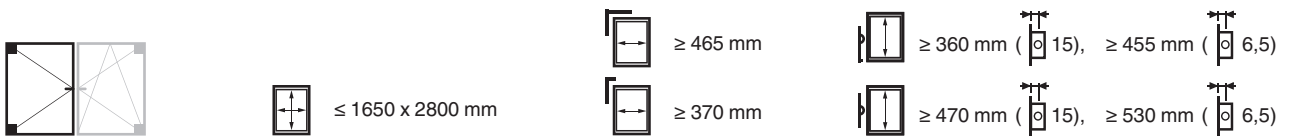
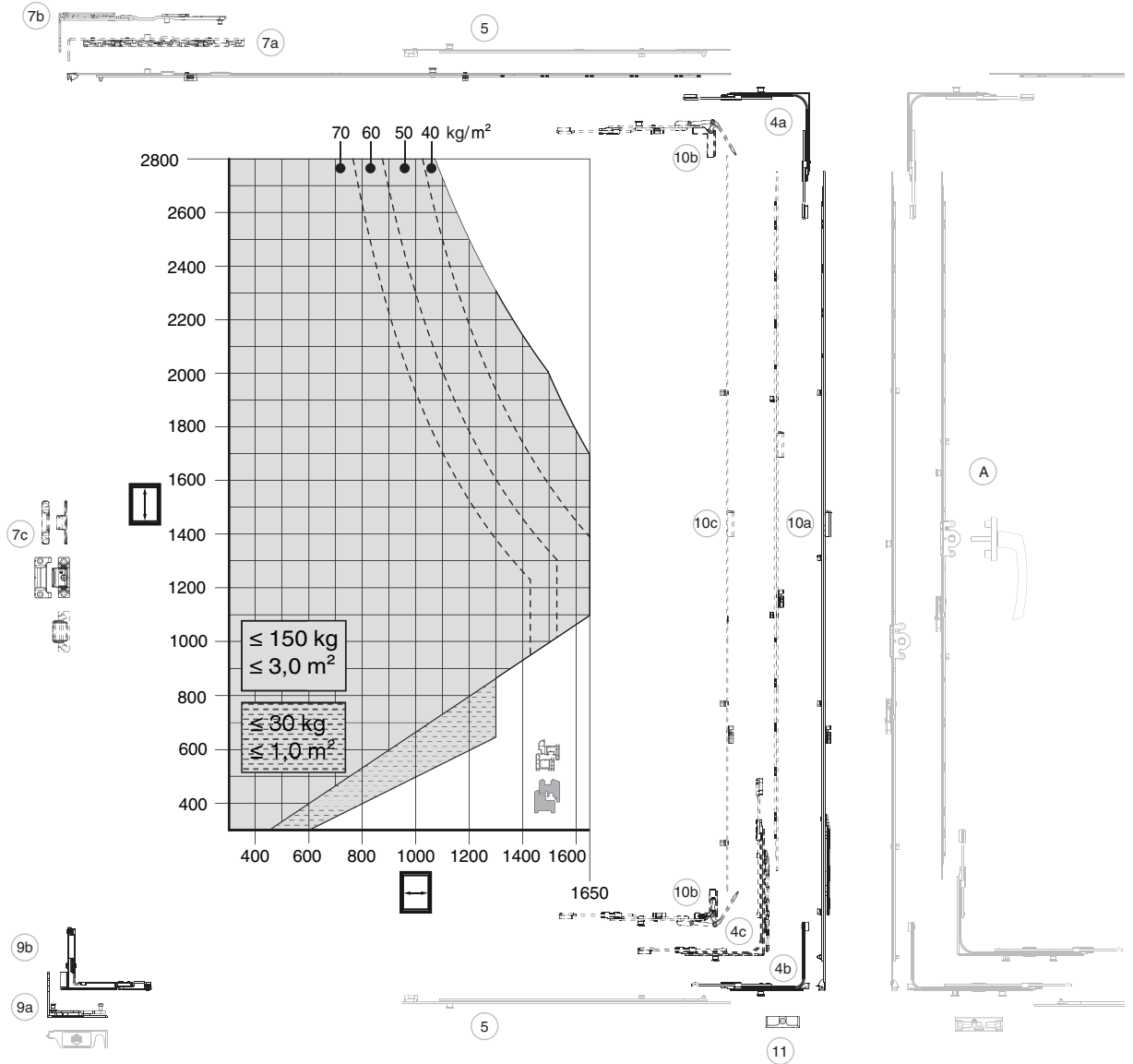
- A = 1 tilt stay + restrictor and cleaning stay size 1.
- B = 1 tilt stay + restrictor and cleaning stay size 2.
- C = 2 tilt stays + restrictor and cleaning stay size 1.
- D = 2 tilt stays + restrictor and cleaning stay size 2.
- \* = Mandatory installation of restrictor and cleaning stay (guideline FPKF at [www.schlossindustrie.de](http://www.schlossindustrie.de))! Observe application diagrams and max. load capacity for restrictor and cleaning stays!
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

# Fundamental processing information

Selection guide			Page
3	3.4	Espagnolettes	→162
4a	4.1.1	Corner elements standard i.S.	→172
4b	4.1.3	Corner elements vertical i.S.	→173
5	5.11	Faceplate extensions fixed and extendable	→185
7a	7.4.1.2	Turn-only hinge faceplates croppable MULTI POWER	→208
7b	7.4.1.4	Tilt-only hinge arms with hinge MULTI POWER	→208
11	11	Striker plates	→274



## 2.4.5.7 2-sashed rectangular T&T window with fixed or croppable turn-only hinge faceplate and pivot post MULTI POWER and corner support MULTI POWER



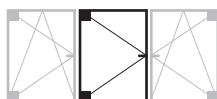
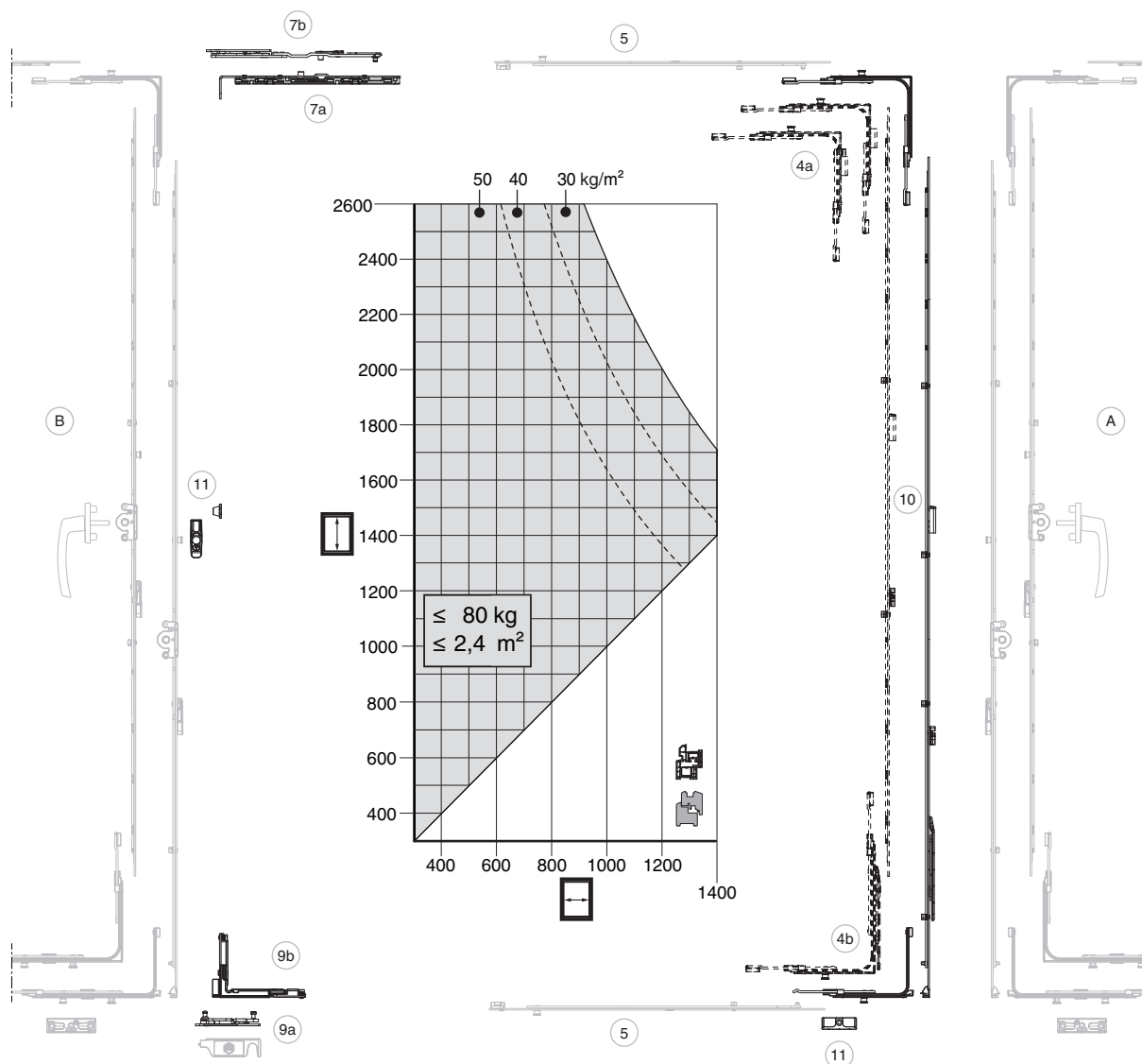
- A = For details refer to 1-sashed turn&tilt window.
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7a = Turn-only hinge faceplate fixed or croppable.
- 7c = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!
- 9 = Timber or PVC variant.
- 10a = French casement drive gear FHH or VHH.
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.


# Fundamental processing information


Selection guide		Page
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.3 Corner elements vertical i.S.	→173
4c	4.4 Corner elements i.S. for French casement drive gears	→175
5	5.1 Centre locks FHH i.S.	→182
7a	7.4.1.1 Turn-only and tilt-only hinge faceplate fixed MULTI POWER	→208
7b	7.4.1.3 Turn-only hinge arms with hinge MULTI POWER	→208
7c	7.7 Compression devices	→213
9a	9.6.1 Pivot posts MULTI POWER	→244
9b	9.6.4 Rebated corner supports MULTI POWER	→244
10a	10.1.5 Horizontal French casement locks	→259
10b	10.2 French casement drive gears	→261
10c	10.3 Single piece door striker	→268
11	11 Striker plates	→274





## 2.4.5.8 3-sashed rectangular turn-only window with pivot post MULTI POWER and corner support MULTI POWER



 ≤ 1400 x 2600 mm

 ≥ 465 mm

 ≥ 360 mm (∅ 15), ≥ 455 mm (∅ 6,5)  
 ≥ 470 mm (∅ 15), ≥ 530 mm (∅ 6,5)

- A = For details refer to 1-sashed turn-only or turn&tilt window.
- B = For details refer to 1-sashed turn-only or turn&tilt window. Drive gear with tilt lock bolt not possible!
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7b = Timber or PVC variant.
- 9 = Timber or PVC variant.
- 10 = French casement drive gear FHH or VHH.
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

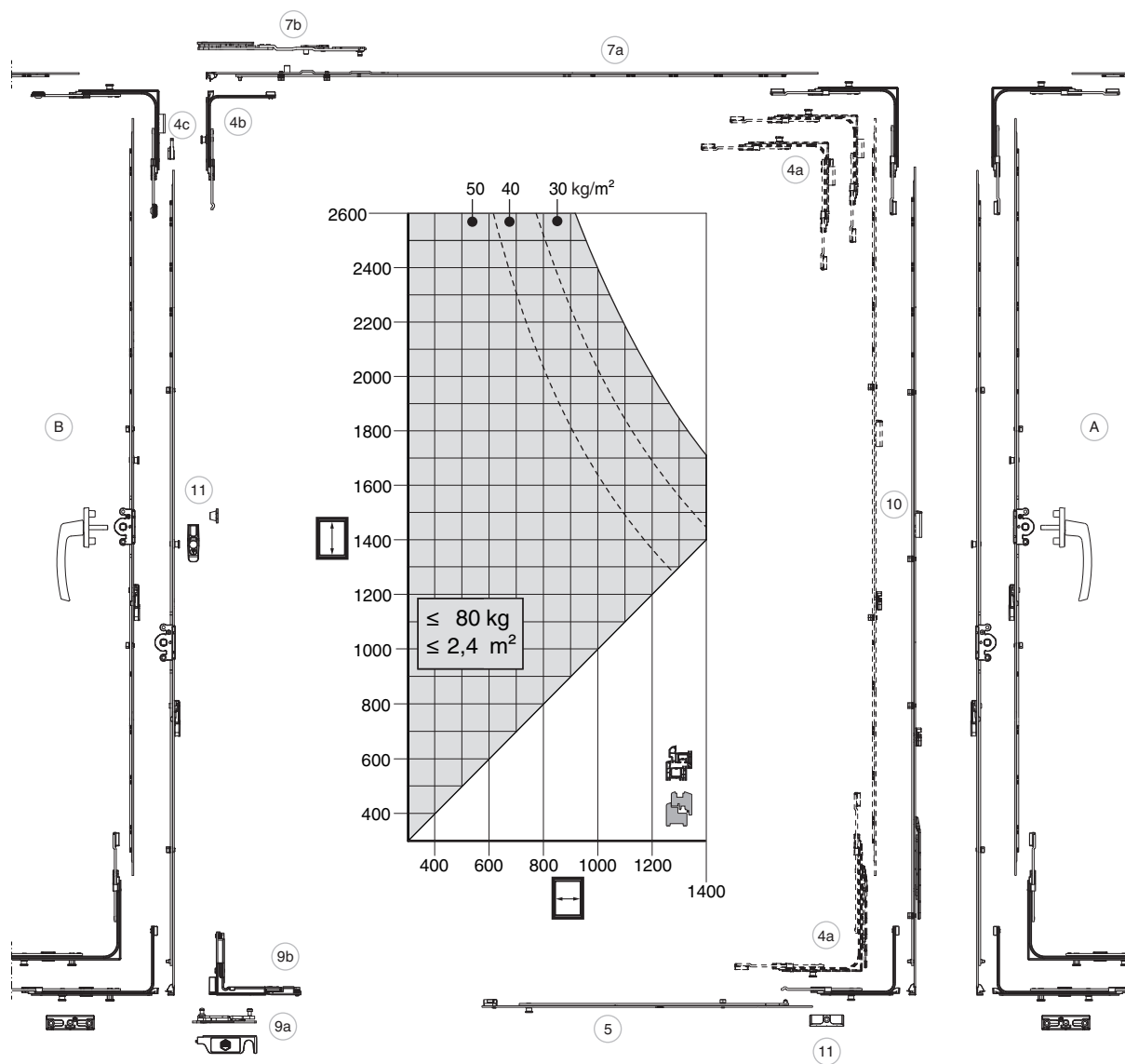


# Fundamental processing information


Selection guide		Page
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
7a	7.4.1.1 Turn-only and tilt-only hinge faceplate fixed MULTI POWER	→208
7b	7.4.1.5 Turn-only hinge arms with hinge for 3-sashed windows MULTI POWER	→209
9a	9.6.3 Pivot posts for 3-sashed windows MULTI POWER	→244
9b	9.6.4 Rebated corner supports MULTI POWER	→244
10	10.2 French casement drive gears	→261
11	11 Striker plates	→274





## 2.4.5.9 3-sashed rectangular turn-only window with operation lock with pivot post MULTI POWER and corner support MULTI POWER



  $\leq 1400 \times 2600 \text{ mm}$

  $\geq 465 \text{ mm}$

  $\geq 360 \text{ mm}$  ( $\varnothing 15$ ),  $\geq 455 \text{ mm}$  ( $\varnothing 6,5$ )  
  $\geq 470 \text{ mm}$  ( $\varnothing 15$ ),  $\geq 530 \text{ mm}$  ( $\varnothing 6,5$ )

- A = For details refer to 1-sashed turn-only or turn&tilt window.
- B = For details refer to 1-sashed turn-only or turn&tilt window.
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7b = Timber or PVC variant.
- 9 = Timber or PVC variant.
- 10 = French casement drive gear FHH or VHH.
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.

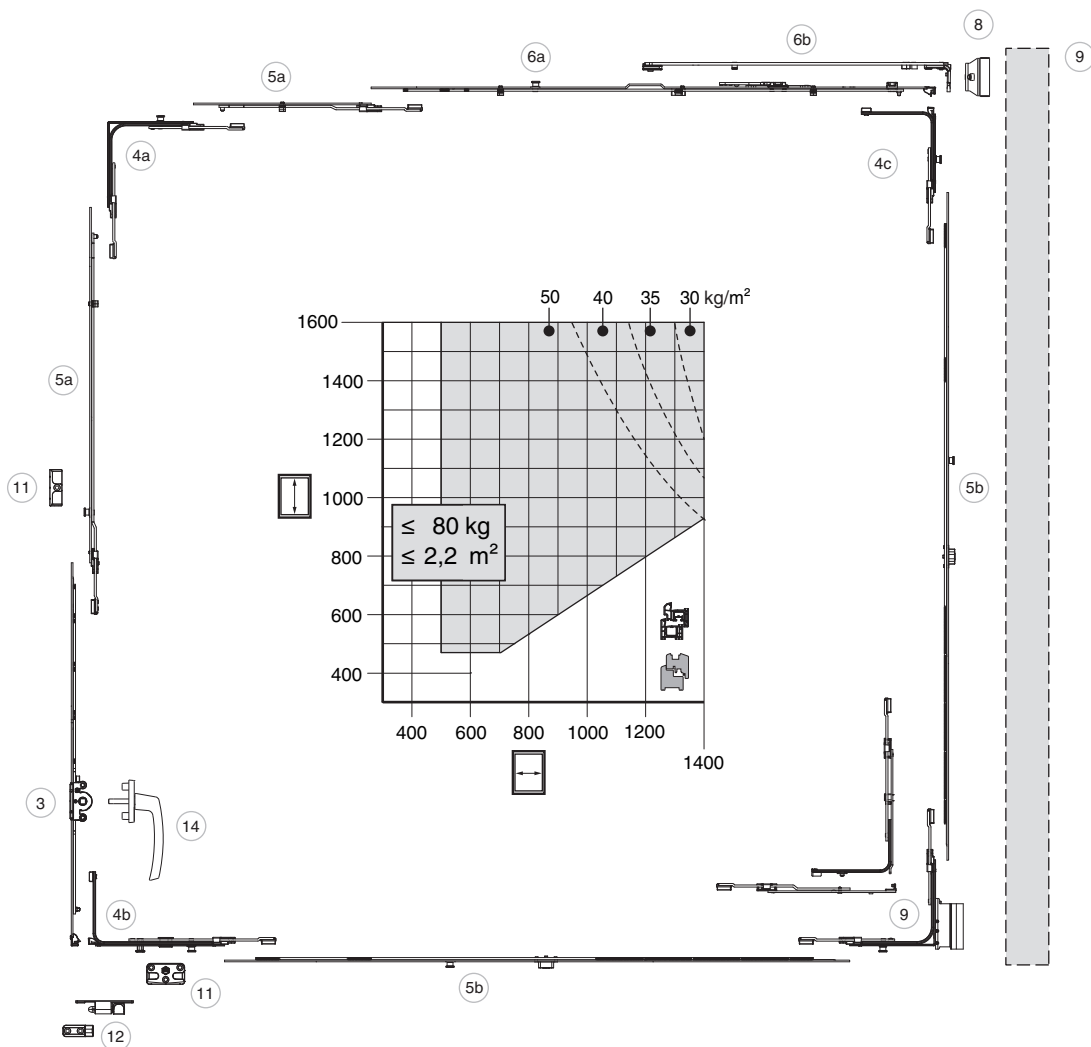
# Fundamental processing information

Selection guide		Page
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.3 Corner elements vertical i.S.	→173
4c	4.10.10 Insert as operation lock for corner element for 3-sashed elements	→179
5	5.1 Centre locks FHH i.S.	→182
7a	7.4.1.2 Turn-only hinge faceplates croppable MULTI POWER	→208
7b	7.4.1.5 Turn-only hinge arms with hinge for 3-sashed windows MULTI POWER	→209
9a	9.6.3 Pivot posts for 3-sashed windows MULTI POWER	→244
9b	9.6.4 Rebated corner supports MULTI POWER	→244
10	10.2 French casement drive gears	→261
11	11 Striker plates	→274



## 2.4.6 COMFORT

### 2.4.6.1 1-sashed rectangular T&T window with comfort scissor stay, vertical handle position



≤ 1400 x 1600 mm



≥ 600 mm



≥ 500 mm



≥ 470 mm

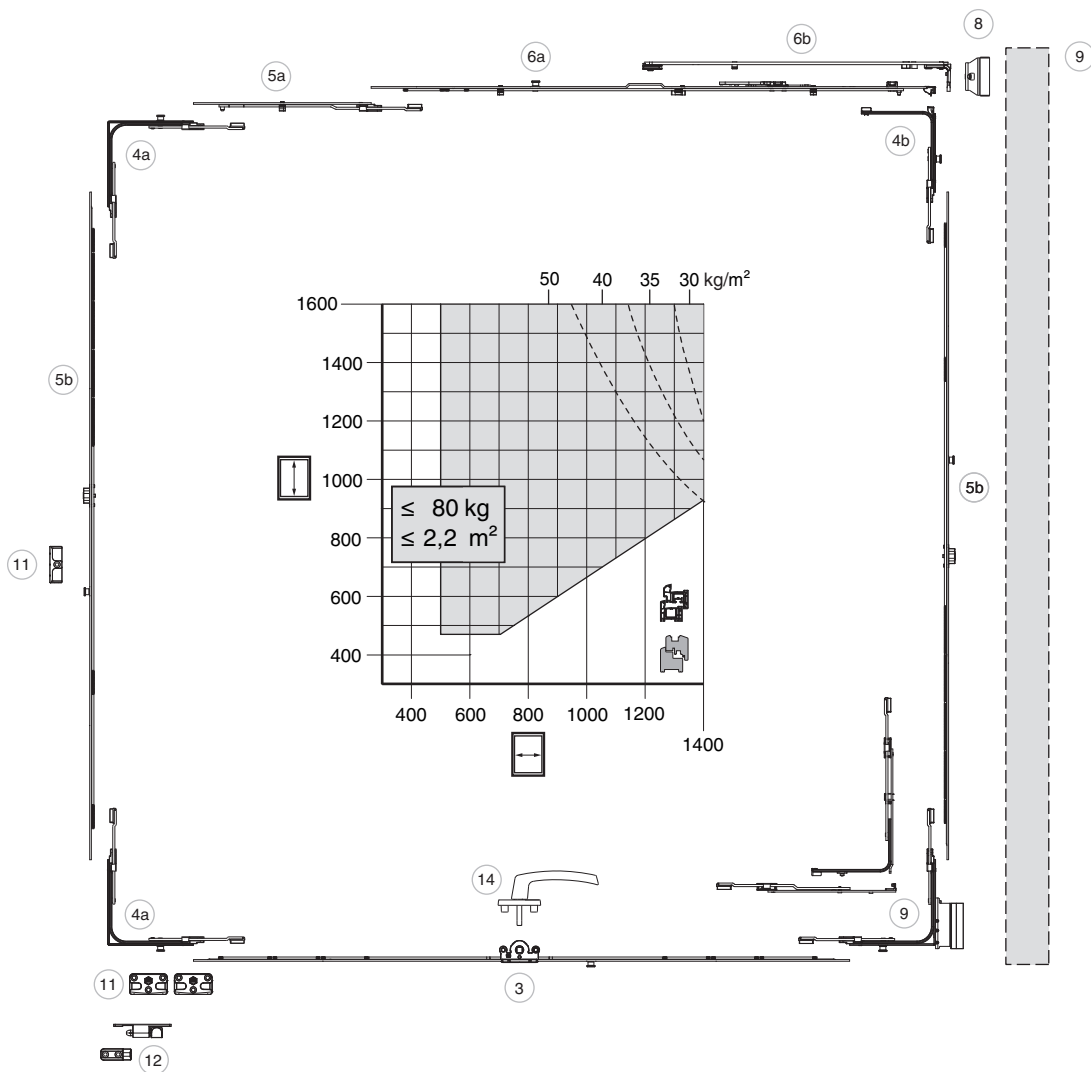
- 9 = Refer to matrix pivot posts PVC and timber for possible bearing types.
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.
- 12 = Mandatory installation of turn lock.
- 14 = SKB handle (refer to EMOTION catalogue).

# Fundamental processing information

Selection guide		Page
3	3.2.1.1 Turn-only drive gears BS 15 FHH i.S.	→155
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.2 Corner elements horizontal i.S.	→172
4c	4.1.3 Corner elements vertical i.S.	→173
5a	5.2 Centre locks extendable i.S.	→182
5b	5.20 Width connectors SKB-S/SE	→186
6a	6.4.1 Scissor stay faceplates for comfort scissor stay	→199
6b	6.4.2 Rebated scissor stay arms for comfort scissor stay	→199
8	8 Scissor stay hinges	→220
9	9.1 Matrix for pivot posts and corner supports	→228
11	11 Striker plates	→274
12	12.3 Self-catching turn locks	→296



## 2.4.6.2 1-sashed rectangular T&T window with comfort scissor stay, horizontal handle position



$\leq 1400 \times 1600 \text{ mm}$

$\geq 600 \text{ mm}$   
 $\geq 500 \text{ mm}$

$\geq 470 \text{ mm}$

- 9 = Refer to matrix pivot posts PVC and timber for possible bearing types.
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.
- 12 = Mandatory installation of turn lock.
- 14 = SKB handle (refer to EMOTION catalogue).

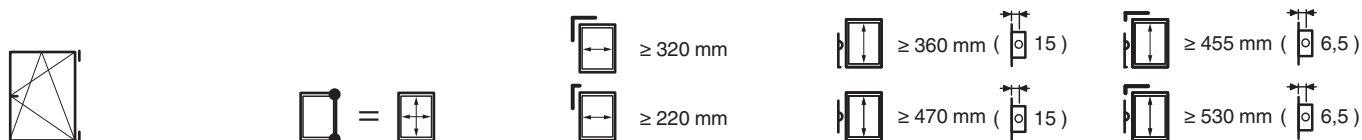
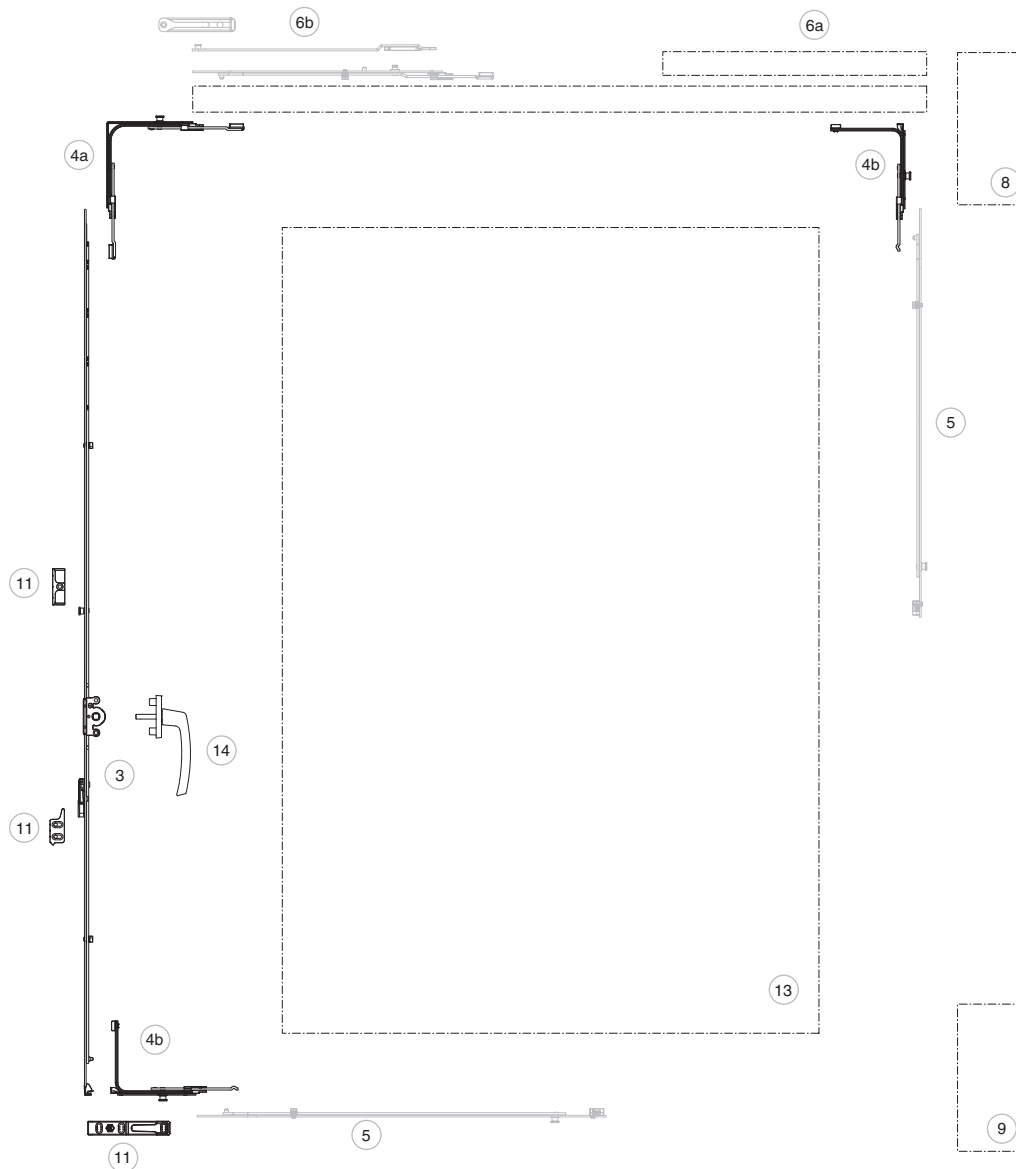
# Fundamental processing information

Selection guide		Page
3	3.2.1.6 Turn-only drive gears BS 15 VHH i.S.	→156
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.3 Corner elements vertical i.S.	→173
5a	5.2 Centre locks extendable i.S.	→182
5b	5.20 Width connectors SKB-S/SE	→186
6a	6.4.1 Scissor stay faceplates for comfort scissor stay	→199
6b	6.4.2 Rebated scissor stay arms for comfort scissor stay	→199
8	8 Scissor stay hinges	→220
9	9.1 Matrix for pivot posts and corner supports	→228
11	11 Striker plates	→274
12	12.3 Self-catching turn locks	→296



## 2.4.7 Central locking system for tilt-first window

### 2.4.7.1 1-sashed rectangular tilt-first window with drive-gear FHH



- 3 = Drive gears BS 15 or 6.5. Recommendation: Handle height should be between 1/3 and 1/2 of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 6a = Rebated scissor stay or scissor stay faceplate and scissor stay arm according to used hinge side. For hinge sides MULTI MAMMUT not possible!
- 6b = For stabilizing scissor stay refer to turn&tilt hardware overview according to corresponding hinge side.
- 8 = Scissor stay hinge according to used hinge side.
- 9 = For possible pivot post combinations refer to matrix. For hinge sides MULTI MAMMUT not possible!
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.
- 13 = Application diagram according to used hinge side.
- 14 = Tilt before turn handle (refer to EMOTION catalogue).

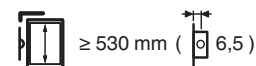
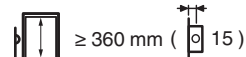
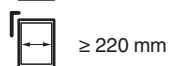
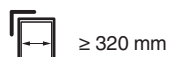
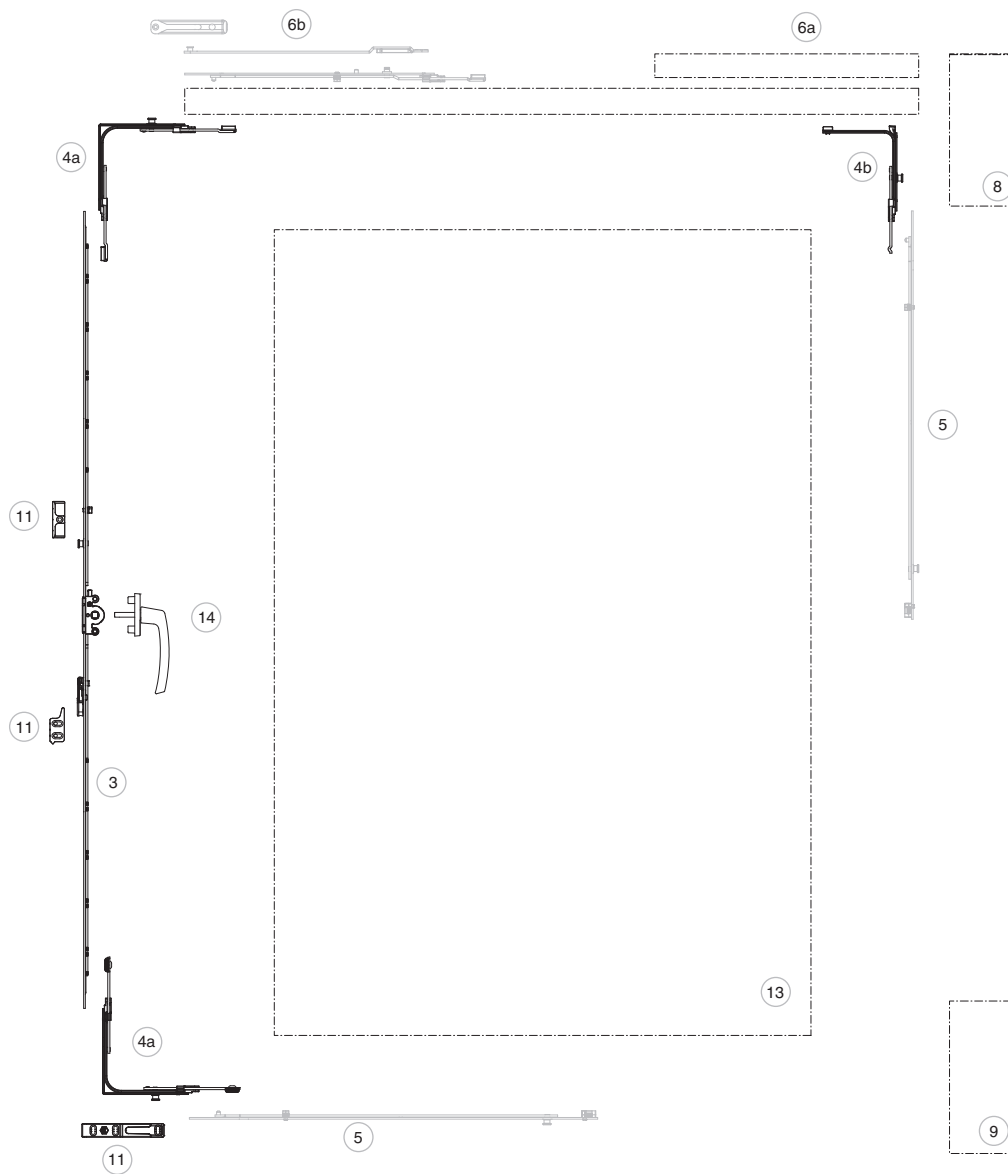


# Fundamental processing information

Selection guide		Page
3	3.1.1.1 T&T drive gears BS 15 FHH i.S.	→144
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
6a	6.1 Rebated scissor stays	→190
6b	6.8.3 Stabilizing scissor stays for tilt-first windows	→201
8	8 Scissor stay hinges	→220
9	9 Pivot posts	→228
11	11 Striker plates	→274



## 2.4.7.2 1-sashed rectangular tilt-first window with drive-gear VHH



- 3 = Drive gears BS 15 or 6.5. Recommendation: Handle height should be between 1/3 and 1/2 of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 6a = Rebated scissor stay or scissor stay faceplate and scissor stay arm according to used hinge side. For hinge sides MULTI MAMMUT not possible!
- 6b = For stabilizing scissor stay refer to turn&tilt hardware overview according to corresponding hinge side.
- 8 = Scissor stay hinge according to used hinge side.
- 9 = For possible pivot post combinations refer to matrix. For hinge sides MULTI MAMMUT not possible!
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.
- 13 = Application diagram according to used hinge side.
- 14 = Tilt before turn handle (refer to EMOTION catalogue).

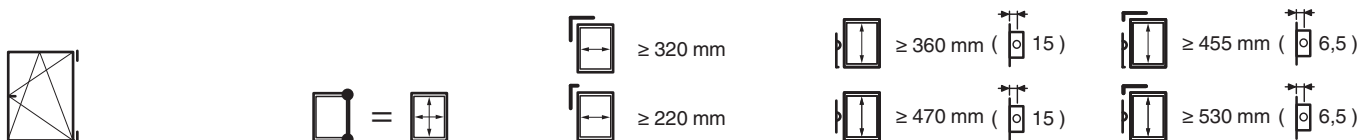
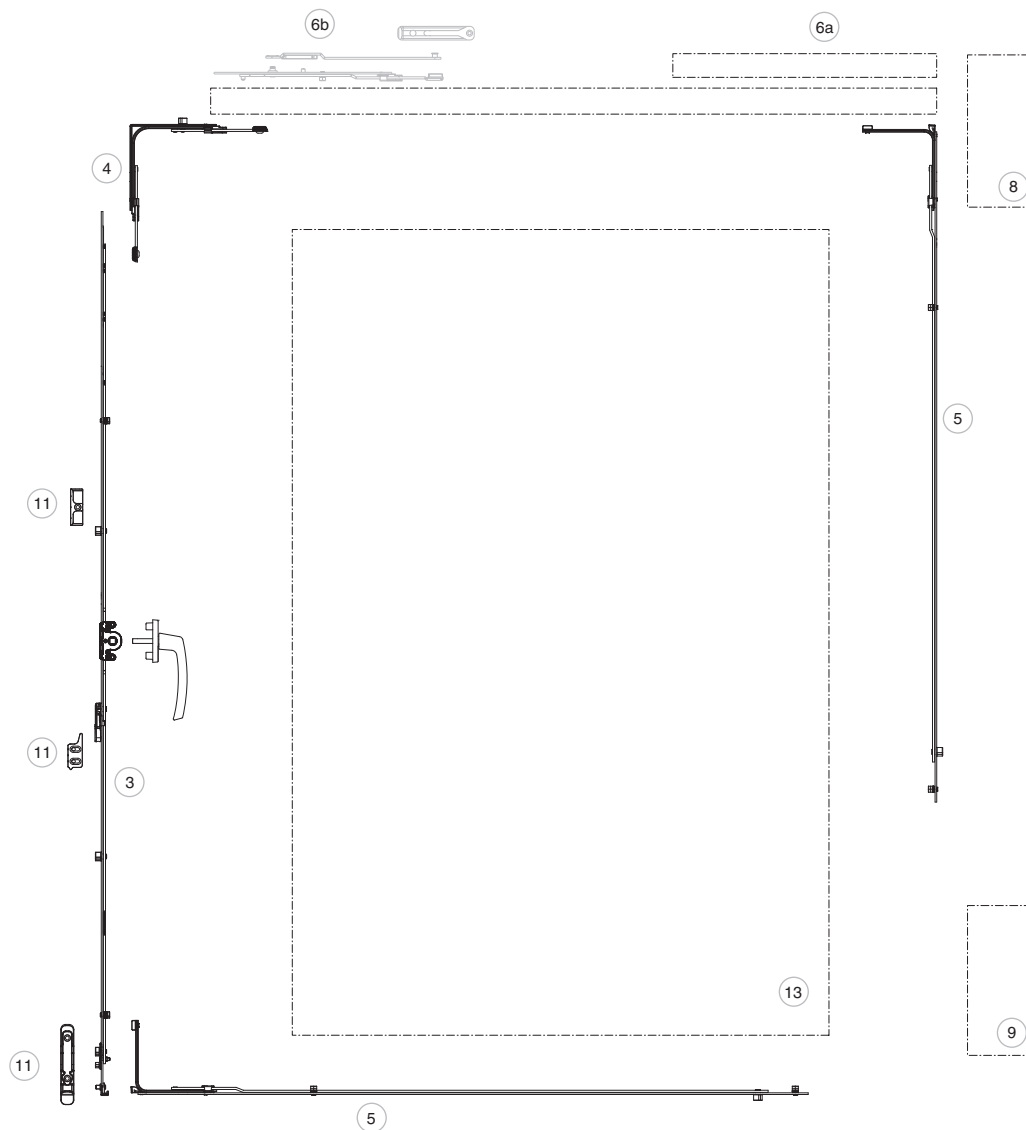
# Fundamental processing information

Selection guide		Page
3	3.1.1.9 T&T drive gears BS 15 VHH i.S.	→146
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
6a	6.1 Rebated scissor stays	→190
6b	6.8.3 Stabilizing scissor stays for tilt-first windows	→201
8	8 Scissor stay hinges	→220
9	9 Pivot posts	→228
11	11 Striker plates	→274



## 2.4.8 Central locking system for MM-KS (with tilt lock bolt)

### 2.4.8.1 1-sashed rectangular T&T window with drive-gear FHH



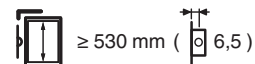
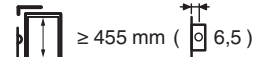
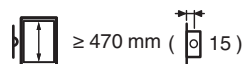
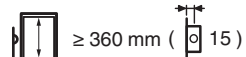
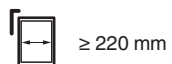
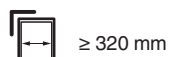
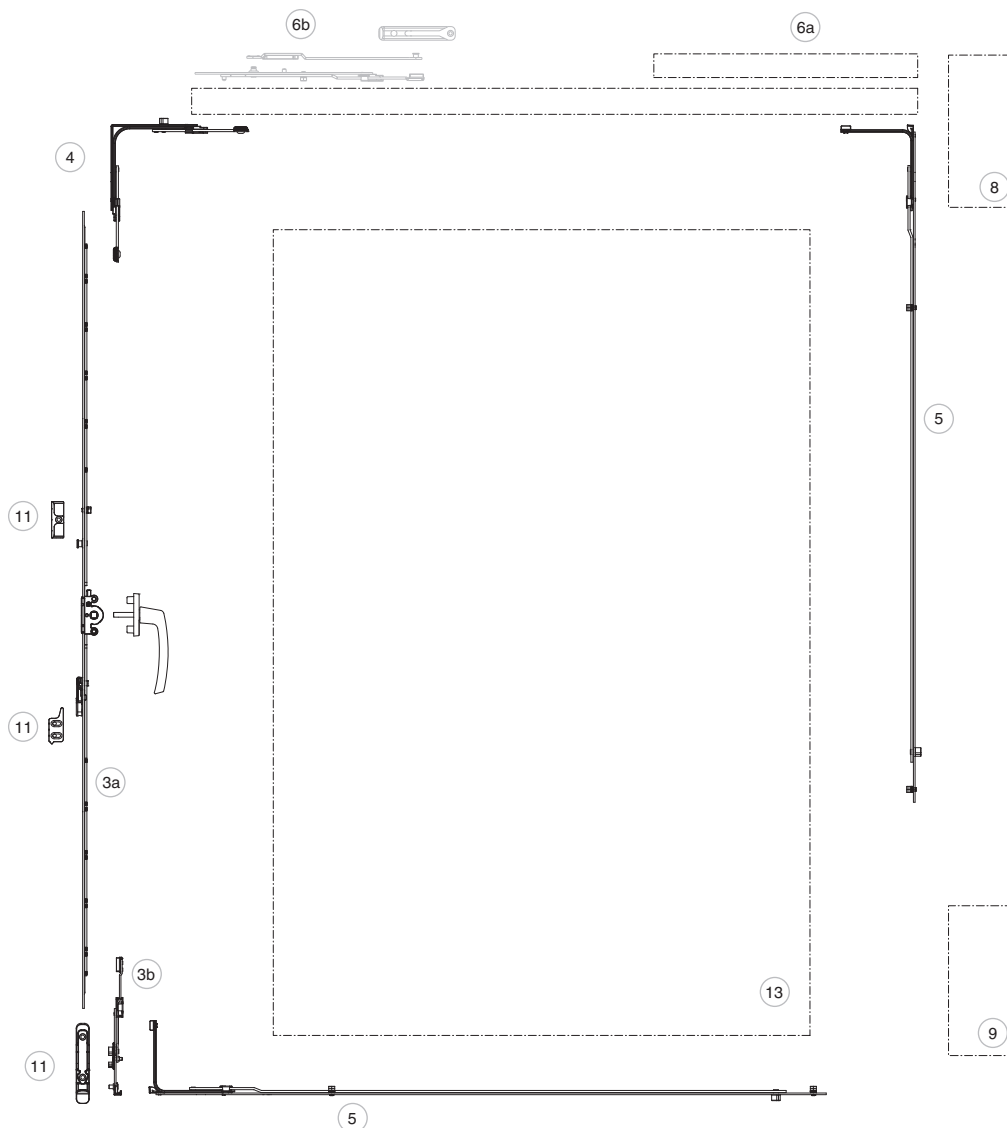
- 3 = Drive gears BS 15 or 6.5. Recommendation: Handle height should be between 1/3 and 1/2 of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 6b = Stabilizing scissor stay necessary from 1,301 mm (dark shading in application range diagram).
- 8 = Scissor stay hinge according to used hinge side.
- 9 = For possible pivot post combinations refer to matrix.
- 11 = Refer to profile data sheets for striker plates, sash lifters and tilt striker plates for PVC.
- 13 = Application diagram according to used hinge side.

# Fundamental processing information

Selection guide		Page
3	3.1.1.3 T&T drive gears BS 15 FHH VZ with tilt lock bolt	→145
4	4.2 Corner elements VZ	→174
5	5.7 Centre locks single piece VZ	→183
6a	6.1.10 Rebated scissor stays VZ	→193
6b	6.8.1 Stabilizing scissor stays	→201
8	8 Scissor stay hinges	→220
9	9 Pivot posts	→228
11	11 Striker plates	→274



## 2.4.8.2 1-sashed rectangular T&T window with drive-gear VHH



- 3a = Drive gears BS 15 or 6.5. Recommendation: Handle height should be between 1/3 and 1/2 of sash rebate height (SRH).
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 6b = Stabilizing scissor stay necessary from 1,301 mm (dark shading in application range diagram).
- 8 = Scissor stay hinge according to used hinge side.
- 9 = For possible pivot post combinations refer to matrix.
- 11 = Refer to profile data sheets for striker plates, sash lifters and tilt striker plates for PVC.
- 13 = Application diagram according to used hinge side.

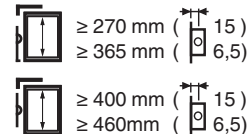
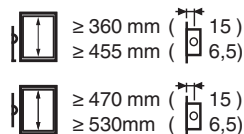
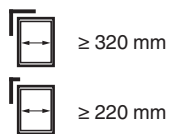
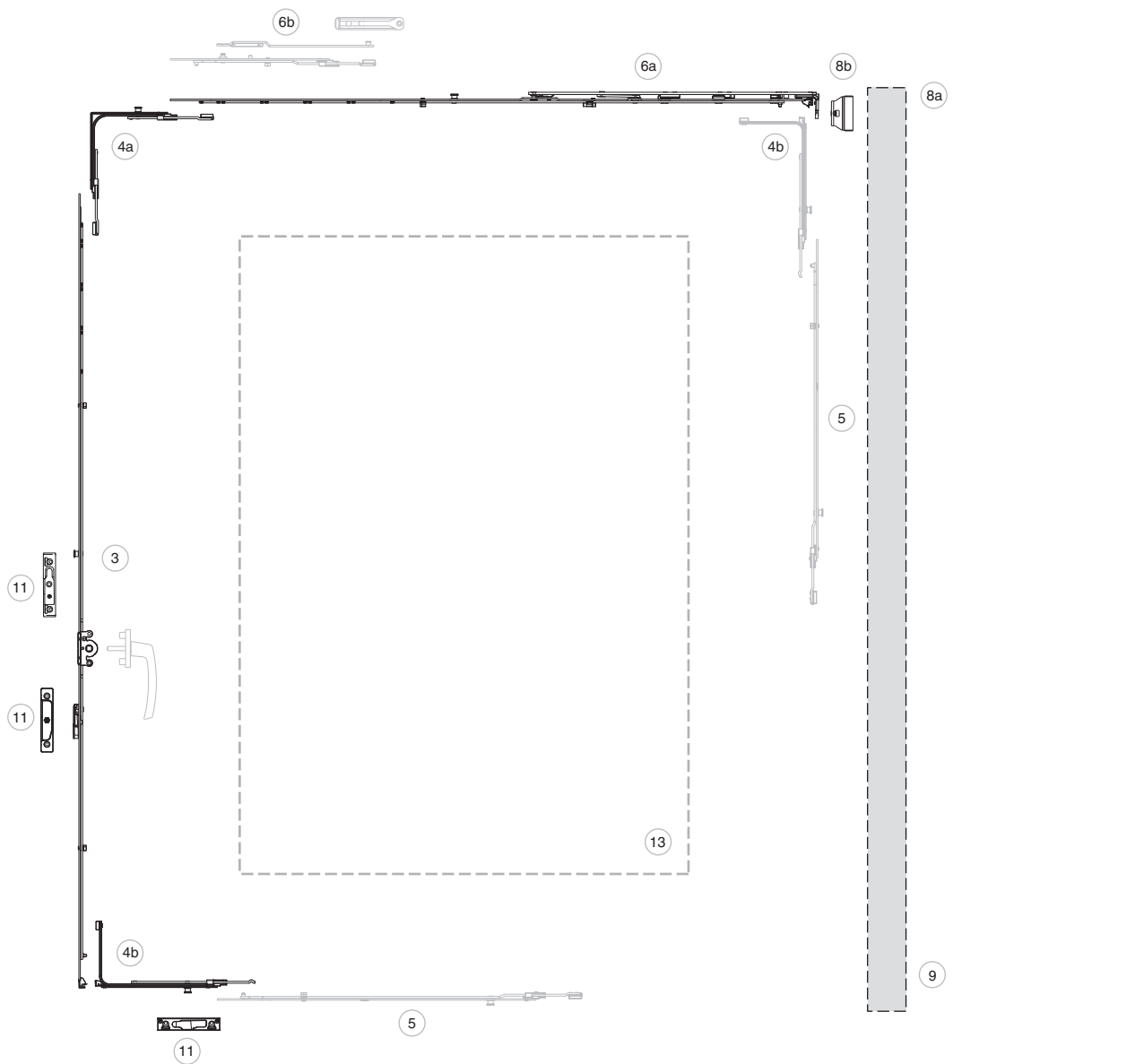
# Fundamental processing information

Selection guide		Page
3a	3.1.1.10T&T drive gears BS 15 VHH VZ	→146
3b	3.5.4 End pieces with tilt lock bolt	→167
4	4.2 Corner elements VZ	→174
5	5.7 Centre locks single piece VZ	→183
6a	6.1.10 Rebated scissor stays VZ	→193
6b	6.8.1 Stabilizing scissor stays	→201
8	8 Scissor stay hinges	→220
9	9 Pivot posts	→228
11	11 Striker plates	→274



## 2.4.9 Central locking system for 4 mm air gap

### 2.4.9.1 1-sashed rectangular T&T window with drive-gear FHH



- 3 = Drive gear backset 15, backset 6.5 or special backset. Recommendation: Handle height should be between 1/3 and 1/2 of sash rebate height (SRH).
- 4b = Item no. 222208 can be used also for installation position scissor stay hinge, except for scissor stay hinge DT and routed scissor stay hinge.
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 6a = Rebated scissor stay with or without night-vent (for hinge sides PVC, AS, DT130, DT160) respectively scissor stay MULTI MAMMUT or MULTI POWER.
- 6b = Stabilizing scissor stay according to hinge side (dark shaded area in the diagram).
- 8 = For scissor stay hinge and rebated scissor stay support arm refer to hinge side.
- 9 = For pivot post refer to hinge side.
- 13 = Application diagram according to used hinge side.

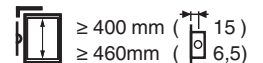
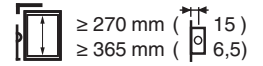
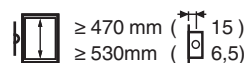
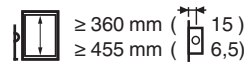
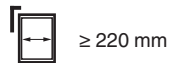
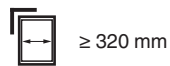
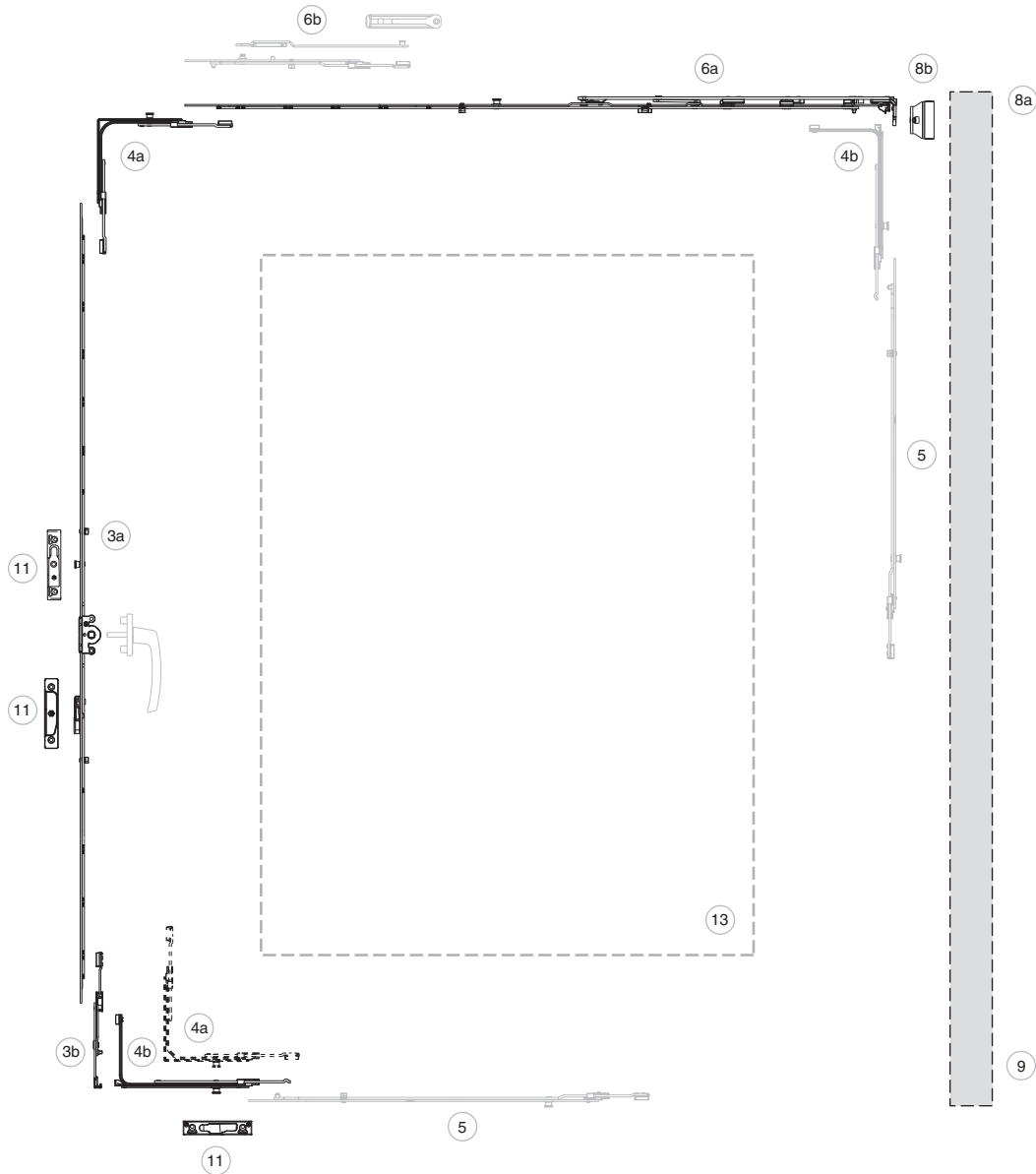


# Fundamental processing information

Selection guide		Page
3	3.1.1.1 T&T drive gears BS 15 FHH i.S.	→144
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
6a	6.1 Rebated scissor stays	→190
6b	6.8.1 Stabilizing scissor stays	→201
8a	8.5.1 Scissor stay hinges DT130	→222
8b	8.5.3 Rebated scissor stay support arms DTuni	→223
9	9.4 Pivot posts DT	→237
11	11.1.1 Striker plates 4 mm air gap	→274



## 2.4.9.2 1-sashed rectangular T&T window with drive-gear VHH



- 3 = Drive gear backset 15, backset 6.5 or special backset. Recommendation: Handle height should be between 1/3 and 1/2 of sash rebate height (SRH).
- 4b = Item no. 222208 can be used also for installation position scissor stay hinge, except for scissor stay hinge DT and routed scissor stay hinge.
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 6a = Rebated scissor stay with or without night-vent (for hinge sides PVC, AS, DT130, DT160) respectively scissor stay MULTI MAMMUT or MULTI POWER.
- 6b = Stabilizing scissor stay according to hinge side (dark shaded area in the diagram).
- 8 = For scissor stay hinge and rebated scissor stay support arm refer to hinge side.
- 9 = For pivot post refer to hinge side.
- 13 = Application diagram according to used hinge side.

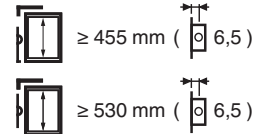
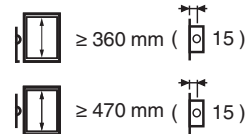
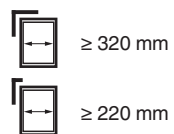
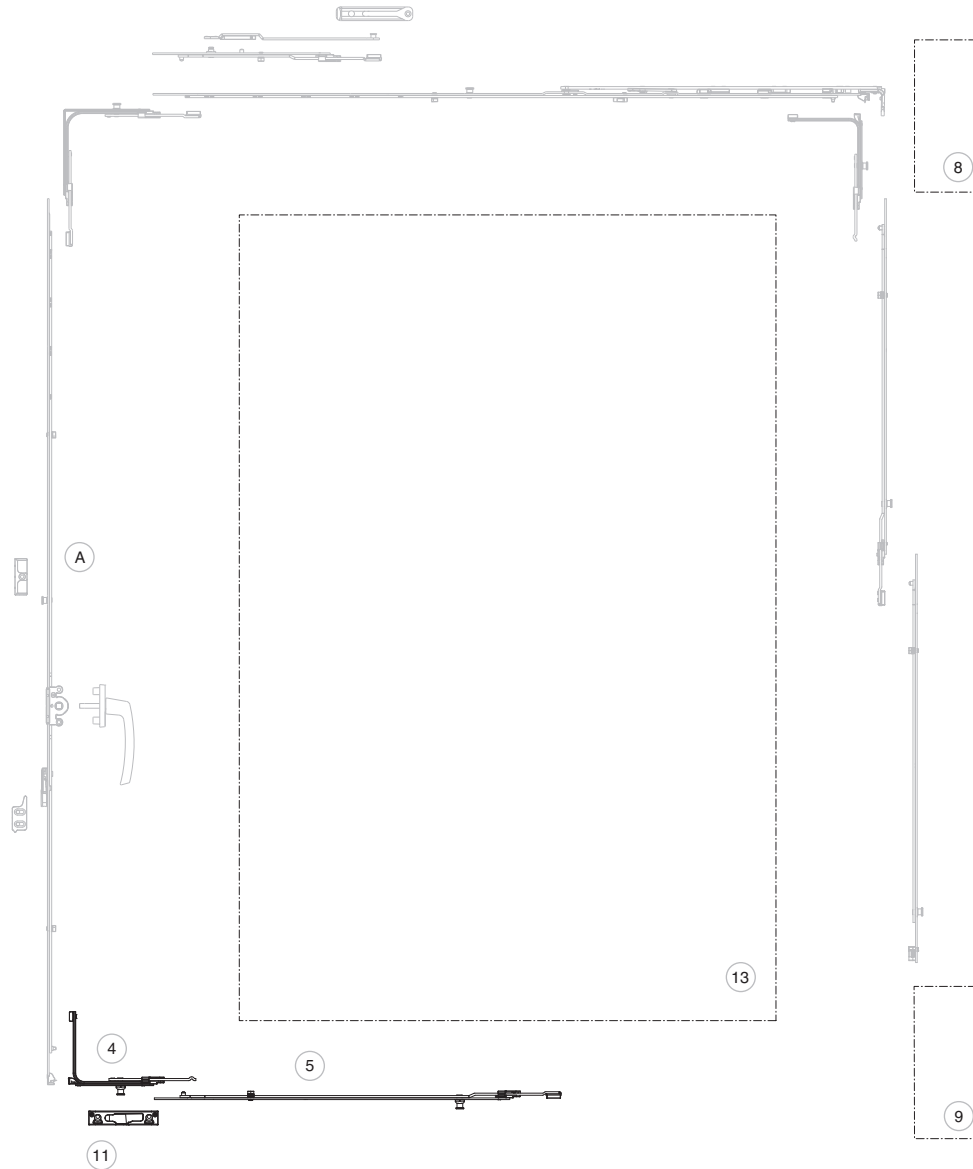
# Fundamental processing information

Selection guide		Page
3a	3.1.1.9 T&T drive gears BS 15 VHH i.S.	→146
3b	3.5.4 End pieces with tilt lock bolt	→167
4a	4.1.1 Corner elements standard i.S.	→172
4b	4.1.3 Corner elements vertical i.S.	→173
5	5.1 Centre locks FHH i.S.	→182
6a	6.1 Rebated scissor stays	→190
6b	6.8.1 Stabilizing scissor stays	→201
8a	8.5.1 Scissor stay hinges DT130	→222
8b	8.5.3 Rebated scissor stay support arms DTuni	→223
9	9.4 Pivot posts DT	→237
11	11.1.1 Striker plates 4 mm air gap	→274



## 2.4.10 Central locking system for threshold

### 2.4.10.1 1-sashed rectangular T&T casement door with drive-gear FHH



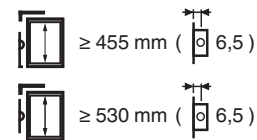
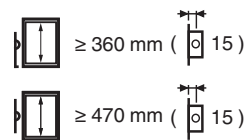
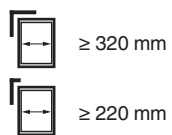
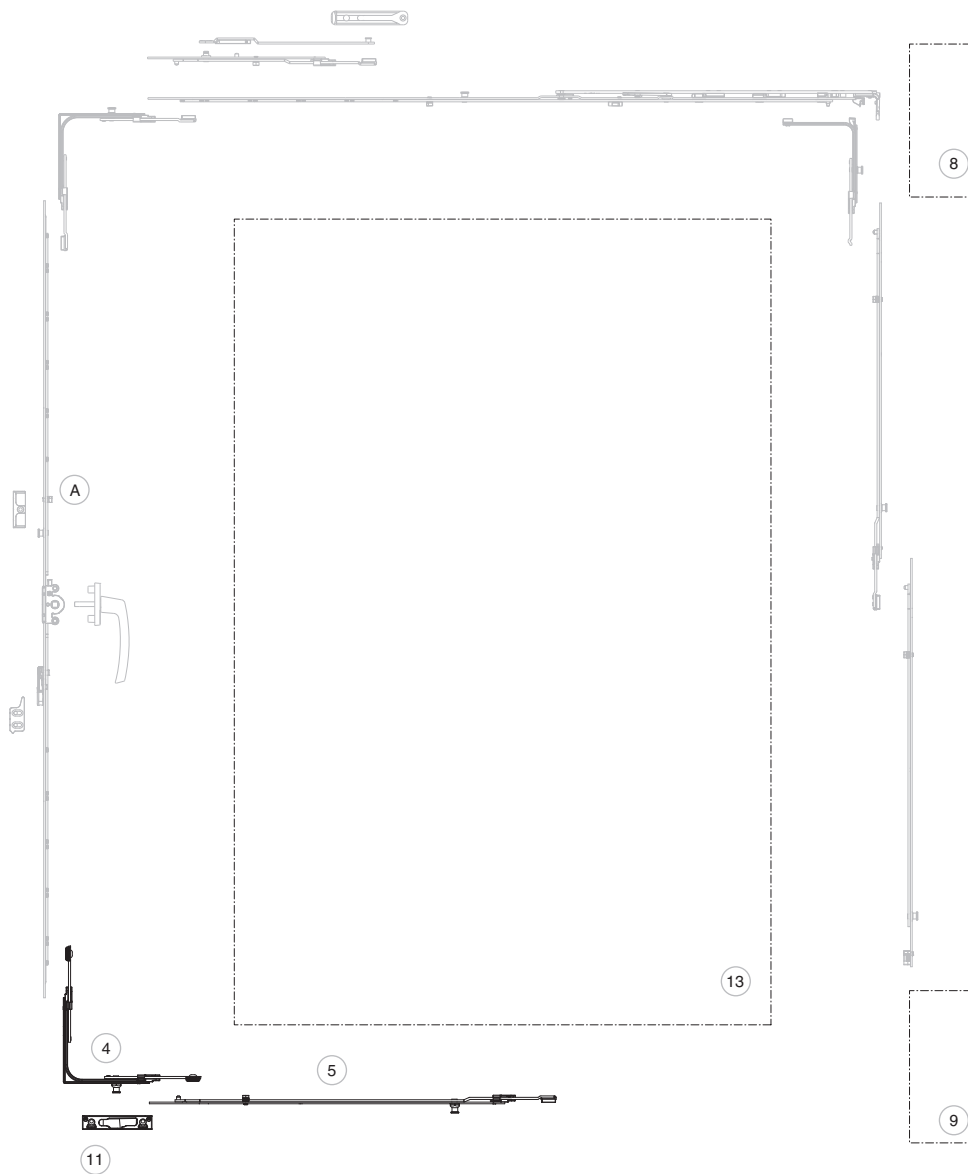
- A = Central locking system.
- 8 = Scissor stay hinge according to used hinge side.
- 9 = For possible pivot post combinations refer to matrix.
- 11 = Refer to profile data sheets for tilt striker plate.
- 13 = Application diagram according to used hinge side.

# Fundamental processing information

Selection guide			Page
4	4.8	Corner element for threshold 14 mm air gap	→177
5	5.15	Centre locks for threshold 14 mm air gap	→186
8	8	Scissor stay hinges	→220
9	9	Pivot posts	→228



## 2.4.10.2 1-sashed rectangular T&T casement door with drive-gear VHH



- A = Central locking system.
- 8 = Scissor stay hinge according to used hinge side.
- 9 = For possible pivot post combinations refer to matrix.
- 11 = Refer to profile data sheets for tilt striker plate.
- 13 = Application diagram according to used hinge side.

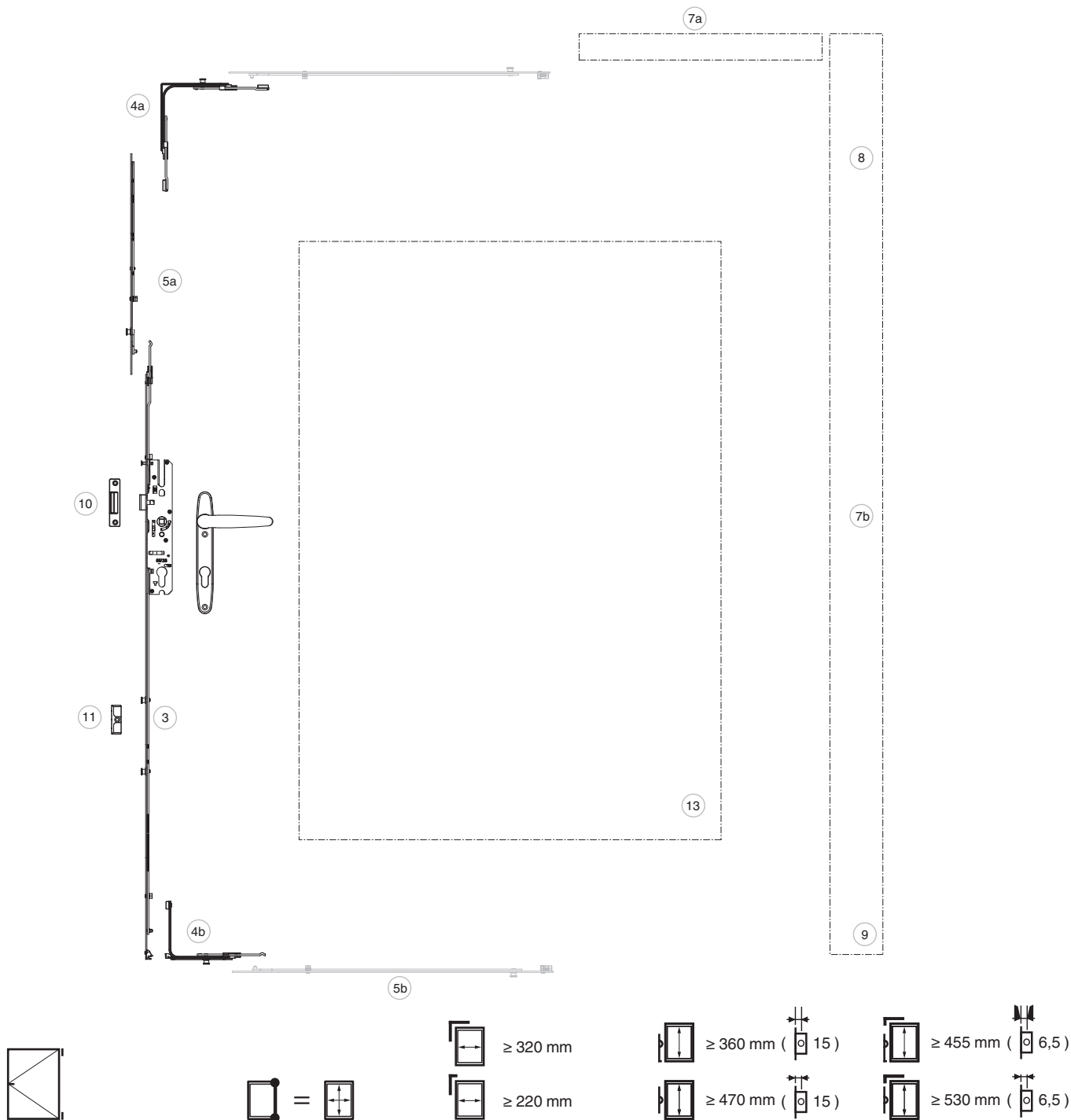
# Fundamental processing information

Selection guide			Page
4	4.8	Corner element for threshold 14 mm air gap	→177
5	5.15	Centre locks for threshold 14 mm air gap	→186
8	8	Scissor stay hinges	→220
9	9	Pivot posts	→228



## 2.4.11 Central locking system for B-TV

### 2.4.11.1 1-sashed rectangular turn-only casement door



- 3 = Balcony door lock B-TV E85 with PC, E92 with PC or E94 with RC.
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7a = Refer to turn hardware overview for turn-only hinge - sash part fixed or croppable.
- 7b = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!
- 8 = Scissor stay hinge according to used hinge side.
- 9 = For possible pivot post combinations refer to matrix.
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.
- 13 = Application diagram according to used hinge side.

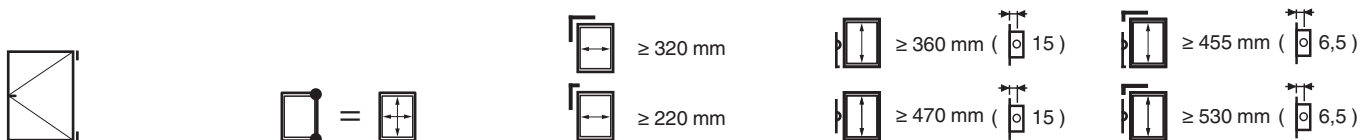
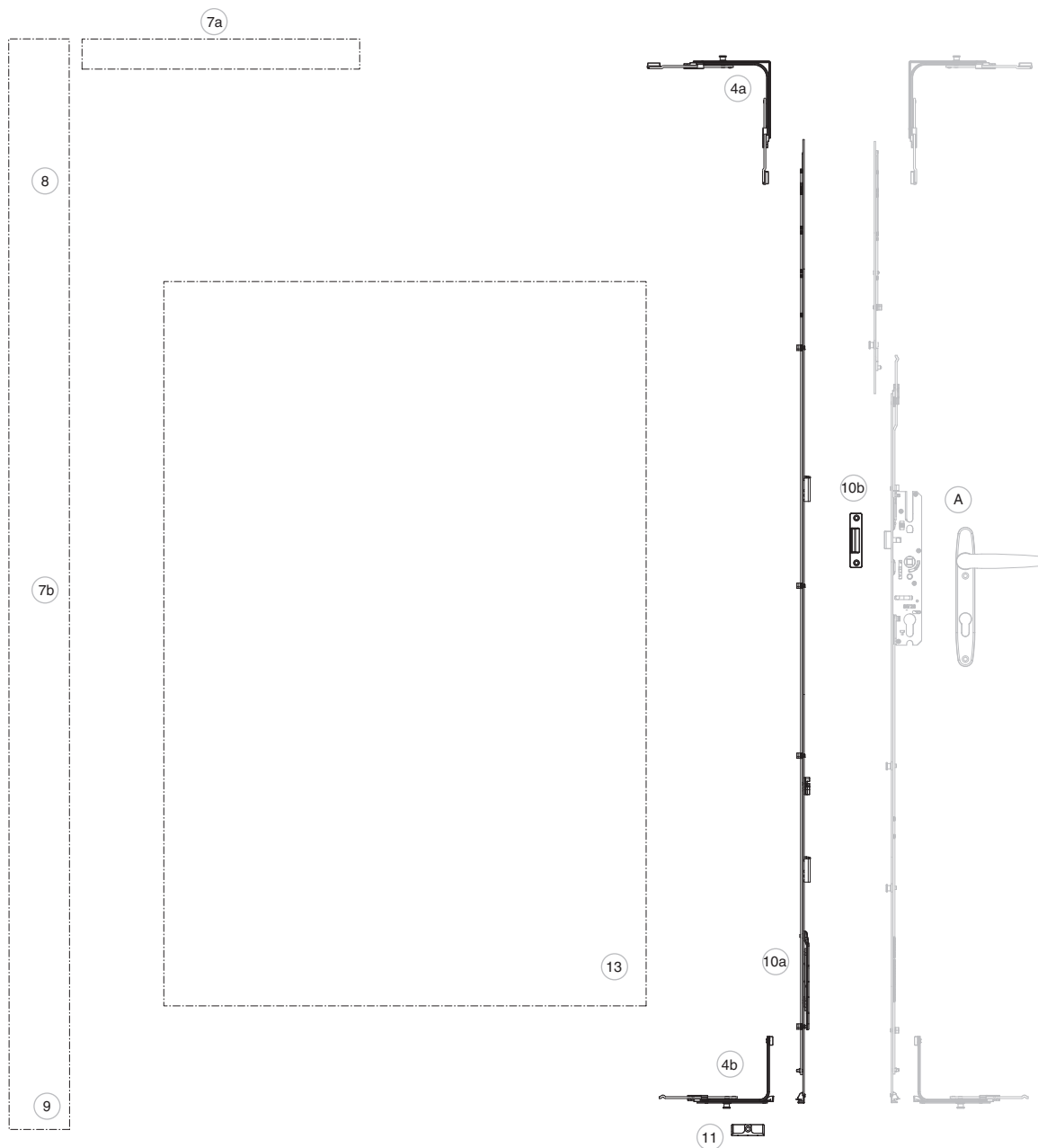


# Fundamental processing information

Selection guide			Page
3	3.6	Balcony door locks B-TV	→169
4a	4.1.1	Corner elements standard i.S.	→172
4b	4.1.3	Corner elements vertical i.S.	→173
5a	5.1	Centre locks FHH i.S.	→182
5b	5.13	Faceplate extensions croppable MM B-TV	→185
7a	7.1	Turn-only hinges - sash part AS/DTuni/PVC	→204
7b	7.7	Compression devices	→213
8	8	Scissor stay hinges	→220
9	9	Pivot posts	→228
10	10.6.5	Latch striker plates for balcony door locks B-TV	→272
11	11	Striker plates	→274



## 2.4.11.2 2-sashed rectangular turn-only casement door with French casement drive gear



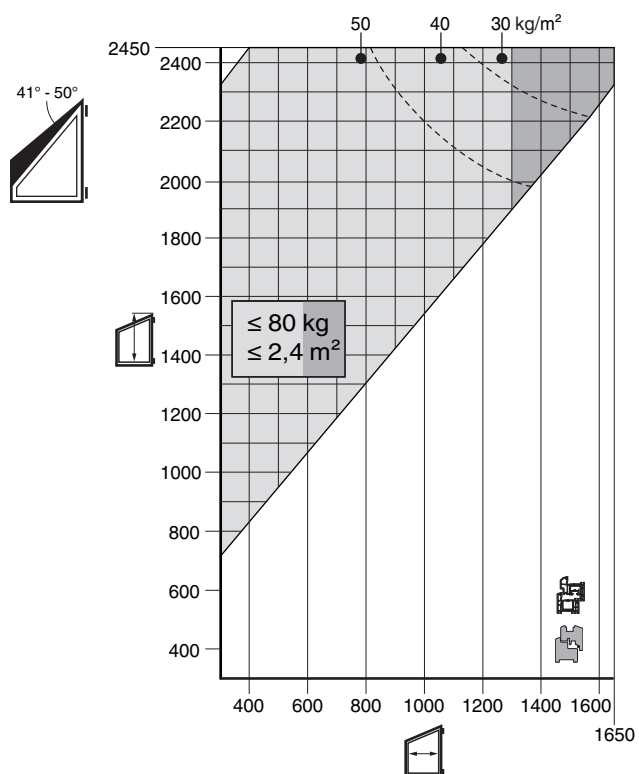
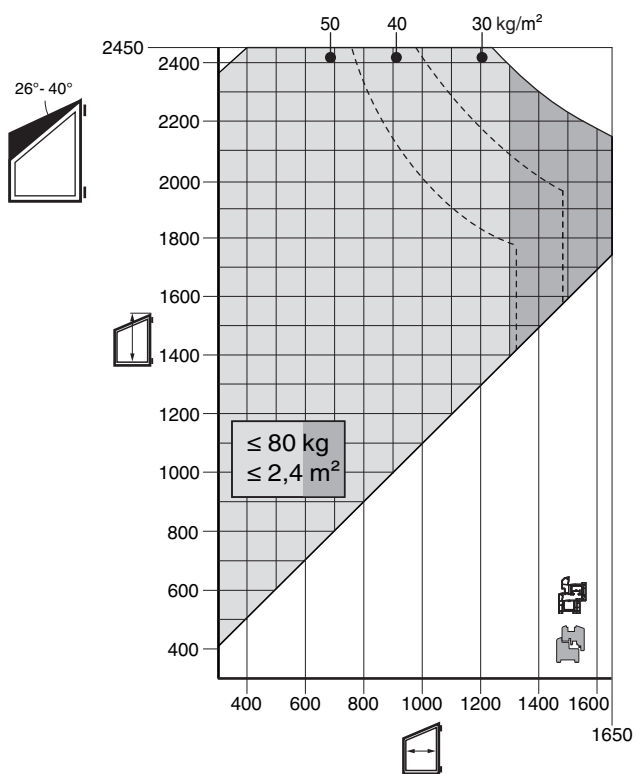
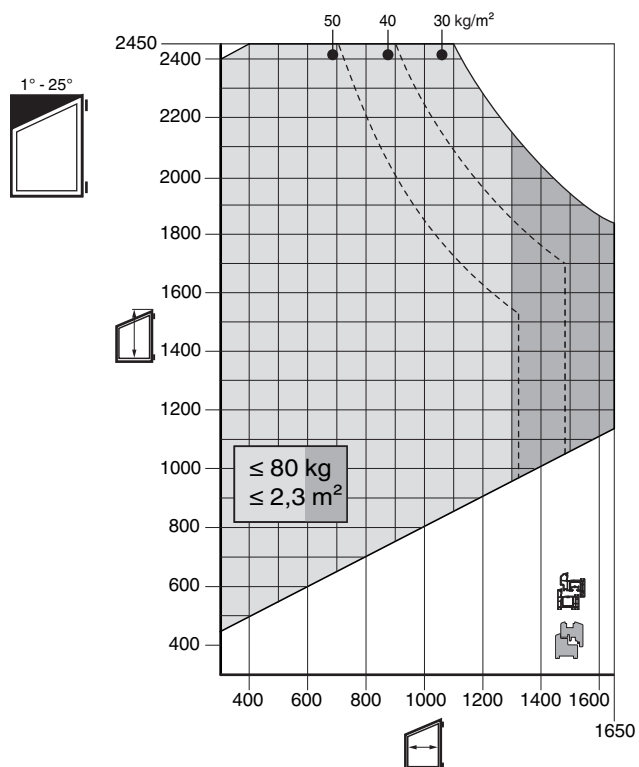
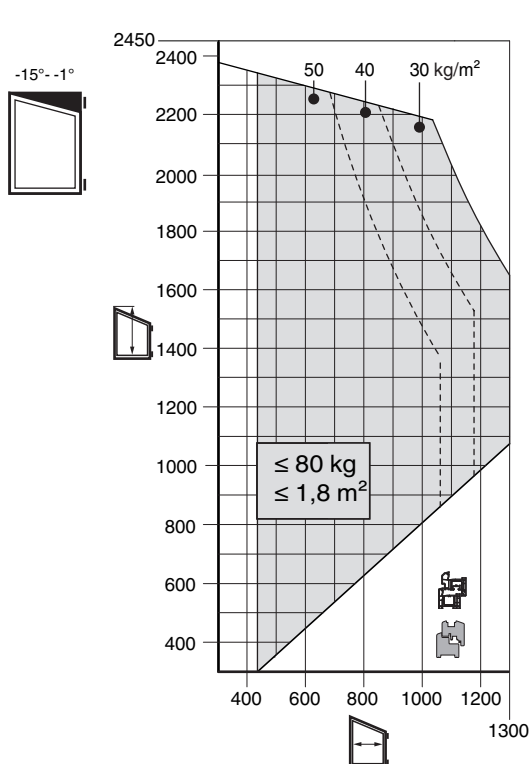
- A = For details refer to 1-sashed turn-only balcony door B-TV.
- 5 = Above 800 mm (PVC) or 1,000 mm (timber); Observe details from profile manufacturer!
- 7a = Refer to turn hardware overview for turn-only hinge - sash part fixed or croppable.
- 7b = 1 piece 800 - 1,600 mm, 2 pieces 1,601 - 2,400 mm, 3 pieces 2,401 - 2,650 mm; Observe details from profile manufacturer!
- 8 = Scissor stay hinge according to used hinge side.
- 9 = For possible pivot post combinations refer to matrix.
- 11 = Refer to profile data sheets for striker plates and sash lifters for PVC.
- 13 = Application diagram according to used hinge side.

# Fundamental processing information

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## 2.5 Application diagrams for angled windows





### 3 Drive gears

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### 3 Drive gears

#### 3.1 T&T drive gears

##### 3.1.1 T&T drive gears BS 15

201734



<b>3.1.1.1 T&amp;T drive gears BS 15 FHH i.S.</b>								<b>No</b>	<b>No</b> Tricoat	
silver	430	15	0	125	360 - 430	-	20	<b>201730<sup>1</sup></b>	<b>233645<sup>1</sup></b>	
	660	15	0	190	431 - 660	1	20	<b>201732<sup>1</sup></b>	<b>233646<sup>1</sup></b>	
	840	15	1	300	661 - 840	1	20	<b>201733</b>	<b>233647</b>	
	1090	15	1	400	841 - 1.090	1	20	<b>201734</b>	<b>233648</b>	
	1340	15	1	500	1.091 - 1.340	1	10	<b>201735</b>	<b>233649</b>	
	1590	15	2	600	1.341 - 1.590	1	10	<b>201739</b>	<b>233650</b>	
	1700	15	2	700	1.591 - 1.700	1	10	<b>207301</b>	<b>233651</b>	
	1950	15	3	1.050	1.701 - 1.950	1	10	<b>201740</b>	<b>233652</b>	
	2200	15	3	1.050	1.951 - 2.200	1	10	<b>201741</b>	<b>233653</b>	
	2450	15	4	1.050	2.201 - 2.450	1	10	<b>201742</b>	<b>233654</b>	
	with door catch	1950	15	3	1.050	1.701 - 1.950	1	10	<b>201842</b>	
		2200	15	3	1.050	1.951 - 2.200	1	10	<b>201843</b>	<b>233846</b>
		2450	15	4	1.050	2.201 - 2.450	1	10	<b>201844</b>	

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.

209373



<b>3.1.1.2 T&amp;T drive gears BS 15 FHH i.S. with tilt lock bolt</b>								<b>No</b>	<b>No</b> Tricoat	
silver	430	15	0	125	360 - 430	-	20	<b>209370<sup>1</sup></b>	<b>233847<sup>1</sup></b>	
	660	15	0	190	431 - 660	-	20	<b>209371<sup>1</sup></b>	<b>233848<sup>1</sup></b>	
	840	15	1	300	661 - 840	1	20	<b>209372</b>	<b>233849</b>	
	1090	15	1	400	841 - 1.090	1	20	<b>209373</b>	<b>233850</b>	
	1340	15	1	500	1.091 - 1.340	1	20	<b>209375</b>	<b>233852</b>	
	1590	15	2	600	1.341 - 1.590	1	20	<b>209377</b>	<b>233854</b>	
	1700	15	2	700	1.591 - 1.700	1	10	<b>209379</b>	<b>233856</b>	
	1950	15	3	1.050	1.701 - 1.950	1	10	<b>209383</b>	<b>233858</b>	
	2200	15	3	1.050	1.951 - 2.200	1	10	<b>209385</b>	<b>233859</b>	
	2450	15	4	1.050	2.201 - 2.450	1	10	<b>209387</b>	<b>233890</b>	
	with door catch	1950	15	3	1.050	1.701 - 1.950	1	10	<b>209382</b>	
		2200	15	3	1.050	1.951 - 2.200	1	10	<b>209384</b>	
		2450	15	4	1.050	2.201 - 2.450	1	10	<b>209386</b>	

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.

212120



<b>3.1.1.3 T&amp;T drive gears BS 15 FHH VZ with tilt lock bolt</b>								<b>No</b>	<b>No</b> Tricoat
silver	430	15	0	125	360 - 430	-	20	<b>209370</b> <sup>1</sup>	<b>233847</b> <sup>1</sup>
	660	15	0	190	431 - 660	-	20	<b>209371</b> <sup>1</sup>	<b>233848</b> <sup>1</sup>
	840	15	1	300	661 - 840	1	20	<b>212118</b>	
	1090	15	1	400	841 - 1.090	1	20	<b>212120</b>	
	1340	15	1	500	1.091 - 1.340	1	20	<b>212122</b>	
	1590	15	2	600	1.341 - 1.590	1	20	<b>212124</b>	
	1700	15	2	700	1.591 - 1.700	1	10	<b>212126</b>	
	1950	15	3	1.050	1.701 - 1.950	1	10	<b>212128</b>	
	2200	15	3	1.050	1.951 - 2.200	1	10	<b>212131</b>	
	2450	15	4	1.050	2.201 - 2.450	1	10	<b>212134</b>	
with door catch	1950	15	3	1.050	1.701 - 1.950	1	10	<b>212129</b>	
	2200	15	3	1.050	1.951 - 2.200	1	10	<b>212132</b>	
	2450	15	4	1.050	2.201 - 2.450	1	10	<b>212135</b>	

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.

201737



<b>3.1.1.4 T&amp;T drive gears EH BS 15 FHH i.S.</b>								<b>No</b>	<b>No</b> Tricoat
silver	660	15	1	190	431 - 660	-	10	<b>206986</b> <sup>1,2</sup>	<b>233655</b> <sup>1,2</sup>
			2	190	510 - 660	-	10	<b>214441</b> <sup>1,2</sup>	
	840	15	2	300	661 - 840	1	20	<b>201736</b> <sup>2</sup>	<b>233656</b> <sup>2</sup>
	1090	15	2	400	841 - 1.090	1	20	<b>201737</b> <sup>2</sup>	<b>233657</b> <sup>2</sup>
	1340	15	2	500	1.091 - 1.340	1	10	<b>201738</b> <sup>2</sup>	<b>233658</b> <sup>2</sup>
	1590	15	3	600	1.341 - 1.590	1	10	<b>206847</b> <sup>2</sup>	<b>233659</b> <sup>2</sup>
	1700	15	3	700	1.591 - 1.700	1	10	<b>207303</b> <sup>2,3</sup>	<b>233660</b> <sup>2,3</sup>

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.

<sup>2</sup> For burglar-resistant windows according to standard EN 1627.

<sup>3</sup> Above SRH 1700 mm use T&T drive gear BS 15 FHH i.S. and crop at 170 mm notch. Then extend with bottom end piece EH item no. 205644.

227863




227865




<b>3.1.1.5 T&amp;T drive gears ESH BS 15 FHH i.S.</b>								<b>No</b>	<b>No</b> Tricoat	
silver	660	15	1	190	431 - 660	-	10	<b>227863</b> <sup>1</sup>		
			2	190	510 - 660	-	10	<b>227864</b> <sup>1</sup>		
	840	15	2	300	661 - 840	1	20	<b>227865</b>		
				400	841 - 1.090	1	20	<b>227866</b>		
	1340	15	2	400	1.091 - 1.340	1	10	<b>227868</b>		
				500	1.091 - 1.340	1	10	<b>227869</b>		
	1590	15	2	500	1.341 - 1.590	1	10	<b>227870</b>		
				600	1.341 - 1.590	1	10	<b>227871</b>		
	1700	15	3	600	1.591 - 1.700	1	10	<b>227872</b>		
				700	1.591 - 1.700	1	10	<b>227873</b>		
	1950	15	3	700	1.701 - 1.950	1	10	<b>227874</b>		
	with door catch	1950	15	3	1.050	1.701 - 1.950	1	10	<b>228320</b>	
		2200	15	3	1.050	1.951 - 2.200	1	10	<b>227876</b>	
		2450	15	4	1.050	2.201 - 2.450	1	10	<b>227877</b>	


<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.

209770 

3.1.1.6 T&T drive gears BS 15 FHH i.S. with offset handle position								No	No Tricoat
silver	1090	15	1	300	841 - 1.090	1	20	<b>217867</b>	
				500	841 - 1.090	1	20	<b>209770</b>	<b>233841</b>
	1340	15	1	400	1.091 - 1.340	1	10	<b>217868</b>	
	1590	15	2	500	1.341 - 1.590	1	10	<b>201745</b>	<b>233832</b>
	1700	15	2	500	1.591 - 1.700	1	10	<b>209261</b>	<b>233895</b>

209374 


3.1.1.7 T&T drive gears BS 15 FHH i.S. with offset handle position and tilt lock bolt								No	No Tricoat
silver	1090	15	1	300	841 - 1.090	1	20	<b>209374</b>	<b>233851</b>
				500	841 - 1.090	1	20	<b>216142</b>	
	1340	15	1	400	1.091 - 1.340	1	10	<b>209376</b>	<b>233853</b>
	1590	15	1	500	1.341 - 1.590	1	10	<b>209378</b>	<b>233855</b>
	1700	15	1	500	1.591 - 1.700	1	10	<b>209381</b>	<b>233857</b>

201743 

3.1.1.8 T&T drive gears EH BS 15 FHH with offset handle position								No	No Tricoat
silver	1090	15	2	300	841 - 1.090	1	20	<b>201743<sup>1,2</sup></b>	
				400	1.091 - 1.340	1	10	<b>201744<sup>1</sup></b>	
	1590	15	2	500	1.341 - 1.590	1	10	<b>208804<sup>1</sup></b>	
	1700	15	3	600	1.591 - 1.700	1	10	<b>208777<sup>1</sup></b>	
	1950	15	3	700	1.701 - 1.950	1	10	<b>208786<sup>1</sup></b>	<b>233845<sup>1</sup></b>

<sup>1</sup> For burglar-resistant windows according to standard EN 1627.


<sup>2</sup> No French casement drive gear possible.

201747 

3.1.1.9 T&T drive gears BS 15 VHH i.S.								No	No Tricoat	
silver	800	640	15	0	470 - 800	200	-	20	<b>201746<sup>1</sup></b>	<b>233923<sup>1</sup></b>
				1	590 - 800	159	1	20	<b>227936<sup>1,2</sup></b>	
	1250	1.040	15	1	801 - 1.250	260	1	20	<b>201747</b>	<b>233924</b>
	1750	1.540	15	2	1.251 - 1.750	260	1	10	<b>201748</b>	<b>234057</b>
	2250	2.040	15	3	1.751 - 2.250	260	1	10	<b>202739</b>	<b>234058</b>
	with door catch	2250	2.040	15	3	1.751 - 2.250	260	1	10	<b>201749</b>

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.

<sup>2</sup> At centered handle position the application range changes to 628 – 800 mm.

212156 







3.1.1.10 T&T drive gears BS 15 VHH VZ								No	No Tricoat	
silver	800	640	15	0	470 - 800	200	-	20	<b>201746<sup>1</sup></b>	<b>233923<sup>1</sup></b>
				1	801 - 1.250	260	1	20	<b>212156</b>	
	1350	1.140	15	1	901 - 1.350	260	1	20	<b>225098</b>	
	1750	1.540	15	2	1.251 - 1.750	260	1	10	<b>212158</b>	
	2250	2.040	15	3	1.751 - 2.250	260	1	10	<b>212160</b>	

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.



228128









<b>3.1.1.11 T&amp;T drive gears ESH BS 15 VHH i.S.</b>		<b>L</b>							<b>No</b>	<b>No</b> Tricoat	
silver		800	640	15	0	470 - 800	200	-	20	<b>229389</b> <sup>1</sup>	
		1250	1.040	15	1	801 - 1.250	260	1	20	<b>228128</b>	
		1750	1.540	15	2	1.251 - 1.750	260	1	10	<b>229390</b>	
	with door catch	2250	2.040	15	3	1.751 - 2.250	260	1	10	<b>229391</b>	

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.









## 3.1.2 T&T drive gears BS 6.5

202208 

<b>3.1.2.1 T&amp;T drive gears BS 6.5 FHH i.S.</b>								<b>No</b>	<b>No</b> Tricoat	
silver	660	6,5	0	190	455 - 660	-	20	<b>202206<sup>1</sup></b>	<b>233661<sup>1</sup></b>	
	840	6,5	1	300	661 - 840	1	20	<b>202207</b>	<b>233662</b>	
	1090	6,5	1	400	841 - 1.090	1	20	<b>202208</b>	<b>233663</b>	
	1340	6,5	1	500	1.091 - 1.340	1	10	<b>202209</b>	<b>233664</b>	
	1590	6,5	2	600	1.341 - 1.590	1	10	<b>202216</b>	<b>233665</b>	
	1700	6,5	2	700	1.591 - 1.700	1	10	<b>207305</b>	<b>233666</b>	
	1950	6,5	3	1.050	1.701 - 1.950	1	10	<b>202737</b>	<b>233667</b>	
	2200	6,5	3	1.050	1.951 - 2.200	1	10	<b>202738</b>	<b>233668</b>	
	with door catch	1950	6,5	3	1.050	1.701 - 1.950	1	10	<b>202217</b>	
		2200	6,5	3	1.050	1.951 - 2.200	1	10	<b>202218</b>	







<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.

212031 

<b>3.1.2.2 T&amp;T drive gears BS 6.5 FHH i.S. with tilt lock bolt</b>								<b>No</b>	<b>No</b> Tricoat
silver	660	6,5	0	190	455 - 660	-	20	<b>212028<sup>1</sup></b>	<b>236956<sup>1</sup></b>
	840	6,5	1	300	661 - 840	1	20	<b>212029</b>	<b>236957</b>
	1090	6,5	1	400	841 - 1.090	1	20	<b>212031</b>	<b>233891</b>
	1340	6,5	1	500	1.091 - 1.340	1	10	<b>212033</b>	<b>233892</b>
	1590	6,5	2	600	1.341 - 1.590	1	10	<b>212035</b>	<b>233893</b>
	1700	6,5	2	700	1.591 - 1.700	1	10	<b>212037</b>	<b>236958</b>
	1950	6,5	3	1.050	1.701 - 1.950	1	10	<b>212038</b>	
	2200	6,5	3	1.050	1.951 - 2.200	1	10	<b>212040</b>	<b>233894</b>

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.







212049 

<b>3.1.2.3 T&amp;T drive gears BS 6.5 FHH VZ with tilt lock bolt</b>								<b>No</b>	<b>No</b> Tricoat
silver	660	6,5	0	190	455 - 660	-	20	<b>212028<sup>1</sup></b>	<b>236956<sup>1</sup></b>
	840	6,5	1	300	661 - 840	1	20	<b>212048</b>	
	1090	6,5	1	400	841 - 1.090	1	20	<b>212049</b>	
	1340	6,5	1	500	1.091 - 1.340	1	10	<b>212050</b>	
	1590	6,5	2	600	1.341 - 1.590	1	10	<b>212052</b>	
	1700	6,5	2	700	1.591 - 1.700	1	10	<b>212054</b>	
	1950	6,5	3	1.050	1.701 - 1.950	1	10	<b>212055</b>	
	2200	6,5	3	1.050	1.951 - 2.200	1	10	<b>212057</b>	

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.

# Drive gears

202214 







<b>3.1.2.4 T&amp;T drive gears EH BS 6.5 FHH i.S.</b>								<b>No</b>	<b>No</b> Tricoat
silver	660	6,5	1	190	455 - 660	-	20	<b>209609</b> <sup>1,2</sup>	
	840	6,5	2	300	661 - 840	1	20	<b>202213</b> <sup>2</sup>	
	1090	6,5	2	400	841 - 1.090	1	20	<b>202214</b> <sup>2</sup>	
	1340	6,5	2	500	1.091 - 1.340	1	10	<b>202215</b> <sup>2</sup>	<b>233669</b> <sup>2</sup>
	1590	6,5	3	600	1.341 - 1.590	1	10	<b>208779</b> <sup>2</sup>	
	1700	6,5	3	700	1.591 - 1.700	1	10	<b>208780</b> <sup>2,3</sup>	

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.







<sup>2</sup> For burglar-resistant windows according to standard EN 1627.

<sup>3</sup> Above SRH 1700 mm use T&T drive gear BS 6.5 FHH i.S. and crop at 170 mm notch. Then extend with bottom end piece EH item no. 205644.







212030 

<b>3.1.2.5 T&amp;T drive gears BS 6.5 FHH i.S. with offset handle position and tilt lock bolt</b>								<b>No</b>	<b>No</b> Tricoat
silver	1090	6,5	1	300	841 - 1.090	1	20	<b>212030</b>	
	1340	6,5	1	400	1.091 - 1.340	1	10	<b>212032</b>	
	1590	6,5	1	500	1.341 - 1.590	1	10	<b>212034</b>	
	1700	6,5	1	500	1.591 - 1.700	1	10	<b>212066</b>	
			2	600	1.591 - 1.700	1	10	<b>212036</b>	

212051 







<b>3.1.2.6 T&amp;T drive gears BS 6.5 FHH VZ with offset handle position and tilt lock bolt</b>								<b>No</b>	<b>No</b> Tricoat
silver	1590	6,5	1	500	1.341 - 1.590	1	10	<b>212051</b>	
	1700	6,5	1	500	1.591 - 1.700	1	10	<b>212053</b>	

208781 

<b>3.1.2.7 T&amp;T drive gears EH BS 6.5 FHH with offset handle position</b>								<b>No</b>	<b>No</b> Tricoat
silver	1090	6,5	2	300	841 - 1.090	1	10	<b>208781</b> <sup>1</sup>	
	1340	6,5	2	400	1.091 - 1.340	1	10	<b>208782</b> <sup>1</sup>	
	1590	6,5	2	500	1.341 - 1.590	1	10	<b>208783</b> <sup>1</sup>	
	1700	6,5	3	600	1.591 - 1.700	1	10	<b>208784</b> <sup>1</sup>	
	1950	6,5	3	700	1.701 - 1.950	1	10	<b>208785</b> <sup>1</sup>	

<sup>1</sup> For burglar-resistant windows according to standard EN 1627.

202492 

<b>3.1.2.8 T&amp;T drive gears BS 6.5 VHH i.S.</b>		<b>L</b>							<b>No</b>	<b>No</b> Tricoat
silver	800	640	6,5	0	530 - 800	170	-	20	<b>202491</b> <sup>1</sup>	<b>233925</b> <sup>1</sup>
	1250	1.040	6,5	1	801 - 1.250	260	1	20	<b>202492</b>	<b>233926</b>
	1750	1.540	6,5	2	1.251 - 1.750	260	1	10	<b>202494</b>	<b>233927</b>
	2250	2.040	6,5	3	1.751 - 2.250	260	1	10	<b>202205</b>	<b>233928</b>

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.

202491









<b>3.1.2.9 T&amp;T drive gears BS 6.5 VHH VZ</b>		<b>L</b>							<b>No</b>	<b>No</b> Tricoat
silver	800	640	6,5	530 - 800	170	-	20	<b>202491<sup>1</sup></b>	<b>233925<sup>1</sup></b>	

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.

## 3.1.3 T&T drive gears BS -6

218242 






3.1.3.1 T&T drive gears BS -6 FHH i.S.								No	No Tricoat
silver	660	-6	0	190	455 - 660	-	20	<b>218240</b> <sup>1,2,3</sup>	
	840	-6	1	300	661 - 840	1	20	<b>218241</b> <sup>2,3</sup>	
	1090	-6	1	400	841 - 1.090	1	20	<b>218242</b> <sup>2,3</sup>	
	1340	-6	1	500	1.091 - 1.340	1	10	<b>218243</b> <sup>2,3</sup>	<b>233897</b> <sup>2,3</sup>
	1590	-6	2	600	1.341 - 1.590	1	10	<b>218244</b> <sup>2,3</sup>	
	1700	-6	2	700	1.591 - 1.700	1	10	<b>218245</b> <sup>2,3</sup>	
	1950	-6	3	1.050	1.701 - 1.950	1	10	<b>218246</b> <sup>2,3</sup>	<b>233898</b> <sup>2,3</sup>
2200	-6	3	1.050	1.951 - 2.200	1	10	<b>218247</b> <sup>2,3</sup>	<b>250580</b> <sup>2,3</sup>	

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.

<sup>2</sup> Accessories for drive gears BS -6 (adaper item no. 366719, spacer such as item no. 366006 ...) must be used!

<sup>3</sup> Do not exceed max. torque of 22 Nm when breaking the centre die anchorage! Otherwise install drive gear BS 6.5 with frontal intermediate drive gear.

218249 

3.1.3.2 T&T drive gears BS -6 VHH i.S.							No	No Tricoat
silver	800	-6	0	530 - 800	-	20	<b>218248</b> <sup>1,2,3</sup>	
	1250	-6	1	801 - 1.250	1	10	<b>218249</b> <sup>2,3</sup>	<b>250583</b> <sup>2,3</sup>
	1750	-6	2	1.251 - 1.750	1	10	<b>218250</b> <sup>2,3</sup>	<b>250584</b> <sup>2,3</sup>
	2250	-6	3	1.751 - 2.250	1	10	<b>218251</b> <sup>2,3</sup>	

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.

<sup>2</sup> Accessories for drive gears BS -6 (adaper item no. 366719, spacer such as item no. 366006 ...) must be used!

<sup>3</sup> Do not exceed max. torque of 22 Nm when breaking the centre die anchorage! Otherwise install drive gear BS 6.5 with frontal intermediate drive gear.

## 3.1.4 T&T drive gears special-BS i.S.

205465



3.1.4.1 T&T drive gears special-BS FHH i.S.								No	No Tricoat
silver	1090	30	1	400	841 - 1.090	1	20	212184	
	1340	30	1	500	1.091 - 1.340	1	10	212185	233840
	1950	25	3	1.050	1.701 - 1.950	1	10	205465 <sup>1</sup>	233700 <sup>1</sup>
		30	3	1.050	1.701 - 1.950	1	10	205473 <sup>1</sup>	233703 <sup>1</sup>
		35	3	1.050	1.701 - 1.950	1	10	205487 <sup>1</sup>	233706 <sup>1</sup>
		40	3	1.050	1.701 - 1.950	1	10	206402 <sup>1</sup>	233709 <sup>1</sup>
		45	3	1.050	1.701 - 1.950	1	10	206403 <sup>1</sup>	233782 <sup>1</sup>
	2200	50	3	1.050	1.701 - 1.950	1	10	205491 <sup>1</sup>	233784 <sup>1</sup>
		25	3	1.050	1.951 - 2.200	1	10	205464 <sup>1</sup>	233701 <sup>1</sup>
		30	3	1.050	1.951 - 2.200	1	10	205472 <sup>1</sup>	233704 <sup>1</sup>
		35	3	1.050	1.951 - 2.200	1	10	205480 <sup>1</sup>	233707 <sup>1</sup>
		40	3	1.050	1.951 - 2.200	1	10	205489 <sup>1</sup>	233780 <sup>1</sup>
	2450	45	3	1.050	1.951 - 2.200	1	10	205490 <sup>1</sup>	233783 <sup>1</sup>
		50	3	1.050	1.951 - 2.200	1	10	205492 <sup>1</sup>	233785 <sup>1</sup>
		25	4	1.050	2.201 - 2.450	1	10	206399 <sup>1</sup>	233702 <sup>1</sup>
		30	4	1.050	2.201 - 2.450	1	10	205479 <sup>1</sup>	233705 <sup>1</sup>
		35	4	1.050	2.201 - 2.450	1	10	205488 <sup>1</sup>	233708 <sup>1</sup>
		40	4	1.050	2.201 - 2.450	1	10	206400 <sup>1</sup>	233781 <sup>1</sup>
		45	4	1.050	2.201 - 2.450	1	10	206401 <sup>1</sup>	
		50	4	1.050	2.201 - 2.450	1	10	205493 <sup>1</sup>	233786 <sup>1</sup>

<sup>1</sup> Cropping for end piece 115 mm and 170 mm possible. Notch only at 170 mm.


205514









3.1.4.2 T&T drive gears special-BS VHH i.S.		L							No	No Tricoat
silver	800	640	25	0	470 - 800	200	-	10	205513 <sup>1</sup>	233929 <sup>1</sup>
			30	0	470 - 800	200	-	10	205517 <sup>1</sup>	233953 <sup>1</sup>
			35	0	470 - 800	200	-	10	205525 <sup>1</sup>	233957 <sup>1</sup>
			40	0	470 - 800	200	-	10	205529 <sup>1</sup>	234021 <sup>1</sup>
			45	0	470 - 800	200	-	10	205539 <sup>1</sup>	
	1250	1.040	50	0	470 - 800	200	-	10	205540 <sup>1</sup>	234028 <sup>1</sup>
			25	1	801 - 1.250	260	1	10	205514	233950
			30	1	801 - 1.250	260	1	10	205518	233954
			35	1	801 - 1.250	260	1	10	205534	233958
			40	1	801 - 1.250	260	1	10	205530	234022
	1750	1.540	45	1	801 - 1.250	260	1	10	206308	234025
			50	1	801 - 1.250	260	1	10	213071	
			25	2	1.251 - 1.750	260	1	10	205532	233951
			30	2	1.251 - 1.750	260	1	10	205520	233955
			35	2	1.251 - 1.750	260	1	10	205535	233959
	2250	2.040	40	2	1.251 - 1.750	260	1	10	205537	234023
			45	2	1.251 - 1.750	260	1	10	206309	234026
			50	2	1.251 - 1.750	260	1	10	213072	
			25	3	1.751 - 2.250	260	1	10	205533	233952
			30	3	1.751 - 2.250	260	1	10	205531	233956
	35	3	1.751 - 2.250	260	1	10	205536	234020		
	40	3	1.751 - 2.250	260	1	10	205538	234024		
	45	3	1.751 - 2.250	260	1	10	206310	234027		
			50	3	1.751 - 2.250	260	1	10	213073	234060


<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.







## 3.1.5 T&T drive gears lockable special-BS i.S.


205602 







3.1.5.1 T&T drive gears lockable special BS for PC FHH i.S.								No	No Tricoat
silver	1950	25	3	1.050	1.701 - 1.950	1	10	205602 <sup>1</sup>	233787 <sup>1</sup>
		30	3	1.050	1.701 - 1.950	1	10	205627 <sup>1</sup>	233789 <sup>1</sup>
		35	3	1.050	1.701 - 1.950	1	10	206153 <sup>1</sup>	233812 <sup>1</sup>
		40	3	1.050	1.701 - 1.950	1	10	206984 <sup>1</sup>	233815 <sup>1</sup>
		45	3	1.050	1.701 - 1.950	1	10	206155 <sup>1</sup>	233817 <sup>1</sup>
		50	3	1.050	1.701 - 1.950	1	10	206985 <sup>1</sup>	250579 <sup>1</sup>
	2200	25	3	1.050	1.951 - 2.200	1	10	205571 <sup>1</sup>	233788 <sup>1</sup>
		30	3	1.050	1.951 - 2.200	1	10	205624 <sup>1</sup>	233810 <sup>1</sup>
		35	3	1.050	1.951 - 2.200	1	10	205629 <sup>1</sup>	233813 <sup>1</sup>
		40	3	1.050	1.951 - 2.200	1	10	205631 <sup>1</sup>	233816 <sup>1</sup>
		45	3	1.050	1.951 - 2.200	1	10	205633 <sup>1</sup>	233818 <sup>1</sup>
		50	3	1.050	1.951 - 2.200	1	10	205635 <sup>1</sup>	233830 <sup>1</sup>
	2450	25	4	1.050	2.201 - 2.450	1	10	205623 <sup>1</sup>	236925 <sup>1</sup>
		30	4	1.050	2.201 - 2.450	1	10	205628 <sup>1</sup>	233811 <sup>1</sup>
		35	4	1.050	2.201 - 2.450	1	10	205630 <sup>1</sup>	233814 <sup>1</sup>
		40	4	1.050	2.201 - 2.450	1	10	205632 <sup>1</sup>	236926 <sup>1</sup>
		45	4	1.050	2.201 - 2.450	1	10	205634 <sup>1</sup>	233819 <sup>1</sup>
		50	4	1.050	2.201 - 2.450	1	10	205636 <sup>1</sup>	233831 <sup>1</sup>

<sup>1</sup> Cropping for end piece 115 mm and 170 mm possible. Notch only at 170 mm.

212256 

3.1.5.2 T&T drive gears lockable special BS for PC FHH i.S. with tilt lock bolt								No	No Tricoat
silver	1950	25	3	1.050	1.701 - 1.950	1	10	212256	
		35	3	1.050	1.701 - 1.950	1	10	212258	

205670 

3.1.5.3 T&T drive gears lockable special BS for PC VHH i.S.		L							No	No Tricoat
silver	1750	1.540	25	2	1.251 - 1.750	260	1	10	205670	234029
			30	2	1.251 - 1.750	260	1	10	205671	234050
			35	2	1.251 - 1.750	260	1	10	205672	236959
			40	2	1.251 - 1.750	260	1	10	205673	234053
			45	2	1.251 - 1.750	260	1	10	207316	234055
			50	2	1.251 - 1.750	260	1	10	213074	
	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
			35	3	1.751 - 2.250	260	1	10	205675	234052
			40	3	1.751 - 2.250	260	1	10	207317	234054
			45	3	1.751 - 2.250	260	1	10	207318	234056
			50	3	1.751 - 2.250	260	1	10	213075	234068

224293



<b>3.1.5.4 T&amp;T drive gears lockable special BS for RC FHH i.S.</b>										<b>No</b>	<b>No</b> Tricoat
silver	1950	40	3	1.050	1.701 - 1.950	1	10	<b>224293</b>			
		45	3	1.050	1.701 - 1.950	1	10	<b>224294</b>			
		50	3	1.050	1.701 - 1.950	1	10	<b>224295</b>			
	2200	40	3	1.050	1.951 - 2.200	1	10	<b>205696</b>			
		45	3	1.050	1.951 - 2.200	1	10	<b>205698</b>			
		50	3	1.050	1.951 - 2.200	1	10	<b>205700</b>			

217871



<b>3.1.5.5 T&amp;T drive gears lockable special BS for RC VHH i.S.</b>		<b>L</b>								<b>No</b>	<b>No</b> Tricoat
silver	1750	1.540	40	2	1.251 - 1.750	260	1	10	<b>217871</b>		
			45	2	1.251 - 1.750	260	1	10	<b>217872</b>		



## 3.2 Turn-only drive gears

### 3.2.1 Turn-only drive gears BS 15



3.2.1.1 Turn-only drive gears BS 15 FHH i.S.							No	No Tricoat
silver	430	15	0	125	360 - 430	20	201730 <sup>1</sup>	233645 <sup>1</sup>
	660	15	0	190	431 - 660	20	201731 <sup>1</sup>	233836 <sup>1</sup>
	840	15	1	300	661 - 840	20	201833	233842
	1090	15	1	400	841 - 1.090	20	201834	233837
	1340	15	1	500	1.091 - 1.340	10	201835	233833
	1590	15	2	600	1.341 - 1.590	10	201836	236953
	1700	15	2	700	1.591 - 1.700	10	207302	
	1950	15	3	1.050	1.701 - 1.950	10	201837	233838
	2200	15	3	1.050	1.951 - 2.200	10	201838	233834
	2450	15	4	1.050	2.201 - 2.450	10	201839	233835

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.



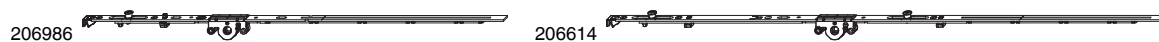
3.2.1.2 Turn-only drive gears BS 15 FHH i.S. with tilt lock bolt							No	No Tricoat
silver	430	15	0	125	360 - 430	20	209370 <sup>1</sup>	233847 <sup>1</sup>
	660	15	0	190	431 - 660	20	209371 <sup>1</sup>	233848 <sup>1</sup>
	840	15	1	300	661 - 840	20	209590	236955

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.



3.2.1.3 Turn-only drive gears BS 15 FHH VZ with tilt lock bolt							No	No Tricoat
silver	430	15	0	125	360 - 430	20	209370 <sup>1</sup>	233847 <sup>1</sup>
	660	15	0	190	431 - 660	20	209371 <sup>1</sup>	233848 <sup>1</sup>
	840	15	1	300	661 - 840	20	212119	
	1090	15	1	400	841 - 1.090	20	212121	
	1340	15	1	500	1.091 - 1.340	20	212123	
	1590	15	2	600	1.341 - 1.590	20	212125	
	1700	15	2	700	1.591 - 1.700	10	212127	
	1950	15	3	1.050	1.701 - 1.950	10	212130	
	2200	15	3	1.050	1.951 - 2.200	10	212133	
	2450	15	4	1.050	2.201 - 2.450	10	212136	

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.



3.2.1.4 Turn-only drive gears EH BS 15 FHH i.S.							No	No Tricoat
silver	660	15	1	190	431 - 660	10	206986 <sup>1,2</sup>	233655 <sup>1,2</sup>
			2	190	510 - 660	10	214441 <sup>1,2</sup>	
	840	15	2	300	661 - 840	20	206614 <sup>2</sup>	

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.

<sup>2</sup> For burglar-resistant windows according to standard EN 1627.

205547



<b>3.2.1.5 Turn-only drive gears BS 15 FHH without cam</b>						<b>No</b>	<b>No</b> Tricoat
silver	840	15	300	661 - 840	20	<b>205546</b>	<b>236954</b>
	1090	15	400	841 - 1.090	20	<b>205547</b>	<b>236928</b>
	1340	15	500	1.091 - 1.340	10	<b>205548</b>	<b>236929</b>
	1590	15	600	1.341 - 1.590	10	<b>205549</b>	<b>236950</b>
	1700	15	700	1.591 - 1.700	10	<b>207304</b>	<b>236952</b>
	1950	15	1.050	1.701 - 1.950	10	<b>205545</b>	<b>236927</b>
	2200	15	1.050	1.951 - 2.200	10	<b>205550</b>	<b>236951</b>
	2450	15	1.050	2.201 - 2.450	10	<b>205551</b>	

202170



<b>3.2.1.6 Turn-only drive gears BS 15 VHH i.S.</b>		<b>L</b>						<b>No</b>	<b>No</b> Tricoat
silver	800	640	15	0	470 - 800	200	20	<b>201746<sup>1</sup></b>	<b>233923<sup>1</sup></b>
	1250	1.040	15	1	801 - 1.250	260	20	<b>202170</b>	<b>234062</b>
	1350	1.140	15	1	901 - 1.350	260	20	<b>215408</b>	
	1750	1.540	15	2	1.251 - 1.750	260	10	<b>202171</b>	<b>234063</b>
	2250	2.040	15	3	1.751 - 2.250	260	10	<b>202172</b>	<b>234065</b>

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.

212157



<b>3.2.1.7 Turn-only drive gears BS 15 VHH VZ</b>		<b>L</b>						<b>No</b>	<b>No</b> Tricoat
silver	800	640	15	0	470 - 800	200	20	<b>201746<sup>1</sup></b>	<b>233923<sup>1</sup></b>
	1250	1.040	15	1	801 - 1.250	260	20	<b>212157</b>	
	1750	1.540	15	2	1.251 - 1.750	260	10	<b>212159</b>	
	2250	2.040	15	3	1.751 - 2.250	260	10	<b>212161</b>	



<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.






205542




<b>3.2.1.8 Turn-only drive gears BS 15 VHH without cam</b>		<b>L</b>					<b>No</b>	<b>No</b> Tricoat
silver	1250	1.040	15	801 - 1.250	260	10	<b>205542</b>	
	1750	1.540	15	1.251 - 1.750	260	10	<b>205543</b>	
	2250	2.040	15	1.751 - 2.250	260	10	<b>205544</b>	






## 3.2.2 Turn-only drive gears BS 6.5


202206  202211 






3.2.2.1 Turn-only drive gears BS 6.5 FHH i.S.							No	No Tricoat
silver	660	6,5	0	190	455 - 660	20	202206 <sup>1</sup>	233661 <sup>1</sup>
	840	6,5	1	300	661 - 840	20	202210	
	1090	6,5	1	400	841 - 1.090	20	202211	
	1340	6,5	1	500	1.091 - 1.340	10	202212	
	1590	6,5	2	600	1.341 - 1.590	10	202219	
	1700	6,5	2	700	1.591 - 1.700	10	207306	
	1950	6,5	3	1.050	1.701 - 1.950	10	202220	
	2200	6,5	3	1.050	1.951 - 2.200	10	202221	


<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.






212044 

3.2.2.2 Turn-only drive gears BS 6.5 FHH i.S. with tilt lock bolt							No	No Tricoat
silver	840	6,5	1	300	661 - 840	20	212042	
	1090	6,5	1	400	841 - 1.090	20	212044	
	1340	6,5	1	500	1.091 - 1.340	10	212045	
	1590	6,5	2	600	1.341 - 1.590	10	212046	

212060 

3.2.2.3 Turn-only drive gears BS 6.5 FHH VZ with tilt lock bolt							No	No Tricoat
silver	840	6,5	1	300	661 - 840	20	212059	
	1090	6,5	1	400	841 - 1.090	20	212060	
	1340	6,5	1	500	1.091 - 1.340	10	212061	
	1590	6,5	2	600	1.341 - 1.590	10	212062	
	1700	6,5	2	700	1.591 - 1.700	10	212063	
	1950	6,5	3	1.050	1.701 - 1.950	10	212064	
	2200	6,5	3	1.050	1.951 - 2.200	10	212065	

202493 

3.2.2.4 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 <sup>1</sup>	233925 <sup>1</sup>
	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

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.

## 3.2.3 Turn-only drive gears special BS i.S.

209968



3.2.3.1 Turn-only drive gears special-BS FHH with welded striker							No	No Tricoat
silver	660	30	190	431 - 660	10		224139 <sup>1</sup>	
		50	190	431 - 660	10		218426 <sup>1</sup>	
	840	30	300	661 - 840	10		224140	
		50	300	661 - 840	10		218427	
	1090	30	400	841 - 1.090	10		224141	
		40	400	841 - 1.090	10		210941	
		50	400	841 - 1.090	10		218428	
	1340	30	500	1.091 - 1.340	10		224142	
		40	500	1.091 - 1.340	10		210942	
		50	500	1.091 - 1.340	10		218429	
	1590	30	600	1.341 - 1.590	10		224143	
		40	600	1.341 - 1.590	10		211659	
		50	600	1.341 - 1.590	10		218430	
	1700	30	700	1.591 - 1.700	10		224144	
		40	700	1.591 - 1.700	10		211660	
		50	700	1.591 - 1.700	10		218431	
	1950	30	1.050	1.701 - 1.950	10		209968	
		40	1.050	1.701 - 1.950	10		207014	
		50	1.050	1.701 - 1.950	10		218432	
	2200	30	1.050	1.951 - 2.200	10		224145	
		40	1.050	1.951 - 2.200	10		210943	
		50	1.050	1.951 - 2.200	10		218433	
	2450	30	1.050	2.201 - 2.450	10		224146	
		40	1.050	2.201 - 2.450	10		210944	

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.

218225



3.2.3.2 Turn-only drive gears special-BS VHH with welded striker		L					No	No Tricoat
silver	1250	1.040	50	801 - 1.250	260	10	218225	
	1750	1.540	50	1.251 - 1.750	260	10	218226	
	2250	2.040	50	1.751 - 2.250	260	10	218227	

205515



3.2.3.3 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

214904



<b>3.2.4 Turn-only drive gears special-BS VHH VZ</b>		<b>L</b>						<b>No</b>	<b>No</b> Tricoat
silver	800	640	30	0	470 - 800	200	10	<b>205517<sup>1</sup></b>	<b>233953<sup>1</sup></b>
	1250	1.040	30	1	801 - 1.250	260	10	<b>214904</b>	

<sup>1</sup> To fasten faceplate use faceplate restrainer item no. 213287.

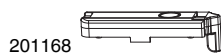


208747



<b>3.2.5 Turn-only drive gears for round windows i.S.</b>						<b>No</b>	<b>No</b> Tricoat
silver	925	15	3	425 - 925	10	<b>208747</b>	
	1425	15	4	926 - 1.425	10	<b>208748</b>	

### 3.3 Accessories for drive gears



201168

#### 3.3.1 Door catches



No

No  
Tricoat

silver

door catch MM

50

201168

234411



44349

#### 3.3.2 Packer for door catch



No

No  
Tricoat

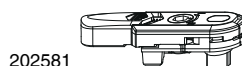
pearl light grey RAL 9022

for bullet catch case

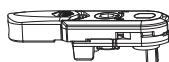
3

100

44349



202581



370922

#### 3.3.3 Sash lifters and mishandling devices



No

No  
Tricoat

silver

sash lifter and mishandling device retrofittable MM

50

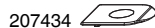
202581

234412

sash lifter and mishandling device retrofittable MM for comfort adjuster

10

370922



207434



207435

#### 3.3.4 Anti-drill plates for drive gears



No

No  
Tricoat

silver

BS 15 hardened

50

207434<sup>1</sup>

BS 6.5 hardened

50

207435<sup>1</sup>

<sup>1</sup> For burglar-resistant windows according to standard EN 1627.



208887

#### 3.3.5 Faceplate extension MM/MM-KS for corner screw-mounting on Alu windows



No

No  
Tricoat

silver

20

208887



213287

#### 3.3.6 Faceplate restrainer for short drive gears MM



No

No  
Tricoat

silver

100

213287



363192

45038

#### 3.3.7 Clip-on parts for drive gears



No

No  
Tricoat

clip-on component for gearbox cases CE

100

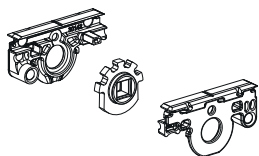
363192<sup>1</sup>

clip-on component for gearbox cases MACO


100



45038<sup>1</sup>



<sup>1</sup> Attachments for the drive gear are also available with logo.



106040

<b>3.3.8 Repair sets for gearbox</b>			<b>No</b>	<b>No</b> Tricoat
Tricoat-Evo	repair set for gearbox BS 15	20		<b>106040</b>
	repair set for gearbox BS 25	20		<b>106041</b>
	repair set for gearbox BS 30	20		<b>106042</b>
	repair set for gearbox BS 35	20		<b>106043</b>
	repair set for gearbox BS 40	20		<b>106044</b>
	repair set for gearbox BS 45	20		<b>106045</b>
	repair set for gearbox BS 50	20		<b>106046</b>

366719  366008 

<b>3.3.9 Accessories for drive gears BS -6</b>				<b>No</b>	<b>No</b> Tricoat
silver	adapter for drive gear DM-6	50		<b>366719</b>	
pearl light grey RAL 9022	spacer	1,5	50	<b>366006</b>	
		5	50	<b>367850</b>	
		8,5	50	<b>366007</b>	
		9,5	50	<b>366008</b>	

### 3.4 Espagnolettes

#### 3.4.1 Espagnolettes BS 15



3.4.1.1 Espagnolettes BS 15 FHH i.S.							No	No Tricoat
silver	430	15	1	125	270 - 430	20	<b>208343</b>	
	660	15	2	190	431 - 660	20	<b>208344</b>	
	840	15	2	300	661 - 840	20	<b>208345</b>	
	1090	15	2	400	841 - 1.090	20	<b>208346</b>	
	1340	15	3	500	1.091 - 1.340	10	<b>208347</b>	
	1590	15	3	600	1.341 - 1.590	10	<b>208348</b>	
	1700	15	3	700	1.591 - 1.700	10	<b>208349</b>	
	1950	15	3	1.050	1.701 - 1.950	10	<b>208350</b>	
	2200	15	4	1.050	1.951 - 2.200	10	<b>208351</b>	
	2450	15	4	1.050	2.201 - 2.450	10	<b>208352</b>	



3.4.1.2 Espagnolettes BS 15 FHH VZ							No	No Tricoat
silver	430	15	1	125	270 - 430	20	<b>211961</b>	<b>236460</b>
	660	15	2	190	431 - 660	20	<b>211962</b>	<b>236461</b>
	840	15	2	300	661 - 840	20	<b>211963</b>	<b>236462</b>
	1090	15	2	400	841 - 1.090	20	<b>211964</b>	<b>236435</b>
	1340	15	3	500	1.091 - 1.340	10	<b>211965</b>	<b>236436</b>
	1590	15	3	600	1.341 - 1.590	10	<b>211966</b>	
	1700	15	3	700	1.591 - 1.700	10	<b>211967</b>	
	1950	15	3	1.050	1.701 - 1.950	10	<b>211968</b>	<b>236437</b>
	2200	15	4	1.050	1.951 - 2.200	10	<b>211969</b>	<b>236438</b>
	2450	15	4	1.050	2.201 - 2.450	10	<b>211970</b>	<b>236439</b>
2600	15	3	1.050	1.801 - 2.600	10	<b>212970<sup>1</sup></b>	<b>236972<sup>1</sup></b>	
		4	1.050	2.451 - 2.600	10	<b>212637</b>		

<sup>1</sup> extendable



3.4.1.3 Espagnolettes BS 15 FHH VZ with offset handle position							No	No Tricoat
silver	1090	15	2	300	841 - 1.090	20	<b>211971</b>	
	1340	15	3	190	1.091 - 1.340	10	<b>218088</b>	
				400	1.091 - 1.340	10	<b>211972</b>	
	1590	15	3	500	1.341 - 1.590	10	<b>211973</b>	<b>236970</b>
	1700	15	3	500	1.591 - 1.700	10	<b>212634</b>	<b>236971</b>
1950	15	3	500	1.701 - 1.950	10	<b>218508</b>		



3.4.1.4 Espagnolettes BS 15 centered i.S.							No	No Tricoat
silver	500	15	2	300 - 500	20	<b>208328</b>	<b>236503</b>	
	700	15	2	501 - 700	20	<b>208329</b>	<b>236500</b>	
	1.000	15	2	701 - 1.000	20	<b>208330</b>	<b>236501</b>	
	1.400	15	3	1.001 - 1.400	10	<b>208331</b>	<b>236502</b>	
	1.800	15	3	1.401 - 1.800	10	<b>208332</b>		
	2.400	15	4	1.801 - 2.400	10	<b>208436</b>		



211989



<b>3.4.1.5 Espagnolettes BS 15 centered VZ</b>						<b>No</b>	<b>No</b> Tricoat
silver	500	15	2	300 - 500	20	<b>211989</b>	<b>236504</b>
	700	15	2	501 - 700	20	<b>211990</b>	<b>236505</b>
	1.000	15	2	701 - 1.000	20	<b>211991</b>	<b>236506</b>
	1.400	15	3	1.001 - 1.400	20	<b>211992</b>	<b>236507</b>
				1.001 - 1.400	10	<b>212694</b>	
	1.800	15	3	1.401 - 1.800	10	<b>211993</b>	<b>236508</b>
2.400	15	4	1.801 - 2.400	10	<b>211994</b>	<b>236973</b>	

212001



212007



<b>3.4.1.6 Espagnolettes BS 15 reverse action VZ</b>						<b>No</b>	<b>No</b> Tricoat	
silver	660	15	0	190	430 - 660	10	<b>208395</b>	<b>236470</b>
	840	15	1	300	661 - 840	10	<b>212000</b>	<b>236471</b>
			0	300	661 - 840	10	<b>212769</b>	
	1090	15	1	400	841 - 1.090	10	<b>212001</b>	<b>236464</b>
	1340	15	1	190	1.091 - 1.340	10	<b>218079</b>	
				500	1.091 - 1.340	10	<b>212002</b>	<b>236465</b>
	1590	15	1	600	1.341 - 1.590	10	<b>212003</b>	
	1700	15	1	700	1.591 - 1.700	10	<b>212004</b>	
	1950	15	2	1.050	1.701 - 1.950	10	<b>212005</b>	<b>236466</b>
	2200	15	2	1.050	1.951 - 2.200	10	<b>212006</b>	<b>236467</b>
	2450	15	3	1.050	2.201 - 2.450	10	<b>212007</b>	<b>236468</b>
	2600	15	3	1.050	2.450 - 2.600	10	<b>212728</b>	<b>236474</b>

212008



<b>3.4.1.7 Espagnolettes BS 15 reverse action VZ with offset handle position</b>						<b>No</b>	<b>No</b> Tricoat	
silver	840	15	1	190	661 - 840	10	<b>216982</b>	
	1090	15	1	190	841 - 1.090	10	<b>216983</b>	
				300	841 - 1.090	10	<b>212008</b>	
	1340	15	1	190	1.091 - 1.340	10	<b>218079</b>	
				400	1.091 - 1.340	10	<b>212009</b>	
	1590	15	1	400	1.341 - 1.590	10	<b>218503</b>	
				500	1.341 - 1.590	10	<b>212010</b>	<b>236469</b>
	1700	15	1	500	1.591 - 1.700	10	<b>212724</b>	<b>236472</b>
	1950	15	2	400	1.701 - 1.950	10	<b>218504</b>	
				500	1.701 - 1.950	10	<b>218505</b>	
	2200	15	2	400	1.951 - 2.200	10	<b>212727</b>	
				500	1.951 - 2.200	10	<b>212726</b>	<b>236473</b>

**3.4.2 Espagnolettes BS 6.5**

211983



<b>3.4.2.1 Espagnolettes BS 6.5 FHH VZ</b>							<b>No</b>	<b>No</b> Tricoat
silver	660	6,5	2	190	431 - 660	20	<b>211981</b>	
	840	6,5	2	300	661 - 840	20	<b>211982</b>	
	1090	6,5	2	400	841 - 1.090	20	<b>211983</b>	
	1340	6,5	3	500	1.091 - 1.340	10	<b>211984</b>	
	1590	6,5	3	600	1.341 - 1.590	10	<b>211985</b>	
	1700	6,5	3	700	1.591 - 1.700	10	<b>211986</b>	
	1950	6,5	3	1.050	1.701 - 1.950	10	<b>211987</b>	
	2200	6,5	4	1.050	1.951 - 2.200	10	<b>211988</b>	

218116



<b>3.4.2.2 Espagnolettes BS 6.5 FHH VZ with offset handle position</b>							<b>No</b>	<b>No</b> Tricoat
silver	840	6,5	2	0	190	661 - 840	20	<b>218115</b>
	1090	6,5	0	2	190	841 - 1.090	20	<b>218116</b>
	1340	6,5	0	3	190	1.091 - 1.340	10	<b>218117</b>

213522



<b>3.4.2.3 Espagnolettes BS 6.5 with gearbox reverse action VZ with offset handle position</b>							<b>No</b>	<b>No</b> Tricoat
silver	840	6,5	1	190	661 - 840	10	<b>216353</b>	
	1090	6,5	1	190	841 - 1.090	10	<b>216354</b>	
	1340	6,5	1	190	1.091 - 1.340	10	<b>213522</b>	
				400	1.091 - 1.340	10	<b>213524</b>	
	1590	6,5	1	500	1.341 - 1.590	10	<b>213526</b>	
	1700	6,5	2	500	1.591 - 1.700	10	<b>213529</b>	
				600	1.591 - 1.700	10	<b>213528</b>	
	2200	6,5	2	600	1.951 - 2.200	10	<b>213533</b>	

208325









<b>3.4.2.4 Espagnolettes BS 6.5 centered i.S.</b>						<b>No</b>	<b>No</b> Tricoat
silver	500	6,5	2	390 - 500	20	<b>208323</b>	
	700	6,5	2	501 - 700	20	<b>208324</b>	
	1.000	6,5	2	701 - 1.000	20	<b>208325</b>	
	1.400	6,5	3	1.001 - 1.400	10	<b>208326</b>	
	1.800	6,5	3	1.401 - 1.800	10	<b>208327</b>	

211997



<b>3.4.2.5 Espagnolettes BS 6.5 centered VZ</b>						<b>No</b>	<b>No</b> Tricoat
silver	500	6,5	2	390 - 500	20	<b>211995</b>	
	700	6,5	2	501 - 700	20	<b>211996</b>	
	1.000	6,5	2	701 - 1.000	20	<b>211997</b>	
	1.400	6,5	3	1.001 - 1.400	10	<b>211998</b>	
	1.800	6,5	3	1.401 - 1.800	10	<b>211999</b>	

213521 

3.4.2.6 Espagnolettes BS 6.5 with gearbox reverse action VZ							No	No Tricoat
silver	660	6,5	0	190	431 - 660	10	<b>213516</b>	
	840	6,5	1	300	661 - 840	10	<b>213520</b>	
	1090	6,5	1	400	841 - 1.090	10	<b>213521</b>	
	1340	6,5	1	500	1.091 - 1.340	10	<b>213523</b>	
	1590	6,5	1	600	1.341 - 1.590	10	<b>213525</b>	
	1700	6,5	2	700	1.591 - 1.700	10	<b>213527</b>	
	1950	6,5	2	1.050	1.701 - 1.950	10	<b>213530</b>	
	2200	6,5	2	1.050	1.951 - 2.200	10	<b>213531</b>	
	2450	6,5	2	1.050	2.201 - 2.450	10	<b>213534</b>	



## 3.4.3 Espagnolettes with mounted tilt stay

206268



3.4.3.1 Espagnolettes centered i.S. with mounted tilt stay					No	No Tricoat
	1.000	15	2	20		
silver	1.000	15	2	20	206268 <sup>1,2</sup>	236475 <sup>1,2</sup>
	1.300	15	3	10	206269 <sup>1,2</sup>	236476 <sup>1,2</sup>
	1.700	15	3	10	206270 <sup>2,3</sup>	236477 <sup>2,3</sup>

<sup>1</sup> One mounted tilt stay.

<sup>2</sup> 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.

<sup>3</sup> Two mounted tilt stays.

212702



3.4.3.2 Espagnolettes centered VZ with mounted tilt stay					No	No Tricoat
	1.000	15	2	20		
silver	1.000	15	2	20	212702 <sup>1,2</sup>	
	1.300	15	3	10	212703 <sup>1,2</sup>	
	1.700	15	3	10	212704 <sup>2,3</sup>	

<sup>1</sup> One mounted tilt stay.

<sup>2</sup> 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.

<sup>3</sup> Two mounted tilt stays.

206174



3.4.3.3 Espagnolettes VHH i.S. with mounted tilt stay							No	No Tricoat
	1.250	15	1	755 - 1.250	20			
silver	1.250	15	1	755 - 1.250	20		206174 <sup>1,2</sup>	236478 <sup>1,2</sup>
	1.700	15	2	1.501 - 1.700	10		212772 <sup>2,3</sup>	236509 <sup>2,3</sup>
	2.200	15	3	1.701 - 2.200	10		206271 <sup>2,3</sup>	236479 <sup>2,3</sup>

<sup>1</sup> One mounted tilt stay.

<sup>2</sup> 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.

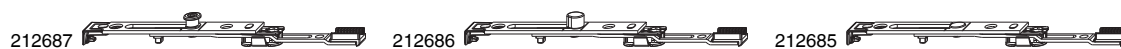
<sup>3</sup> Two mounted tilt stays.

94074

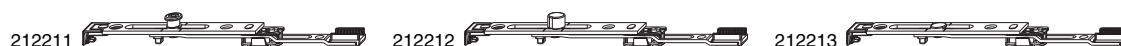


3.4.3.4 Faceplate restrainer for espagnolette		No	No Tricoat
silver	100	94074	

## 3.5 End pieces



3.5.1 End pieces with 90° restriction (turn-only)					No	No Tricoat
silver	90° top with 1 i.S.	0	1	20	<b>212687</b>	<b>233641</b>
	90° top with 1 VZ	1	0	20	<b>212686</b>	
	90° top without cam	0	0	20	<b>212685</b>	

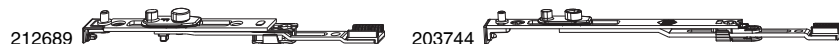


3.5.2 End pieces for 180° (T&T, French casement drive gears)					No	No Tricoat
silver	180° bottom and top with 1 i.S.	0	1	20	<b>212211</b>	<b>233629</b>
	180° bottom and top with 1 VZ	1	0	20	<b>212212</b>	
	180° bottom and top without cam	0	0	20	<b>212213</b>	<b>233640</b>



3.5.3 End piece top for half round windows					No	No Tricoat
silver	top with 1 i.S.	450 - 1.000	1	20	<b>205177<sup>1</sup></b>	<b>233626<sup>1</sup></b>

<sup>1</sup> Use possible only with 1-sashed windows.



3.5.4 End pieces with tilt lock bolt		L			No	No Tricoat
silver	for windows bottom	113,5	470 - 1.750	20	<b>212689</b>	<b>233643</b>
	for doors bottom	113,5	1.751 - 2.250	20	<b>212688</b>	<b>233642</b>
	for variable drive gear	169	1.701 - 2.450	20	<b>203744<sup>1</sup></b>	

<sup>1</sup> For use with drive gears with 170 mm notch.



3.5.5 End piece EH for drive gears					No	No Tricoat
silver	bottom with 1 i.S.	1.701 - 2.450	1	20	<b>205644<sup>1,2</sup></b>	<b>233628<sup>1,2</sup></b>



<sup>1</sup> For use with drive gears with 170 mm notch.

<sup>2</sup> For burglar-resistant windows according to standard EN 1627.



3.5.6 End piece bottom MM with reverse action for turn-only windows with deadbolt protrusion				No	No Tricoat
silver		500 - 2.350	20	<b>225092</b>	<b>233625</b>



<b>3.5.7 End pieces top for reverse action espagnolette</b>				<b>No</b>	<b>No</b> Tricoat
silver	for reverse action espagnolette top with shootbolt	431 - 2.450	20	<b>208432</b>	<b>236434</b>
	for reverse action espagnolette extendable top with extendable shootbolt protrusion slanted on one side	431 - 2.450	100	<b>214013</b>	
	for reverse action espagnolette extendable top with extendable shootbolt protrusion slanted on both sides	431 - 2.450	100	<b>214014</b>	
	for reverse action espagnolette lockcase top with extendable shootbolt protrusion	431 - 2.450	100	<b>214015</b>	
	for reverse action espagnolette extendable top with extendable shootbolt protrusion	431 - 2.450	20	<b>214016</b>	<b>233644</b>
	for reverse action espagnolette extendable top with extendable shootbolt protrusion slanted on one side, right	431 - 2.450	100	<b>218977</b>	
	for reverse action espagnolette extendable top with extendable shootbolt protrusion slanted on one side, left	431 - 2.450	100	<b>218978</b>	

## 3.6 Balcony door locks B-TV



203834

<b>3.6.1 Balcony door locks B-TV E85 with PC</b>		L							No	No Tricoat
silver	fixed handle height with 2 i.S. cams	1.347	28	8	1.050	85	5		<b>203834</b>	
									<b>203835</b>	
									<b>203836</b>	
									<b>203837</b>	
									<b>203838</b>	
									<b>203839</b>	



203696

<b>3.6.2 Balcony door locks B-TV E92 with PC</b>		L							No	No Tricoat
silver	fixed handle height with 2 i.S. cams	1.347	25	8	1.050	92	5		<b>203828</b>	
									<b>203696</b>	<b>234849</b>
									<b>203829</b>	<b>234850</b>
									<b>203830</b>	<b>234848</b>
									<b>203831</b>	<b>234847</b>
									<b>203832</b>	<b>234846</b>
									<b>203833</b>	



203840

<b>3.6.3 Balcony door locks B-TV E94 with RC</b>		L							No	No Tricoat
silver	fixed handle height with 2 i.S. cams	1.347	28	8	1.050	94	5		<b>203840</b>	
									<b>203841</b>	
									<b>203842</b>	
									<b>203843</b>	
									<b>203844</b>	
									<b>203845</b>	







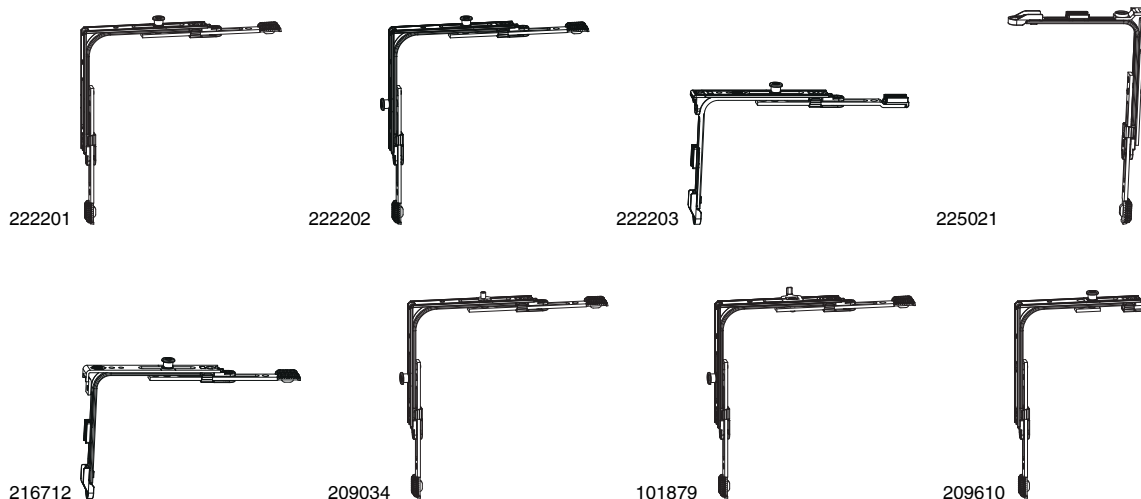
## 4 Corner elements

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## 4 Corner elements

### 4.1 Corner elements i.S.



4.1.1 Corner elements standard i.S.					No	No Tricoat
silver	with 1 i.S.	320 - 1.800	360 - 2.800	50	<b>222201</b>	<b>232851</b>
	with 2 i.S.	320 - 1.800	360 - 2.800	50	<b>222202</b>	<b>232854</b>
	short with 1 i.S.	220 - 319	275 - 359	50	<b>222203<sup>1</sup></b>	<b>232853<sup>2</sup></b>
	short with shootbolt protrusion and faceplate fixing	225 - 319	275 - 359	50	<b>225021<sup>3,4</sup></b>	<b>232882<sup>4,5</sup></b>
	short with faceplate fixing with 1 i.S.	225 - 324	280 - 364	50	<b>216712<sup>6</sup></b>	<b>232880<sup>7</sup></b>
	for night ventilation with 1 i.S.	320 - 1.800	360 - 2.800	50	<b>209034</b>	
	with 5 ventilation positions with 1 i.S.	400 - 1.000	800 - 1.700	30	<b>101879<sup>8</sup></b>	<b>105952<sup>8</sup></b>
for turn-only window with 1 i.S.	320 - 1.800	360 - 2.800	50	<b>209610</b>	<b>232877</b>	

<sup>1</sup> Countersunk head screw M4x8 mm self-forming, item no. 101339 included.

<sup>2</sup> Countersunk head screw M4x8 mm self-forming, item no. 106024 included.

<sup>3</sup> Countersunk head screw M4x6 mm item no. 104548 included.

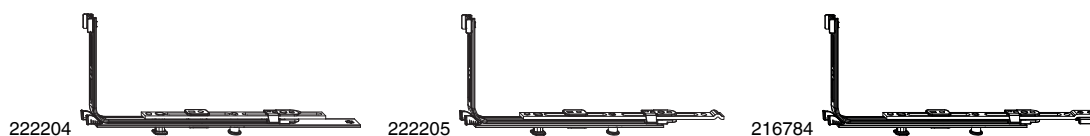
<sup>4</sup> Can be used only in combination with french casement drive gears for tilt lock bolt.

<sup>5</sup> Countersunk head screw M4x6 mm item no. 106190 included.

<sup>6</sup> Countersunk head screw M4x6 mm self-forming, item no. 40533 included.

<sup>7</sup> Countersunk head screw M4x6 mm self-forming, item no. 106191 included.

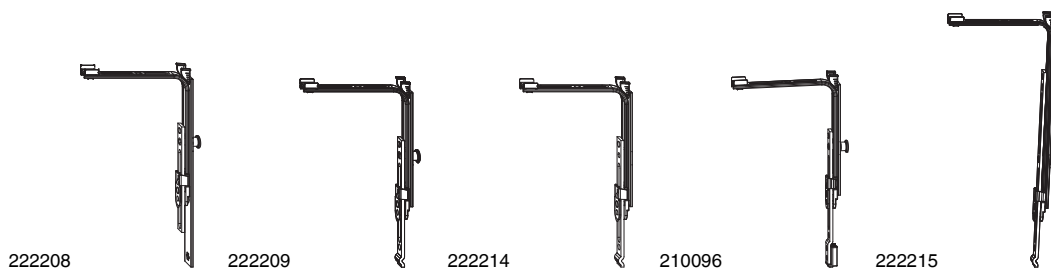
<sup>8</sup> Observe rebate depth with timber!





4.1.2 Corner elements horizontal i.S.				No	No Tricoat
silver	horizontal with 1 i.S.	320 - 750	50	<b>222204<sup>1</sup></b>	
	horizontally extendable with 1 i.S.	320 - 1.800	50	<b>222205<sup>1</sup></b>	<b>232856<sup>1</sup></b>
	with serrated carrier horizontally extendable with 1 i.S.	320 - 1.800	50	<b>216784<sup>1</sup></b>	<b>232881<sup>1</sup></b>

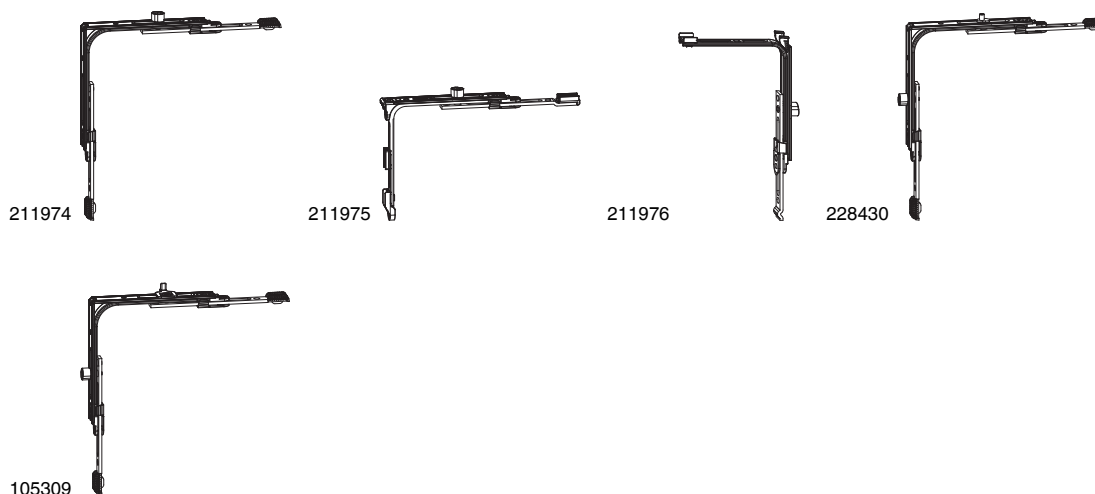
<sup>1</sup> In combination with rebated corner supports possible from SRW 365 mm.

# Corner elements



<b>4.1.3 Corner elements vertical i.S.</b>				<b>No</b>	<b>No</b> Tricoat
silver	vertical with 1 i.S.	470 - 750	50	<b>222208</b>	<b>232879</b>
	vertically extendable with 1 i.S.	750 - 2.800	50	<b>222209</b>	<b>232862</b>
	vertically extendable without i.S. cams	750 - 2.800	50	<b>222214</b>	<b>232864</b>
	with serrated carrier vertically extendable with 1 i.S.	750 - 2.800	10	<b>210096</b>	<b>232866</b>
	vertically extendable with 1 i.S.	750 - 2.800	50	<b>222215</b>	<b>232863</b>

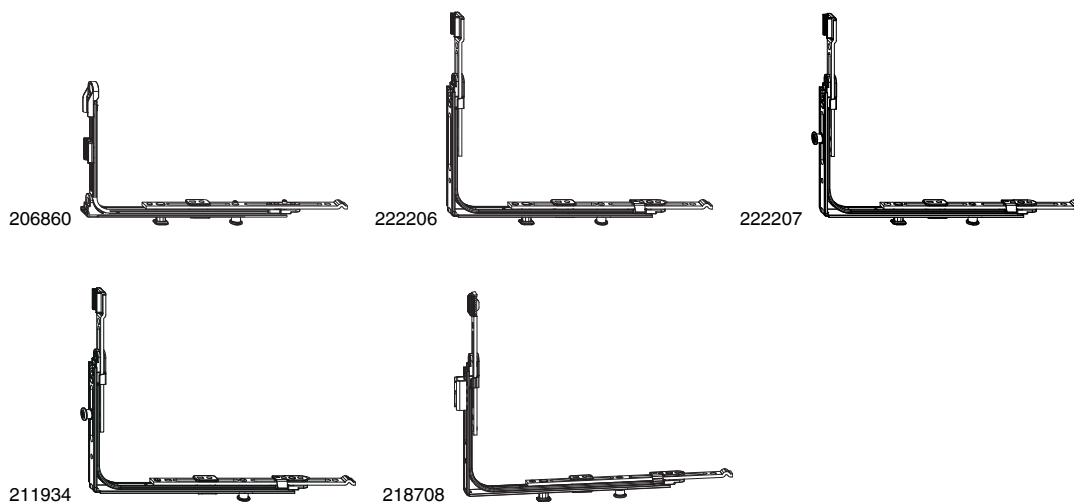




<b>4.2 Corner elements VZ</b>					<b>No</b>	<b>No</b> Tricoat
silver	with 1 VZ	320 - 1.800	360 - 2.800	50	<b>211974</b>	
	short with 1 VZ	220 - 319	275 - 359	50	<b>211975<sup>1</sup></b>	
	vertically extendable with 1 VZ	320 - 1.800	750 - 2.800	50	<b>211976</b>	
	for night ventilation with 1 VZ	320 - 1.800	360 - 2.800	50	<b>228430</b>	
	with 5 ventilation positions with 1 VZ	400 - 1.000	800 - 1.700	30	<b>105309<sup>2</sup></b>	

<sup>1</sup> Countersunk head screw M4x8 mm self-forming, item no. 101339 included.

<sup>2</sup> Observe rebate depth with timber!

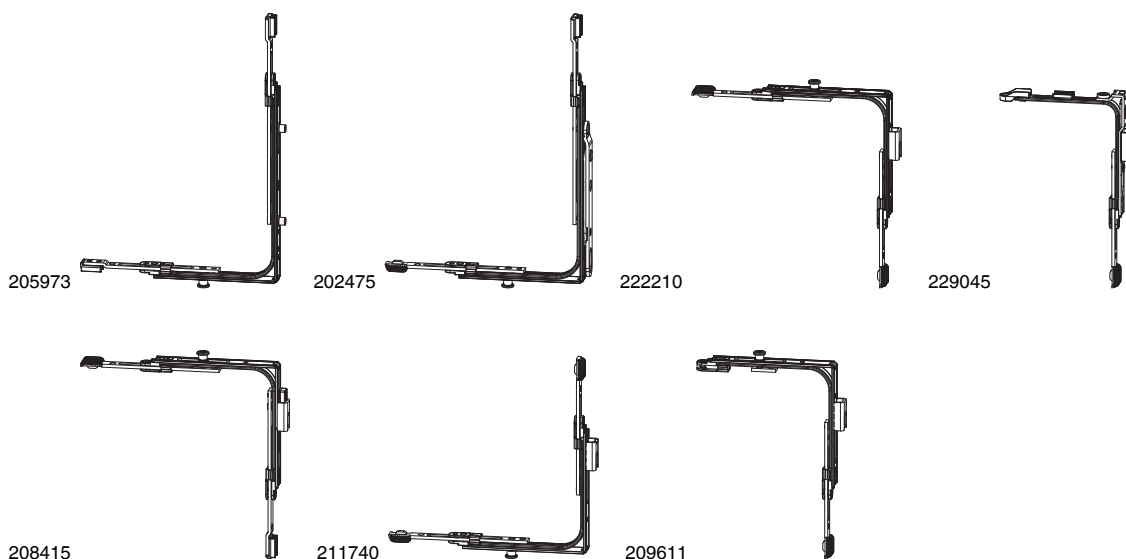


<b>4.3 Corner elements horizontal i.S. for drive gears VHH</b>					<b>No</b>	<b>No</b> Tricoat
silver	short for variable espagnolettes horizontally extendable with 1 i.S.	320 - 1.800	250 - 650	50	<b>206860<sup>1,2</sup></b>	<b>232859<sup>2,3</sup></b>
	for variable drive gear horizontally extendable with 1 i.S.	320 - 1.800	470 - 2.800	50	<b>222206<sup>2</sup></b>	<b>232857<sup>2</sup></b>
	for variable drive gear horizontally extendable with 2 i.S.	320 - 1.800	470 - 2.800	50	<b>222207<sup>2</sup></b>	<b>232858<sup>2</sup></b>
	for variable drive gear for tilt-first horizontally extendable with 2 i.S.	320 - 1.800	470 - 2.800	50	<b>211934<sup>2</sup></b>	<b>232887<sup>2</sup></b>
	for variable drive gear horizontally extendable with 1 i.S. cam and striker	320 - 1.800	470 - 2.800	50	<b>218708<sup>2</sup></b>	

<sup>1</sup> Countersunk head screw M4x8 mm self-forming, item no. 101339 included.

<sup>2</sup> In combination with rebated corner supports possible from SRW 365 mm.

<sup>3</sup> Countersunk head screw M4x8 mm self-forming, item no. 106024 included.



<b>4.4 Corner elements i.S. for French casement drive gears</b>					<b>No</b>	<b>No</b> Tricoat
silver	variable 1250 concealed with 1 i.S.		801 - 1.250	10	<b>205973</b> <sup>1</sup>	
	variable 1250 with reverse-action lever with 1 i.S.		801 - 1.250	10	<b>202475</b> <sup>2</sup>	<b>250232</b> <sup>2</sup>
	2-sashed with 1 i.S. cam and striker	320 - 1.800	360 - 2.800	20	<b>222210</b>	<b>232852</b>
	2-sashed short with shootbolt protrusion and welded-on striker	225 - 319	275 - 359	50	<b>229045</b> <sup>3</sup>	
	2-sashed RC2 with sliding locks with 1 i.S.	320 - 1.800	360 - 2.800	20	<b>208415</b> <sup>4</sup>	<b>232871</b> <sup>4</sup>
	2-sashed RC2 with striker for bottom	320 - 1.800	841 - 2.800	50	<b>211740</b>	<b>232872</b>
	2-sashed for turn-only window with 1 i.S. cam and striker	320 - 1.800	360 - 2.800	20	<b>209611</b>	<b>232873</b>

<sup>1</sup> Can be used only in combination with French casement drive gears for intermediate profiles VHH (item no. 205970)!

<sup>2</sup> Can be used only in combination with French casement drive gears for Eurogroove VHH (item no. 227937 and item no. 202471)!

<sup>3</sup> Can be used only in combination with T&T drive gears with tilt lock bolt.

<sup>4</sup> For burglar-resistant windows according to standard EN 1627.





<b>4.5 Corner elements i.S. for angled windows</b>				<b>No</b>	<b>No</b> Tricoat	
silver	with 1 i.S.		440 - 1.300	20	<b>222212</b>	<b>232855</b>
	with 2 i.S.		440 - 1.300	20	<b>214990</b>	<b>232875</b>
	short with 1 i.S.		330 - 1.300	50	<b>209655</b>	<b>232874</b>



222211



222213




<b>4.6 Corner elements i.S. for half round windows</b>				<b>No</b>	<b>No</b> Tricoat
silver	horizontally croppable with 1 i.S.	450 - 1.300	10	<b>222211<sup>1</sup></b>	<b>232860<sup>1</sup></b>
	for tilt lock bolt horizontally croppable without cam	450 - 1.300	10	<b>215216<sup>1</sup></b>	<b>232884<sup>1</sup></b>
	4 mm air gap horizontally croppable with 1 i.S.	450 - 1.300	10	<b>218072<sup>1</sup></b>	
	for variable drive gear horizontally croppable with 2 i.S.	450 - 1.300	10	<b>222213<sup>1</sup></b>	<b>232861<sup>1</sup></b>
	for variable drive gear 4 mm air gap horizontally croppable with 2 i.S.	450 - 1.300	10	<b>218071<sup>1</sup></b>	

<sup>1</sup> Use short corner element and pivot post for PVC for SRW below 380 mm.

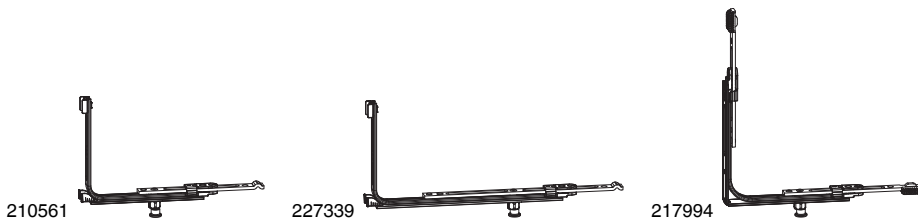


224283

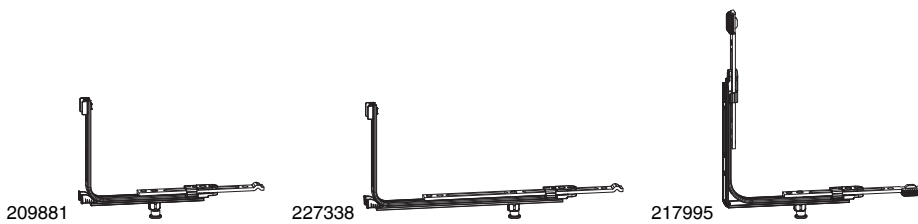
224282

<b>4.7 Corner element two-part</b>					<b>No</b>	<b>No</b> Tricoat
silver	vertically extendable	500 - 1.650		50	<b>224283</b>	<b>232883</b>
	corner connector MM bottom for half round			20	<b>224282</b>	<b>236889</b>

## Corner elements



<b>4.8 Corner element for threshold 14 mm air gap</b>				<b>No</b>	<b>No</b> Tricoat
silver	corner element MM for threshold	260 - 1.800	50	<b>210561</b>	<b>232878</b>
	corner element MM for threshold for EH	320 - 1.800	50	<b>227339</b>	
	corner element MM for threshold for variable drive gear	260 - 1.800	50	<b>217994</b>	<b>232886</b>



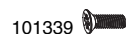
<b>4.9 Corner element for threshold 18 mm air gap</b>					<b>No</b>	<b>No</b> Tricoat
silver	corner element MM for threshold	for 18 mm air gap	260 - 1.800	50	<b>209881</b>	<b>232867</b>
	corner element MM for threshold for EH	for 18 mm air gap	320 - 1.800	50	<b>227338</b>	
	corner element MM for threshold for variable drive gear	with long cam 18 mm air gap	260 - 1.800	360 - 2.800	50	<b>217995</b>
		with long cam 18 mm air gap and 1 i.S.	260 - 1.800	360 - 2.800	50	<b>226694</b>
		with long cam 18 mm air gap and striker plate	260 - 1.800	360 - 2.800	50	<b>226695</b>

## 4.10 Accessories for corner elements



4.10.1 Travel restrictions			No	No Tricoat
silver	90° travel restriction surface-mounted	200	357081 <sup>1</sup>	385099 <sup>1</sup>
white	clip-on 90° travel-restriction MM PVC	200	355418 <sup>1</sup>	
	90° travel restriction surface-mounted PVC	200	43625 <sup>1</sup>	

<sup>1</sup> Can also be supplied in quantities less than one packaging unit.



4.10.2 Countersunk screw M4x8 for short corner element		L		No	No Tricoat
silver		8	50	101339	106024



4.10.3 E-style retaining ring for shaft 5 mm			No	No Tricoat
blank		1.000	41823	



4.10.4 Faceplate restrainer			No	No Tricoat
pearl light grey RAL 9022		100	355678 <sup>1</sup>	

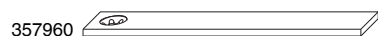
<sup>1</sup> Can also be supplied in quantities less than one packaging unit.



4.10.5 Adapter component straight MM/MT / replacement part			No	No Tricoat
silver		100	352980 <sup>1,2</sup>	385100 <sup>1,2</sup>

<sup>1</sup> Can also be supplied in quantities less than one packaging unit.

<sup>2</sup> Creates no positive connection.



4.10.6 Faceplate strip cover		L		No	No Tricoat
silver		90	100	357960	385090



4.10.7 Cropped area cover caps			No	No Tricoat
pearl light grey RAL 9022		100	354966	
	with imprint MACO 2-coloured	100	357252	




## Corner elements

358368 

<b>4.10.8 Connecting plate EH</b>		<b>No</b>	<b>No</b> Tricoat
silver	100	<b>358368<sup>1</sup></b>	<b>385101<sup>1</sup></b>

<sup>1</sup> For burglar-resistant windows according to standard EN 1627.

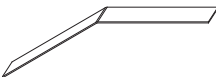
103121  455213 

<b>4.10.9 Short catching plate for multi-stepped ventilation</b>	$\emptyset$	L		<b>No</b>	<b>No</b> Tricoat			
silver	short catching plate for multi-stepped ventilation		30	<b>103121<sup>1</sup></b>				
		cylinder screw cross recess	M	5	12	300	<b>455213</b>	

<sup>1</sup> Applicable for timber from rebate depth 30 mm.


363796 

<b>4.10.10 Insert as operation lock for corner element for 3-sashed elements</b>		<b>No</b>	<b>No</b> Tricoat
silver	50	<b>363796</b>	


104256 

<b>4.10.11 Adhesive film for corner element for angled windows</b>		<b>No</b>	<b>No</b> Tricoat
silver	100	<b>104256</b>	

366348 

<b>4.10.12 Run-up for horizontal corner element</b>		<b>No</b>	<b>No</b> Tricoat
pearl light grey RAL 9022	100	<b>366348</b>	

44273 

<b>4.10.13 Clip-on component for serrated carrier punched</b>		<b>No</b>	<b>No</b> Tricoat
white	200	<b>44273</b>	







## 5 Centre locks, Horizontal tilt locks, Faceplate extensions




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# Centre locks, Horizontal tilt locks, Faceplate extensions




## 5 Centre locks, Horizontal tilt locks, Faceplate extensions

201751 

5.1 Centre locks FHH i.S.				L			No	No Tricoat
silver	1280	with 1 i.S.	1	470	801 - 1.280	20	<b>201751</b>	<b>232895</b>
	1500	with 1 i.S.	1	705	1.281 - 1.500	20	<b>201752</b>	<b>232896</b>

201840 

201754 



5.2 Centre locks extendable i.S.				L			No	No Tricoat
silver	1280V	with 1 i.S.	1	470	801 - 1.280	20	<b>201840<sup>1</sup></b>	<b>232893<sup>1</sup></b>
	1500V	with 1 i.S.	1	705	1.281 - 1.500	20	<b>201753</b>	<b>232894</b>
	Use 201753 and 201840 for application range 1501-1700 mm.							
	2200V	with 2 i.S.	2	1.410	1.701 - 2.200	10	<b>201754</b>	<b>232897</b>

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



215272 

5.3 Centre locks extendable VZ				L			No	No Tricoat
silver	1280V	with 1 VZ	1	470	801 - 1.280	20	<b>215272<sup>1</sup></b>	

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

229393  224130 

224131 

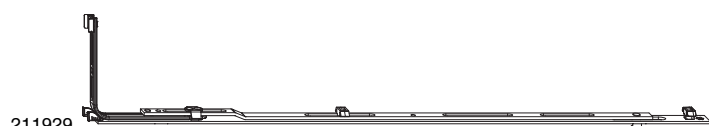
5.4 Centre locks reverse action i.S.				L		No	No Tricoat
silver	centre lock horizontal reverse action MM	with 2 i.S.	2	360	20	<b>229393</b>	
				470	20	<b>224130</b>	
	centre lock vertical reverse action MM	with 2 i.S.	2	470	20	<b>224131</b>	

# Centre locks, Horizontal tilt locks, Faceplate extensions

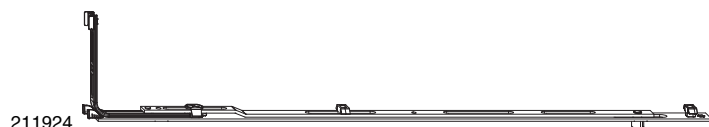


5.5 Centre locks for half round windows						No	No Tricoat
silver	for turn-only window top with 2 i.S.		671 - 1.250	2	10	<b>212963<sup>1</sup></b>	
	croppable 1090/600 top with 3 i.S.		671 - 1.250	3	10	<b>209033<sup>1</sup></b>	<b>250576<sup>1</sup></b>

<sup>1</sup> Use possible only with 1-sashed windows.



5.6 Centre locks single piece i.S.						No	No Tricoat
silver	700	with 1 i.S.	1	480 - 700	20	<b>218493</b>	
	Use 215449 (single-piece centre lock size 840) for application range 701-800 mm.						
	1280	with 1 i.S.	1	801 - 1.280	20	<b>211929</b>	<b>232903</b>
	1500	with 1 i.S.	1	1.281 - 1.500	20	<b>211930</b>	<b>232904</b>
		with 2 i.S.	2	1.281 - 1.500	20	<b>215696</b>	<b>232901</b>
	2000	with 2 i.S.	2	1.501 - 2.000	10	<b>211931</b>	<b>232905</b>
	2200V	with 2 i.S.	2	2.001 - 2.200	10	<b>211932</b>	<b>232906</b>
2450	with 3 i.S.	3	2.201 - 2.450	10	<b>211933</b>	<b>232907</b>	



5.7 Centre locks single piece VZ						No	No Tricoat
silver	700	with 1 VZ	1	480 - 700	20	<b>228398</b>	
	1280	with 1 VZ	1	801 - 1.280	20	<b>211924</b>	
	1500	with 1 VZ	1	1.281 - 1.500	20	<b>211925</b>	
	2000	with 2 VZ	2	1.501 - 2.000	10	<b>211926</b>	
	2200V	with 2 VZ	2	2.001 - 2.200	10	<b>211927</b>	
	2450	with 3 VZ	3	2.201 - 2.450	10	<b>211928</b>	




# Centre locks, Horizontal tilt locks, Faceplate extensions



215450

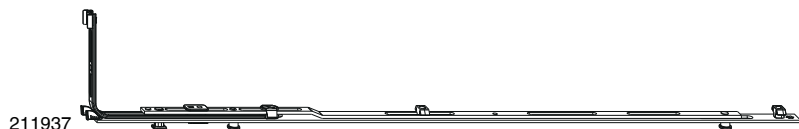
215463






5.8 Centre locks single piece EH						No	No Tricoat
silver	700	with 2 i.S.	2	480 - 700	20	215448 <sup>1</sup>	232911 <sup>1</sup>
	840	with 2 i.S.	2	701 - 840	20	215449 <sup>1,2</sup>	232912 <sup>1,2</sup>
	1090	with 2 i.S.	2	841 - 1.090	20	215450 <sup>1</sup>	232913 <sup>1</sup>
	1200	with 3 i.S.	3	1.091 - 1.200	20	215451 <sup>1</sup>	232914 <sup>1</sup>
	1340	with 3 i.S.	3	1.201 - 1.340	20	215452 <sup>1</sup>	232915 <sup>1</sup>
	1450	with 3 i.S.	3	1.341 - 1.450	20	215453 <sup>1</sup>	232916 <sup>1</sup>
	1590	with 3 i.S.	3	1.451 - 1.590	10	215454 <sup>1</sup>	232917 <sup>1</sup>
	1700	with 3 i.S.	3	1.591 - 1.700	20	215455 <sup>1</sup>	232918 <sup>1</sup>
	1850	with 3 i.S.	3	1.701 - 1.850	10	215456 <sup>1</sup>	232919 <sup>1</sup>
	1950	with 3 i.S.	3	1.851 - 1.950	10	215457 <sup>1</sup>	236974 <sup>1</sup>
	2000	with 4 i.S.	4	1.951 - 2.000	10	215458 <sup>1</sup>	232920 <sup>1</sup>
	2100	with 4 i.S.	4	2.001 - 2.100	10	215459 <sup>1</sup>	232921 <sup>1</sup>
	2300	with 4 i.S.	4	2.101 - 2.300	10	215460 <sup>1</sup>	232922 <sup>1</sup>
	2450	with 4 i.S.	4	2.301 - 2.450	10	215461 <sup>1</sup>	232923 <sup>1</sup>
	2500	with 4 i.S.	4	2.451 - 2.500	10	215462 <sup>1</sup>	232924 <sup>1</sup>
	2600V	with 4 i.S.	4	2.501 - 2.600	10	215463 <sup>1</sup>	

<sup>1</sup> For burglar-resistant windows according to standard EN 1627.

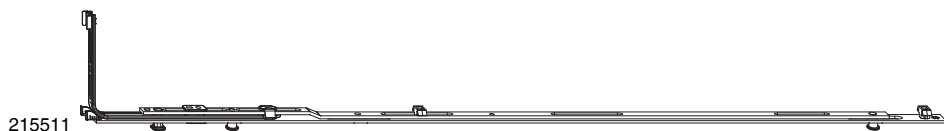
<sup>2</sup> As for single-piece centre lock 1280 but with 2 i.S.



211937

5.9 Tilt locks single piece i.S.						No	No Tricoat
silver	1280	with 2 i.S.	2	801 - 1.280	20	211937	232908
	1500	with 2 i.S.	2	1.281 - 1.500	20	211938	232909

# Centre locks, Horizontal tilt locks, Faceplate extensions



5.10 Tilt locks single piece EH						No	No Tricoat
silver	480	with 2 i.S.	2	350 - 524	20	215880 <sup>1</sup>	232928 <sup>1</sup>
	700	with 2 i.S.	2	525 - 700	20	215509 <sup>1</sup>	232925 <sup>1</sup>
	800	with 2 i.S.	2	701 - 800	20	215510 <sup>1</sup>	
	For application range 801-900 mm use single-piece tilt lock 211937 (size 1280).						
	1150	with 2 i.S.	2	901 - 1.150	20	215511 <sup>1</sup>	232926 <sup>1</sup>
	1280	with 2 i.S.	2	801 - 1.280	20	211937 <sup>1</sup>	232908 <sup>1</sup>
	1500	with 3 i.S.	3	1.301 - 1.500	20	215513 <sup>1</sup>	232927 <sup>1</sup>

<sup>1</sup> For burglar-resistant windows according to standard EN 1627.



5.11 Faceplate extensions fixed and extendable				L		No	No Tricoat
silver	faceplate extension without serrated carrier MM	with 1 i.S.	1	235	20	210496	232900
		with 2 i.S.	2	235	20	214547	
	faceplate extension MM, extendable		0	138,5	20	206630	232890
		with 1 i.S.	1	138,5	20	201841	232889
			0	235	20	206197	232892
		with 1 i.S.	1	235	20	201750	232891
		with 2 i.S.	2	235	20	214546	
		with sash lifter	0	235	20	212214	
		with pull-in wedge right	0	235	20	217865	
with pull-in wedge left	0	235	20	217866			



5.12 Faceplate extensions croppable MM			L			No	No Tricoat
silver	515	with sash lifter	515	250	20	218214	
		with sash-lifter run-up	515	250	20	218215	



5.13 Faceplate extensions croppable MM B-TV				L			No	No Tricoat
silver	1950	with 1 i.S.	1	497	260	10	203697	
	2200	with 1 i.S.	1	747	260	10	203698	
	2450	with 2 i.S.	2	997	260	10	203699	

## Centre locks, Horizontal tilt locks, Faceplate extensions



227619

<b>5.14 Faceplate extensions for threshold 14 mm air gap</b>		<b>L</b>		<b>No</b>	<b>No</b> Tricoat
silver	faceplate extension MM, extendable 235	235	20	<b>227619</b>	



210562

<b>5.15 Centre locks for threshold 14 mm air gap</b>				<b>No</b>	<b>No</b> Tricoat
silver	centre lock extendable MM 1280V	801 - 1.280	10	<b>210562</b>	<b>232929</b>
	centre lock extendable MM 1500V	1.281 - 1.500	10	<b>210563</b>	



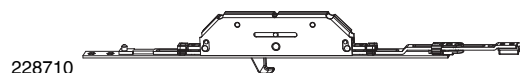
214848

<b>5.16 Faceplate extensions for threshold 18 mm air gap</b>		<b>L</b>		<b>No</b>	<b>No</b> Tricoat
silver	faceplate extension MM, extendable 235	235	10	<b>214848</b>	<b>232930</b>



209882

<b>5.17 Centre locks for threshold 18 mm air gap</b>				<b>No</b>	<b>No</b> Tricoat
silver	centre lock extendable MM 1280V	801 - 1.280	10	<b>209882</b>	<b>232899</b>
	centre lock extendable MM 1500V	1.281 - 1.500	10	<b>209883</b>	



228710

<b>5.18 Hook closure horizontally extendable</b>		<b>L</b>			<b>No</b>	<b>No</b> Tricoat
silver	350	for 10 mm air gap	349	540 - 1.800	10	<b>229814</b>
		for 7.5 mm air gap	349	540 - 1.800	10	<b>228710</b>



210335

<b>5.19 Height connectors SKB-S/SE</b>				<b>No</b>	<b>No</b> Tricoat	
silver	with 1 i.S.	1090	841 - 1.090	10	<b>210335</b>	<b>233142</b>
		1340	1.091 - 1.340	10	<b>210336</b>	<b>233143</b>
	with 2 i.S.	1590	1.341 - 1.590	10	<b>210337</b>	<b>233144</b>
		1700	1.591 - 1.700	10	<b>210338</b>	<b>233145</b>
	with 3 i.S.	1950	1.701 - 1.950	10	<b>210339</b>	<b>233146</b>
		2200	1.951 - 2.200	10	<b>210340</b>	<b>233147</b>
	with 4 i.S.	2450	2.201 - 2.450	10	<b>210341</b>	<b>233148</b>

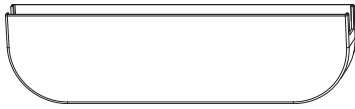


210380

<b>5.20 Width connectors SKB-S/SE</b>				<b>No</b>	<b>No</b> Tricoat	
silver	with 1 i.S.	900	620 - 900	20	<b>210380</b>	<b>233138</b>
		1150	901 - 1.150	20	<b>210381</b>	<b>233139</b>
	with 2 i.S.	1400	1.151 - 1.400	20	<b>210382</b>	<b>233140</b>
		1650	1.401 - 1.650	10	<b>210383</b>	<b>233141</b>



# Centre locks, Horizontal tilt locks, Faceplate extensions



371808

## 5.21 Accessories for hook closure



**No**

**No**  
Tricoat

VCI anticorrosive protective cover for additional locking point

10

**371808**



Centre locks, Horizontal tilt locks,  
Faceplate extensions



## 6 Scissor stays





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6.1	Rebated scissor stays _____	190
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## 6 Scissor stays

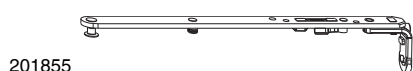
### 6.1 Rebated scissor stays





6.1.1 Scissor stay faceplates i.S. with night-vent						No	No Tricoat	
silver	right	400	0	320 - 400	220 - 320	20	<b>201821</b>	<b>236518</b>
		600	0	401 - 600	321 - 490	20	<b>201823</b>	<b>236520</b>
		800	0	601 - 800	491 - 690	20	<b>204115</b>	<b>236522</b>
		1050	1	801 - 1.050		20	<b>201827<sup>1,2</sup></b>	<b>236524<sup>1,2</sup></b>
		1300	1	1.051 - 1.300		20	<b>201829<sup>1</sup></b>	<b>236526<sup>1</sup></b>
	left	400	0	320 - 400	220 - 320	20	<b>201822</b>	<b>236519</b>
		600	0	401 - 600	321 - 490	20	<b>201824</b>	<b>236521</b>
		800	0	601 - 800	491 - 690	20	<b>204116</b>	<b>236523</b>
		1050	1	801 - 1.050		20	<b>201828<sup>1,2</sup></b>	<b>236525<sup>1,2</sup></b>
		1300	1	1.051 - 1.300		20	<b>201830<sup>1</sup></b>	<b>236527<sup>1</sup></b>

<sup>1</sup> A stabilizing scissor stay is compulsory from a SRW of 1301 mm.

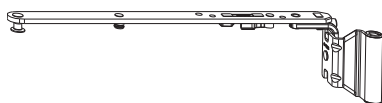
<sup>2</sup> Use scissor stay arm size 1300.



6.1.2 Scissor stay arms with night-vent				No	No Tricoat	
silver	right	400	220 - 400	20	<b>201853<sup>1</sup></b>	<b>236528<sup>1</sup></b>
		600	401 - 600	20	<b>201855<sup>1</sup></b>	<b>236530<sup>1</sup></b>
		800	601 - 800	20	<b>204117<sup>1</sup></b>	<b>236532<sup>1</sup></b>
		1300	801 - 1.300	20	<b>201857<sup>1</sup></b>	<b>236534<sup>1</sup></b>
	left	400	220 - 400	20	<b>201854<sup>1</sup></b>	<b>236529<sup>1</sup></b>
		600	401 - 600	20	<b>201856<sup>1</sup></b>	<b>236531<sup>1</sup></b>
		800	601 - 800	20	<b>204118<sup>1</sup></b>	<b>236533<sup>1</sup></b>
		1300	801 - 1.300	20	<b>201858<sup>1</sup></b>	<b>236535<sup>1</sup></b>

<sup>1</sup> Use only for "horizontal tilt position" (sash can be pry opened at "vertical tilt position").

# Scissor stays



202924

<b>6.1.3 Scissor stay arms with night-vent and pre-mounted rebated scissor stay support arm AS/PVC</b>							<b>No</b>	<b>No</b> Tricoat	
silver	right	12/20-13	400	220 - 400	120	20	<b>202922<sup>1</sup></b>		
			600	401 - 600	120	20	<b>202924<sup>1</sup></b>		
			800	601 - 800	120	20	<b>204436<sup>1</sup></b>		
			1300	801 - 1.300	120	20	<b>202926<sup>1</sup></b>		
	left	12/20-13	400	220 - 400	120	20	<b>202923<sup>1</sup></b>		
			600	401 - 600	120	20	<b>202925<sup>1</sup></b>		
			800	601 - 800	120	20	<b>204437<sup>1</sup></b>		
			1300	801 - 1.300	120	20	<b>202927<sup>1</sup></b>		
	traffic white RAL 9016	right	12/20-13	400	220 - 400	120	20	<b>202928<sup>1</sup></b>	
				600	401 - 600	120	20	<b>202930<sup>1</sup></b>	
				800	601 - 800	120	20	<b>204438<sup>1</sup></b>	
				1300	801 - 1.300	120	20	<b>202932<sup>1</sup></b>	
left		12/20-13	400	220 - 400	120	20	<b>202929<sup>1</sup></b>		
			600	401 - 600	120	20	<b>202931<sup>1</sup></b>		
			800	601 - 800	120	20	<b>204439<sup>1</sup></b>		
			1300	801 - 1.300	120	20	<b>202933<sup>1</sup></b>		

<sup>1</sup> Use only for "horizontal tilt position" (sash can be pry opened at "vertical tilt position").



211128

<b>6.1.4 Scissor stay faceplates i.S.</b>								<b>No</b>	<b>No</b> Tricoat
silver	400	0	320 - 400	220 - 320	20			<b>206862</b>	<b>236546</b>
	600	0	401 - 600	321 - 490	20			<b>206863</b>	<b>236547</b>
	800	0	601 - 800	491 - 690	20			<b>206864</b>	<b>236548</b>
		1	630 - 800	520 - 690	10			<b>211128</b>	
	1050	1	801 - 1.050		20			<b>206865<sup>1,2</sup></b>	<b>236549<sup>1,2</sup></b>
	1300	1	1.051 - 1.300		20			<b>206866<sup>1</sup></b>	<b>236553<sup>1</sup></b>

<sup>1</sup> A stabilizing scissor stay is compulsory from a SRW of 1301 mm.

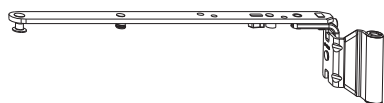
<sup>2</sup> Use scissor stay arm size 1300.



207122

<b>6.1.5 Scissor stay arms</b>						<b>No</b>	<b>No</b> Tricoat
silver	400	220 - 400	20	<b>206856</b>	<b>236545</b>		
	600	401 - 600	20	<b>207122</b>	<b>236550</b>		
	800	601 - 800	20	<b>207123</b>	<b>236551</b>		
	1300	801 - 1.300	20	<b>207124</b>	<b>236552</b>		

# Scissor stays



209270

<b>6.1.6 Scissor stay arms with pre-mounted rebated scissor stay support arm AS/PVC</b>							<b>No</b>	<b>No</b> Tricoat	
silver	right	12/20-13	400	220 - 400	120	20	<b>209268</b>		
			600	401 - 600	120	20	<b>209270</b>		
			800	601 - 800	120	20	<b>209272</b>		
			1300	801 - 1.300	120	20	<b>209274</b>		
	left	12/20-13	400	220 - 400	120	20	<b>209269</b>		
			600	401 - 600	120	20	<b>209271</b>		
			800	601 - 800	120	20	<b>209273</b>		
			1300	801 - 1.300	120	20	<b>209275</b>		
	traffic white RAL 9016	right	12/20-13	400	220 - 400	120	20	<b>209539</b>	
				600	401 - 600	120	20	<b>209541</b>	
				800	601 - 800	120	20	<b>209543</b>	
				1300	801 - 1.300	120	20	<b>209545</b>	
left		12/20-13	400	220 - 400	120	20	<b>209540</b>		
			600	401 - 600	120	20	<b>209542</b>		
			800	601 - 800	120	20	<b>209544</b>		
			1300	801 - 1.300	120	20	<b>209546</b>		



211898

<b>6.1.7 Rebated scissor stays i.S. with night-vent</b>								<b>No</b>	<b>No</b> Tricoat
silver	right	scissor stay mounted MM	400	0	320 - 400	220 - 320	20	<b>211673<sup>1</sup></b>	<b>236563<sup>1</sup></b>
			600	0	401 - 600	321 - 490	20	<b>211675<sup>1</sup></b>	<b>236565<sup>1</sup></b>
			800	0	601 - 800	491 - 690	20	<b>211677<sup>1</sup></b>	<b>236567<sup>1</sup></b>
				1	630 - 800		20	<b>211898<sup>1</sup></b>	
			1050	1	801 - 1.050		20	<b>211900<sup>1,2</sup></b>	<b>236612<sup>1,2</sup></b>
			1300	1	1.051 - 1.300		20	<b>211902<sup>1,2</sup></b>	<b>236614<sup>1,2</sup></b>
			left	scissor stay mounted MM	400	0	320 - 400	220 - 320	20
	600	0			401 - 600	321 - 490	20	<b>211676<sup>1</sup></b>	<b>236566<sup>1</sup></b>
	800	0			601 - 800	491 - 690	20	<b>211678<sup>1</sup></b>	<b>236568<sup>1</sup></b>
		1			630 - 800		20	<b>211899<sup>1</sup></b>	
	1050	1			801 - 1.050		20	<b>211901<sup>1,2</sup></b>	<b>236613<sup>1,2</sup></b>
	1300	1			1.051 - 1.300		20	<b>211903<sup>1,2</sup></b>	<b>236615<sup>1,2</sup></b>

<sup>1</sup> Use only for "horizontal tilt position" (sash can be pry opened at "vertical tilt position").

<sup>2</sup> A stabilizing scissor stay is compulsory from a SRW of 1301 mm.



211679

<b>6.1.8 Rebated scissor stays VZ with night-vent</b>							<b>No</b>	<b>No</b> Tricoat	
silver	right	scissor stay mounted MM	400	0	320 - 400	220 - 320	20	<b>211673</b> <sup>1</sup>	<b>236563</b> <sup>1</sup>
			600	0	401 - 600	321 - 490	20	<b>211675</b> <sup>1</sup>	<b>236565</b> <sup>1</sup>
			800	0	601 - 800	491 - 690	20	<b>211677</b> <sup>1</sup>	<b>236567</b> <sup>1</sup>
				1	630 - 800		20	<b>211679</b> <sup>1</sup>	
			1050	1	801 - 1.050		20	<b>211681</b> <sup>1,2</sup>	
		1	1.051 - 1.300		20	<b>211683</b> <sup>1,2</sup>			
	left	scissor stay mounted MM	400	0	320 - 400	220 - 320	20	<b>211674</b> <sup>1</sup>	<b>236564</b> <sup>1</sup>
			600	0	401 - 600	321 - 490	20	<b>211676</b> <sup>1</sup>	<b>236566</b> <sup>1</sup>
			800	0	601 - 800	491 - 690	20	<b>211678</b> <sup>1</sup>	<b>236568</b> <sup>1</sup>
				1	630 - 800		20	<b>211680</b> <sup>1</sup>	
1050			1	801 - 1.050		20	<b>211682</b> <sup>1,2</sup>		
	1	1.051 - 1.300		20	<b>211684</b> <sup>1,2</sup>				

<sup>1</sup> Use only for "horizontal tilt position" (sash can be pry opened at "vertical tilt position").

<sup>2</sup> A stabilizing scissor stay is compulsory from a SRW of 1301 mm.



211904

<b>6.1.9 Rebated scissor stays i.S.</b>							<b>No</b>	<b>No</b> Tricoat	
silver		scissor stay mounted MM	400	0	320 - 400	220 - 320	20	<b>211694</b>	<b>236569</b>
			600	0	401 - 600	321 - 490	20	<b>211695</b>	<b>236610</b>
			800	0	601 - 800	491 - 690	20	<b>211696</b>	<b>236611</b>
				1	630 - 800		20	<b>211904</b>	<b>236616</b>
			1050	1	801 - 1.050		20	<b>211905</b> <sup>1</sup>	<b>236617</b> <sup>1</sup>
			1300	1	1.051 - 1.300		20	<b>211906</b> <sup>1</sup>	<b>236618</b> <sup>1</sup>

<sup>1</sup> A stabilizing scissor stay is compulsory from a SRW of 1301 mm.



211697

<b>6.1.10 Rebated scissor stays VZ</b>							<b>No</b>	<b>No</b> Tricoat	
silver		scissor stay mounted MM	400	0	320 - 400	220 - 320	20	<b>211694</b>	<b>236569</b>
			600	0	401 - 600	321 - 490	20	<b>211695</b>	<b>236610</b>
			800	0	601 - 800	491 - 690	20	<b>211696</b>	<b>236611</b>
				1	630 - 800		20	<b>211697</b>	
			1050	1	801 - 1.050		20	<b>211698</b> <sup>1</sup>	
			1300	1	1.051 - 1.300		20	<b>211699</b> <sup>1</sup>	






<sup>1</sup> A stabilizing scissor stay is compulsory from a SRW of 1301 mm.



202318

<b>6.1.11 Rebated scissor stays i.S. for angled windows</b>							<b>No</b>	<b>No</b> Tricoat	
silver			630	0	430 - 630	80	10	<b>202316</b>	<b>236537</b>
			800	0	500 - 800	80	10	<b>202317</b>	<b>236538</b>
				1	631 - 800	80	10	<b>208892</b>	
			1050	1	801 - 1.050	80	10	<b>202318</b>	<b>236539</b>
			1300	1	1.051 - 1.300	80	10	<b>202319</b>	<b>236540</b>





218202 

<b>6.1.12 Rebated scissor stays i.S. for half round windows</b>		L						No	No Tricoat	
silver	9 mm offset	1250	745	335	450 - 1.625	450 - 1.250	80	10	206597 <sup>1,2</sup>	236536 <sup>1,2</sup>
	13 mm offset	1250	745	335	450 - 1.625	450 - 1.250	80	10	218202 <sup>1,2</sup>	236870 <sup>1,2</sup>

<sup>1</sup> For arched windows, the notch at the striker is positioned at the beginning of the rounding. In the case of basket and segmental arch windows, the end piece or corner element is positioned at the beginning of the rounding, which is why the application range SRH of the rebated scissor stay for half round windows is increased by 193 mm (78 mm + 115 mm of end piece or corner element).

<sup>2</sup> From SRW 1001 mm, use of the stabilizing scissor stay is mandatory.



204829 

<b>6.1.13 Tilt-first scissor stay faceplates i.S.</b>						No	No Tricoat
silver	400	0	320 - 400	220 - 320	10	204826	
	600	0	401 - 600	321 - 490	10	204827	
	800	0	601 - 800	491 - 690	10	204828	
	1050	1	801 - 1.050		10	204829 <sup>1,2</sup>	
	1300	1	1.051 - 1.300		10	204830 <sup>1</sup>	





<sup>1</sup> A stabilizing scissor stay is compulsory from a SRW of 1301 mm.

<sup>2</sup> Use scissor stay arm size 1300.

204832 

<b>6.1.14 Tilt-first scissor stay arms</b>				No	No Tricoat
silver	400	220 - 400	10	204831	
	600	401 - 600	10	204832	
	800	601 - 800	10	204833	
	1300	801 - 1.300	10	204834	

212081 

<b>6.1.15 Tilt-first rebated scissor stays i.S.</b>						No	No Tricoat	
silver	scissor stay mounted MM	400	0	320 - 400	220 - 320	10	212077	236619
		600	0	401 - 600	321 - 490	10	212078	236620
		800	0	601 - 800	491 - 690	10	212079	236621
			1	630 - 800		10	212080	236622
		1050	1	801 - 1.050		10	212081 <sup>1</sup>	236623 <sup>1</sup>
		1300	1	1.051 - 1.300		10	212082 <sup>1</sup>	236624 <sup>1</sup>






<sup>1</sup> A stabilizing scissor stay is compulsory from a SRW of 1301 mm.



## 6.2 Rebated scissor stays MULTI MAMMUT



223612








6.2.1 Rebated scissor stays MULTI MAMMUT 9 mm offset								No	No Tricoat		
silver	right	12/18-9	670	0	401 - 670	310 - 400	220	10	<b>223594</b>	<b>236975</b>	
			890	1	671 - 890	601 - 670	220	10	<b>223596</b>	<b>236977</b>	
			1200	1	891 - 1.200		220	10	<b>223598</b>	<b>236629</b>	
			1500	2	1.201 - 1.500		220	10	<b>223600<sup>1</sup></b>	<b>236978<sup>1</sup></b>	
	left	12/18-9	670	0	401 - 670	310 - 400	220	10	<b>223595</b>	<b>236976</b>	
			890	1	671 - 890	601 - 670	220	10	<b>223597</b>	<b>236628</b>	
			1200	1	891 - 1.200		220	10	<b>223599</b>	<b>236630</b>	
			1500	2	1.201 - 1.500		220	10	<b>223601<sup>1</sup></b>	<b>236979<sup>1</sup></b>	
	right	12/20-9	670	0	401 - 670	310 - 400	220	10	<b>223610</b>	<b>236639</b>	
			890	1	671 - 890	601 - 670	220	10	<b>223612</b>	<b>236641</b>	
			1200	1	891 - 1.200		220	10	<b>223614</b>	<b>236643</b>	
			1500	2	1.201 - 1.500		220	10	<b>223616<sup>1</sup></b>	<b>236645<sup>1</sup></b>	
	left	12/20-9	670	0	401 - 670	310 - 400	220	10	<b>223611</b>	<b>236640</b>	
			890	1	671 - 890	601 - 670	220	10	<b>223613</b>	<b>236642</b>	
			1200	1	891 - 1.200		220	10	<b>223615</b>	<b>236644</b>	
			1500	2	1.201 - 1.500		220	10	<b>223617<sup>1</sup></b>	<b>236646<sup>1</sup></b>	
	traffic white RAL 9016	right	12/18-9	670	0	401 - 670	310 - 400	220	10	<b>223626</b>	
				890	1	671 - 890	601 - 670	220	10	<b>223628</b>	
				1200	1	891 - 1.200		220	10	<b>223630</b>	
				1500	2	1.201 - 1.500		220	10	<b>223632<sup>1</sup></b>	
left		12/18-9	670	0	401 - 670	310 - 400	220	10	<b>223627</b>		
			890	1	671 - 890	601 - 670	220	10	<b>223629</b>		
			1200	1	891 - 1.200		220	10	<b>223631</b>		
			1500	2	1.201 - 1.500		220	10	<b>223633<sup>1</sup></b>		
right		12/20-9	670	0	401 - 670	310 - 400	220	10	<b>223642</b>		
			890	1	671 - 890	601 - 670	220	10	<b>223644</b>		
			1200	1	891 - 1.200		220	10	<b>223646</b>		
			1500	2	1.201 - 1.500		220	10	<b>223648<sup>1</sup></b>		
left		12/20-9	670	0	401 - 670	310 - 400	220	10	<b>223643</b>		
			890	1	671 - 890	601 - 670	220	10	<b>223645</b>		
			1200	1	891 - 1.200		220	10	<b>223647</b>		
			1500	2	1.201 - 1.500		220	10	<b>223649<sup>1</sup></b>		

<sup>1</sup> From SRW 1401 mm, use of the stabilizing scissor stay is recommended. From SRW 1401 - 1435 mm, scissor stay size 1200 + stabilizing scissor stay must be used.





223620

6.2.2 Rebated scissor stays MULTI MAMMUT 13 mm offset											
									Tricoat		
silver	right	12/18-13	670	0	401 - 670	310 - 400	220	10	<b>223602</b>	<b>236631</b>	
			890	1	671 - 890	601 - 670	220	10	<b>223604</b>	<b>236633</b>	
			1200	1	891 - 1.200		220	10	<b>223606</b>	<b>236635</b>	
			1500	2	1.201 - 1.500		220	10	<b>223608<sup>1</sup></b>	<b>236637<sup>1</sup></b>	
	left	12/18-13	670	0	401 - 670	310 - 400	220	10	<b>223603</b>	<b>236632</b>	
			890	1	671 - 890	601 - 670	220	10	<b>223605</b>	<b>236634</b>	
			1200	1	891 - 1.200		220	10	<b>223607</b>	<b>236636</b>	
			1500	2	1.201 - 1.500		220	10	<b>223609<sup>1</sup></b>	<b>236638<sup>1</sup></b>	
	right	12/20-13	670	0	401 - 670	310 - 400	220	10	<b>223618</b>	<b>236647</b>	
			890	1	671 - 890	601 - 670	220	10	<b>223620</b>	<b>236648</b>	
			1200	1	891 - 1.200		220	10	<b>223622</b>	<b>236650</b>	
			1500	2	1.201 - 1.500		220	10	<b>223624<sup>1</sup></b>	<b>236981<sup>1</sup></b>	
	left	12/20-13	670	0	401 - 670	310 - 400	220	10	<b>223619</b>	<b>236980</b>	
			890	1	671 - 890	601 - 670	220	10	<b>223621</b>	<b>236649</b>	
			1200	1	891 - 1.200		220	10	<b>223623</b>	<b>236651</b>	
			1500	2	1.201 - 1.500		220	10	<b>223625<sup>1</sup></b>	<b>236982<sup>1</sup></b>	
	traffic white RAL 9016	right	12/18-13	670	0	401 - 670	310 - 400	220	10	<b>223634</b>	
				890	1	671 - 890	601 - 670	220	10	<b>223636</b>	
				1200	1	891 - 1.200		220	10	<b>223638</b>	
				1500	2	1.201 - 1.500		220	10	<b>223640<sup>1</sup></b>	
left		12/18-13	670	0	401 - 670	310 - 400	220	10	<b>223635</b>		
			890	1	671 - 890	601 - 670	220	10	<b>223637</b>		
			1200	1	891 - 1.200		220	10	<b>223639</b>		
			1500	2	1.201 - 1.500		220	10	<b>223641<sup>1</sup></b>		
right		12/20-13	670	0	401 - 670	310 - 400	220	10	<b>223650</b>		
			890	1	671 - 890	601 - 670	220	10	<b>223652</b>		
			1200	1	891 - 1.200		220	10	<b>223654</b>		
			1500	2	1.201 - 1.500		220	10	<b>223656<sup>1</sup></b>		
left		12/20-13	670	0	401 - 670	310 - 400	220	10	<b>223651</b>		
			890	1	671 - 890	601 - 670	220	10	<b>223653</b>		
			1200	1	891 - 1.200		220	10	<b>223655</b>		
			1500	2	1.201 - 1.500		220	10	<b>223657<sup>1</sup></b>		

<sup>1</sup> From SRW 1401 mm, use of the stabilizing scissor stay is recommended. From SRW 1401 - 1435 mm, scissor stay size 1200 + stabilizing scissor stay must be used.

## 6.3 Scissor stays MULTI POWER



217348

6.3.1 T&T/tilt-first scissor stay faceplates MULTI POWER									No	No Tricoat
silver	600	0	465 - 600	370 - 490	150	20	217346	236652		
			601 - 800						491 - 690	217347
	1050	1	801 - 1.050	150	20	217348	236654			
	1300	1	1.051 - 1.300	150	20	217349 <sup>1</sup>	236655 <sup>1</sup>			

<sup>1</sup> A stabilizing scissor stay is compulsory from a SRW of 1301 mm.

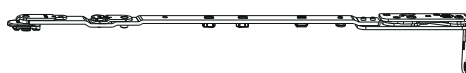


217474

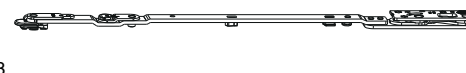


217482

6.3.2 T&T scissor stay arms with hinge for MULTI POWER				L				No	No Tricoat	
silver	right	9 mm offset	timber 24 mm rebate depth	600/800	330	370 - 800	150	10	217468	236656
			1050/1300	442	801 - 1.300	150	10	217472	236711	
		timber/PVC 30 mm rebate depth	600/800	330	370 - 800	150	10	217476		
			1050/1300	442	801 - 1.300	150	10	217480		
		13 mm offset	timber 24 mm rebate depth	600/800	330	370 - 800	150	10	217470	236658
			1050/1300	442	801 - 1.300	150	10	217474	236713	
	timber/PVC 30 mm rebate depth	600/800	330	370 - 800	150	10	217478	236715		
		1050/1300	442	801 - 1.300	150	10	217482	236717		
	left	9 mm offset	timber 24 mm rebate depth	600/800	330	370 - 800	150	10	217469	236657
			1050/1300	442	801 - 1.300	150	10	217473	236712	
		timber/PVC 30 mm rebate depth	600/800	330	370 - 800	150	10	217477		
			1050/1300	442	801 - 1.300	150	10	217481		
		13 mm offset	timber 24 mm rebate depth	600/800	330	370 - 800	150	10	217471	236710
			1050/1300	442	801 - 1.300	150	10	217475	236714	
	timber/PVC 30 mm rebate depth	600/800	330	370 - 800	150	10	217479	236716		
		1050/1300	442	801 - 1.300	150	10	217483	236718		



217490



217498

6.3.3 Tilt-first scissor stay arms with hinge for MULTI POWER				L				No	No Tricoat	
silver	right	9 mm offset	timber 24 mm rebate depth	600/800	330	370 - 800	150	10	217484	236727
			1050/1300	442	801 - 1.300	150	10	217488	236729	
		timber/PVC 30 mm rebate depth	1050/1300	442	801 - 1.300	150	10	217496		
			13 mm offset	timber 24 mm rebate depth	600/800	330	370 - 800	150	10	217486
		1050/1300		442	801 - 1.300	150	10	217490	236733	
		timber/PVC 30 mm rebate depth	600/800	330	370 - 800	150	10	217494	236735	
	1050/1300		442	801 - 1.300	150	10	217498	236736		
	left	9 mm offset	timber 24 mm rebate depth	600/800	330	370 - 800	150	10	217485	236728
			1050/1300	442	801 - 1.300	150	10	217489	236730	
		timber/PVC 30 mm rebate depth	1050/1300	442	801 - 1.300	150	10	217497		
			13 mm offset	timber 24 mm rebate depth	600/800	330	370 - 800	150	10	217487
		1050/1300		442	801 - 1.300	150	10	217491	236734	
		timber/PVC 30 mm rebate depth	600/800	330	370 - 800	150	10	217495	250573	
	1050/1300		442	801 - 1.300	150	10	217499	236737		



<b>6.3.4 T&amp;T scissor stay faceplates with night-vent MULTI POWER</b>									<b>No</b>	<b>No</b> Tricoat
silver	right	600	0	465 - 600	370 - 490	150	20	<b>217562<sup>1</sup></b>	<b>236719<sup>1</sup></b>	
		800	0	601 - 800	491 - 690	150	20	<b>217564<sup>1</sup></b>	<b>236721<sup>1</sup></b>	
		1050	1	801 - 1.050		150	20	<b>217566<sup>1</sup></b>	<b>236723<sup>1</sup></b>	
		1300	1	1.051 - 1.300		150	20	<b>217568<sup>1,2</sup></b>	<b>236725<sup>1,2</sup></b>	
	left	600	0	465 - 600	370 - 490	150	20	<b>217563<sup>1</sup></b>	<b>236720<sup>1</sup></b>	
		800	0	601 - 800	491 - 690	150	20	<b>217565<sup>1</sup></b>	<b>236722<sup>1</sup></b>	
		1050	1	801 - 1.050		150	20	<b>217567<sup>1</sup></b>	<b>236724<sup>1</sup></b>	
		1300	1	1.051 - 1.300		150	20	<b>217569<sup>1,2</sup></b>	<b>236726<sup>1,2</sup></b>	

<sup>1</sup> Use only for "horizontal tilt position" (sash can be pry opened at "vertical tilt position").

<sup>2</sup> A stabilizing scissor stay is compulsory from a SRW of 1301 mm.



<b>6.3.5 T&amp;T scissor stay arms with hinge with night-vent for MULTI POWER</b>				<b>L</b>				<b>No</b>	<b>No</b> Tricoat		
silver	right	9 mm offset	aluminium 14/18	600/800	330	370 - 800	150	10	<b>250412<sup>1</sup></b>		
				1050/1300	442	801 - 1.300	150	10	<b>250414<sup>1</sup></b>		
			timber 24 mm rebate depth	600/800	330	370 - 800	150	10	<b>217641<sup>1</sup></b>	<b>236738<sup>1</sup></b>	
				1050/1300	442	801 - 1.300	150	10	<b>217645<sup>1</sup></b>	<b>236860<sup>1</sup></b>	
			timber/PVC 30 mm rebate depth	600/800	330	370 - 800	150	10	<b>217649<sup>1</sup></b>		
				1050/1300	442	801 - 1.300	150	10	<b>217653<sup>1</sup></b>		
		13 mm offset	timber 24 mm rebate depth	600/800	330	370 - 800	150	10	<b>217643<sup>1</sup></b>	<b>236862<sup>1</sup></b>	
				1050/1300	442	801 - 1.300	150	10	<b>217647<sup>1</sup></b>	<b>236864<sup>1</sup></b>	
		timber/PVC 30 mm rebate depth	600/800	330	370 - 800	150	10	<b>217651<sup>1</sup></b>	<b>236866<sup>1</sup></b>		
			1050/1300	442	801 - 1.300	150	10	<b>217655<sup>1</sup></b>	<b>236868<sup>1</sup></b>		
	left	9 mm offset	aluminium 14/18	600/800	330	370 - 800	150	10	<b>250413<sup>1</sup></b>		
				1050/1300	442	801 - 1.300	150	10	<b>250415<sup>1</sup></b>		
				timber 24 mm rebate depth	600/800	330	370 - 800	150	10	<b>217642<sup>1</sup></b>	<b>236739<sup>1</sup></b>
					1050/1300	442	801 - 1.300	150	10	<b>217646<sup>1</sup></b>	<b>236861<sup>1</sup></b>
				timber/PVC 30 mm rebate depth	600/800	330	370 - 800	150	10	<b>217650<sup>1</sup></b>	
					1050/1300	442	801 - 1.300	150	10	<b>217654<sup>1</sup></b>	
		13 mm offset	timber 24 mm rebate depth	600/800	330	370 - 800	150	10	<b>217644<sup>1</sup></b>	<b>236863<sup>1</sup></b>	
				1050/1300	442	801 - 1.300	150	10	<b>217648<sup>1</sup></b>	<b>236865<sup>1</sup></b>	
				timber/PVC 30 mm rebate depth	600/800	330	370 - 800	150	10	<b>217652<sup>1</sup></b>	<b>236867<sup>1</sup></b>
					1050/1300	442	801 - 1.300	150	10	<b>217656<sup>1</sup></b>	<b>236869<sup>1</sup></b>

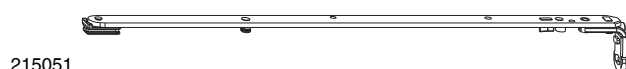
<sup>1</sup> Use only for "horizontal tilt position" (sash can be pry opened at "vertical tilt position").

## 6.4 Comfort scissor stays



6.4.1 Scissor stay faceplates for comfort scissor stay						No	No Tricoat	
silver	right	800	0	601 - 800	490 - 600	10	<b>215053</b>	<b>236559</b>
		1050	1	801 - 1.050		10	<b>215055<sup>1</sup></b>	<b>236561<sup>1</sup></b>
	left	800	0	601 - 800	490 - 600	10	<b>215054</b>	<b>236560</b>
		1050	1	801 - 1.050		10	<b>215056<sup>1</sup></b>	<b>236562<sup>1</sup></b>

<sup>1</sup> From SRW 1051 mm, the use of a faceplate extension / center lock is necessary to implement larger application ranges (max. 1400 mm).

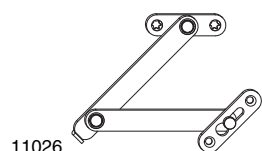


6.4.2 Rebated scissor stay arms for comfort scissor stay					No	No Tricoat	
silver	right	800/1050	490 - 1.050	80	10	<b>215051</b>	<b>236557</b>
	left	800/1050	490 - 1.050	80	10	<b>215052</b>	<b>236558</b>



6.5 Tilt stays		L			No	No Tricoat
silver	tilt stay with fixing tab	204	80	20	<b>209723<sup>1</sup></b>	<b>236899<sup>1</sup></b>
	tilt stay with screwhole mounting	204	80	20	<b>101548<sup>1</sup></b>	<b>236898<sup>1</sup></b>

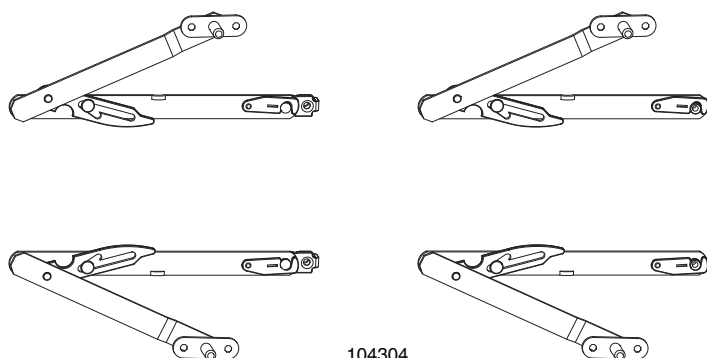
<sup>1</sup> Please note: The minimum sash rebate height depends on window profile or geometry!



6.6 Horizontal tilt stays		L					No	No Tricoat
silver		190	1.400	210 - 800	40	20	<b>11026<sup>1</sup></b>	<b>106015<sup>1</sup></b>
		250	1.400	210 - 800	40	20	<b>11027<sup>1</sup></b>	

<sup>1</sup> Use always two pieces per window!

## 6.7 Restrictor and cleaning stays



6.7.1 Restrictor and cleaning stays							
silver	Restrictor and cleaning stay with fixing tab	size 1	300 - 500	40	10	<b>455347</b> <sup>1,2</sup>	
		size 2	501 - 1.200	40	10	<b>455348</b> <sup>2</sup>	
	Restrictor and cleaning stay with screw hole fixing	size 1	300 - 500	40	10	<b>104304</b> <sup>1,2</sup>	
		size 2	501 - 1.200	40	10	<b>104305</b> <sup>2</sup>	

<sup>1</sup> Application range for Multi Power: 701 - 1200 mm.

<sup>2</sup> One piece = one pair.

## 6.7.2 Accessories for restrictor and cleaning stays

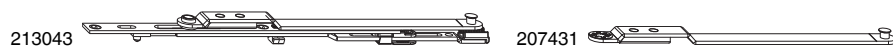
455386

P 6.7.2.1 Spacer plates for restrictor and cleaning stay							
silver	1 mm			1	20	<b>455386</b>	
	3 mm			3	20	<b>455349</b>	
	6 mm			6	20	<b>455387</b>	
	5° pitched				20	<b>455388</b>	

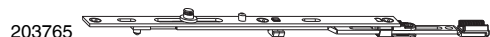
368425

6.7.2.2 Hinge bolt with screw hole for restrictor and cleaning stay						
silver			40	100	<b>368425</b>	

## 6.8 Accessories for scissor stays



6.8.1 Stabilizing scissor stays		L		No	No Tricoat
silver	stabilizing scissor stay MM mounted without night-vent	235	20	213043	236555
	stabilizing scissor stay arm MM without night-vent	231,5	20	207431	236554
	stabilizing scissor stay faceplate MM	235	20	203765	236541



6.8.2 Stabilizing scissor stays with night-vent		L		No	No Tricoat
silver	right stabilizing scissor stay MM mounted	235	20	213041	236625
	left stabilizing scissor stay MM mounted	235	20	213042	236626
	right stabilizing scissor stay arm MM	231,5	20	203766	236542
	left stabilizing scissor stay arm MM	231,5	20	203767	236543
	stabilizing scissor stay faceplate MM	235	20	203765	236541



6.8.3 Stabilizing scissor stays for tilt-first windows		L		No	No Tricoat
silver	stabilizing scissor stay MM mounted for tilt-first	330	20	213044	236627
	stabilizing scissor stay arm MM for tilt-first	231,5	20	205933	
	stabilizing scissor stay faceplate MM for tilt-first	330	20	205934	






6.8.4 Stabilizing scissor stays for half round windows		L		No	No Tricoat
silver	with 2 i.S.	945	10	203961	236544



6.8.5 Anti-slam devices			No	No Tricoat
traffic white RAL 9016	for scissor stay, sizes 2-4 or 1050/1300	100	43549	
graphite black RAL 9011	for scissor stay, sizes 00-1 or 600/800	100	43548	

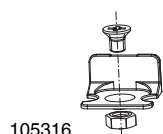
43551 




<b>6.8.6 Scissor stay restrictors</b>				
traffic white RAL 9016	for scissor stay, sizes 2-4 or 1050/1300	100	<b>43552</b> <sup>1,2</sup>	
	for stabilizing scissor stay	100	<b>43613</b> <sup>1</sup>	
graphite black RAL 9011	for scissor stay, sizes 00-1 or 600/800	100	<b>43551</b> <sup>1,3</sup>	

<sup>1</sup> Scissor stay restrictor absolutely necessary for SRH below 800 mm. A scissor stay restrictor may be necessary for a SRH above 800 mm, if required by the window profile and/or the window geometry.




<sup>2</sup> Opening dimension: 80 mm for scissor stay size 1050; 60 mm for size 1300.

<sup>3</sup> Opening dimension: 75 mm for scissor stay size 600; 60 mm for size 800.



<b>6.8.7 Fixing of scissor stays for French casement EH</b>				
silver		50	<b>105316</b>	<b>236516</b>






<b>6.8.8 Anti-slam devices / scissor stay restrictors MULTI POWER</b>				
grey F1	anti-slam device MULTI POWER	20	<b>369474</b>	
sky blue RAL 5015	scissor stay restrictor for scissor stay MULTI POWER, sizes 0/1 or 600/800	100	<b>366011</b> <sup>1,2</sup>	
brown	scissor stay restrictor for scissor stay MULTI POWER, sizes 2/3 or 1050/1300	100	<b>366012</b> <sup>2,3</sup>	

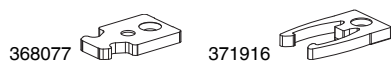
<sup>1</sup> Tilt opening 100 mm.




<sup>2</sup> Scissor stay restrictor absolutely necessary for SRH below 800 mm. A scissor stay restrictor may be necessary for a SRH above 800 mm, if required by the window profile and/or the window geometry.

<sup>3</sup> Tilt opening 110 mm.



<b>6.8.9 Screws for scissor stays MULTI POWER</b>		$\emptyset$	L			
silver	special drill screw Multi Power Phillips	4,5	38	100	<b>362918</b>	<b>106029</b>
	special drill screw Multi Power TX20	4,5	38	500	<b>367828</b>	<b>106027</b>



<b>6.8.10 Anti-slam devices / scissor stay restrictors MULTI MAMMUT</b>				
silver	anti-slam device rough-running Multi Mammut	50	<b>368075</b>	
	anti-slam device smooth-running Multi Mammut	50	<b>368076</b> <sup>1</sup>	
	scissor stay restrictor for scissor stay Multi Mammut	50	<b>368077</b> <sup>2</sup>	
sky blue RAL 5015	anti-slam device for scissor stay Multi Mammut	50	<b>371916</b> <sup>3</sup>	

<sup>1</sup> For sash weight up to 60 kg.

<sup>2</sup> Scissor stay restrictor absolutely necessary for SRH below 800 mm. A scissor stay restrictor may be necessary for a SRH above 800 mm, if required by the window profile and/or the window geometry.

<sup>3</sup> As of delivery date approx. 2018-10.





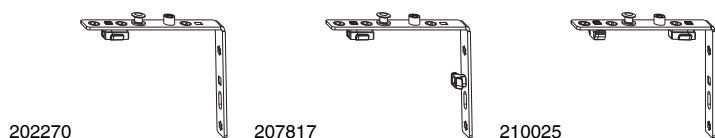
## **7 Turn-only and tilt-only hinges, compression devices**


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<b>7.1</b>	<b>Turn-only hinges - sash part AS/DTuni/PVC</b> _____	<b>204</b>
<b>7.2</b>	<b>Turn and tilt hinges - sash part AS/DTuni/PVC</b> _____	<b>206</b>
<b>7.3</b>	<b>Turn-only hinges - sash part MULTI MAMMUT</b> _____	<b>207</b>
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<b>7.5</b>	<b>Turn-only hinges - frame part for 3-sashed windows</b> _____	<b>210</b>
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## 7 Turn-only and tilt-only hinges, compression devices

### 7.1 Turn-only hinges - sash part AS/DTuni/PVC





7.1.1 Turn and tilt hinge faceplates AS/DTuni/PVC			No	No Tricoat
silver	top turn-only hinge corner-bracket MM	50	202270	236395
	top turn-only hinge corner-bracket with second positioning component MM	50	207817	236396
	turn-only and tilt-only faceplate for installation with automated machinery MM	50	210025	

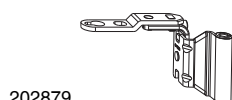




7.1.2 Turn-only hinge faceplates croppable			L			No	No Tricoat	
silver		600	0	498,5	350 - 600	20	202269	236397
		800	0	697,5	601 - 800	20	205940	236398
	with 1 i.S.	1050	1	947,5	801 - 1.050	20	205941	236399

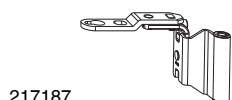




7.1.3 Turn-only hinge arm for turn and tilt hinge faceplates				No	No Tricoat
silver	turn-only hinge arm AS/DTuni/PVC for turn-only hinge faceplate MM	120	50	202271 <sup>1</sup>	236432 <sup>1</sup>

<sup>1</sup> With rebated scissor stay support arm DT 130 kg.



7.1.4 Turn-only hinge arms with rebated scissor stay support arm AS/PVC for turn and tilt hinge faceplates				No	No Tricoat
silver	right	12/20-13	120	20	202879
	left	12/20-13	120	20	202880
traffic white RAL 9016	right	12/20-13	120	20	207392
	left	12/20-13	120	20	207391



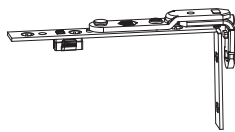
7.1.5 Turn-only hinge arms with rebated scissor stay support arm DTuni for turn and tilt hinge faceplates				No	No Tricoat
silver	right	12/18-13	130	20	217187
	left	12/18-13	130	20	217188
traffic white RAL 9016	right	12/18-13	130	20	217189
	left	12/18-13	130	20	217190

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

52702



52462



## 7.1.6 Turn-only hinges - sash part AS/DTuni/PVC

			L	kg		No	No Tricoat
silver	turn-only hinge on top DTuni	timber	152	130	50	<b>52702</b> <sup>1,2,3</sup>	<b>236300</b> <sup>1,2,3</sup>
	turn-only hinge on top PVC + AS corner hinge version		143	120	50	<b>52462</b> <sup>1,4</sup>	<b>236299</b> <sup>1,4</sup>

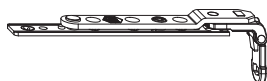
<sup>1</sup> For sash weight above 100 kg use the faceplate extension (item no. 360327 or item no. 215572)!

<sup>2</sup> For 13 mm offset without Eurogroove use spacer clips item no. 357881.

<sup>3</sup> For Eurogroove use packer item no. 41103.

<sup>4</sup> Only suitable for timber with hardware groove.

206315



## 7.1.7 Turn-only hinges - sash part for angled windows AS/DTuni/PVC

				No	No Tricoat
silver			20	<b>206315</b> <sup>1,2,3</sup>	<b>236394</b> <sup>1,2,3</sup>

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

<sup>2</sup> For 13 mm offset without Eurogroove use spacer clips item no. 357881.

<sup>3</sup> For Eurogroove use packer item no. 41103.

41103



## T 7.1.8 Packer for turn-only hinge - sash part top DTuni

			L		No	No Tricoat
natural			142	100	<b>41103</b>	

360327



## 7.1.9 Faceplate extensions for turn-only hinges - sash part

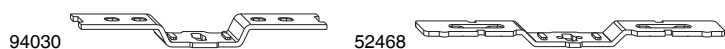
			L		No	No Tricoat
silver	DTuni		180	20	<b>360327</b> <sup>1</sup>	
	AS/PVC		180	20	<b>215572</b> <sup>1</sup>	

<sup>1</sup> For sash weight above 100 kg use the faceplate extension!



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

## 7.2 Turn and tilt hinges - sash part AS/DTuni/PVC



7.2.1 Turn and tilt hinges - sash part AS/DTuni/PVC		L	kg		No	No Tricoat
silver	tilt-only hinge and turn-only hinge AS/PVC	130	80	100	94030 <sup>1,2</sup>	385085 <sup>1,2</sup>
	tilt-only hinge and turn-only hinge AS/DTuni	159	80	100	52468 <sup>1,3</sup>	385084 <sup>1,3</sup>

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

<sup>2</sup> For Eurogroove.

<sup>3</sup> Without Eurogroove.

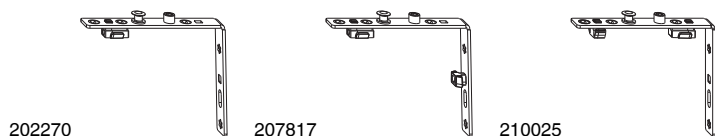


7.2.2 Turn and tilt hinges adjustable AS/DTuni/PVC		L	kg		No	No Tricoat
silver	tilt-only hinge and turn-only hinge AS/PVC as centre hinge	106	0	50	58472 <sup>1,2,3</sup>	
	tilt-only hinge and turn-only hinge AS/DTuni/PVC adjustable	146	80	50	52321 <sup>2,3</sup>	236298 <sup>2,3</sup>
	tilt-only hinge and turn-only hinge DTuni as centre hinge	200	0	50	206340 <sup>1,2</sup>	236304 <sup>1,2</sup>

<sup>1</sup> May only be used as centre hinge!

<sup>2</sup> When our restrictor and cleaning stay is used, the maximum sash weight is 40 kg. Observe FPKF guideline of the Gütegemeinschaft Schlösser und Beschläge (quality community for locks and hardware)!

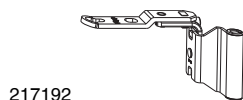
<sup>3</sup> For Eurogroove.



7.2.3 Turn and tilt hinge faceplates AS/DTuni/PVC			No	No Tricoat
silver	top turn-only hinge corner-bracket MM	50	202270	236395
	top turn-only hinge corner-bracket with second positioning component MM	50	207817	236396
	turn-only and tilt-only faceplate for installation with automated machinery MM	50	210025	



7.2.4 Tilt-only hinge arm for turn and tilt hinge faceplate			No	No Tricoat
silver		20	213297	



7.2.5 Tilt-only hinge arms with rebated scissor stay support arm DTuni for turn and tilt hinge faceplate		kg		No	No Tricoat
silver	left	12/18-13	130	20	217192
traffic white RAL 9016	right	12/18-13	130	20	217193
	left	12/18-13	130	20	217194

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

## 7.3 Turn-only hinges - sash part MULTI MAMMUT



223776

7.3.1 Turn-only hinges - sash part croppable MULTI MAMMUT				No	No Tricoat	
silver	right 12/18-9	400 - 635	10	223776 <sup>1</sup>	236916 <sup>1</sup>	
	left 12/18-9	400 - 635	10	223777 <sup>1</sup>	236917 <sup>1</sup>	
	right 12/18-13	400 - 635	10	223778 <sup>1</sup>	236420 <sup>1</sup>	
	left 12/18-13	400 - 635	10	223779 <sup>1</sup>	236421 <sup>1</sup>	
	right 12/20-9	400 - 635	10	223780 <sup>1</sup>	236422 <sup>1</sup>	
	left 12/20-9	400 - 635	10	223781 <sup>1</sup>	236423 <sup>1</sup>	
	right 12/20-13	400 - 635	10	223782 <sup>1</sup>	236918 <sup>1</sup>	
	left 12/20-13	400 - 635	10	223783 <sup>1</sup>	236919 <sup>1</sup>	
	traffic white RAL 9016	right 12/18-9	400 - 635	10	223784 <sup>1</sup>	
		left 12/18-9	400 - 635	10	223785 <sup>1</sup>	
right 12/18-13		400 - 635	10	223786 <sup>1</sup>		
left 12/18-13		400 - 635	10	223787 <sup>1</sup>		
right 12/20-9		400 - 635	10	223788 <sup>1</sup>		
left 12/20-9		400 - 635	10	223789 <sup>1</sup>		
right 12/20-13		400 - 635	10	223790 <sup>1</sup>		
left 12/20-13		400 - 635	10	223791 <sup>1</sup>		

<sup>1</sup> Above the maximum application range use faceplate extension and centre lock.



202867



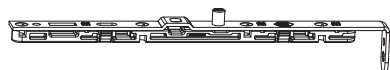
7.3.2 Faceplate extension for turn-only hinge - sash part MULTI MAMMUT				No	No Tricoat
silver		385 - 1.800	20	202867 <sup>1</sup>	236913 <sup>1</sup>

<sup>1</sup> For the use as fixed turn-only hinge combine with croppable turn-only hinge.

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

## 7.4 Tilt-only and turn-only hinges - sash part MULTI POWER

### 7.4.1 Turn-only and tilt-only hinge faceplates / turn-only and tilt-only hinge arms with hinge MULTI POWER



217729

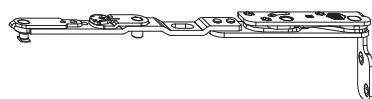
7.4.1.1 Turn-only and tilt-only hinge faceplate fixed MULTI POWER								 Tricoat
silver				255 - 1.400	150	20	217729	236305

217687

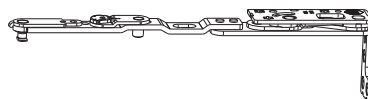


7.4.1.2 Turn-only hinge faceplates croppable MULTI POWER									 Tricoat
silver	600	0	401 - 600	320 - 490	20	217685	236424		
	800	0	601 - 800		20	217686	236425		
	1050	1	801 - 1.050		20	217687	236426		
	1300	1	1.051 - 1.300		20	217688	236427		

217691

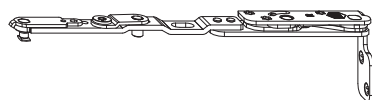


217695

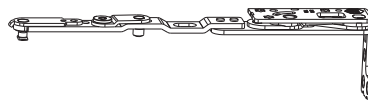


7.4.1.3 Turn-only hinge arms with hinge MULTI POWER								 Tricoat
silver	aluminium 14/18	right	9 mm offset	255 - 1.400	150	10	250404	
		left	9 mm offset	255 - 1.400	150	10	250405	
	timber 24 mm rebate depth	right	9 mm offset	255 - 1.400	150	10	217689	236306
		left	9 mm offset	255 - 1.400	150	10	217690	236307
		right	13 mm offset	255 - 1.400	150	10	217691	236308
		left	13 mm offset	255 - 1.400	150	10	217692	236309
	timber/PVC 30 mm rebate depth	right	9 mm offset	255 - 1.400	150	10	217693	
		left	9 mm offset	255 - 1.400	150	10	217694	
		right	13 mm offset	255 - 1.400	150	10	217695	236350
		left	13 mm offset	255 - 1.400	150	10	217696	236351

217723



217727






7.4.1.4 Tilt-only hinge arms with hinge MULTI POWER								 Tricoat
silver	aluminium 14/18	right	9 mm offset	255 - 1.200	80	10	250408 <sup>1,2</sup>	
		left	9 mm offset	255 - 1.200	80	10	250409 <sup>1,2</sup>	
	timber 24 mm rebate depth	right	9 mm offset	255 - 1.200	80	10	217721 <sup>1,2</sup>	236358 <sup>1,2</sup>
		left	9 mm offset	255 - 1.200	80	10	217722 <sup>1,2</sup>	236359 <sup>1,2</sup>
		right	13 mm offset	255 - 1.200	80	10	217723 <sup>1,2</sup>	236390 <sup>1,2</sup>
		left	13 mm offset	255 - 1.200	80	10	217724 <sup>1,2</sup>	236391 <sup>1,2</sup>
	timber/PVC 30 mm rebate depth	right	9 mm offset	255 - 1.200	80	10	217725 <sup>1,2</sup>	
		left	9 mm offset	255 - 1.200	80	10	217726 <sup>1,2</sup>	
		right	13 mm offset	255 - 1.200	80	10	217727 <sup>1,2</sup>	236392 <sup>1,2</sup>
		left	13 mm offset	255 - 1.200	80	10	217728 <sup>1,2</sup>	236393 <sup>1,2</sup>

<sup>1</sup> Observe guideline FPKF (restrictor and cleaning stay) published by "Gütegemeinschaft Schlösser und Beschläge e.V." ([www.schlossindustrie.de](http://www.schlossindustrie.de))!

<sup>2</sup> SRW max. 2400 mm. The sash must be stabilized (e.g. taped).

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

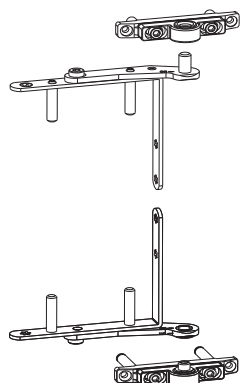


<b>7.4.1.5 Turn-only hinge arms with hinge for 3-sashed windows MULTI POWER</b>							<b>No</b>	<b>No</b> Tricoat
silver	timber 24 mm rebate depth	right	9 mm offset	255 - 1.400	80	10	<b>217713</b>	<b>236352</b>
		left	9 mm offset	255 - 1.400	80	10	<b>217714</b>	<b>236353</b>
		right	13 mm offset	255 - 1.400	80	10	<b>217715</b>	<b>236354</b>
		left	13 mm offset	255 - 1.400	80	10	<b>217716</b>	<b>236355</b>
	timber/PVC 30 mm rebate depth	right	9 mm offset	255 - 1.400	80	10	<b>217717</b>	
		left	9 mm offset	255 - 1.400	80	10	<b>217718</b>	
		right	13 mm offset	255 - 1.400	80	10	<b>217719</b>	<b>236356</b>
		left	13 mm offset	255 - 1.400	80	10	<b>217720</b>	<b>236357</b>



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

## 7.5 Turn-only hinges - frame part for 3-sashed windows



10721

7.5.1 Turn-only hinges - frame part for 3-sashed windows				kg	cube	No	No Tricoat
silver	PVC	left	top + bottom	60	20	10756 <sup>1</sup>	
	timber	right	top + bottom	80	20	10721 <sup>1,2</sup>	
		left	top + bottom	80	20	10722 <sup>1,2</sup>	
traffic white RAL 9016	PVC	right	top + bottom	60	20	10901	
		left	top + bottom	60	20	10902 <sup>1</sup>	
	timber	right	top + bottom	80	20	11251 <sup>1,2</sup>	
		left	top + bottom	80	20	11252 <sup>1,2</sup>	

<sup>1</sup> No cover caps are enclosed in the packaging for the frame components for pure silver sash components.

<sup>2</sup> CAUTION: When using the 2 mm and 4 mm packers, the max. sash weight is 60 kg!

43709

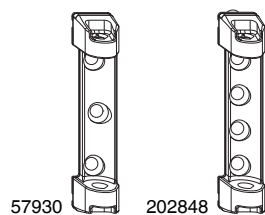
T	7.5.2 Packers for turn-only hinges - frame part for 3-sashed windows			kg	cube	No	No Tricoat
	silver			4	100	43709 <sup>1</sup>	
	pearl light grey RAL 9022			2	100	354023 <sup>1</sup>	
	white			4	100	44199 <sup>1</sup>	

<sup>1</sup> CAUTION: When using the 2 mm and 4 mm packers, the max. sash weight is 60 kg!



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

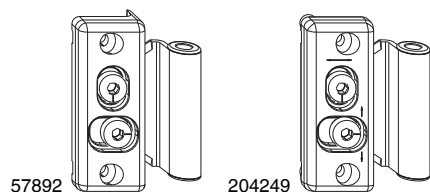
## 7.6 Multi-sash centre frame hinges



7.6.1 Multi-sash centre frame hinge bearings				kg	cube	No	No Tricoat
silver	scissor stay hinge PVC	with 3 mm positioning pin	PVC	100	100	<b>52480</b>	<b>233348</b>
	multi-sash centre frame hinge bearing	with centering tip	timber	60	50	<b>57930</b>	<b>236900</b>
traffic white RAL 9016	multi-sash centre frame hinge bearing	with 7 mm supporting pin	timber/PVC	60	50	<b>202848</b>	<b>236433</b>
		with 7 mm supporting pin	PVC	60	50	<b>205705</b>	

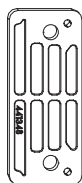


P 7.6.2 Packers for multi-sash centre frame hinge bearings				kg	cube	No	No Tricoat
traffic white RAL 9016	with 3 mm positioning pin			2,4	100	<b>44477</b>	
	with 7 mm supporting pin			2,4	100	<b>44470</b>	
pearl light grey RAL 9022	with 3 mm positioning pin			2,4	100	<b>44482</b>	
	with 7 mm supporting pin			2,4	100	<b>44475</b>	
brown F5	with 3 mm positioning pin			2,4	100	<b>44481</b>	
	with 7 mm supporting pin			2,4	100	<b>44474</b>	





7.6.3 Multi-sash centre frame hinges - sash part				kg	cube	No	No Tricoat
silver			timber	60	50	<b>57892</b>	<b>236301</b>
	with 3 mm positioning pin	40 mm cam distance	PVC	60	50	<b>220241</b>	<b>236303</b>
	with 7 mm supporting pin	36 mm cam distance	timber	60	50	<b>204249</b>	
		40 mm cam distance	PVC	60	50	<b>220240</b>	<b>236302</b>

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

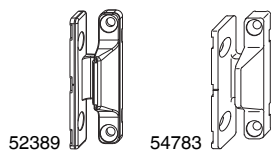


44463

P	7.6.4 Packers for multi-sash centre frame hinges - sash part				No	
						Tricoat
traffic white RAL 9016	with 3 mm positioning pin	2,4	100	<b>44463</b>		
	with 7 mm supporting pin	2,4	100	<b>44456</b>		
pearl light grey RAL 9022	with 3 mm positioning pin	2,4	100	<b>44468</b>		
	with 7 mm supporting pin	2,4	100	<b>44461</b>		
brown F5	with 3 mm positioning pin	2,4	100	<b>44467</b>		
	with 7 mm supporting pin	2,4	100	<b>44460</b>		

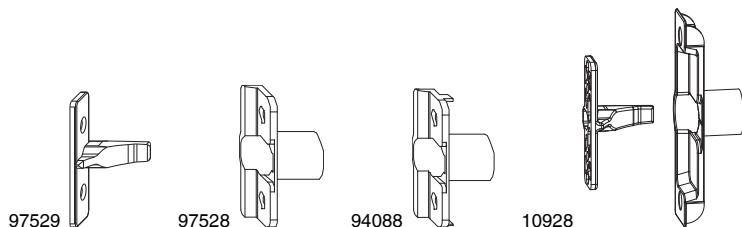
# Turn-only and tilt-only hinges, compression devices

## 7.7 Compression devices



7.7.1 Surface-mounted compression devices				No	No Tricoat
silver	sash and frame component	timber	100	52389 <sup>1</sup>	236292 <sup>1</sup>
		PVC	100	54783 <sup>1</sup>	250578 <sup>1</sup>
	sash and frame component for rebate leg weatherseal	timber	100	55028 <sup>1</sup>	236293 <sup>1</sup>
	frame component	timber/PVC	100	94218 <sup>1</sup>	
	sash component	timber/PVC	100	94217 <sup>1</sup>	
traffic white RAL 9016	sash and frame component	timber	100	206585 <sup>1</sup>	
	sash and frame component for rebate leg weatherseal	timber	100	21062 <sup>1</sup>	

<sup>1</sup> Not suitable for fully concealed hardware!

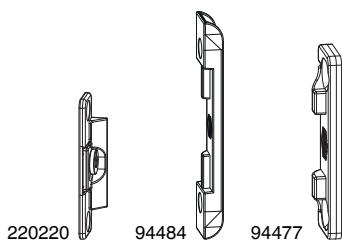



T 7.7.2 Drill-in compression devices for timber				No	No Tricoat
silver	sash component 9 / 13 mm offset	for Eurogroove	100	94089 <sup>1,2</sup>	385059 <sup>1,2</sup>
		without Eurogroove	100	97529 <sup>2</sup>	385055 <sup>2</sup>
	sash component 13 mm offset	without Eurogroove	100	360009 <sup>2</sup>	385064 <sup>2</sup>
	frame component	for 4 mm air gap, 9 mm offset	100	360006 <sup>2</sup>	
		for 4 mm air gap, 13 mm offset	100	358996 <sup>2</sup>	385067 <sup>2</sup>
		Euro-rebate 18 mm rebate depth 9 mm offset	100	354090 <sup>2</sup>	385066 <sup>2</sup>
		Euro-rebate 20 mm rebate depth 9 mm offset	100	97528 <sup>2</sup>	385060 <sup>2</sup>
		Euro-rebate 24 mm rebate depth 13 mm offset	100	357741 <sup>2</sup>	385058 <sup>2</sup>
		Euro-rebate 30 mm rebate depth 13 mm offset	100	368015 <sup>2</sup>	
		hardware groove 20 mm rebate depth 9 mm offset	100	94088 <sup>2</sup>	
		hardware groove 25 mm rebate depth 9 mm offset	100	94258 <sup>2</sup>	
	sash and frame component	4 mm air gap	100	10928	106066

<sup>1</sup> Spacer for corner hinge item no. 40485 may be used for Eurogroove.

<sup>2</sup> Suitable for MULTI POWER, MULTI MAMMUT, DT and AS.

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

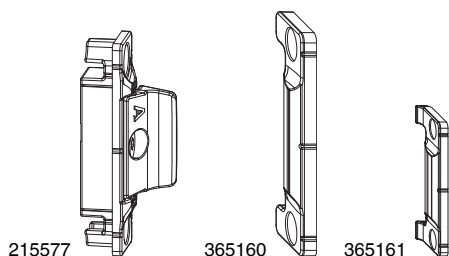


<b>7.7.3 Concealed compression devices adjustable with depth adjustment</b>				<b>No</b>	<b>No</b> Tricoat
silver	sash component 9 mm offset	for Eurogroove	100	<b>220219<sup>1</sup></b>	<b>236290<sup>1</sup></b>
		without Eurogroove	100	<b>220220<sup>2</sup></b>	<b>236291<sup>2</sup></b>
	sash component 13 mm offset	without Eurogroove	100	<b>208195<sup>2</sup></b>	<b>236294<sup>2</sup></b>
		frame component	for 4 mm air gap, 9 mm offset	100	<b>94484<sup>2</sup></b>
		for 4 mm air gap, 13 mm offset	100	<b>357677<sup>2</sup></b>	
		Euro-rebate 18 mm rebate depth 9 mm offset	100	<b>94477<sup>2</sup></b>	<b>385051<sup>2</sup></b>
		Euro-rebate 20 mm rebate depth 9 mm offset	100	<b>98265<sup>2</sup></b>	<b>385054<sup>2</sup></b>
		Euro-rebate 24 mm rebate depth 13 mm offset	100	<b>359002<sup>2</sup></b>	<b>385057<sup>2</sup></b>
		Hardware groove 6/8/4	100	<b>94478<sup>2</sup></b>	
	hardware groove 7/8/4	100	<b>94479<sup>2</sup></b>	<b>385049<sup>2</sup></b>	

<sup>1</sup> Suitable for: MULTI POWER, MULTI MAMMUT, DT, AS.

<sup>2</sup> Not suitable for fully concealed hardware!

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

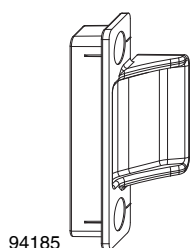


<b>7.7.4 Concealed compression devices adjustable with lateral adjustment</b>				<b>No</b>	<b>No</b> Tricoat	
silver	sash component for timber	for Eurogroove	100	<b>215577</b> <sup>1</sup>	<b>236295</b> <sup>1</sup>	
	sash component for PVC	for Eurogroove	100	<b>218543</b> <sup>1,2</sup>	<b>236297</b> <sup>1,2</sup>	
	frame component with positioning pins 8 x 4 mm	Euro-rebate 31 mm rebate depth 13 mm offset	100	<b>363703</b> <sup>1</sup>	<b>385080</b> <sup>1</sup>	
pearl light grey RAL 9022	frame component	Euro-rebate 18 mm rebate depth 9 mm offset	100	<b>365159</b> <sup>1,3</sup>		
		Euro-rebate 20 mm rebate depth 9 mm offset	100	<b>365160</b> <sup>1,3</sup>		
		Euro-rebate 24 mm rebate depth 13 mm offset	100	<b>365161</b> <sup>1,3</sup>		
		hardware groove 7/8/4	100	<b>367938</b> <sup>1,3</sup>		
		Euro-rebate 30 mm rebate depth 13 mm offset	100	<b>367510</b> <sup>1,3</sup>		
		frame component with positioning pins 8 x 4 mm	Euro-rebate 24 mm rebate depth 13 mm offset	100	<b>367494</b> <sup>1,3</sup>	
		frame component with positioning pins 12 x 3 mm	Euro-rebate 24 mm rebate depth 13 mm offset	100	<b>367652</b> <sup>1,3</sup>	

<sup>1</sup> Suitable for: MULTI POWER, MULTI MAMMUT, DT, AS.

<sup>2</sup> Frame components for PVC, see profile sheet.

<sup>3</sup> For combination with item no. 215577.



94185

<b>P</b>	<b>7.7.5 Concealed compression devices for PVC</b>		<b>No</b>	<b>No</b> Tricoat	
silver	sash component	PVC	100	<b>94185</b> <sup>1,2</sup>	<b>385052</b> <sup>1,2</sup>
	sash component with 5 mm positioning pin	PVC	100	<b>354795</b> <sup>1,2</sup>	

<sup>1</sup> Frame components for PVC, see profile sheet.


<sup>2</sup> Suitable for: MULTI POWER, MULTI MAMMUT, AS.

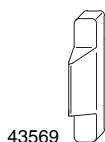
# Turn-only and tilt-only hinges, compression devices

## 7.8 Cover caps




43568

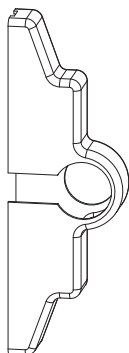
<b>7.8.1 Cover caps for surface-mounted compression devices - sash part</b>			<b>No</b>	<b>No</b> Tricoat
traffic white RAL 9016	dyed	100	<b>41339</b>	
pearl light grey RAL 9022	dyed	100	<b>43568</b>	
silver	painting	100	<b>364107</b>	
champagne	painting	100	<b>41699</b>	
titanium	painting	100	<b>40757</b>	
light bronze	dyed	100	<b>41582</b>	
cream white RAL 9001	dyed	100	<b>41231</b>	
brown F5	dyed	100	<b>41340</b>	
chrome-look	metallised	100	<b>44236</b>	
gold look	metallised	100	<b>40553</b>	




43569

<b>7.8.2 Cover caps for surface-mounted compression devices - frame part</b>			<b>No</b>	<b>No</b> Tricoat
traffic white RAL 9016	dyed	100	<b>41342</b>	
pearl light grey RAL 9022	dyed	100	<b>43569</b>	
silver	painting	100	<b>364106</b>	
champagne	painting	100	<b>41701</b>	
titanium	painting	100	<b>40756</b>	
light bronze	dyed	100	<b>41583</b>	
cream white RAL 9001	dyed	100	<b>41233</b>	
brown F5	dyed	100	<b>41343</b>	
chrome-look	metallised	100	<b>44235</b>	
gold look	metallised	100	<b>40551</b>	

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




42714

<b>7.8.3 Cover caps for turn-only hinges for 3-sashed windows</b>			<b>No</b>	<b>No</b> Tricoat
traffic white RAL 9016	dyed	20	<b>42714</b>	
pearl light grey RAL 9022	dyed	50	<b>43618</b>	
silver	painted	50	<b>44287</b>	
champagne	painted	50	<b>41698</b>	
titanium	painted	50	<b>40734</b>	
light bronze	dyed	20	<b>41642</b>	
brown F5	dyed	20	<b>42723</b>	
gold look	metallised	50	<b>40737</b>	
white	dyed	20	<b>41117</b>	

for timber profiles



43800

<b>7.8.4 Cover caps for multi-sash centre frame hinges - sash part</b>			<b>No</b>	<b>No</b> Tricoat
traffic white RAL 9016	dyed	50	<b>43800</b>	
pearl light grey RAL 9022	dyed	100	<b>44102</b>	
silver	painted	50	<b>44289</b>	
champagne	painted	50	<b>44288</b>	
titanium	painted	50	<b>43803</b>	
light bronze	dyed	50	<b>43801</b>	
cream white RAL 9001	dyed	50	<b>44295</b>	
brown F5	dyed	50	<b>43804</b>	
chrome-look	metallised	50	<b>44286</b>	
gold look	metallised	50	<b>43802</b>	

Turn-only and tilt-only hinges,  
compression devices





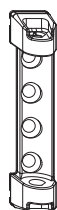
## 8 Scissor stay hinges

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## 8 Scissor stay hinges

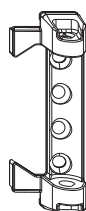
### 8.1 Scissor stay hinges PVC





52480

<b>P 8.1.1 Scissor stay hinges PVC</b>				<b>No</b>	<b>No</b> Tricoat
silver	with 3 mm positioning pin	100	100	<b>52480</b>	<b>233348</b>
	with 7 mm supporting pin	120	100	<b>52481</b>	<b>233349</b>
traffic white RAL 9016	with 3 mm positioning pin	100	100	<b>204039</b>	
	with 7 mm supporting pin	120	100	<b>204779</b>	

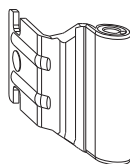
### 8.2 Surface-mounted scissor stay hinges



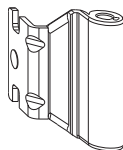
54694

<b>8.2.1 Surface-mounted scissor stay hinges</b>				<b>No</b>	<b>No</b> Tricoat
silver	12/18	120	50	<b>54694</b>	<b>233365</b>
	12/20	120	50	<b>54695</b>	<b>233362</b>
traffic white RAL 9016	12/18	120	50	<b>207876</b>	
	12/20	120	50	<b>207877</b>	

# Scissor stay hinges



58477



52486

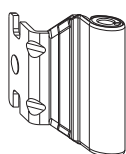
## 8.3 Rebated scissor stay support arms AS/PVC



**No**

**No**  
Tricoat

		kg	cube	No	No Tricoat
silver	12/18-9	120	100	54706	233284
	12/18-10	120	100	58619	233285
	12/18-11	120	100	206998	
	12/18-13	120	100	54709	233286
	12/18-14	120	100	56771	
	12/18-26	80	100	58477	
	12/20-9	120	100	52487	233289
	12/20-10	120	100	52489	
	12/20-11	120	100	52488	
	12/20-13	120	100	52486	233281
	12/20-14	120	100	55359	233288
	12/20-15	120	100	55883	
	12/20-26	80	100	59469	
	12/21-13	120	100	58004	233340
	12/22-9	120	100	55085	
	12/22-13	120	100	55051	233341
traffic white RAL 9016	12/18-9	120	100	207882	
	12/18-11	120	100	207884	
	12/18-13	120	100	207885	
	12/20-9	120	100	207268	
	12/20-10	120	100	207888	
	12/20-11	120	100	207889	
	12/20-13	120	100	206588	
	12/20-14	120	100	207890	
	12/20-15	120	100	207891	
	12/21-13	120	100	207267	
12/22-9	120	100	207892		
12/22-13	120	100	207895		



55009

## 8.4 Rebated scissor stay support arms AS/PVC with pre-mounted cover cap in traffic white RAL 9016



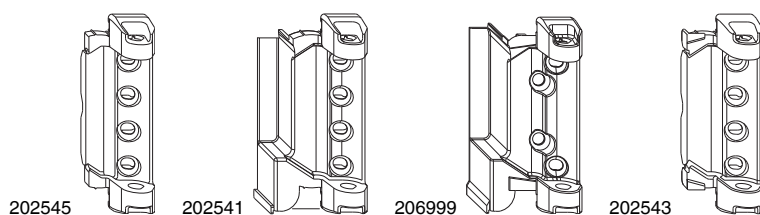
**No**

**No**  
Tricoat



		kg	cube	No	No Tricoat
silver	12/20-9	120	100	54799	
	12/20-11	120	100	201066	
	12/20-13	120	100	55009	
	12/20-14	120	100	201064	
	12/21-13	120	100	58006	



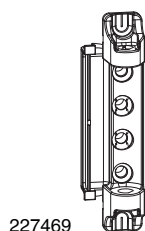
## 8.5 Scissor stay hinges DT



### T 8.5.1 Scissor stay hinges DT130



				<b>No</b>	<b>No</b> Tricoat
silver	4/15	130	50	<b>202545<sup>1</sup></b>	
	right 4/18-9	130	50	<b>202541<sup>1</sup></b>	<b>233367<sup>1</sup></b>
	left 4/18-9	130	50	<b>202542<sup>1</sup></b>	<b>233368<sup>1</sup></b>
	right 4/18-13	130	50	<b>206999<sup>1</sup></b>	<b>233371<sup>1</sup></b>
	left 4/18-13	130	50	<b>207000<sup>1</sup></b>	<b>233372<sup>1</sup></b>
	12/18	130	50	<b>202543<sup>1</sup></b>	<b>233369<sup>1</sup></b>
	12/20	130	50	<b>202544<sup>1</sup></b>	<b>233370<sup>1</sup></b>
	traffic white RAL 9016	right 4/18-9	130	50	<b>207878<sup>1</sup></b>
left 4/18-9		130	50	<b>207879<sup>1</sup></b>	
right 4/18-13		130	50	<b>207006<sup>1</sup></b>	
left 4/18-13		130	50	<b>207007<sup>1</sup></b>	
12/18		130	50	<b>207880<sup>1</sup></b>	
12/20		130	50	<b>207881<sup>1</sup></b>	

<sup>1</sup> Angled screw-fixing required from 100 kg.

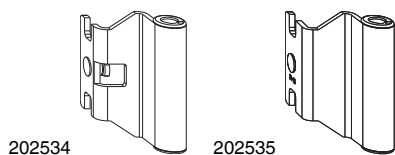




227469

### T 8.5.2 Scissor stay hinges DT160

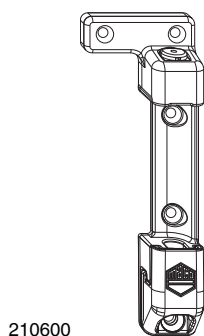
				<b>No</b>	<b>No</b> Tricoat
silver	4/15	160	50	<b>227469</b>	<b>233376</b>
	4/18 and 12/18	160	50	<b>227470</b>	<b>233375</b>
	12/20	160	50	<b>227471</b>	



# Scissor stay hinges



<b>T 8.5.3 Rebated scissor stay support arms DTuni</b>				<b>No</b>	<b>No</b> Tricoat
silver	4/15-9	160	50	<b>202533</b> <sup>1</sup>	<b>233342</b> <sup>1</sup>
	4/18-9 and 12/18-9	160	50	<b>202534</b> <sup>1</sup>	<b>233343</b> <sup>1</sup>
	4/18-13 and 12/18-13	160	50	<b>202535</b> <sup>1</sup>	<b>233344</b> <sup>1</sup>
	12/18-11	160	50	<b>202539</b> <sup>1</sup>	<b>233347</b> <sup>1</sup>
	12/18-14	160	50	<b>206718</b> <sup>1</sup>	
	12/20-9	160	50	<b>202536</b> <sup>1</sup>	<b>233345</b> <sup>1</sup>
	12/20-13	160	50	<b>202537</b> <sup>1</sup>	<b>233346</b> <sup>1</sup>
traffic white RAL 9016	4/15-9	160	100	<b>207896</b> <sup>1</sup>	
	4/18-9 and 12/18-9	160	100	<b>207897</b> <sup>1</sup>	
	4/18-13 and 12/18-13	160	100	<b>207898</b> <sup>1</sup>	
	12/18-11	160	50	<b>208936</b> <sup>1</sup>	
	12/18-14	160	50	<b>215096</b> <sup>1</sup>	
	12/20-9	160	100	<b>207899</b> <sup>1</sup>	
	12/20-13	160	50	<b>212826</b> <sup>1</sup>	

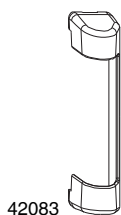
<sup>1</sup> Compatible with scissor stay hinge DT130 and DT160.




<b>T 8.6 Scissor stay hinges MULTI MAMMUT</b>				<b>No</b>	<b>No</b> Tricoat	
silver	with 9 mm supporting pins	right	220	20	<b>210600</b>	<b>233373</b>
		left	220	20	<b>210601</b>	<b>233374</b>
traffic white RAL 9016	with 9 mm supporting pins	right	220	20	<b>212542</b>	
		left	220	20	<b>212543</b>	



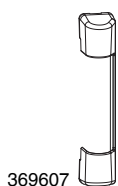
## 8.7 Cover caps




42083

8.7.1 Cover caps for scissor stay hinges AS/DT130/PVC			No	No Tricoat
traffic white RAL 9016	dyed	100	<b>42083<sup>1</sup></b>	
pearl light grey RAL 9022	dyed	100	<b>43761</b>	
silver	painting	100	<b>44290</b>	
champagne	painting	100	<b>42103</b>	
titanium	painting	100	<b>42099</b>	
light bronze	dyed	100	<b>42097</b>	
cream white RAL 9001	dyed	100	<b>42191</b>	
brown F5	dyed	100	<b>42189</b>	
chrome-look	metallised	100	<b>44243</b>	
gold look	metallised	100	<b>42098</b>	
graphite black RAL 9011	dyed	100	<b>42190</b>	

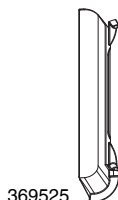
<sup>1</sup> Also available as bulk pack of 500 pieces as item no. 42284.




369607

<b>T</b>	8.7.2 Cover caps for scissor stay hinges DT160			No	No Tricoat
	traffic white RAL 9016	dyed	50	<b>369607<sup>1</sup></b>	
	pearl light grey RAL 9022	dyed	50	<b>369608<sup>1</sup></b>	
	titanium	painting	50	<b>369609<sup>1</sup></b>	
	gold look	metallised	50	<b>369610<sup>1</sup></b>	

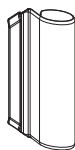
<sup>1</sup> Also compatible with scissor stay hinge DT 130.




369525

<b>T</b>	8.7.3 Recess cover caps for scissor stay hinges DT160			No	No Tricoat
	grey F1	right 4/15-9 and 4/18-9	50	<b>369525</b>	
		left 4/15-9 and 4/18-9	50	<b>369526</b>	
		right 4/18-13	50	<b>369527</b>	
		left 4/18-13	50	<b>369528</b>	

# Scissor stay hinges




42084

<b>8.7.4 Cover caps for rebated scissor stay support arms AS/PVC</b>			<b>No</b>	<b>No</b> Tricoat
traffic white RAL 9016	dyed	100	<b>42084<sup>1</sup></b>	
pearl light grey RAL 9022	dyed	100	<b>43760</b>	
silver	painted	100	<b>44291</b>	
champagne	painted	100	<b>42108</b>	
titanium	painted	100	<b>42107</b>	
light bronze	dyed	100	<b>42105</b>	
cream white RAL 9001	dyed	100	<b>42194</b>	
brown F5	dyed	100	<b>42192</b>	
chrome-look	metallised	100	<b>44244</b>	
gold look	metallised	100	<b>42106</b>	
graphite black RAL 9011	dyed	100	<b>42193</b>	

<sup>1</sup> Also available as bulk pack of 500 pieces as item no. 42285.



354669


<b>T</b>	<b>8.7.5 Cover caps for rebated scissor stay support arms DTuni</b>			<b>No</b>	<b>No</b> Tricoat
	traffic white RAL 9016	dyed	100	<b>354669</b>	
	pearl light grey RAL 9022	dyed	100	<b>354674</b>	
	silver	painted	100	<b>360952</b>	
	champagne	painted	100	<b>354673</b>	
	titanium	painted	100	<b>354672</b>	
	light bronze	dyed	100	<b>354670</b>	
	cream white RAL 9001	dyed	100	<b>356597</b>	
	brown F5	dyed	100	<b>354675</b>	
	chrome-look	metallised	100	<b>354676</b>	
	gold look	metallised	100	<b>354671</b>	
	graphite black RAL 9011	dyed	100	<b>356598</b>	



## 8.8 Accessories for scissor stay hinges




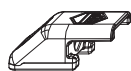
94491

8.8.1 Scissor stay hinge pin AS/DTuni/PVC			<b>No</b>	<b>No</b> Tricoat
silver		200	94491	372750



364716

8.8.2 Dust cover caps for scissor stay hinges MULTI MAMMUT			<b>No</b>	<b>No</b> Tricoat
traffic white RAL 9016	dyed	100	364716	
pearl light grey RAL 9022	dyed	100	364565	
titanium	dyed	100	367812	




364675



364676



362336

8.8.3 Accessories for scissor stay hinges MULTI MAMMUT			<b>No</b>	<b>No</b> Tricoat
silver	scissor stay hinge pin safety device for scissor stay hinge 180 kg	20	364675	385098
	countersunk screw M5x12 for slide-over lock for scissor stay hinge pin	20	364676	385097
traffic white RAL 9016	scissor stay hinge pin safety device for scissor stay hinge 180 kg	20	364677	
	countersunk screw M5x12 for slide-over lock for scissor stay hinge pin	20	364678	
white	clip-on bush 10 mm, Multi Mammut fittings	50	362336	





## 9 Pivot posts

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## 9 Pivot posts

### 9.1 Matrix for pivot posts and corner supports





















#### 9.1.1 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 <sup>2</sup>	100 kg max. 2,4 m <sup>2</sup>	100 kg max. 2,4 m <sup>2</sup>	--	--	--	--	--
Corner support PVC with Ø 5 mm supporting pins 52479	100 kg max. 3,0 m <sup>2</sup>	100 kg max. 3,0 m <sup>2</sup>	120 kg max. 3,0 m <sup>2</sup>	--	--	--	--	--
Rebated corner support AS/PVC without rebate-leg	100 kg* max. 3,0 m <sup>2</sup>	100 kg* max. 3,0 m <sup>2</sup>	120 kg* max. 3,0 m <sup>2</sup>	120 kg* max. 3,0 m <sup>2</sup>	--	--	--	--
Rebated corner support AS with rebate-leg	--	--	--	--	120 kg* max. 3,0 m <sup>2</sup>	--	--	--
Rebated corner support INVISIBLE	--	--	--	--	--	100 kg* max. 2,4 m <sup>2</sup>	--	--
Rebated corner support MULTI POWER	--	--	--	--	--	--	150 kg max. 3,0 m <sup>2</sup>	--
Rebated corner support MULTI MAMMUT	--	--	--	--	--	--	--	180 kg max. 3,6 m <sup>2</sup>
Corner support PVC MULTI MAMMUT	--	--	--	--	--	--	--	180 kg max. 3,6 m <sup>2</sup>

\* Observe maximum load of 80 kg for certain components!

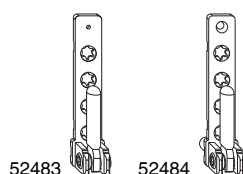
Above pivot post / corner support combinations may only be combined with scissor stay hinges of the same bearing type!

## 9.1.2 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 <sup>2</sup>	--	--	--	--	--	--	--
Rebated corner support ASI/PVC without rebate-leg 	--	 * 120 kg max. 3,0 m <sup>2</sup>	--	--	--	--	--	--
Rebated corner support DT130 without rebate-leg 	--	--	 100 kg max. 3,0 m <sup>2</sup>	 100 kg max. 3,0 m <sup>2</sup>	--	--	--	--
Rebated corner support DT130 with rebate-leg 	--	--	 130 kg max. 3,0 m <sup>2</sup>	 130 kg max. 3,0 m <sup>2</sup>	--	--	--	--
Rebated corner support DT160 with rebate-leg 	--	--	--	 160 kg max. 3,0 m <sup>2</sup>	--	--	--	--
Rebated corner support TV 	--	--	--	--	 100 kg max. 2,4 m <sup>2</sup>	--	--	--
Rebated corner support INVISIBLE 	--	--	--	--	--	 * 100 kg max. 2,4 m <sup>2</sup>	--	--
Rebated corner support MULTI POWER 	--	--	--	--	--	--	 150 kg max. 3,0 m <sup>2</sup>	--
Rebated corner support MULTI MAMMUT 	--	--	--	--	--	--	--	 220 kg max. 3,6 m <sup>2</sup>
* 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!								

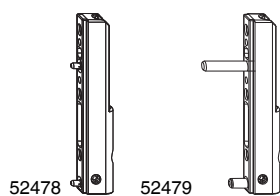


## 9.2 Pivot posts PVC



P 9.2.1 Pivot posts PVC		kg		No	No Tricoat
silver	with 3 mm positioning pin	100	100	<b>52483</b>	<b>233020</b>
	with 7 mm supporting pins 3 mm long	100	100	<b>52485</b>	<b>233031</b>
	with 7 mm supporting pins 12 mm long	120	100	<b>52764<sup>1</sup></b>	<b>233030<sup>1</sup></b>
	with 7 mm supporting pins 23 mm long	120	100	<b>52484<sup>1</sup></b>	<b>233021<sup>1</sup></b>
traffic white RAL 9016	with 3 mm positioning pin	100	100	<b>206802</b>	
	with 7 mm supporting pins 3 mm long	100	100	<b>206586</b>	
	with 7 mm supporting pins 12 mm long	120	100	<b>207902<sup>1</sup></b>	
	with 7 mm supporting pins 23 mm long	120	100	<b>207278<sup>1</sup></b>	

<sup>1</sup> Above 100 kg support pin must reach through at least 2 profile walls!

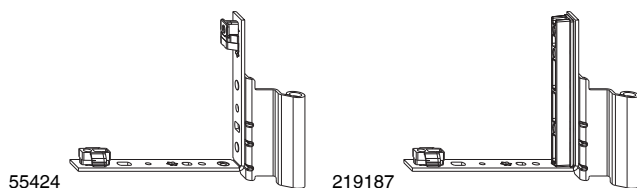


P 9.2.2 Corner supports PVC		kg		No	No Tricoat
silver	with 3 mm positioning pin	100	100	<b>52478<sup>1,2</sup></b>	<b>232938<sup>1,2</sup></b>
	with 5 mm supporting pin 17 mm long	120	100	<b>206196<sup>1,3</sup></b>	
	with 5 mm supporting pins 23 mm long	120	100	<b>52479<sup>1,3</sup></b>	<b>232931<sup>1,3</sup></b>
traffic white RAL 9016	with 3 mm positioning pin	100	100	<b>206848<sup>1,2</sup></b>	
	with 5 mm supporting pins 23 mm long	120	100	<b>206584<sup>1,3</sup></b>	

<sup>1</sup> For packers for corner supports refer to accessories for pivot posts PVC.

<sup>2</sup> Maximum sash total surface 2.4 m<sup>2</sup>.

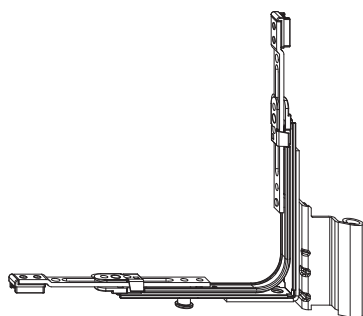
<sup>3</sup> Above 100 kg support pin must reach through at least 2 profile walls!



9.2.3 Rebated corner supports AS/PVC without rebate-leg screw fixing			kg		No	No Tricoat
silver	right	12/18-9	120	100	214391 <sup>1</sup>	232977 <sup>1</sup>
	left	12/18-9	120	100	214392 <sup>1</sup>	232978 <sup>1</sup>
	right	12/18-11	120	100	55424 <sup>1</sup>	232955 <sup>1</sup>
	left	12/18-11	120	100	55425 <sup>1</sup>	232956 <sup>1</sup>
	right	12/18-13	120	100	59444 <sup>1</sup>	232957 <sup>1</sup>
	left	12/18-13	120	100	59443 <sup>1</sup>	232958 <sup>1</sup>
	right	12/18-26	80	100	58475 <sup>1</sup>	
	left	12/18-26	80	100	58476 <sup>1</sup>	
	right	12/20-9	120	100	54890 <sup>1</sup>	232959 <sup>1</sup>
	left	12/20-9	120	100	54891 <sup>1</sup>	232960 <sup>1</sup>
	right	12/20-13	120	100	54892 <sup>1</sup>	232932 <sup>1</sup>
	left	12/20-13	120	100	54893 <sup>1</sup>	232933 <sup>1</sup>
	right	12/20-14	120	100	212967 <sup>1</sup>	
	left	12/20-14	120	100	212968 <sup>1</sup>	
	right	12/20-26	80	100	59916 <sup>1</sup>	
	left	12/20-26	80	100	59917 <sup>1</sup>	
	right	12/22-13	120	100	219187 <sup>1</sup>	
	left	12/22-13	120	100	219188 <sup>1</sup>	
traffic white RAL 9016	right	12/18-11	120	100	207916 <sup>1</sup>	
	left	12/18-11	120	100	207917 <sup>1</sup>	
	right	12/20-9	120	100	207918 <sup>1</sup>	
	left	12/20-9	120	100	207919 <sup>1</sup>	
	right	12/20-13	120	100	207920 <sup>1</sup>	
left	12/20-13	120	100	207921 <sup>1</sup>		

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





205664

9.2.4 Rebated corner supports AS/PVC without rebate-leg screw fixing EH with corner element				kg		No	No Tricoat
silver	with 1 i.S.	right	12/18-9	120	20	218155 <sup>1</sup>	
		left	12/18-9	120	20	218156 <sup>1</sup>	
		right	12/18-13	120	20	218159 <sup>1</sup>	233018 <sup>1</sup>
		left	12/18-13	120	20	218160 <sup>1</sup>	233019 <sup>1</sup>
		right	12/18-26	80	20	218161 <sup>1</sup>	
		left	12/18-26	80	20	218162 <sup>1</sup>	
		right	12/20-9	120	20	218163 <sup>1</sup>	
		left	12/20-9	120	20	218164 <sup>1</sup>	
		right	12/20-13	120	20	205664 <sup>1</sup>	233004 <sup>1</sup>
		left	12/20-13	120	20	205665 <sup>1</sup>	233005 <sup>1</sup>
		right	12/20-26	80	20	218165 <sup>1</sup>	
		left	12/20-26	80	20	218166 <sup>1</sup>	

<sup>1</sup> Suitable for half round and angled windows as well as EH and Comfort-/E-fitting.



224283

224282

9.2.5 Corner element two-part					No	No Tricoat
silver	vertically extendable	500 - 1.650		50	224283 <sup>1</sup>	232883 <sup>1</sup>
	corner connector MM bottom for half round			20	224282 <sup>2</sup>	236889 <sup>2</sup>





<sup>1</sup> When used for half round windows also item no. 224282.

<sup>2</sup> When used for half round windows also item no. 224283.

## 9.2.6 Accessories for pivot posts PVC



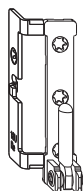
### 9.2.6.1 Packers for corner supports PVC

					
silver	5°		100	<b>361364</b>	
white	5 mm	8,4	right	100	<b>44375</b>
			left	100	<b>44374</b>
brown F5	5 mm	8,4	right	100	<b>361363</b>
			left	100	<b>363288</b>



## 9.3 Pivot posts AS (surface-mounted)

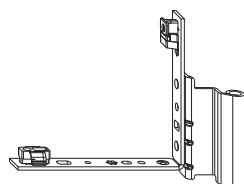
### 9.3.1 Surface-mounted pivot posts for rebated corner supports AS/PVC without rebate-leg screw fixing



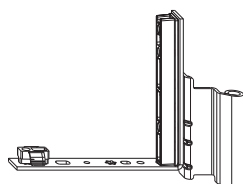
214104

9.3.1.1 Surface-mounted pivot posts for rebated corner supports AS/PVC without rebate-leg screw fixing			kg		No	No Tricoat
silver	right	12/18	120	50	214104 <sup>1</sup>	233124 <sup>1</sup>
	left	12/18	120	50	214105 <sup>1</sup>	233125 <sup>1</sup>
	right	12/20	120	50	214106 <sup>1</sup>	233132 <sup>1</sup>
	left	12/20	120	50	214107 <sup>1</sup>	233133 <sup>1</sup>
traffic white RAL 9016	right	12/18	120	50	214112 <sup>1</sup>	
	left	12/18	120	50	214113 <sup>1</sup>	
	right	12/20	120	50	214114 <sup>1</sup>	
	left	12/20	120	50	214115 <sup>1</sup>	

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



55424



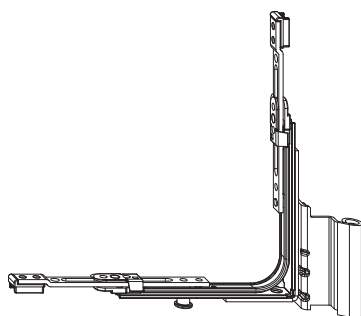
219187

9.3.1.2 Rebated corner supports AS/PVC without rebate-leg screw fixing			kg		No	No Tricoat	
silver	right	12/18-9	120	100	214391 <sup>1</sup>	232977 <sup>1</sup>	
	left	12/18-9	120	100	214392 <sup>1</sup>	232978 <sup>1</sup>	
	right	12/18-11	120	100	55424 <sup>1</sup>	232955 <sup>1</sup>	
	left	12/18-11	120	100	55425 <sup>1</sup>	232956 <sup>1</sup>	
	right	12/18-13	120	100	59444 <sup>1</sup>	232957 <sup>1</sup>	
	left	12/18-13	120	100	59443 <sup>1</sup>	232958 <sup>1</sup>	
	right	12/18-26	80	100	58475 <sup>1</sup>		
	left	12/18-26	80	100	58476 <sup>1</sup>		
	right	12/20-9	120	100	54890 <sup>1</sup>	232959 <sup>1</sup>	
	left	12/20-9	120	100	54891 <sup>1</sup>	232960 <sup>1</sup>	
	right	12/20-13	120	100	54892 <sup>1</sup>	232932 <sup>1</sup>	
	left	12/20-13	120	100	54893 <sup>1</sup>	232933 <sup>1</sup>	
	right	12/20-14	120	100	212967 <sup>1</sup>		
	left	12/20-14	120	100	212968 <sup>1</sup>		
	right	12/20-26	80	100	59916 <sup>1</sup>		
	left	12/20-26	80	100	59917 <sup>1</sup>		
	right	12/22-13	120	100	219187 <sup>1</sup>		
	left	12/22-13	120	100	219188 <sup>1</sup>		
	traffic white RAL 9016	right	12/18-11	120	100	207916 <sup>1</sup>	
		left	12/18-11	120	100	207917 <sup>1</sup>	
right		12/20-9	120	100	207918 <sup>1</sup>		
left		12/20-9	120	100	207919 <sup>1</sup>		
right		12/20-13	120	100	207920 <sup>1</sup>		
	left	12/20-13	120	100	207921 <sup>1</sup>		

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



205664

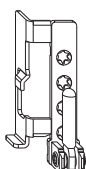


9.3.1.3 Rebated corner supports AS/PVC without rebate-leg screw fixing EH with corner element				kg		No	No Tricoat
silver	with 1 i.S.	right	12/18-9	120	20	218155 <sup>1</sup>	
		left	12/18-9	120	20	218156 <sup>1</sup>	
		right	12/18-13	120	20	218159 <sup>1</sup>	233018 <sup>1</sup>
		left	12/18-13	120	20	218160 <sup>1</sup>	233019 <sup>1</sup>
		right	12/18-26	80	20	218161 <sup>1</sup>	
		left	12/18-26	80	20	218162 <sup>1</sup>	
		right	12/20-9	120	20	218163 <sup>1</sup>	
		left	12/20-9	120	20	218164 <sup>1</sup>	
		right	12/20-13	120	20	205664 <sup>1</sup>	233004 <sup>1</sup>
		left	12/20-13	120	20	205665 <sup>1</sup>	233005 <sup>1</sup>
		right	12/20-26	80	20	218165 <sup>1</sup>	
		left	12/20-26	80	20	218166 <sup>1</sup>	

<sup>1</sup> Suitable for half round and angled windows as well as EH and Comfort-/E-fitting.

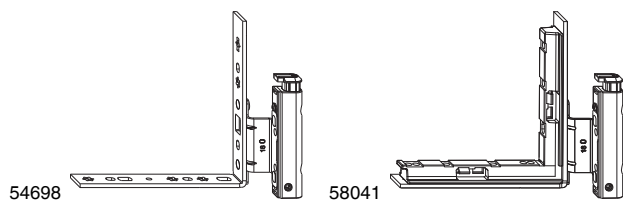
## 9.3.2 Surface-mounted pivot posts for surface-mounted rebated corner supports with rebate-leg screw fixing

54690



9.3.2.1 Surface-mounted pivot posts for surface-mounted rebated corner supports with rebate-leg screw fixing				kg		No	No Tricoat
silver	right	12/18	120	50	54690 <sup>1</sup>	233028 <sup>1</sup>	
	left	12/18	120	50	54691 <sup>1</sup>	233029 <sup>1</sup>	
	right	12/20	120	50	54692 <sup>1</sup>	233024 <sup>1</sup>	
	left	12/20	120	50	54693 <sup>1</sup>	233025 <sup>1</sup>	
traffic white RAL 9016	right	12/18	120	50	207904 <sup>1</sup>		
	left	12/18	120	50	207905 <sup>1</sup>		
	right	12/20	120	50	207906 <sup>1</sup>		
	left	12/20	120	50	207907 <sup>1</sup>		

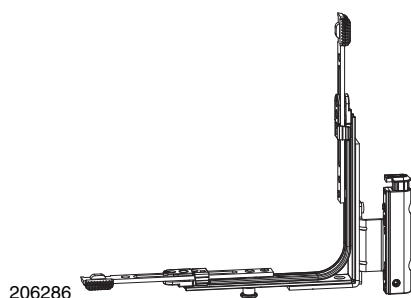
<sup>1</sup> Only suitable with rebated corner support AS with rebate-leg screw fixing!



9.3.2.2 Surface-mounted rebated corner supports with rebate-leg screw fixing				kg		No	No Tricoat		
silver	with rebate-leg screw-fixing	right	12/18-9	120	50	54698 <sup>1</sup>	232952 <sup>1</sup>		
		left	12/18-9	120	50	54699 <sup>1</sup>	232953 <sup>1</sup>		
		right	12/18-11	120	50	206996 <sup>1</sup>			
		left	12/18-11	120	50	206997 <sup>1</sup>			
		right	12/18-13	120	50	54700 <sup>1</sup>	232954 <sup>1</sup>		
		left	12/18-13	120	50	54701 <sup>1</sup>	232951 <sup>1</sup>		
		right	12/20-9	120	50	54702 <sup>1</sup>			
		left	12/20-9	120	50	54703 <sup>1</sup>			
		right	12/20-13	120	50	54704 <sup>1</sup>	232936 <sup>1</sup>		
		left	12/20-13	120	50	54705 <sup>1</sup>	232937 <sup>1</sup>		
		pre-assembled spacer bar for corner hinge		right	12/18-9	120	50	58041 <sup>1,2</sup>	
				left	12/18-9	120	50	58042 <sup>1,2</sup>	
				right	12/20-13	120	50	222168 <sup>1,2</sup>	
				left	12/20-13	120	50	222169 <sup>1,2</sup>	
traffic white RAL 9016	with rebate-leg screw-fixing	right	12/18-9	120	50	207922 <sup>1</sup>			
		left	12/18-9	120	50	207923 <sup>1</sup>			
		right	12/18-11	120	50	207924 <sup>1</sup>			
		left	12/18-11	120	50	207925 <sup>1</sup>			
		right	12/18-13	120	50	207926 <sup>1</sup>			
		left	12/18-13	120	50	207927 <sup>1</sup>			
		right	12/20-9	120	50	207928 <sup>1</sup>			
		left	12/20-9	120	50	207929 <sup>1</sup>			
		right	12/20-13	120	50	207930 <sup>1</sup>			
		left	12/20-13	120	50	207931 <sup>1</sup>			
		pre-assembled spacer bar for corner hinge		right	12/20-13	120	50	207932 <sup>1,2</sup>	
				left	12/20-13	120	50	207933 <sup>1,2</sup>	

<sup>1</sup> Use on profile systems with overlap gasket upon request.

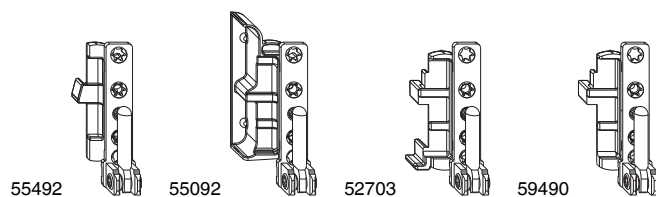
<sup>2</sup> Not suitable for half round and angled windows.



9.3.2.3 Surface-mounted rebated corner supports with rebate-leg screw fixing EH with corner element				kg		No	No Tricoat
silver	with 1 i.S.	right	12/18-9	120	20	206286 <sup>1</sup>	
		left	12/18-9	120	20	206287 <sup>1</sup>	
		right	12/18-13	120	20	206288 <sup>1</sup>	
		left	12/18-13	120	20	206289 <sup>1</sup>	
		right	12/20-9	120	20	206290 <sup>1</sup>	
		left	12/20-9	120	20	206291 <sup>1</sup>	
		right	12/20-13	120	20	206292 <sup>1</sup>	
		left	12/20-13	120	20	206293 <sup>1</sup>	

<sup>1</sup> Suitable for half round and angled windows as well as EH and Comfort-/E-fitting.

## 9.4 Pivot posts DT



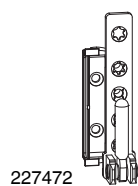
T 9.4.1 Pivot posts DT130		kg		No	No Tricoat	
silver	right 4/15	130	50	55492 <sup>1</sup>		
	left 4/15	130	50	55493 <sup>1</sup>		
	right 4/18	130	50	55092 <sup>1,2,3</sup>	233032 <sup>1,2,3</sup>	
	left 4/18	130	50	55093 <sup>1,2,3</sup>	233033 <sup>1,2,3</sup>	
	right 12/18	130	50	52703 <sup>1</sup>	233022 <sup>1</sup>	
	left 12/18	130	50	52704 <sup>1</sup>	233023 <sup>1</sup>	
	right 12/20	130	50	54726 <sup>1</sup>	233034 <sup>1</sup>	
	left 12/20	130	50	54727 <sup>1</sup>	233035 <sup>1</sup>	
	for balcony doors	right 12/18	130	50	59490 <sup>1</sup>	233026 <sup>1</sup>
	left 12/18	130	50	59491 <sup>1</sup>	233027 <sup>1</sup>	
traffic white RAL 9016	right 4/15	130	50	207908 <sup>1</sup>		
	left 4/15	130	50	207909 <sup>1</sup>		
	right 4/18	130	50	207910 <sup>1,4</sup>		
	left 4/18	130	50	207911 <sup>1,4</sup>		
	right 12/18	130	50	207912 <sup>1</sup>		
	left 12/18	130	50	207913 <sup>1</sup>		
	right 12/20	130	50	207914 <sup>1</sup>		
	left 12/20	130	50	207915 <sup>1</sup>		

<sup>1</sup> For sash weights above 100 kg or a dry density below 0.62 g/cm<sup>3</sup>, insert a countersunk head screw 4 x 40 mm flush below the pivot post!

<sup>2</sup> For milling depth 24.5 mm, use packer item no. 360464!

<sup>3</sup> For milling depth 22 mm, use packer item no. 366541!

<sup>4</sup> For milling depth 24.5 mm, use packer item no. 360465!

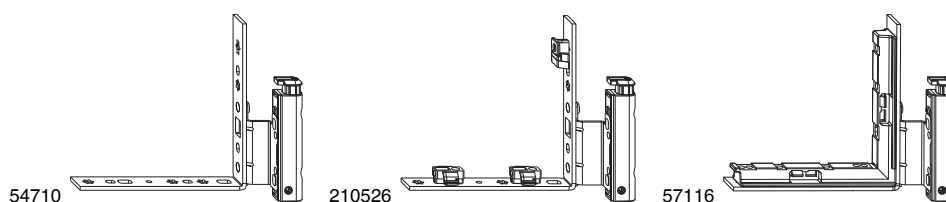


227472

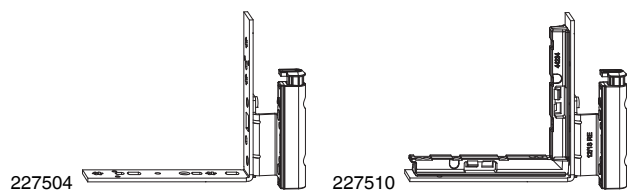
T 9.4.2 Pivot posts DT160		kg		No	No Tricoat
silver	right 4/15	160	50	227472 <sup>1</sup>	233136 <sup>1</sup>
	left 4/15	160	50	227473 <sup>1</sup>	233137 <sup>1</sup>
	right 4/18	160	50	227474 <sup>1</sup>	
	left 4/18	160	50	227475 <sup>1</sup>	
	right 12/18	160	50	227476 <sup>1</sup>	233134 <sup>1</sup>
	left 12/18	160	50	227477 <sup>1</sup>	233135 <sup>1</sup>
	right 12/20	160	50	227478 <sup>1</sup>	
	left 12/20	160	50	227479 <sup>1</sup>	

<sup>1</sup> Use support rawplug item no. 369535 for a sash weight above 100 kg for windows and balcony doors! For balcony doors between 100 - 130 kg, a support screw may be used alternatively!

## 9.4.3 Rebated corner supports DT



T 9.4.3.1 Rebated corner supports DT130 with rebate-leg screw fixing				kg	cube	No	No Tricoat	
silver	with rebate-leg screw-fixing	right	4/15-9	130	50	55494		
		left	4/15-9	130	50	55495		
		right	4/18-9	130	50	220048	232963	
		left	4/18-9	130	50	220051	232964	
		right	4/18-13	130	50	207870	236921	
		left	4/18-13	130	50	207871	236920	
		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	
		right	12/20-9	130	50	54712	232967	
		left	12/20-9	130	50	54713	232968	
	right	12/20-13	130	50	220045	232969		
	left	12/20-13	130	50	220046	232970		
	with rebate-leg screw-fixing for Eurogroove	right	4/18-9	130	50	210526		
		left	4/18-9	130	50	210527		
		right	4/18-13	130	50	210524	232995	
		left	4/18-13	130	50	210525	232996	
		with rebate-leg screw-fixing and pre-assembled spacer for rebated corner hinge	right	12/18-9	130	50	57116	232984
			left	12/18-9	130	50	57117	232983
	right		12/18-11	130	50	201016	250585	
	left		12/18-11	130	50	201017	250586	
	right		12/18-13	130	50	209594	232971	
	left		12/18-13	130	50	209595	232972	
right	12/20-13		130	50	214774			
left	12/20-13		130	50	214775			
right	12/18-14		130	50	206994			
left	12/18-14		130	50	206995			
traffic white RAL 9016	with rebate-leg screw-fixing		right	4/15-9	130	50	207940	
			left	4/15-9	130	50	207941	
		right	4/18-9	130	50	207942		
		left	4/18-9	130	50	207943		
		right	4/18-13	130	50	207872		
		left	4/18-13	130	50	207873		
		right	12/18-9	130	50	207944		
		left	12/18-9	130	50	207945		
		right	12/18-13	130	50	207946		
		left	12/18-13	130	50	207947		
		right	12/20-9	130	50	207948		
		left	12/20-9	130	50	207949		
	right	12/20-13	130	50	213683			
	left	12/20-13	130	50	213684			
	with rebate-leg screw-fixing for Eurogroove	right	4/18-13	130	50	218074		
		left	4/18-13	130	50	218075		
		with rebate-leg screw-fixing and pre-assembled spacer for rebated corner hinge	right	12/18-11	130	50	209500	
			left	12/18-11	130	50	209501	
	right		12/18-13	130	50	211720		
	left		12/18-13	130	50	211721		



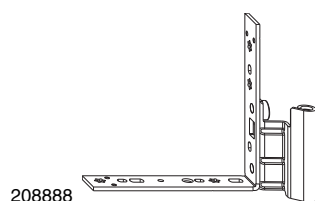
## T 9.4.3.2 Rebated corner supports DT160 with rebate-leg screw fixing



No

No  
Tricoat

silver	with rebate-leg screw-fixing			kg		No	No Tricoat
		right	4/15-9	160	50	227496	233002
		left	4/15-9	160	50	227497	233003
		right	4/18-9	160	50	227498	
		left	4/18-9	160	50	227499	
		right	4/18-13	160	50	227500	
		left	4/18-13	160	50	227501	
		right	12/18-9	160	50	227502	
		left	12/18-9	160	50	227503	
		right	12/18-11	160	50	228961	
		left	12/18-11	160	50	228962	
		right	12/18-13	160	50	227504	232998
		left	12/18-13	160	50	227505	233001
		right	12/20-9	160	50	227506	
		left	12/20-9	160	50	227507	
		right	12/20-13	160	50	227508	
		left	12/20-13	160	50	227509	
	with rebate-leg screw-fixing and pre-assembled spacer for rebated corner hinge	right	12/18-13	160	50	227510	
		left	12/18-13	160	50	227511	



## T 9.4.3.3 Rebated corner supports DTuni without rebate-leg screw fixing

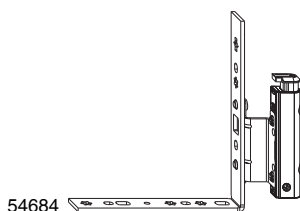


No



No  
Tricoat

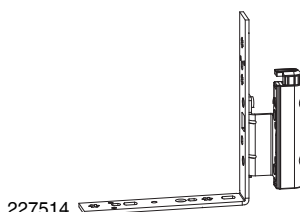
silver				kg		No	No Tricoat
		right	4/18-9	100	50	55097	
		left	4/18-9	100	50	55098	
		right	12/18-9	100	50	52706	232961
		left	12/18-9	100	50	52707	232962
		right	12/18-13	100	50	208888 <sup>1</sup>	
		left	12/18-13	100	50	208889 <sup>1</sup>	
		right	12/20-9	100	50	54728	
		left	12/20-9	100	50	54729	
		right	12/20-13	100	50	212209 <sup>1</sup>	232991 <sup>1</sup>
		left	12/20-13	100	50	212210 <sup>1</sup>	232992 <sup>1</sup>
traffic white RAL 9016		right	4/18-9	100	50	207934	
		left	4/18-9	100	50	207935	
		right	12/18-9	100	50	207936	
		left	12/18-9	100	50	207937	
		right	12/20-9	100	50	207938	
		left	12/20-9	100	50	207939	

<sup>1</sup> When using spacer for rebated corner hinge item no. 44234, one vertical screw hole omits.





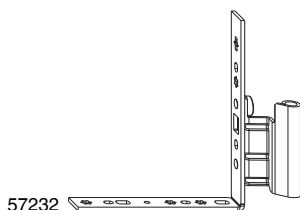
54684

<b>T 9.4.3.4 Rebated corner supports DT130 for casement doors with rebate-leg screw fixing</b>						<b>No</b>	<b>No</b> Tricoat
silver	for balcony doors with rebate-leg screw-fixing	right	12/18-9	130	50	<b>54684</b>	<b>232939</b>
		left	12/18-9	130	50	<b>54685</b>	<b>232950</b>
		right	12/18-13	130	50	<b>209411</b>	<b>232975</b>
		left	12/18-13	130	50	<b>209412</b>	<b>232976</b>
		right	12/20-9	130	50	<b>54688</b>	<b>232973</b>
		left	12/20-9	130	50	<b>54689</b>	<b>232974</b>
		right	12/20-13	130	50	<b>209413</b>	
		left	12/20-13	130	50	<b>209414</b>	





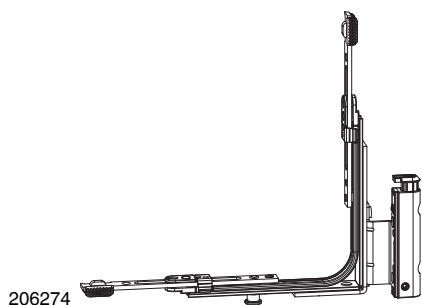
227514

<b>T 9.4.3.5 Rebated corner supports DT160 for casement doors with rebate-leg screw fixing</b>						<b>No</b>	<b>No</b> Tricoat
silver	for balcony doors with rebate-leg screw-fixing	right	12/18-9	160	50	<b>227512</b>	
		left	12/18-9	160	50	<b>227513</b>	
		right	12/18-13	160	50	<b>227514</b>	<b>232999</b>
		left	12/18-13	160	50	<b>227515</b>	<b>233000</b>
		right	12/20-9	160	50	<b>227516</b>	
		left	12/20-9	160	50	<b>227517</b>	
		right	12/20-13	160	50	<b>227518</b>	
		left	12/20-13	160	50	<b>227519</b>	





57232

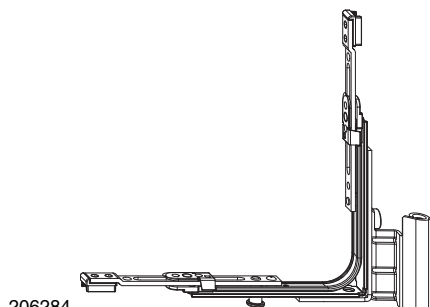
<b>T 9.4.3.6 Rebated corner supports DTuni for casement doors without rebate-leg screw fixing</b>						<b>No</b>	<b>No</b> Tricoat
silver	for balcony doors	right	12/18-9	100	50	<b>57232</b>	
		left	12/18-9	100	50	<b>57233</b>	
		right	12/18-13	100	50	<b>209407</b>	
		left	12/18-13	100	50	<b>209408</b>	
		right	12/20-13	100	50	<b>209409</b>	
		left	12/20-13	100	50	<b>209410</b>	





206274

<b>T</b> 9.4.3.7 Rebated corner supports DTuni with rebate-leg screw fixing EH with corner element		 		<b>No</b>	<b>No</b> Tricoat	
silver	with 1 i.S.	right	4/15-9	130 20	<b>224284</b> <sup>1</sup>	
		left	4/15-9	130 20	<b>224285</b> <sup>1</sup>	
		right	4/18-13	130 20	<b>214908</b> <sup>1</sup>	
		left	4/18-13	130 20	<b>214910</b> <sup>1</sup>	
		right	12/18-9	130 20	<b>206274</b> <sup>1</sup>	<b>233006</b> <sup>1</sup>
		left	12/18-9	130 20	<b>206275</b> <sup>1</sup>	<b>233007</b> <sup>1</sup>
		right	12/18-11	130 20	<b>207065</b> <sup>1</sup>	<b>233008</b> <sup>1</sup>
		left	12/18-11	130 20	<b>207066</b> <sup>1</sup>	<b>233009</b> <sup>1</sup>
		right	12/18-13	130 20	<b>206276</b> <sup>1</sup>	<b>233014</b> <sup>1</sup>
		left	12/18-13	130 20	<b>206277</b> <sup>1</sup>	<b>233015</b> <sup>1</sup>
		right	12/20-9	130 20	<b>206278</b> <sup>1</sup>	<b>233010</b> <sup>1</sup>
		left	12/20-9	130 20	<b>206279</b> <sup>1</sup>	<b>233011</b> <sup>1</sup>
		right	12/20-13	130 20	<b>206280</b> <sup>1</sup>	<b>233012</b> <sup>1</sup>
		left	12/20-13	130 20	<b>206281</b> <sup>1</sup>	<b>233013</b> <sup>1</sup>

<sup>1</sup> Suitable for half round and angled windows as well as EH and Comfort-/E-fitting.



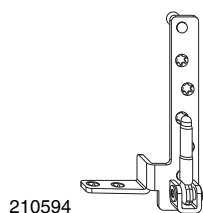
206284

<b>T</b> 9.4.3.8 Rebated corner supports DTuni without rebate-leg screw fixing EH with corner element		 		<b>No</b>	<b>No</b> Tricoat	
silver	with 1 i.S.	right	4/18-9	100 20	<b>206284</b> <sup>1</sup>	
		left	4/18-9	100 20	<b>206285</b> <sup>1</sup>	
		right	12/18-9	100 20	<b>208773</b> <sup>1</sup>	
		left	12/18-9	100 20	<b>208774</b> <sup>1</sup>	
		right	12/18-13	100 20	<b>208793</b> <sup>1</sup>	<b>233016</b> <sup>1</sup>
		left	12/18-13	100 20	<b>208794</b> <sup>1</sup>	<b>233017</b> <sup>1</sup>
		right	12/20-9	100 20	<b>208775</b> <sup>1</sup>	
			12/20-13	100 20	<b>208795</b> <sup>1</sup>	
		left	12/20-13	100 20	<b>208796</b> <sup>1</sup>	

<sup>1</sup> Suitable for half round and angled windows as well as EH and Comfort-/E-fitting.

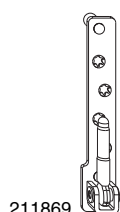


## 9.5 Pivot posts MULTI MAMMUT



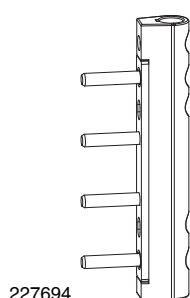
210594

				kg	kg	No	No Tricoat
silver	with 9 mm supporting pins	right	12/18	220	20	<b>210594</b>	<b>233128</b>
		left	12/18	220	20	<b>210595</b>	<b>233129</b>
		right	12/20	220	20	<b>210605</b>	<b>233130</b>
		left	12/20	220	20	<b>210606</b>	<b>233131</b>
traffic white RAL 9016	with 9 mm supporting pins	right	12/18	220	20	<b>222500</b>	
		left	12/18	220	20	<b>222501</b>	
		right	12/20	220	20	<b>222502</b>	
		left	12/20	220	20	<b>222503</b>	



211869

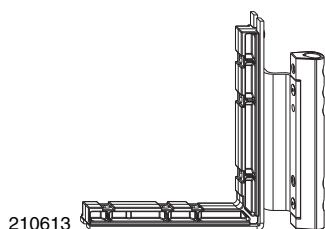
				kg	kg	No	No Tricoat
silver	with 9 mm supporting pins	right	12/18 12/20	180	20	<b>211869</b>	<b>233038</b>
		left	12/18 12/20	180	20	<b>211870</b>	<b>233039</b>
traffic white RAL 9016	with 9 mm supporting pins	right	12/18 12/20	180	20	<b>212540</b>	
		left	12/18 12/20	180	20	<b>212541</b>	





227694

				kg	kg	No	No Tricoat
silver	with 5 mm supporting pins 23 mm long			180	20	<b>227694</b>	<b>232997</b>
traffic white RAL 9016	with 5 mm supporting pins 23 mm long			180	20	<b>227695</b>	





210613



<b>9.5.4 Rebated corner supports MULTI MAMMUT</b>						<b>No</b>	<b>No</b> Tricoat
silver	pre-assembled spacer bar for corner hinge	right	12/18-9	220	20	<b>210613</b>	<b>232987</b>
		left	12/18-9	220	20	<b>210614</b>	<b>232988</b>
		right	12/18-13	220	20	<b>210611</b>	<b>232985</b>
		left	12/18-13	220	20	<b>210612</b>	<b>232986</b>
		right	12/20-9	220	20	<b>210617</b>	<b>232989</b>
		left	12/20-9	220	20	<b>210618</b>	<b>232990</b>
		right	12/20-13	220	20	<b>210615</b>	<b>236922</b>
		left	12/20-13	220	20	<b>210616</b>	<b>236923</b>
traffic white RAL 9016	pre-assembled spacer bar for corner hinge	right	12/18-9	220	20	<b>222506</b>	
		left	12/18-9	220	20	<b>222507</b>	
		right	12/18-13	220	20	<b>222504</b>	
		left	12/18-13	220	20	<b>222505</b>	
		right	12/20-9	220	20	<b>222510</b>	
		left	12/20-9	220	20	<b>222511</b>	
		right	12/20-13	220	20	<b>222508</b>	
		left	12/20-13	220	20	<b>222509</b>	

363306



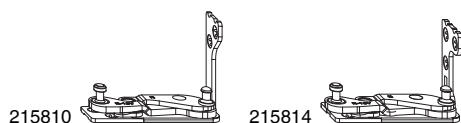
362336



<b>9.5.5 Accessories for pivot posts MULTI MAMMUT</b>						<b>No</b>	<b>No</b> Tricoat
silver	packer for rebated corner support Multi Mammut	2 mm		50		<b>363306</b>	
		3 mm		50		<b>363307</b>	
white	clip-on bush 10 mm, Multi Mammut fittings			50		<b>362336</b>	



## 9.6 Pivot posts MULTI POWER



9.6.1 Pivot posts MULTI POWER					kg		No	No Tricoat
silver	right	9 mm offset	aluminium 14/18	150	15	250400		
	left	9 mm offset	aluminium 14/18	150	15	250401		
	right	9 mm offset	timber 24 mm rebate depth	150	20	215812 <sup>1,2</sup>	233040 <sup>1,2</sup>	
			PVC 30 mm rebate depth	150	20	215816		
	left	9 mm offset	timber 24 mm rebate depth	150	20	215813 <sup>1,2</sup>	233041 <sup>1,2</sup>	
			PVC 30 mm rebate depth	150	20	215817		
	right	13 mm offset	timber 24 mm rebate depth	150	20	215810 <sup>1,2</sup>	233042 <sup>1,2</sup>	
			PVC 30 mm rebate depth	150	20	215814	233046	
	left	13 mm offset	timber 24 mm rebate depth	150	20	215811 <sup>1,2</sup>	233043 <sup>1,2</sup>	
			PVC 30 mm rebate depth	150	20	215815	233047	
	right	13 mm offset	timber 30 mm rebate depth	150	20	214252 <sup>2</sup>	233044 <sup>2</sup>	
	left	13 mm offset	timber 30 mm rebate depth	150	20	214253 <sup>2</sup>	233045 <sup>2</sup>	

<sup>1</sup> For use in threshold Transit Personal from 80 kg sash weight use packer item no. 473860!

<sup>2</sup> Use support rawlplug item no. 36668 for sash weights over 100 kg.

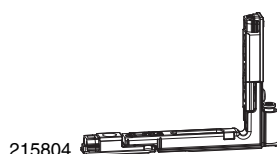


P 9.6.2 Pivot posts MULTI POWER for thresholds					kg		No	No Tricoat
silver	for threshold	right	13 mm offset	PVC	150	20	227286 <sup>1</sup>	
		left	13 mm offset	PVC	150	20	227287 <sup>1</sup>	

<sup>1</sup> Observe assembly instructions and restrictions for thresholds of type Grundmeier KG Combi, Eifel TB and Profine A075 or A076!

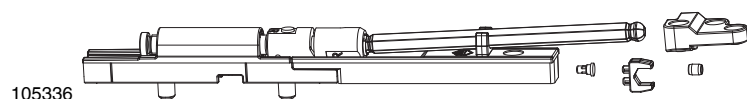


9.6.3 Pivot posts for 3-sashed windows MULTI POWER					kg		No	No Tricoat
silver	right	9 mm offset	timber 24 mm rebate depth	80	20	215830	233048	
			PVC 30 mm rebate depth	80	20	215834		
	left	9 mm offset	timber 24 mm rebate depth	80	20	215831	233049	
			PVC 30 mm rebate depth	80	20	215835		
	right	13 mm offset	timber 24 mm rebate depth	80	20	215828	233120	
			PVC 30 mm rebate depth	80	20	215832	233122	
	left	13 mm offset	timber 24 mm rebate depth	80	20	215829	233121	
			PVC 30 mm rebate depth	80	20	215833	233123	

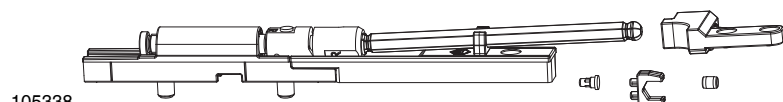


9.6.4 Rebated corner supports MULTI POWER					kg		No	No Tricoat
silver	right	9 mm offset		150	20	215806	232979	
	left	9 mm offset		150	20	215807	232980	
	right	13 mm offset		150	20	215804	232981	
	left	13 mm offset		150	20	215805	232982	

## 9.6.5 Load transfer MULTI POWER



105336

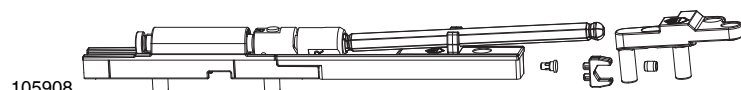


105338

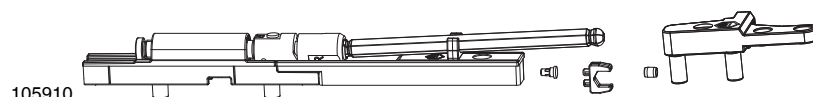
### 9.6.5.1 Load transfer MULTI POWER

			kg		No	No Tricoat
silver	right	FT24	180	10	<b>105336<sup>1</sup></b>	<b>105984<sup>1</sup></b>
	left	FT24	180	10	<b>105339<sup>1</sup></b>	<b>105986<sup>1</sup></b>
	right	FT30	180	10	<b>105338<sup>1</sup></b>	<b>105985<sup>1</sup></b>
	left	FT30	180	10	<b>105337<sup>1</sup></b>	<b>105987<sup>1</sup></b>

<sup>1</sup> In timber, the use of a turn restrictor for MULTI POWER (item no. 103623 or item no. 103624) is required! Installation of the turn restrictor in accordance with package leaflet turn restrictor (order no. 750304).



105908



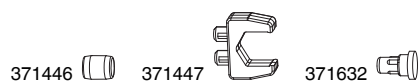
105910

### 9.6.5.2 Load transfer MULTI POWER for thresholds

			kg		No	No Tricoat
silver	right	FT24	150	10	<b>105908<sup>1</sup></b>	
	left	FT24	150	10	<b>105909<sup>1</sup></b>	
	right	FT24/30	150	10	<b>105910<sup>1,2</sup></b>	<b>106192<sup>1,2</sup></b>
	left	FT24/30	150	10	<b>105911<sup>1,2</sup></b>	<b>106193<sup>1,2</sup></b>
	right	FT30	150	10	<b>105912<sup>1,2</sup></b>	
	left	FT30	150	10	<b>105913<sup>1,2</sup></b>	

<sup>1</sup> In timber, the use of a turn restrictor for MULTI POWER (item no. 103623 or item no. 103624) is required! Installation of the turn restrictor in accordance with package leaflet turn restrictor (order no. 750304).

<sup>2</sup> For wooden profiles, rebate depth  $\geq 33$  mm (because of the drilling jig).



371446

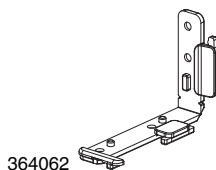
371447

371632




### 9.6.5.3 Accessories for load transfer MULTI POWER

		No	No Tricoat
seal for load transfer Multi Power	500	<b>371446</b>	
installation aid for load transfer Multi Power	50	<b>371447</b>	
centre-fixing for load transfer Multi Power	50	<b>371632</b>	

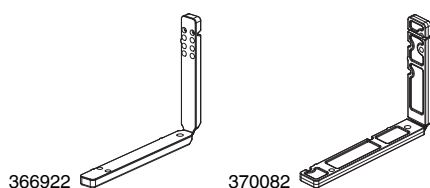
## 9.6.6 Packers MULTI POWER



364062

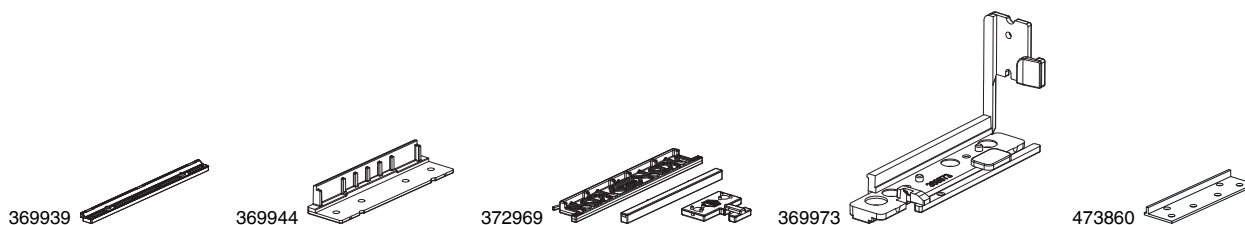
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">P</span> <b>9.6.6.1 Packers MULTI POWER for PVC profiles</b>						 Tricoat
grey F1	type01 for Multi Power	Aluplast AD 2000, Veka Softline 70 AD + MD + Topline + Swingline, Brüggmann AD + MD, Alphacan System Alpha 70 + 80, Schüco Corona CT70 / SI 82, Salamander bluEvolution 82 AD + MD	pivot post left/scissor stay hinge right	100	<b>364063</b>	
			pivot post right/scissor stay hinge left	100	<b>364062</b>	
	type02 for Multi Power	Aluplast AD 4000, Aluplast MD 5000 + 6000 + 8000, Schüco Corona AS	pivot post left/scissor stay hinge right	100	<b>364065</b>	
			pivot post right/scissor stay hinge left	100	<b>364064</b>	
	type03 for Multi Power	Salamander bluEvolutin 92 + System 76 MD, Gromathic AD 3100	pivot post left/scissor stay hinge right	100	<b>364067</b>	
			pivot post right/scissor stay hinge left	100	<b>364066</b>	
	type04 for Multi Power	Rehau S730 + Brilliant Design AD + Clima Design, Kompen Termoline	pivot post left/scissor stay hinge right	100	<b>364069</b>	
			pivot post right/scissor stay hinge left	100	<b>364068</b>	
	type05 for Multi Power	Profine Trocal Innonova 70 A3/A5/M5	pivot post left/scissor stay hinge right	100	<b>364071</b>	
			pivot post right/scissor stay hinge left	100	<b>364070</b>	
	type06 for Multi Power	Gealan S7000 + S8000 + S9000	pivot post left/scissor stay hinge right	100	<b>364073</b>	
			pivot post right/scissor stay hinge left	100	<b>364072</b>	
	type07 for Multi Power	Salamander 2D + 3D + MD + Streamline 76	pivot post left/scissor stay hinge right	100	<b>364075</b>	
			pivot post right/scissor stay hinge left	100	<b>364074</b>	
	type08 for Multi Power	Rehau Synego AD + Geneo MD + Brilliant Design MD + Thermo Design	pivot post left/scissor stay hinge right	100	<b>364077</b>	
			pivot post right/scissor stay hinge left	100	<b>364076</b>	
	type09 for Multi Power	Profine Trocal System 88 + Innonova 2000	pivot post left/scissor stay hinge right	100	<b>364175<sup>1</sup></b>	
			pivot post right/scissor stay hinge left	100	<b>364174<sup>1</sup></b>	
	type10 for Multi Power	Aluplast Energeto 5000 + 8000	pivot post left/scissor stay hinge right	100	<b>364177</b>	
			pivot post right/scissor stay hinge left	100	<b>364176</b>	
	type11 for Multi Power	Inoutic AD	pivot post left/scissor stay hinge right	100	<b>364179</b>	
			pivot post right/scissor stay hinge left	100	<b>364178</b>	
	type12 for Multi Power	Inoutic Prestige MD	pivot post left/scissor stay hinge right	100	<b>364181<sup>1</sup></b>	
			pivot post right/scissor stay hinge left	100	<b>364180<sup>1</sup></b>	
	type13 for Multi Power	Kömmerling Eurofutur AD + MD + 3S + MPF, KBE 70 AD + MD	pivot post left/scissor stay hinge right	100	<b>366340</b>	
			pivot post right/scissor stay hinge left	100	<b>366339</b>	
	type14 for Multi Power	KB07 KBE 70 AD, KB08 KBE 70 MD, KB13 KBE System 88, Trocal 76 AD; Deceuninck Zendow	pivot post left/scissor stay hinge right	100	<b>367263</b>	
			pivot post right/scissor stay hinge left	100	<b>367262</b>	
	type15 for Multi Power	Wymar 3000 AD + MD	pivot post left/scissor stay hinge right	100	<b>367848</b>	
			pivot post right/scissor stay hinge left	100	<b>367847</b>	
	type16 for Multi Power	Swish 24-7 / Profile 22	pivot post left/scissor stay hinge right	100	<b>368311</b>	
			pivot post right/scissor stay hinge left	100	<b>368310</b>	
	type17 for Multi Power	Deceuninck Zendow Kämpfer; Roplasto	pivot post left/scissor stay hinge right	100	<b>369288</b>	
			pivot post right/scissor stay hinge left	100	<b>369287</b>	
	type18 for Multi Power	Eurocell TBT	pivot post left/scissor stay hinge right	100	<b>370031</b>	
			pivot post right/scissor stay hinge left	100	<b>370030</b>	
	type19 for Multi Power	Profile 22 Optima	pivot post left/scissor stay hinge right	100	<b>370466</b>	
			pivot post right/scissor stay hinge left	100	<b>370465</b>	
	type20 for Multi Power	Eurocell und Eurologic 70	pivot post left/scissor stay hinge right	100	<b>370600</b>	
			pivot post right/scissor stay hinge left	100	<b>370599</b>	
	type21 for Multi Power	HL Plastics Liniar	pivot post left/scissor stay hinge right	100	<b>370602</b>	
			pivot post right/scissor stay hinge left	100	<b>370601</b>	
	type22 for Multi Power	Synseal Synerjy	pivot post left/scissor stay hinge right	100	<b>370506</b>	
			pivot post right/scissor stay hinge left	100	<b>370505</b>	

<sup>1</sup> Use pivot post MULTI POWER timber 24 mm rebate depth.



9.6.6.2 Packers MULTI POWER for Alu profiles					No	No Tricoat
grey F1	groove 10/14	Heralo	pivot post and scissor stay hinge MULTI POWER	100	366922 <sup>1</sup>	
	groove 14/18	Aluprof, Alumil, Aliplast, Blyweert, Ponzio, Yawal, Feal T85, Cortizio 3500, Bauxal	pivot post and scissor stay hinge MULTI POWER	100	370082 <sup>1</sup>	

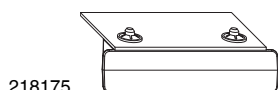
<sup>1</sup> Use pivot post MULTI POWER timber 24 mm rebate depth.



9.6.6.3 Packers MULTI POWER for thresholds					No	No Tricoat
pearl light grey RAL 9022		GKG Grundmeier	for threshold	20	369939	
		Roto Gluske BKV Eifel TB	for threshold	20	369944	
		Schüco 20 mm	for threshold	20	372969	
		Trocal Alu und GFK	for threshold	20	369945	
	right	VEKA	for threshold	20	369973	
	left	VEKA	for threshold	20	369974	
agate grey RAL 7038		Transit Personal	for threshold	100	473860	



P 9.6.6.4 Packers for load transfer MULTI POWER for thresholds					No	No Tricoat
pearl light grey RAL 9022	2 mm for Multi Power	for load transfer	20	372008		
	3 mm for Multi Power	for load transfer	20	372009		



9.6.7 Accessories MULTI POWER			Ø	L		No	No Tricoat
silver	special drill screw Multi Power Phillips		4,5	32	1.000	364563 <sup>1</sup>	106026 <sup>1</sup>
				38	100	362918	106029
	special drill screw Multi Power TX20		4,5	38	500	367828	106027
	support rawlplug Multi Power timber			19	50	36668	385088
graphite black RAL 9011	clip-on part corner support MULTI POWER for 18 mm air gap			117	20	368390	
	back pull plate for narrow profiles MULTI POWER timber				100	370425	
grey F1	mounting cover for pivot post MULTI POWER right/left				5	218175	

<sup>1</sup> Maximum sash weight 100 kg!

## 9.7 Cover caps for pivot posts and corner supports

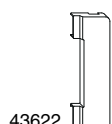
### 9.7.1 Cover caps for pivot posts



41742

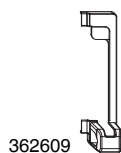
9.7.1.1 Short cover caps for pivot posts AS/DTuni/PVC				No	No Tricoat
traffic white RAL 9016		dyed	100	41742 <sup>1</sup>	
pearl light grey RAL 9022		dyed	100	43566	
silver		painted	100	360232	
champagne		painted	100	42049	
titanium		painted	100	42048	
light bronze		dyed	100	41762	
cream white RAL 9001		dyed	100	42207	
brown F5		dyed	100	42195	
chrome-look		metallised	100	44241	
gold look		metallised	100	41763	
graphite black RAL 9011		dyed	100	42196	

<sup>1</sup> Also available as bulk pack of 500 pieces as item no. 42286.




43622

9.7.1.2 Long cover caps for surface-mounted pivot posts				No	No Tricoat
traffic white RAL 9016	right	dyed	100	43622	
	left	dyed	100	43623	
pearl light grey RAL 9022	right	dyed	100	43743	
	left	dyed	100	43744	
silver	right	painted	100	363353	
	left	painted	100	363354	
champagne	right	painted	100	43733	
	left	painted	100	43734	
titanium	right	painted	100	43731	
	left	painted	100	43732	
light bronze	right	dyed	100	43727	
	left	dyed	100	43728	
cream white RAL 9001	right	dyed	100	43739	
	left	dyed	100	43740	
brown F5	right	dyed	100	43735	
	left	dyed	100	43736	
chrome-look	right	metallised	100	364087	
	left	metallised	100	364088	
gold look	right	metallised	100	43729	
	left	metallised	100	43730	




362609

<b>9.7.1.3 Long cover caps for surface-mounted pivot posts for rebated corner supports AS/PVC</b>				<b>No</b>	<b>No</b> Tricoat
traffic white RAL 9016	right	dyed	100	<b>362609</b>	
	left	dyed	100	<b>362610</b>	
pearl light grey RAL 9022	right	dyed	100	<b>363998</b>	
	left	dyed	100	<b>363999</b>	
silver	right	painted	100	<b>364004</b>	
	left	painted	100	<b>364005</b>	
champagne	right	painted	100	<b>364096</b>	
	left	painted	100	<b>364097</b>	
titanium	right	painted	100	<b>363996</b>	
	left	painted	100	<b>363997</b>	
light bronze	right	dyed	100	<b>364094</b>	
	left	dyed	100	<b>364095</b>	
cream white RAL 9001	right	dyed	100	<b>364000</b>	
	left	dyed	100	<b>364001</b>	
brown F5	right	dyed	100	<b>364018</b>	
	left	dyed	100	<b>364019</b>	
chrome-look	right	metallised	100	<b>364098</b>	
	left	metallised	100	<b>364099</b>	
gold look	right	metallised	100	<b>364016</b>	
	left	metallised	100	<b>364017</b>	



41743

<b>9.7.1.4 Long cover caps for pivot posts DT130/PVC</b>				<b>No</b>	<b>No</b> Tricoat
traffic white RAL 9016	dyed		100	<b>41743<sup>1</sup></b>	
pearl light grey RAL 9022	dyed		100	<b>43567</b>	
silver	painted		100	<b>360231</b>	
champagne	painted		100	<b>42058</b>	
titanium	painted		100	<b>42057</b>	
light bronze	dyed		100	<b>41752</b>	
cream white RAL 9001	dyed		100	<b>42215</b>	
brown F5	dyed		100	<b>42208</b>	
chrome-look	metallised		100	<b>44242</b>	
gold look	metallised		100	<b>41760</b>	
graphite black RAL 9011	dyed		100	<b>42209</b>	

<sup>1</sup> Also available as bulk pack of 500 pieces as item no. 42287.





369611

<b>9.7.1.5 Long cover caps for pivot posts DT160</b>					<b>No</b>	<b>No</b> Tricoat
traffic white RAL 9016	painting			50	<b>369611</b>	
pearl light grey RAL 9022	painting			50	<b>369612</b>	
titanium	painting			50	<b>369613</b>	
gold look	painting			100	<b>369614</b>	

360464



<b>T</b>	<b>9.7.1.6 Recess cover caps for pivot posts DT130</b>					<b>No</b>	<b>No</b> Tricoat
	traffic white RAL 9016	for 4 mm air gap, 13 mm offset		4,5	50	<b>360465</b>	
	grey F1	for 4 mm air gap, 13 mm offset		2	50	<b>366541</b>	
				4,5	50	<b>360464</b>	



369529

<b>T</b>	<b>9.7.1.7 Recess cover caps for pivot posts DT160</b>				<b>No</b>	<b>No</b> Tricoat
	grey F1	right	4/15-9 and 4/18-9		50	<b>369529</b>
		left	4/15-9 and 4/18-9		50	<b>369530</b>
		right	4/18-13		50	<b>369531</b>
		left	4/18-13		50	<b>369532</b>

364498



365224



<b>T</b>	<b>9.7.1.8 Cover caps MULTI POWER for timber</b>					<b>No</b>	<b>No</b> Tricoat
	pearl light grey RAL 9022	right	timber 24 mm rebate depth	dyed	20	<b>364498<sup>1</sup></b>	
		left	timber 24 mm rebate depth	dyed	20	<b>364499<sup>1</sup></b>	
		right	timber 30 mm rebate depth	dyed	20	<b>365224<sup>1</sup></b>	
		left	timber 30 mm rebate depth	dyed	20	<b>365225<sup>1</sup></b>	

<sup>1</sup> Cover caps Multi Power are also available with logo.

364500



<b>P</b>	<b>9.7.1.9 Cover caps MULTI POWER for PVC</b>					<b>No</b>	<b>No</b> Tricoat
	pearl light grey RAL 9022	right	PVC 30 mm rebate depth	dyed	20	<b>364500<sup>1</sup></b>	
		left	PVC 30 mm rebate depth	dyed	20	<b>364501<sup>1</sup></b>	

<sup>1</sup> Cover caps Multi Power are also available with logo.



364498



<span style="background-color: black; color: white; border-radius: 50%; padding: 2px 6px; font-weight: bold;">T</span> <b>9.7.1.10 Cover caps MULTI POWER for thresholds</b>						<b>N<sup>o</sup></b>	<b>N<sup>o</sup></b> Tricoat
pearl light grey RAL 9022	right	timber 24 mm rebate depth	dyed	20	<b>364498<sup>1</sup></b>		
	left	timber 24 mm rebate depth	dyed	20	<b>364499<sup>1</sup></b>		


<sup>1</sup> Cover caps Multi Power are also available with logo.



## 9.7.2 Cover caps for corner supports and rebated corner supports




42087

P 9.7.2.1 Cover caps for corner supports PVC				No	No Tricoat
traffic white RAL 9016	dyed		100	42087 <sup>1</sup>	
pearl light grey RAL 9022	dyed		100	43940	
silver	dyed		100	360233	
champagne	dyed		100	42096	
titanium	dyed		100	42095	
light bronze	dyed		100	42093	
cream white RAL 9001	dyed		100	42188	
brown F5	dyed		100	42186	
chrome-look	metallised		100	44245	
gold look	metallised		100	42094	
graphite black RAL 9011	dyed		100	42187	

<sup>1</sup> Also available as bulk pack of 500 pieces as item no. 42288.



41740

9.7.2.2 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	
pearl light grey RAL 9022	right	dyed	100	43564	
	left	dyed	100	43565	
silver	right	dyed	100	363116	
	left	dyed	100	363117	
champagne	right	dyed	100	42064	
	left	dyed	100	42061	
titanium	right	dyed	100	42063	
	left	dyed	100	42060	
light bronze	right	dyed	100	41764	
	left	dyed	100	41770	
cream white RAL 9001	right	dyed	100	43553	
	left	dyed	100	43554	
brown F5	right	dyed	100	42599	
	left	dyed	100	42598	
chrome-look	right	metallised	100	44239	
	left	metallised	100	44240	
gold look	right	metallised	100	41769	
	left	metallised	100	41771	
graphite black RAL 9011	right	dyed	100	43518	
	left	dyed	100	43519	

363403



**P 9.7.2.3 Cover caps with tab for rebated corner supports without rebate-leg screw fixing**

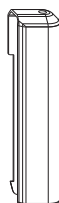


**No**

**No**  
Tricoat

traffic white RAL 9016	right	dyed	100	<b>362333</b>	
	left	dyed	100	<b>362334</b>	
pearl light grey RAL 9022	right	dyed	100	<b>363508</b>	
	left	dyed	100	<b>363509</b>	
silver	right	painted	100	<b>363403</b>	
	left	painted	100	<b>363404</b>	
titanium	right	painted	100	<b>363137</b>	
	left	painted	100	<b>363138</b>	
light bronze	right	dyed	100	<b>364100</b>	
	left	dyed	100	<b>364101</b>	
cream white RAL 9001	right	dyed	100	<b>363510</b>	
	left	dyed	100	<b>363511</b>	
brown F5	right	dyed	100	<b>364029</b>	
	left	dyed	100	<b>364030</b>	
chrome-look	right	metallised	100	<b>364104</b>	
	left	metallised	100	<b>364105</b>	
gold look	right	metallised	100	<b>364027</b>	
	left	metallised	100	<b>364028</b>	

43587



**9.7.2.4 Cover caps for rebated corner supports with rebate-leg screw fixing**

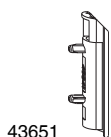


**No**


**No**  
Tricoat

traffic white RAL 9016	right	dyed	100	<b>43587</b>	
	left	dyed	100	<b>43588</b>	
pearl light grey RAL 9022	right	dyed	100	<b>43597</b>	
	left	dyed	100	<b>43608</b>	
silver	right	painted	100	<b>360953</b>	
	left	painted	100	<b>360954</b>	
champagne	right	painted	100	<b>43593</b>	
	left	painted	100	<b>43604</b>	
titanium	right	painted	100	<b>43592</b>	
	left	painted	100	<b>43603</b>	
light bronze	right	dyed	100	<b>43590</b>	
	left	dyed	100	<b>43601</b>	
cream white RAL 9001	right	dyed	100	<b>43598</b>	
	left	dyed	100	<b>43609</b>	
brown F5	right	dyed	100	<b>43595</b>	
	left	dyed	100	<b>43606</b>	
chrome-look	right	metallised	100	<b>44246</b>	
	left	metallised	100	<b>44247</b>	
gold look	right	metallised	100	<b>43591</b>	
	left	metallised	100	<b>43602</b>	
graphite black RAL 9011	right	dyed	100	<b>43596</b>	
	left	dyed	100	<b>43607</b>	






43651

<b>9.7.2.5 Dust cover caps for corner supports PVC</b>			<b>No</b>	<b>No</b> Tricoat
traffic white RAL 9016	dyed	100	<b>40341</b>	
pearl light grey RAL 9022	dyed	100	<b>43651</b>	
titanium	dyed	100	<b>209669</b>	
grey aluminium RAL 9007	dyed	100	<b>224132</b>	
grey brown RAL 8019	dyed	100	<b>203287</b>	




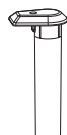
43626

<b>9.7.2.6 Dust cover caps for rebated corner supports AS/DTuni with rebate-leg screw fixing</b>			<b>No</b>	<b>No</b> Tricoat
traffic white RAL 9016	dyed	100	<b>42166</b>	
pearl light grey RAL 9022	dyed	100	<b>43626</b>	
titanium	dyed	100	<b>358989</b>	
grey brown RAL 8019	dyed	100	<b>360230</b>	
pearl gold RAL 1036	dyed	100	<b>40342</b>	




42185

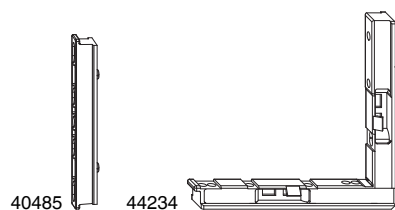
<b>9.7.2.7 Dust cover caps for rebated corner supports AS/PVC and rebated corner supports DTuni without rebate-leg screw fixing</b>			<b>No</b>	<b>No</b> Tricoat
traffic white RAL 9016	dyed	100	<b>42185</b>	
pearl light grey RAL 9022	dyed	100	<b>43701</b>	
black brown RAL 8022	dyed	100	<b>368556</b>	



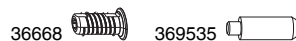
364726

<b>9.7.2.8 Dust cover caps for rebated corner supports MULTI MAMMUT</b>			<b>No</b>	<b>No</b> Tricoat
traffic white RAL 9016	dyed	100	<b>364726</b>	
pearl light grey RAL 9022	dyed	100	<b>363148</b>	
titanium	dyed	100	<b>367573</b>	

## 9.8 Accessories for pivot posts



9.8.1 Spacer bars for corner support					No	No Tricoat
graphite black RAL 9011	packer	for rebated corner support AS/DTuni	100		<b>40485</b>	
	packer with faceplate for 1 mm offset	for rebated corner support AS/DTuni	100		<b>40486</b>	
	spacer bar for corner support	for rebated corner support AS/DTuni	100		<b>44234</b>	



T	9.8.2 Support rawplug and support dowel			L		No	No Tricoat
silver	support rawplug Multi Power timber			19	50	<b>36668</b>	<b>385088</b>
	support rawplug pivot post DT160 4 mm air gap / 12 mm air gap	8		20	50	<b>369535</b>	





## 10 French casement locks

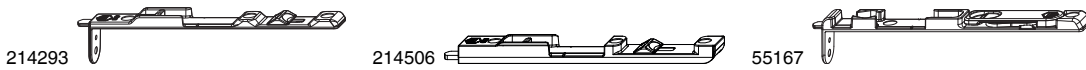
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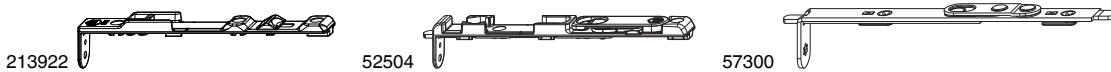



## 10 French casement locks

### 10.1 Shootbolts



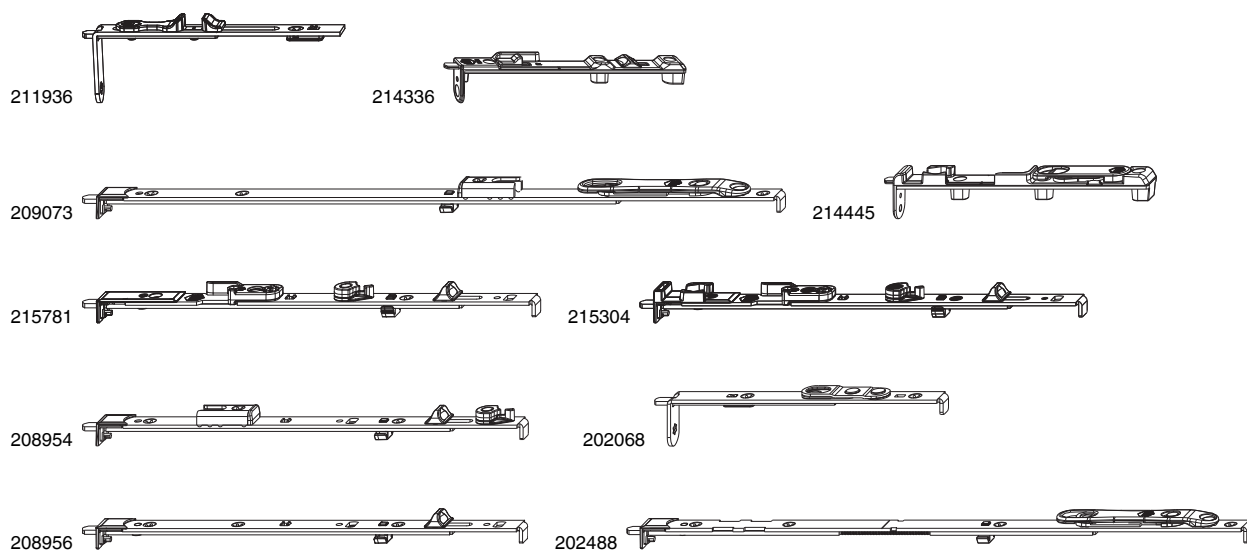
<b>T 10.1.1 Shootbolts for Euro-rebate</b>		<b>L</b>		<b>N<sup>o</sup></b>	<b>N<sup>o</sup></b> Tricoat
silver	top MM/MMKS Euro-rebate 18 mm rebate depth 9 mm offset	162	20	<b>214293</b>	<b>233388</b>
	top MM/MMKS Euro-rebate 24 mm rebate depth 13 mm offset	162	20	<b>218176</b>	<b>233412</b>
	top MM/MMKS 4 mm air gap R8	170	20	<b>214506</b>	
	bottom MT/MM 4 mm air gap R8	170	20	<b>55409</b>	<b>233386</b>
	bottom MT/MM Euro-rebate 18 mm rebate depth 9 mm offset	170	20	<b>55167</b>	<b>233385</b>
	bottom MMKS Euro-rebate 24 mm rebate depth 13 mm offset	170	20	<b>218177</b>	<b>233413</b>



<b>T 10.1.2 Shootbolts for hardware groove</b>		<b>L</b>		<b>N<sup>o</sup></b>	<b>N<sup>o</sup></b> Tricoat
silver	top MM/MMKS hardware groove	162	20	<b>213922</b>	<b>233411</b>
	bottom MT/MM hardware groove	170	20	<b>52504</b>	<b>233384</b>
	bottom and top flat hardware groove	187	20	<b>57300</b>	

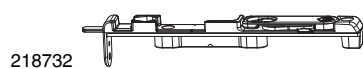


# French casement locks

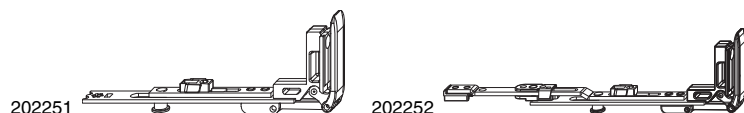


10.1.3 Shootbolts for Eurogroove		L		No	No Tricoat
silver	top controlled MM	138	20	<b>211936</b>	
	top right MM/MMKS for Eurogroove	162	20	<b>214336</b>	<b>233410</b>
	top left MM/MMKS for Eurogroove	162	20	<b>214337</b>	<b>233389</b>
	top with i.S. striker plate and operating lever MM	450	20	<b>209073</b>	
	bottom right MMKS for Eurogroove	170	20	<b>214445</b>	<b>233415</b>
	bottom left MMKS for Eurogroove	170	20	<b>214446</b>	<b>233414</b>
	bottom flat console with reversible striker plate and swivel plate HH 300 MM	288	20	<b>215781</b>	
	bottom flat console with reversible striker plate and swivel plate HH 400 MM	288	20	<b>215780</b>	
	bottom with reversible striker plate and sash lifter run-up HH 300 MMKS	288	20	<b>215304</b>	
	bottom with reversible striker plate and sash lifter run-up HH 400 MMKS	288	20	<b>215303</b>	
	bottom with i.S. striker plate and sash lifter run-up HH 300 MM	288	20	<b>208955</b>	
	bottom with i.S. striker plate and sash lifter run-up HH 400 MM	288	20	<b>208954</b>	
	bottom and top flat MT/MM for Eurogroove	180	20	<b>202068</b>	<b>233387</b>
	bottom and top MT/MM for Eurogroove	286	20	<b>208956</b>	
	bottom and top for Eurogroove	425	20	<b>202488</b>	
	bottom and top for striker plate and reverse-action lever MM for Eurogroove	450	20	<b>215240<sup>1</sup></b>	

<sup>1</sup> Compatible striker plate item no. 94221.

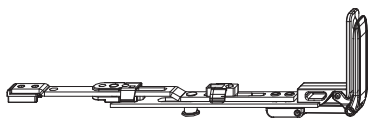


10.1.4 Shootbolts for thresholds for 18 mm air gap		L		No	No Tricoat
silver	bottom right MM/MMKS for Eurogroove and 18 mm deadbolt protrusion	170	20	<b>218732</b>	
	bottom left MM/MMKS for Eurogroove and 18 mm deadbolt protrusion	170	20	<b>218733</b>	



10.1.5 Horizontal French casement locks		L			No	No Tricoat
silver	French casement lock MM	153	230 - 800	20	<b>202251</b>	<b>233621</b>
	extendable French casement lock MM	153	240 - 1.800	20	<b>202252</b>	<b>233622</b>

215336



**10.1.6 Horizontal French casement lock for flat rebate on second sash**

**L**



**No**

**No**  
Tricoat

silver

French casement lock MM extendable with flat fixing tab

153

240 - 1.650

20

**215336**

## 10.2 French casement drive gears

### 10.2.1 French casement drive gears for Eurogroove



10.2.1.1 French casement drive gears for Eurogroove FHH					No	No Tricoat	
silver	for 1 i.S.	660	190	431 - 660	10	202873 <sup>1</sup>	233461 <sup>1</sup>
		840	300	661 - 840	10	221901	233462
		1090	400	841 - 1.090	10	221902	233463
		1340	500	1.091 - 1.340	10	221903	233464
	for 2 i.S.	1590	600	1.341 - 1.590	10	221906	233465
		1700	700	1.591 - 1.700	10	207242	233466
	for 3 i.S.	1950	1.050	1.701 - 1.950	10	221907	233467
		2200	1.050	1.951 - 2.200	10	221908	233468
	for 4 i.S.	2450	1.050	2.201 - 2.450	10	221909	233469

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



10.2.1.2 French casement drive gears for Eurogroove FHH with offset HH					No	No Tricoat	
silver	for 1 i.S.	1090	300	841 - 1.090	10	217875	
			500	841 - 1.090	10	209776	
		1340	400	1.091 - 1.340	10	217878	
	for 2 i.S.	1590	500	1.341 - 1.590	10	221911 <sup>1</sup>	233475 <sup>1</sup>
		1700	500	1.591 - 1.700	10	209263	233476

<sup>1</sup> Use only in combination with T&T drive gear 1590 (item no. 201745).



10.2.1.3 French casement drive gears for tilt lock bolt for Eurogroove FHH					No	No Tricoat	
silver	for 1 VZ	840	300	661 - 840	10	209507 <sup>1</sup>	233477 <sup>1</sup>
		1090	400	841 - 1.090	10	209508	233478
		1340	500	1.091 - 1.340	10	209510	233520
	for 2 VZ	1590	600	1.341 - 1.590	10	209512	233522
		1700	700	1.591 - 1.700	10	209514	233524
	for 3 VZ	1950	1.050	1.701 - 1.950	10	209517	233527
		2200	1.050	1.951 - 2.200	10	209518	233528
	for 4 VZ	2450	1.050	2.201 - 2.450	10	209519	233529

<sup>1</sup> Only in combination with turn-only drive gear 840 with tilt lock bolt (item no. 209590).



10.2.1.4 French casement drive gears for tilt lock bolt for Eurogroove FHH with offset HH					No	No Tricoat	
silver	for 1 VZ	1090	300	841 - 1.090	10	209509 <sup>1</sup>	233479 <sup>1</sup>
			500	841 - 1.090	10	216143	
		1340	400	1.091 - 1.340	10	209511	233521
		1590	500	1.341 - 1.590	10	209513	233523
	for 2 VZ	1700	500	1.591 - 1.700	10	209516	233526
		1700	600	1.591 - 1.700	10	209515	233525

<sup>1</sup> Can be used only in combination with turn-only drive gear 1090 with tilt lock bolt (item no. 209591).

# French casement locks



<b>10.2.1.5 French casement drive gears for Eurogroove FHH for thresholds</b>					<b>No</b>	<b>No</b> Tricoat
silver	for 3 VZ	1950	1.050	1.701 - 1.950	10	<b>218715</b>
		2200	1.050	1.951 - 2.200	10	<b>218716</b>
	for 4 VZ	2450	1.050	2.201 - 2.450	10	<b>218717</b>



<b>10.2.1.6 French casement drive gears EH for Eurogroove FHH</b>					<b>No</b>	<b>No</b> Tricoat	
silver	for 2 i.S.	840	300	661 - 840	10	<b>206582</b> <sup>1,2</sup>	<b>233470</b> <sup>1,2</sup>
		1090	400	841 - 1.090	10	<b>221904</b> <sup>2</sup>	<b>233471</b> <sup>2</sup>
		1340	500	1.091 - 1.340	10	<b>221905</b> <sup>2</sup>	<b>233472</b> <sup>2</sup>
	for 3 i.S.	1590	600	1.341 - 1.590	10	<b>205643</b> <sup>2</sup>	<b>233473</b> <sup>2</sup>
		1700	700	1.591 - 1.700	10	<b>207308</b> <sup>2,3</sup>	<b>233474</b> <sup>2,3</sup>

<sup>1</sup> Use only in combination with turn-only drive gear 840 EH (item no. 206614).

<sup>2</sup> For burglar-resistant windows according to standard EN 1627.

<sup>3</sup> Above SRH 1700 mm use French casement drive gear FHH for Eurogroove and crop at 170 mm notch. Then extend with bottom end piece for drive gears VHH item no. 205717.

221910



<b>10.2.1.7 French casement drive gears EH for Eurogroove FHH with offset HH</b>					<b>No</b>	<b>No</b> Tricoat
silver	for 2 i.S.	1090	300	841 - 1.090	10	<b>217877</b> <sup>1,2</sup>
		1340	400	1.091 - 1.340	10	<b>221910</b> <sup>2,3</sup>
		1590	500	1.341 - 1.590	10	<b>209023</b> <sup>2,4</sup>
	for 3 i.S.	1700	600	1.591 - 1.700	10	<b>208967</b> <sup>2</sup>
		1950	700	1.701 - 1.950	10	<b>208970</b> <sup>2</sup>

<sup>1</sup> Use only in combination with T&T drive gear EH 1090 (item no. 201743). Remove sash lifter there.

<sup>2</sup> For burglar-resistant windows according to standard EN 1627.

<sup>3</sup> Use only in combination with T&T drive gear EH 1340 (item no. 201744).

<sup>4</sup> Use only in combination with T&T drive gear EH 1590 (item no. 208804).



<b>10.2.1.8 French casement drive gears FHH for hook closure</b>					<b>No</b>	<b>No</b> Tricoat
silver	for 4 i.S.	1950	1.050	1.700 - 1.950	10	<b>229658</b>
		2200	1.050	1.951 - 2.200	10	<b>229659</b>







<b>10.2.1.9 French casement drive gears for Eurogroove VHH i.S.</b>				<b>No</b>	<b>No</b> Tricoat	
silver	for 1 i.S.	800	695 - 800	10	<b>227937</b> <sup>1</sup>	
		1250	801 - 1.250	10	<b>202471</b> <sup>1</sup>	<b>233595</b> <sup>1</sup>
	for 2 i.S.	1750	1.251 - 1.750	10	<b>202472</b>	<b>233596</b>
	for 3 i.S.	2250	1.751 - 2.250	10	<b>202473</b>	<b>233597</b>

<sup>1</sup> Use only in combination with corner element item no. 202475.





# French casement locks

211791 

10.2.1.10 French casement drive gears for Eurogroove VHH VZ						
silver	for 1 VZ	1250	840 - 1.250	10	<b>211791<sup>1</sup></b>	
	for 2 VZ	1750	1.251 - 1.750	10	<b>209670</b>	
	for 3 VZ	2250	1.751 - 2.250	10	<b>209671</b>	

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

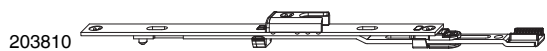
227784 

10.2.1.11 French casement drive gears EH for Eurogroove VHH with central reverse-action lever						
silver	without strikers	800	500 - 800	10	<b>227784<sup>1</sup></b>	<b>250581<sup>1</sup></b>
		1250	801 - 1.250	10	<b>227785<sup>1</sup></b>	<b>250582<sup>1</sup></b>

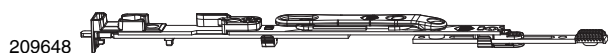
<sup>1</sup> For burglar-resistant windows according to standard EN 1627.



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

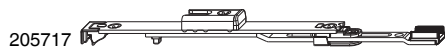


10.2.1.12.1 Faceplate extensions for French casement drive gears					No	No Tricoat
silver	for 1 i.S.	235	20	203810	233416	
		470	20	208333	233418	
	for 1 VZ	235	20	214712	232910	



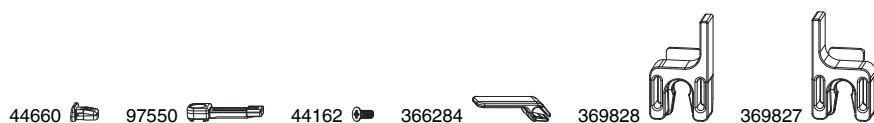
10.2.1.12.2 End pieces with shootbolt protrusion for French casement drive gears MM-KS					No	No Tricoat
silver	top		20	211745 <sup>1</sup>	233383 <sup>1</sup>	
	bottom		20	209637 <sup>1</sup>	233380 <sup>1</sup>	
		with reverse-action lever	20	209648 <sup>1</sup>	236924 <sup>1</sup>	

<sup>1</sup> Striker plate enclosed.



10.2.1.12.3 End piece EH for French casement drive gears						No	No Tricoat
silver	with striker bottom		1.340 - 2.450	20	205717 <sup>1</sup>	233627 <sup>1</sup>	

<sup>1</sup> For burglar-resistant windows according to standard EN 1627.



10.2.1.12.4 Accessories for French casement drive gears for Eurogroove				Ø	L		No	No Tricoat
silver	striker cover for French casement drive gear MM					100	44660	
	locking slider for French casement drive gear MM					100	97550 <sup>1</sup>	
		thread tapping screw for slider-locks MM	M	5	12	100	44162	
	extension for sash lifter run-up					100	366284	
pearl light grey RAL 9022	spare part lifter run-up for French casement drive gear right					50	369828	
	spare part lifter run-up for French casement drive gear left					50	369827	

<sup>1</sup> Thread forming screw item no. 44162 must be ordered separately.

## 10.2.2 French casement drive gears for hardware groove



226635

10.2.2.1 French casement drive gears for hardware groove FHH					No	No Tricoat	
silver	for 1 i.S.	660	190	431 - 660	10	203482 <sup>1,2</sup>	
		840	300	661 - 840	10	226629 <sup>1</sup>	
1090		400	841 - 1.090	10	226635 <sup>1</sup>		
for 2 i.S.	1340	500	1.091 - 1.340	10	226636 <sup>1</sup>		
	1590	600	1.341 - 1.590	10	226637 <sup>1</sup>		
	1700	700	1.591 - 1.700	10	226638 <sup>1</sup>		
for 3 i.S.	1950	1.050	1.701 - 1.950	10	226639 <sup>1</sup>		
	2200	1.050	1.951 - 2.200	10	226640 <sup>1</sup>	233564 <sup>1</sup>	
for 4 i.S.	2450	1.050	2.201 - 2.450	10	226641 <sup>1</sup>	233565 <sup>1</sup>	

<sup>1</sup> Bracket item no. 94035 and faceplate restrainer item no. 94036 must be ordered separately! The type and the number of fixtures is dependent on the capabilities of the French casement drive gear after cutting.

<sup>2</sup> Possible only with turn-only drive gear BS 15!



226643

10.2.2.2 French casement drive gears for hardware groove FHH with offset HH					No	No Tricoat	
silver	for 1 i.S.	1090	300	841 - 1.090	10	226642 <sup>1</sup>	
			500	841 - 1.090	10	226643 <sup>1</sup>	
for 2 i.S.	1340	400	1.091 - 1.340	10	226644 <sup>1</sup>		
	1590	500	1.341 - 1.590	10	226645 <sup>1</sup>		

<sup>1</sup> Bracket item no. 94035 and faceplate restrainer item no. 94036 must be ordered separately! The type and the number of fixtures is dependent on the capabilities of the French casement drive gear after cutting.



226646

10.2.2.3 French casement drive gears for tilt lock bolt for hardware groove FHH					No	No Tricoat	
silver	for 1 VZ	840	300	661 - 840	10	209556 <sup>1,2</sup>	233540 <sup>1,2</sup>
		1090	400	841 - 1.090	10	226646 <sup>1</sup>	233566 <sup>1</sup>
1340		500	1.091 - 1.340	10	226647 <sup>1</sup>	233567 <sup>1</sup>	
for 2 VZ	1590	600	1.341 - 1.590	10	226648 <sup>1</sup>	233568 <sup>1</sup>	
	1700	700	1.591 - 1.700	10	226649 <sup>1</sup>	233569 <sup>1</sup>	
for 3 VZ	1950	1.050	1.701 - 1.950	10	226650 <sup>1</sup>	233590 <sup>1</sup>	
	2200	1.050	1.951 - 2.200	10	226651 <sup>1</sup>	233591 <sup>1</sup>	
for 4 VZ	2450	1.050	2.201 - 2.450	10	226652 <sup>1</sup>	233592 <sup>1</sup>	




<sup>1</sup> Bracket item no. 94035 and faceplate restrainer item no. 94036 must be ordered separately! The type and the number of fixtures is dependent on the capabilities of the French casement drive gear after cutting.

<sup>2</sup> Possible only with turn-only drive gear BS 15!



209558






10.2.2.4 French casement drive gears for tilt lock bolt for hardware groove FHH with offset HH									
					No	No Tricoat			
silver	for 1 VZ	1090	300	841 - 1.090	10	209558 <sup>1</sup>	233541 <sup>1</sup>		
			500	841 - 1.090	10	226653 <sup>1</sup>			
		1340	400	1.091 - 1.340	10	226654 <sup>1</sup>			
		1590	500	1.341 - 1.590	10	226655 <sup>1</sup>	233593 <sup>1</sup>		
		1700	500	1.591 - 1.700	10	226656 <sup>1</sup>	233594 <sup>1</sup>		
	for 2 VZ	1700	600	1.591 - 1.700	10	226657 <sup>1</sup>			

<sup>1</sup> Bracket item no. 94035 and faceplate restrainer item no. 94036 must be ordered separately! The type and the number of fixtures is dependent on the capabilities of the French casement drive gear after cutting.

211795





10.2.2.5 French casement drive gears for hardware groove with 180° operating lever									
					No	No Tricoat			
silver	right	840	300	661 - 840	10	211793 <sup>1</sup>	236989 <sup>1</sup>		
		1090	400	841 - 1.090	10	211795 <sup>1</sup>	233543 <sup>1</sup>		
		1340	500	1.091 - 1.340	10	211797 <sup>1</sup>	233545 <sup>1</sup>		
		1590	600	1.341 - 1.590	10	211799 <sup>1</sup>	233547 <sup>1</sup>		
		1700	700	1.591 - 1.700	10	211801 <sup>1</sup>	236991 <sup>1</sup>		
		1950	1.050	1.701 - 1.950	10	211803 <sup>1</sup>	233549 <sup>1</sup>		
		2200	1.050	1.951 - 2.200	10	211805 <sup>1</sup>	233561 <sup>1</sup>		
		2450	1.050	2.201 - 2.450	10	211807 <sup>1</sup>	233563 <sup>1</sup>		
		left	840	300	661 - 840	10	211792 <sup>1</sup>	236988 <sup>1</sup>	
	1090		400	841 - 1.090	10	211794 <sup>1</sup>	233542 <sup>1</sup>		
	1340		500	1.091 - 1.340	10	211796 <sup>1</sup>	233544 <sup>1</sup>		
	1590		600	1.341 - 1.590	10	211798 <sup>1</sup>	233546 <sup>1</sup>		
	1700		700	1.591 - 1.700	10	211800 <sup>1</sup>	236990 <sup>1</sup>		
	1950		1.050	1.701 - 1.950	10	211802 <sup>1</sup>	233548 <sup>1</sup>		
	2200		1.050	1.951 - 2.200	10	211804 <sup>1</sup>	233560 <sup>1</sup>		
	2450		1.050	2.201 - 2.450	10	211806 <sup>1</sup>	233562 <sup>1</sup>		

<sup>1</sup> Bracket item no. 94035 and faceplate restrainer item no. 94036 must be ordered separately! The type and the number of fixtures is dependent on the capabilities of the French casement drive gear after cutting.

226658



10.2.2.6 French casement drive gears for hardware groove VHH									
				No	No Tricoat				
silver	for 1 i.S.	1250	801 - 1.250	10	226658 <sup>1,2</sup>	233598 <sup>1,2</sup>			
	for 1 VZ	1250	840 - 1.250	10	226659 <sup>2,3</sup>				
	for 2 i.S.	1750	1.251 - 1.750	10	226660 <sup>2</sup>	233599 <sup>2</sup>			
	for 3 i.S.	2250	1.751 - 2.250	10	226661 <sup>2</sup>	233620 <sup>2</sup>			

<sup>1</sup> End piece item no. 203771 required (length 200 mm).

<sup>2</sup> Bracket item no. 94035 and faceplate restrainer item no. 94036 must be ordered separately! The type and the number of fixtures is dependent on the capabilities of the French casement drive gear after cutting.

<sup>3</sup> End piece item no. 209647 required (length 269 mm) with tilt striker plate.

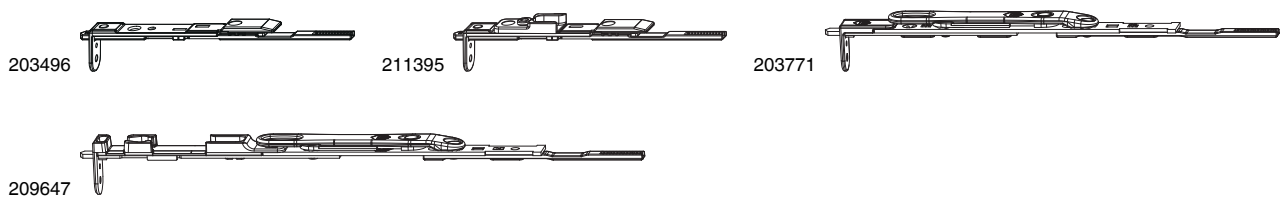


# French casement locks

## 10.2.2.7 Extensions, end pieces and accessories for French casement drive gears for hardware groove



10.2.2.7.1 Faceplate extensions for French casement drive gears MM for hardware groove			No	No Tricoat
silver	140 without striker plate	20	218626	233419
	235 with striker	20	203480	233417
	470 with striker	20	218627	233460
	connecting plate MM hardware groove	50	205921	236912



T 10.2.2.7.2 End pieces for French casement drive gears for hardware groove			No	No Tricoat	
silver	End piece for French casement drive-gear MM hardware groove	top with shootbolt	20	203496	233377
		top with striker with shootbolt	20	211395	233379
		bottom with reverse-action lever	20	203771 <sup>1,2</sup>	233378 <sup>1,2</sup>
	End piece for French casement drive gear MMKS hardware groove	bottom with shootbolt	20	209775	233382
		bottom for tilt lock bolt with operating lever	20	209647 <sup>1,3</sup>	233381 <sup>1,3</sup>

<sup>1</sup> Order connection plate item no. 205921 separately!  
<sup>2</sup> For French casement drive gear use item no. 226658!  
<sup>3</sup> For French casement drive gear use item no. 226659!



T 10.2.2.7.3 Accessories for French casement drive gears for hardware groove			No	No Tricoat
silver	packer for serrated carrier connection	100	44318	
	fixing clamp	100	94035	372753
	faceplate restrainer	50	94036	372754
pearl light grey RAL 9022	spare part lifter run-up for French casement drive gear right	50	369828	
	spare part lifter run-up for French casement drive gear left	50	369827	



## 10.2.3 French casement drive gears for intermediate profiles (without striker plates)



<b>10.2.3.1 French casement drive gears for intermediate profiles FHH</b>					<b>No</b>	<b>No</b> Tricoat
silver	without striker plates	660	190	431 - 660	10	<b>205962</b>
		1090	400	841 - 1.090	10	<b>205964</b>
		1340	500	1.091 - 1.340	10	<b>205965</b>
		1590	600	1.341 - 1.590	10	<b>205966</b>
		1950	1.050	1.701 - 1.950	10	<b>205967</b>
		2200	1.050	1.951 - 2.200	10	<b>205968</b>



<b>10.2.3.2 French casement drive gears for intermediate profiles VHH</b>				<b>No</b>	<b>No</b> Tricoat
silver	without striker plates	1250	801 - 1.250	10	<b>205970<sup>1</sup></b>
		1750	1.251 - 1.750	10	<b>205971</b>
		2250	1.751 - 2.250	10	<b>205972</b>

<sup>1</sup> Only in combination with corner element item no. 205973.

## 10.2.3.3 Accessories for French casement drive gears for intermediate profiles



<b>10.2.3.3.1 Operating levers for French casement drive gears without striker plate</b>				<b>No</b>	<b>No</b> Tricoat
silver	right	with spacer sleeve 13 mm	20	<b>208433</b>	
		with spacer sleeve 36 mm	20	<b>208434</b>	
		with spacer sleeve 43 mm	20	<b>208435</b>	
	left	with spacer sleeve 13 mm	20	<b>205995</b>	
		with spacer sleeve 36 mm	20	<b>206108</b>	
		with spacer sleeve 43 mm	20	<b>206107</b>	

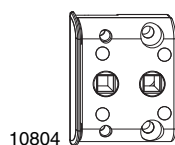


<b>10.3 Single piece door striker</b>		<b>L</b>				<b>No</b>	<b>No</b> Tricoat
silver	for 1 i.S.	1340	1.296,5	500	841 - 1.340	10	<b>202128</b>
	for 2 i.S.	1590	1.559,5	600	1.341 - 1.590	10	<b>202131</b>
	for 3 i.S.	2200	2.169,5	1.050	1.701 - 2.200	10	<b>202133</b>



<b>10.4 Faceplate extension for single piece door striker MM with striker plate</b>		<b>L</b>		<b>No</b>	<b>No</b> Tricoat
silver		349,5	20	<b>204245</b>	

## 10.5 Accessories for 2-sashed windows



10.5.1 Intermediate drive gears with spindle					No	No Tricoat
silver	12 air gap/18 rebate leg/9 offset	-6	20	10804 <sup>1</sup>	105993 <sup>1</sup>	
	12 air gap/18 rebate leg/13 offset	-6	20	102233 <sup>1</sup>		
	12 air gap/20 rebate leg/9 offset	-6	20	10920 <sup>1</sup>		
	12 air gap/20 rebate leg/13 offset	-6	20	102234 <sup>1</sup>		
	18 rebate leg	-6	20	58105	233624	
	4 air gap/15 rebate leg/9 offset	-3,5	20	10945 <sup>1</sup>	105992 <sup>1</sup>	
	PVC	24,5 mm	-6	20	57248	
	25,3 mm	-6	20	204062		
	27,5 mm	-6	20	57249		
	30,3 mm	-6	20	57251		
	31,55 mm	-6	20	201499	233623	

<sup>1</sup> Available for PVC windows upon request.

## 10.5.2 Accessories for intermediate drive gears



10.5.2.1 Packer for intermediate drive gears			L			No	No Tricoat
silver	9 mm offset	5 mm (for MACO seals TE3005b, TE3006, TE3017a, TE3026, TE3027, TC2039)	56	5	100	44274 <sup>1</sup>	
		6 mm (for MACO seals TC2004, TE3007, TC2049, TE3012, TE3008, TC2001)	56	6	100	44250 <sup>2</sup>	
		7 mm (for MACO seals TC2004, TE3007, TC2049, TE3012, TE3008, TC2001)	56	7	100	44300 <sup>3</sup>	
	13 mm offset	without rebate leg gasket, 1 mm distance	56	1,5	100	360221	
		10 mm (for MACO seals TC2004, TE3007, TC2049, TE3012, TE3008, TC2001)	56	11	100	356970	
		10 mm (for MACO seals TE3005b, TE3006, TE3017a, TE3026, TE3027, TC2039)	56	11	100	43509	
		without rebate leg gasket	56	6	100	360220	

<sup>1</sup> For rebate leg gasket 9 mm offset, without overlap gasket 13 mm offset. For large rebate leg gasket TE3005, SV715.

<sup>2</sup> For small rebate leg gasket TC2004, TE3007, TC2049, TE3012, TE3008, TC2001.

<sup>3</sup> For rebate leg gasket plus 1 mm.





10.5.2.2 Spindles for intermediate drive gears				No	No Tricoat
spindle for intermediate drive gear 7x20 mm profile thickness			100	32365	
spindle for intermediate drive gear 7x25 mm profile thickness			100	32412 <sup>1</sup>	
spindle for intermediate drive gear 7x30 mm profile thickness			20	93228 <sup>2</sup>	

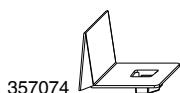
<sup>1</sup> For rebate leg gasket 9 mm offset, without overlap gasket 13 mm offset. For large rebate leg gasket TE3005, SV715.

<sup>2</sup> For rebate leg gasket 13 mm offset.






94219

10.5.2.3 Drill-in bush for deadbolt 8 x 4 mm					
silver			100	94219	






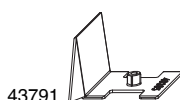
357074

10.5.3 Gap cover caps MM					
silver	left bottom	9 mm offset	100	357091	
		11 mm offset	100	357092	
		13 mm offset	100	357093	
	left top	9 mm offset	100	357078	
		11 mm offset	100	357074	
		13 mm offset	100	357075	
	right bottom	9 mm offset	100	357079	
		11 mm offset	100	357076	
		13 mm offset	100	357077	
	right top	9 mm offset	100	357088	
		11 mm offset	100	357089	
		13 mm offset	100	357090	



360950

10.5.4 Gap cover caps MM-KS					
silver	top left / bottom right	9 mm offset	100	360950	
		11 mm offset	100	365193	
		13 mm offset	100	365195	
	top right / bottom left	9 mm offset	100	360951	
		11 mm offset	100	365194	
		13 mm offset	100	365196	





43791

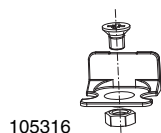
10.5.5 Gap cover cap for hardware groove - sash part					
pearl light grey RAL 9022			100	43791	

# French casement locks




40522 

<b>T 10.5.6 Alu profiles for French casement drive gears</b>		<b>L</b>		<b>No</b>	<b>No</b> Tricoat
blank	Aluminium profile for French casement drive-gear	1.000	10	<b>37535</b>	
		1.250	10	<b>37536</b>	
		1.500	10	<b>37537</b>	
		1.800	10	<b>37554</b>	
		2.350	10	<b>37538</b>	
		2.600	10	<b>357399</b>	
grey F1	Clip-on end cap for aluminium groove		100	<b>40522</b>	



105316

<b>10.5.7 Fixing of scissor stays for French casement EH</b>				<b>No</b>	<b>No</b> Tricoat
silver			50	<b>105316</b>	




## 10.6 Accessories for French casement drive gears


213460 

<b>T</b>	<b>10.6.1 Bullet catch for French casement drive gear</b>			<b>No</b>	<b>No</b> Tricoat
	silver	bullet catch French casement drive gear	50	<b>213460<sup>1,2</sup></b>	

<sup>1</sup> Order steel bullet catch roll item no. 362446 or PVC item no. 362060 separately!

<sup>2</sup> For Eurogroove use packer item no. 362059!


362446 

<b>10.6.2 Bullet catch rolls</b>			<b>No</b>	<b>No</b> Tricoat
pearl light grey RAL 9022	bullet catch roll PVC	100	<b>362060</b>	
silver	bullet catch roll steel	100	<b>362446</b>	


362059 

<b>10.6.3 Packer for bullet catch roll</b>			<b>No</b>	<b>No</b> Tricoat
silver	packer for bullet catch roll for Eurogroove	100	<b>362059</b>	

365791 

<b>10.6.4 Striker plate i.S. for French casement drive gear MM-KS</b>			<b>No</b>	<b>No</b> Tricoat
silver	for French casement drive gear MMKS	100	<b>365791</b>	<b>372575</b>

35178  218605 

<b>10.6.5 Latch striker plates for balcony door locks B-TV</b>			<b>No</b>	<b>No</b> Tricoat	
silver	for French casement drive gear	1 fixed slot	50	<b>35178</b>	<b>372752</b>
		adjustable	50	<b>218605</b>	

## 11 Striker plates

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## 11 Striker plates

### 11.1 Striker plates 4 mm air gap

#### 11.1.1 Striker plates 4 mm air gap

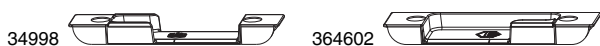


T 11.1.1.1 Striker plates 4 mm air gap				No	No Tricoat
silver	for 4 mm air gap 9 mm offset		200	30545 <sup>1,2</sup>	372431 <sup>1,2</sup>
	for 4 mm air gap 13 mm offset		right 200	363020 <sup>2,3</sup>	
			left 200	363021 <sup>2,3</sup>	
		- 1 mm gasket-compression	right 200	357671 <sup>2,3</sup>	372492 <sup>2,3</sup>
			left 200	357672 <sup>2,3</sup>	372493 <sup>2,3</sup>

<sup>1</sup> 18 mm milling depth.

<sup>2</sup> Routing length 90 mm.

<sup>3</sup> 22 mm milling depth.



T 11.1.1.2 Striker plates for 3-sashed windows 4 mm air gap				No	No Tricoat
silver	for 4 mm air gap 9 mm offset		200	34998 <sup>1,2</sup>	
	for 4 mm air gap 13 mm offset		right 100	364602 <sup>2,3</sup>	
			left 100	364604 <sup>2,3</sup>	

<sup>1</sup> 18 mm milling depth.

<sup>2</sup> Routing length 90 mm.

<sup>3</sup> 22 mm milling depth.



T 11.1.1.3 Sash lifters 4 mm air gap				No	No Tricoat
silver	for 4 mm air gap 9 mm offset	right	100	356504 <sup>1,2</sup>	372476 <sup>1,2</sup>
		left	100	356505 <sup>1,2</sup>	372477 <sup>1,2</sup>
	with door catch	right	20	206113 <sup>1,3</sup>	
		left	20	206114 <sup>1,3</sup>	
	for 4 mm air gap 13 mm offset	right	100	357675 <sup>2,4</sup>	372581 <sup>2,4</sup>
		left	100	357676 <sup>2,4</sup>	372582 <sup>2,4</sup>
	with door catch	right	20	214543 <sup>3,4</sup>	
		left	20	214544 <sup>3,4</sup>	

<sup>1</sup> 18 mm milling depth.

<sup>2</sup> Routing length 90 mm.


<sup>3</sup> Routing length 160 mm.

<sup>4</sup> 22 mm milling depth.




# Striker plates

96565 

<b>T 11.1.1.4 Striker plates i.S. 4 mm air gap</b>							<b>No</b>	<b>No</b> Tricoat
silver	for 4 mm air gap 9 mm offset	angled screw-fixing	right	100			<b>96565</b> <sup>1,2</sup>	<b>372435</b> <sup>1,2</sup>
			left	100			<b>96566</b> <sup>1,2</sup>	<b>372436</b> <sup>1,2</sup>
							<b>96305</b> <sup>1,2</sup>	
							- 1 mm gasket-compression	right
	for 4 mm air gap 9 mm offset without reinforcement rings	angled screw-fixing	right	100			<b>357958</b> <sup>1,2</sup>	
			left	100			<b>357959</b> <sup>1,2</sup>	
	for 4 mm air gap 13 mm offset	angled screw-fixing	right	100			<b>357673</b> <sup>2,3</sup>	<b>372494</b> <sup>2,3</sup>
			left	100			<b>357674</b> <sup>2,3</sup>	<b>372495</b> <sup>2,3</sup>
							<b>360102</b> <sup>2,3</sup>	<b>372605</b> <sup>2,3</sup>
							- 1 mm gasket-compression	right

<sup>1</sup> 18 mm milling depth.  
<sup>2</sup> Routing length 90 mm.  
<sup>3</sup> 22 mm milling depth.

96200 


<b>T 11.1.1.5 Horizontal tilt striker plates i.S. 4 mm air gap</b>							<b>No</b>	<b>No</b> Tricoat
silver	for 4 mm air gap 9 mm offset	angled screw-fixing	right	100			<b>96200</b> <sup>1,2</sup>	<b>372408</b> <sup>1,2</sup>
			left	100			<b>96201</b> <sup>1,2</sup>	<b>372409</b> <sup>1,2</sup>
	for 4 mm air gap 13 mm offset	angled screw-fixing	right	100			<b>357678</b> <sup>2,3</sup>	<b>372555</b> <sup>2,3</sup>
			left	100			<b>357679</b> <sup>2,3</sup>	<b>372556</b> <sup>2,3</sup>

<sup>1</sup> 18 mm milling depth.  
<sup>2</sup> Routing length 90 mm.  
<sup>3</sup> 22 mm milling depth.

372854 

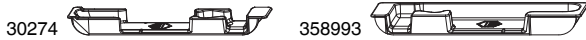
<b>T 11.1.1.6 Tilt-first striker plates i.S. 4 mm air gap</b>							<b>No</b>	<b>No</b> Tricoat
silver	MM		left/right	100			<b>372854</b>	

55112  23883  220089 

<b>T 11.1.1.7 Shootbolt striker plates 4 mm air gap</b>							<b>No</b>	<b>No</b> Tricoat
silver	for 4 mm air gap 9 mm offset	2 slots		100			<b>55112</b> <sup>1,2</sup>	
				100			<b>23883</b> <sup>1,2</sup>	<b>372407</b> <sup>1,2</sup>
			+ 1 mm gasket-compression	100			<b>26083</b> <sup>1,2</sup>	
	for 4 mm air gap 13 mm offset	3 slots		100			<b>220089</b> <sup>1,3,4</sup>	
		2 slots		100			<b>209338</b> <sup>2,5</sup>	<b>250192</b> <sup>2,5</sup>

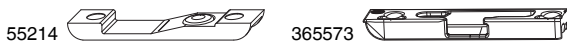
<sup>1</sup> 18 mm milling depth.  
<sup>2</sup> Routing length 90 mm.  
<sup>3</sup> Routing length 120 mm.  
<sup>4</sup> For windows - Group C5 EN 12210.  
<sup>5</sup> 22 mm milling depth.





<b>T 11.1.1.8 Tilt striker plates 4 mm air gap</b>					<b>No</b>	<b>No</b> Tricoat
silver	for 4 mm air gap 9 mm offset	right and left	100	<b>30274</b> <sup>1,2</sup>	<b>372380</b> <sup>1,2</sup>	
	for 4 mm air gap 13 mm offset	right	100			
		left	100	<b>358993</b> <sup>2,3</sup>	<b>358994</b> <sup>2,3</sup>	

- <sup>1</sup> 18 mm milling depth.
- <sup>2</sup> Routing length 90 mm.
- <sup>3</sup> 22 mm milling depth.



<b>T 11.1.1.9 Sash lifter striker plates and tilt striker plates for half round and angled windows 4 mm air gap</b>					<b>No</b>	<b>No</b> Tricoat
silver	sash lifter striker plate for half round and angled windows for 4 mm air gap 9 mm offset		50	<b>55214</b> <sup>1,2,3</sup>		
	sash lifter striker plate for half round and angled windows for 4 mm air gap 13 mm offset		50		<b>209364</b> <sup>2,3,4</sup>	
	tilt striker i.S. horizontal for half round and angled windows for 4 mm air gap 9 mm offset	angled screw-fixing	right	100	<b>365573</b> <sup>1,5,6</sup>	
			left	100		<b>365574</b> <sup>1,5,6</sup>
	tilt striker i.S. horizontal for half round and angled windows for 4 mm air gap 13 mm offset	angled screw-fixing	right	100	<b>365571</b> <sup>4,5,6</sup>	
			left	100		<b>365572</b> <sup>4,5,6</sup>
	sash lifter striker plate for half round and angled windows for 4 mm air gap 13 mm offset			50	<b>218076</b> <sup>4,5,6,7</sup>	
sash lifter striker plate for half round and angled windows for 4 mm air gap 9 mm offset			50	<b>218077</b> <sup>1,5,6,7</sup>		


- <sup>1</sup> 18 mm milling depth.
- <sup>2</sup> Routing length 90 mm.
- <sup>3</sup> Use with corner element item no. 215216, item no. 215217.
- <sup>4</sup> 22 mm milling depth.
- <sup>5</sup> Use with corner element item no. 218071, item no. 218072.
- <sup>6</sup> Routing length 169 mm.
- <sup>7</sup> Only in combination with tilt lock item no. 218072.




<b>T 11.1.1.10 Run-up block 4 mm air gap for horizontal tilt lock</b>					<b>No</b>	<b>No</b> Tricoat
silver	run-up block 4 mm air gap		500	<b>94022</b>		

## 11.2 Striker plates 12 mm air gap, hardware groove 6/8/4

34921 

T 11.2.1 Striker plates 12 mm air gap, hardware groove 6/8/4			No	No Tricoat
silver		200	34921	372433
	- 1 mm gasket-compression	200	34979	372438


34917 


T 11.2.2 Striker plate for 3-sashed windows 12 mm air gap, hardware groove 6/8/4			No	No Tricoat
silver		200	34917	


363175 

T 11.2.3 Sash lifters 12 mm air gap, hardware groove 6/8/4			No	No Tricoat
silver		right 100	363175	
		left 100	363176	

96563 

T 11.2.4 Striker plates i.S. 12 mm air gap, hardware groove 6/8/4			No	No Tricoat
silver	angled screw-fixing	100	96563	
	- 1 mm gasket-compression	100	96263	

23886 

T 11.2.5 Shootbolt striker plates 12 mm air gap, hardware groove 6/8/4			No	No Tricoat
silver	2 slots	100	23886 <sup>1</sup>	372403 <sup>1</sup>
	+ 1 mm gasket-compression	100	26610	

<sup>1</sup> Not suitable for rebate depth 18 mm; gasket compression depends on installation position.

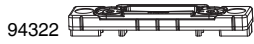
33932 


T 11.2.6 Tilt striker plate 12 mm air gap, hardware groove 6/8/4			No	No Tricoat
silver		right and left 100	33932	372383

56930 

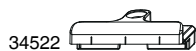
T 11.2.7 Striker plate for espagnolette with mounted tilt scissor stay 12 mm air gap, hardware groove 6/8/4			No	No Tricoat
silver		100	56930	





<b>T</b>	<b>11.2.8 Latch striker plate 12 mm air gap, hardware groove 6/8/4</b>		<b>No</b>	<b>No</b> Tricoat
silver	adjustable	50	<b>94322</b>	

## 11.3 Striker plates 12 mm air gap, hardware groove 7/8/4



T 11.3.1 Striker plates 12 mm air gap, hardware groove 7/8/4			No	No Tricoat
silver		200	34902	372401
	- 1 mm gasket-compression	200	34969	372399
	angled screw-fixing	200	34522	



T 11.3.2 Sash lifters 12 mm air gap, hardware groove 7/8/4			No	No Tricoat
silver	angled screw-fixing	right 100	356774	372480
		left 100	356775	372481



T 11.3.3 Striker plates i.S. 12 mm air gap, hardware groove 7/8/4			No	No Tricoat
silver	angled screw-fixing	100	96564	372423
	- 0.8 mm gasket-compression	100	360564	372548
	- 1 mm gasket-compression	100	96264	372485
	without reinforcement rings angled screw-fixing	100	363486	



T 11.3.4 Tilt-first striker plates i.S. 12 mm air gap, hardware groove 7/8/4			No	No Tricoat
silver	MM	right 100	365426	
		left 100	365427	



T 11.3.5 Shootbolt striker plates 12 mm air gap, hardware groove 7/8/4			No	No Tricoat
silver	2 slots	100	23886 <sup>1</sup>	372403 <sup>1</sup>
	1 fixed slot	+ 0.8 mm gasket-compression	100	360561 <sup>2</sup>
		100	98110 <sup>2</sup>	372553 <sup>2</sup>

<sup>1</sup> Not suitable for rebate depth 18 mm; gasket compression depends on installation position.









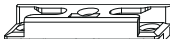

<sup>2</sup> For windows - Group C5 EN 12210.



T 11.3.6 Tilt striker plates 12 mm air gap, hardware groove 7/8/4			No	No Tricoat
silver		right 100	33970	
		left 100	33971	





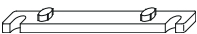
## Striker plates


56910								
<b>T</b>	<b>11.3.7 Striker plate for espagnolette with mounted tilt scissor stay 12 mm air gap, hardware groove 7/8/4</b>		<b>No</b>	<b>No</b> Tricoat				
silver		100	56910					
25838								
<b>T</b>	<b>11.3.8 Night-vent striker plate 12 mm air gap, hardware groove 7/8/4</b>		<b>No</b>	<b>No</b> Tricoat				
silver		100	25838					
55252								
<b>T</b>	<b>11.3.9 Latch striker plate 12 mm air gap, hardware groove 7/8/4</b>		<b>No</b>	<b>No</b> Tricoat				
silver	adjustable	50	55252					
34937								
<b>T</b>	<b>11.3.10 Striker plate with positioning pins 12 x 3 mm 12 mm air gap, hardware groove 7/8/4</b>		<b>No</b>	<b>No</b> Tricoat				
silver	angled screw-fixing	200	34937					
96691								
<b>T</b>	<b>11.3.11 Striker plate i.S. with positioning pins 12 x 3 mm 12 mm air gap, hardware groove 7/8/4</b>		<b>No</b>	<b>No</b> Tricoat				
silver	angled screw-fixing	100	96691					

## 11.4 Striker plates 12 mm air gap, hardware groove 6/8/4 and 7/8/4


25924 

<b>T</b>	<b>11.4.1 Sash lifter for half round and angled windows 12 mm air gap, hardware groove 6/8/4 and 7/8/4</b>		<b>No</b>	<b>No</b> Tricoat
	silver	50	<b>25924</b>	

54697  40349 

<b>T</b>	<b>11.4.2 Striker plates for opening restrictor 12 mm air gap, hardware groove 6/8/4 and 7/8/4</b>		<b>No</b>	<b>No</b> Tricoat
	silver	frame component for opening restrictor Euro-rebate 18 mm angled screw-fixing 50 packer for striker plate for opening restrictor for timber 100	<b>54697</b> <b>40349</b>	<b>236901</b>

55066 

<b>T</b>	<b>11.4.3 Stabilizing scissor stay casing 12 mm air gap, hardware groove 6/8/4 and 7/8/4</b>		<b>No</b>	<b>No</b> Tricoat
	silver	100	<b>55066</b>	



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



11.5.1 Striker plates 12 mm air gap, Euro-rebate, 18 mm rebate depth			No	No Tricoat
silver	double screw fixing	200	34943	372400
	angled screw-fixing	200	34980	372432
	- 1 mm gasket-compression	200	357844	372636



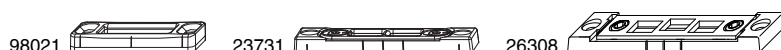
11.5.2 Sash lifters 12 mm air gap, Euro-rebate, 18 mm rebate depth			No	No Tricoat
silver	angled screw-fixing	right	100	356298
		left	100	356299



11.5.3 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



11.5.4 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



11.5.5 Shootbolt striker plates 12 mm air gap, Euro-rebate, 18 mm rebate depth			No	No Tricoat	
silver	1 fixed slot	100	98021 <sup>1</sup>	372551 <sup>1</sup>	
	2 slots	100	23731	372402	
		+ 1 mm gasket-compression	100	26745	
	2 slots with angled screw-fixing	100	26741		
	3 slots	100	26308 <sup>1</sup>	372422 <sup>1</sup>	

<sup>1</sup> For windows - Group C5 EN 12210.



11.5.6 Tilt striker plate 12 mm air gap, Euro-rebate, 18 mm rebate depth			No	No Tricoat
silver		100	33981	372377



# Striker plates



<b>T</b>	<b>11.5.7 Night-vent striker plate 12 mm air gap, Euro-rebate, 18 mm rebate depth</b>			<b>No</b>	<b>No</b> Tricoat
	silver				

<sup>1</sup> Only possible in combination with corner element item no. 209034.



<b>T</b>	<b>11.5.8 Striker plate for espagnolette with mounted tilt stay 12 mm air gap, Euro-rebate, 18 mm rebate depth</b>			<b>No</b>	<b>No</b> Tricoat
	silver				



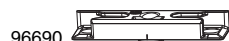
<b>T</b>	<b>11.5.9 Stabilizing scissor stay casing 12 mm air gap, Euro-rebate, 18 mm rebate depth</b>			<b>No</b>	<b>No</b> Tricoat
	silver				



<b>T</b>	<b>11.5.10 Latch striker plate 12 mm air gap, Euro-rebate, 18 mm rebate depth</b>			<b>No</b>	<b>No</b> Tricoat
	silver	adjustable			



<b>T</b>	<b>11.5.11 Striker plates with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 18 mm rebate depth</b>			<b>No</b>	<b>No</b> Tricoat			
	silver	angled screw-fixing				200	34963	372489
						- 1 mm gasket-compression	200	370110



<b>T</b>	<b>11.5.12 Striker plates i.S. with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 18 mm rebate depth</b>			<b>No</b>	<b>No</b> Tricoat			
	silver	angled screw-fixing				100	96690	372490
						- 0.7 mm gasket-compression	100	96890



<b>T</b>	<b>11.5.13 Shootbolt striker plate with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 18 mm rebate depth</b>			<b>No</b>	<b>No</b> Tricoat
	silver	2 slots			





<b>T</b>	<b>11.5.14 Sash lifters with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 18 mm rebate depth</b>			<b>No</b>	<b>No</b> Tricoat				
	silver	angled screw-fixing				right	100	364286	372609
						left	100	364287	372601




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

34981 


<b>T</b> 11.6.1 Striker plates 12 mm air gap, Euro-rebate, 20 mm rebate depth			No	No Tricoat
silver	angled screw-fixing	200	34981	372434
		- 1 mm gasket-compression	200	355396
	without reinforcement rings angled screw-fixing	200	34986	372566

361960 


<b>T</b> 11.6.2 Striker plate rear-engaging 12 mm air gap, Euro-rebate, 20 mm rebate depth			No	No Tricoat
silver	angled screw-fixing	200	361960 <sup>1</sup>	

<sup>1</sup> Only for i.S. cam!


356326 

<b>T</b> 11.6.3 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
				372368
				372369


96561 

<b>T</b> 11.6.4 Striker plates i.S. 12 mm air gap, Euro-rebate, 20 mm rebate depth			No	No Tricoat
silver	angled screw-fixing	100	96561	372437
		- 0.7 mm gasket-compression	100	96861
	without reinforcement rings angled screw-fixing	100	96779	372498
		- 0.7 mm gasket-compression	100	96641

363797 

<b>T</b> 11.6.5 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
				372624

26241 


<b>T</b> 11.6.6 Shootbolt striker plates 12 mm air gap, Euro-rebate, 20 mm rebate depth			No	No Tricoat
silver	2 slots	100	26241	372414
		+ 1 mm gasket-compression	100	208439

363300 


<b>T</b> 11.6.7 Tilt striker plate 12 mm air gap, Euro-rebate, 20 mm rebate depth			No	No Tricoat
silver		right and left	100	363300
				372384

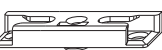
## Striker plates


34985 

<b>T</b>	<b>11.6.8 Striker plate with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 20 mm rebate depth</b>				<b>No</b>	<b>No</b> Tricoat
	silver	angled screw-fixing	200			


356959 

<b>T</b>	<b>11.6.9 Sash lifters with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 20 mm rebate depth</b>				<b>No</b>	<b>No</b> Tricoat			
	silver	angled screw-fixing	right				100	<b>356959</b>	<b>372538</b>
			left				100	<b>356960</b>	<b>372537</b>

96692 

<b>T</b>	<b>11.6.10 Striker plate i.S. with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 20 mm rebate depth</b>				<b>No</b>	<b>No</b> Tricoat
	silver	angled screw-fixing	100			


206977 

<b>T</b>	<b>11.6.11 Shootbolt striker plate with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 20 mm rebate depth</b>				<b>No</b>	<b>No</b> Tricoat
	silver	2 slots	100			




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

34934 


<b>T</b> 11.7.1 Striker plates 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset					No	No Tricoat
silver		angled screw-fixing		200	34934	372501
			- 1 mm gasket-compression	200	359297	372525
	without reinforcement rings	angled screw-fixing		100	362812	372619



360849 


<b>T</b> 11.7.2 Striker plate rear-engaging 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset					No	No Tricoat
silver		angled screw-fixing		200	360849 <sup>1</sup>	372620 <sup>1</sup>

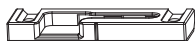
<sup>1</sup> Only for i.S. cam!

356333 

<b>T</b> 11.7.3 Sash lifters 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset					No	No Tricoat
silver		angled screw-fixing	right	100	356333	372370
			left	100	356334	372371


364952  363027 

<b>T</b> 11.7.4 Striker plates i.S. 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset					No	No Tricoat
silver	without reinforcement rings	angled screw-fixing		100	364952	372572
			- 1 mm gasket-compression	100	364953	372573
	design without reinforcement rings	angled screw-fixing		100	363027	

369757 

<b>T</b> 11.7.5 Tilt-first striker plates i.S. 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset					No	No Tricoat
silver			right	100	369757	
			left	100	369758	

360624  203329 


<b>T</b> 11.7.6 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	360624 <sup>1</sup>	
		2 slots		100	203329	372415
		2 slots with angled screw-fixing	+ 1 mm	100	212474 <sup>2</sup>	
	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	212343	

<sup>1</sup> For windows - Group C5 EN 12210.

<sup>2</sup> Height + 1 mm.

# Striker plates

359003 


<b>T</b>	<b>11.7.7 Tilt striker plates 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset</b>				<b>No</b>	<b>No</b> Tricoat
	silver			right 100	<b>359003</b>	<b>372387</b>
				left 100	<b>359004</b>	<b>372388</b>

370925 

<b>T</b>	<b>11.7.8 Night-vent striker plate 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset</b>				<b>No</b>	<b>No</b> Tricoat
	silver			100	<b>370925<sup>1</sup></b>	


<sup>1</sup> Only possible in combination with an i.S. cam.


206200 

<b>T</b>	<b>11.7.9 Sash lifter for half round and angled windows, 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset</b>				<b>No</b>	<b>No</b> Tricoat
	silver			50	<b>206200</b>	<b>372420</b>


209347 

<b>T</b>	<b>11.7.10 Latch striker plate 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset</b>				<b>No</b>	<b>No</b> Tricoat
	silver	adjustable		50	<b>209347</b>	<b>235422</b>

356961 


<b>T</b>	<b>11.7.11 Striker plates with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset</b>				<b>No</b>	<b>No</b> Tricoat
	silver	angled screw-fixing		200	<b>356961</b>	<b>372486</b>
				+ 1.2 mm gasket compression 200	<b>357213</b>	

360154 

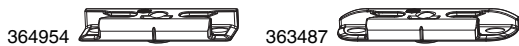
<b>T</b>	<b>11.7.12 Striker plate rear-engaging with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset</b>				<b>No</b>	<b>No</b> Tricoat
	silver			200	<b>360154<sup>1</sup></b>	<b>372578<sup>1</sup></b>

<sup>1</sup> Only for i.S. cam!

363992 

<b>T</b>	<b>11.7.13 Sash lifters with positioning pins 12 x 3 mm 12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset</b>				<b>No</b>	<b>No</b> Tricoat
	silver	angled screw-fixing		right 200	<b>363992</b>	<b>372557</b>
				left 200	<b>363993</b>	<b>372558</b>





<b>T 11.7.14 Striker plates i.S. with positioning pins 12 x 3 mm</b> <b>12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset</b>					<b>No</b>	<b>No</b> Tricoat
silver	with positioning pins 12x3 mm	angled screw-fixing		100	<b>364954</b>	<b>372574</b>
			- 1 mm gasket-compression	100	<b>370557</b>	<b>372644</b>
	design with positioning pins 12x3 mm	angled screw-fixing		100	<b>363487</b>	<b>372579</b>



<b>T 11.7.15 Shootbolt striker plates with positioning pins 12 x 3 mm</b> <b>12 mm air gap, Euro-rebate, 24 mm rebate depth, 13 mm offset</b>					<b>No</b>	<b>No</b> Tricoat
silver	2 slots			100	<b>207368</b>	<b>372418</b>

## 11.8 Striker plates 12 mm air gap, Euro-rebate, 30 mm rebate depth



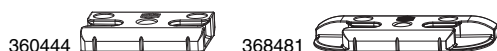
<b>T</b>	<b>11.8.1 Striker plate 12 mm air gap, Euro-rebate, 30 mm rebate depth, 13 mm offset</b>			<b>No</b>	<b>No</b> Tricoat
	silver	angled screw-fixing			



<b>T</b>	<b>11.8.2 Striker plates rear-engaging 12 mm air gap, Euro-rebate, 30 mm rebate depth, 13 mm offset</b>			<b>No</b>	<b>No</b> Tricoat
	silver	angled screw-fixing			
		+ 0.8 mm gasket-compression	100	<b>368482</b>	



<b>T</b>	<b>11.8.3 Sash lifters 12 mm air gap, Euro-rebate, 30 mm rebate depth, 13 mm offset</b>			<b>No</b>	<b>No</b> Tricoat
	silver	angled screw-fixing			
			left 100	<b>360446</b>	<b>372591</b>



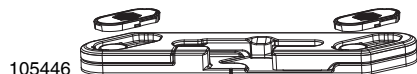
<b>T</b>	<b>11.8.4 Striker plates i.S. 12 mm air gap, Euro-rebate, 30 mm rebate depth, 13 mm offset</b>			<b>No</b>	<b>No</b> Tricoat
	silver	angled screw-fixing			
		+ 0.7 mm gasket compression	100	<b>368481</b>	



<b>T</b>	<b>11.8.5 Shootbolt striker plate 12 mm air gap, Euro-rebate, 30 mm rebate depth, 13 mm offset</b>			<b>No</b>	<b>No</b> Tricoat
	silver	2 slots			

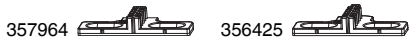



<b>T</b>	<b>11.8.6 Tilt striker plates 12 mm air gap, Euro-rebate, 30 mm rebate depth, 13 mm offset</b>			<b>No</b>	<b>No</b> Tricoat
	silver				
			left 200	<b>368346</b>	



<b>T</b>	<b>11.8.7 SV striker plates i.S. 12 mm air gap, Euro-rebate, 30 mm rebate depth, 13 mm offset</b>			<b>No</b>	<b>No</b> Tricoat
	silver	secured ventilation position			
			left 20	<b>105447<sup>1</sup></b>	<b>106188<sup>1</sup></b>

<sup>1</sup> Refer to profile data sheets for PVC profiles.




<b>T 11.8.8 Striker plates for multi-stepped ventilation 12 mm air gap, Euro-rebate, 30 mm rebate depth, 13 mm offset</b>			<b>No</b>	<b>No</b> Tricoat
silver	with 4 stop positions	100	<b>357964<sup>1</sup></b>	
	with 5 stop positions	100	<b>356425<sup>1</sup></b>	

<sup>1</sup> A minimum rebate depth of 24 mm is required for 9 mm offset.




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


206200 

<b>T</b>	<b>11.9.1 Sash lifter for half round and angled windows 12 mm air gap, Euro-rebate, 18 - 30 mm rebate depth</b>		<b>No</b>	<b>No</b> Tricoat
	silver	50	206200	372420


55277 

<b>T</b>	<b>11.9.2 Striker plate for espagnolette with mounted tilt stay 12 mm air gap, Euro-rebate, 18 - 30 mm rebate depth</b>		<b>No</b>	<b>No</b> Tricoat
	silver	100	55277	236513

34958 


<b>T</b>	<b>11.9.3 Striker plate for 3-sashed windows 12 mm air gap, Euro-rebate, 18 - 30 mm rebate depth</b>		<b>No</b>	<b>No</b> Tricoat
	silver	200	34958	

25118 


<b>T</b>	<b>11.9.4 Night-vent striker plate 12 mm air gap, Euro-rebate, 18 - 30 mm rebate depth</b>		<b>No</b>	<b>No</b> Tricoat
	silver	100	25118 <sup>1</sup>	

<sup>1</sup> Only possible in combination with corner element item no. 209034.

52794 

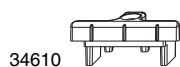
<b>T</b>	<b>11.9.5 Stabilizing scissor stay casing 12 mm air gap, Euro-rebate, 18 - 30 mm rebate depth</b>		<b>No</b>	<b>No</b> Tricoat
	silver	100	52794	236517

207432 

<b>T</b>	<b>11.9.6 Striker plate for opening restrictor 12 mm air gap, Euro-rebate, 20 - 30 mm rebate depth</b>		<b>No</b>	<b>No</b> Tricoat
	silver	angled screw-fixing	50	207432



## 11.10 Striker plates for opposite Eurogroove



34610

11.10.1 Striker plates for opposite Eurogroove			No	No Tricoat
silver		200	34610	372424
	- 1 mm gasket-compression	200	34606	372503



34618

11.10.2 Striker plate for 3-sashed windows for opposite Eurogroove			No	No Tricoat
silver		200	34618	372569



355923

11.10.3 Sash lifters for opposite Eurogroove			No	No Tricoat
silver				
	right	100	355923	372478
	left	100	355924	372479

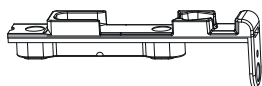


355221

96558

11.10.4 Striker plates i.S. for opposite Eurogroove			No	No Tricoat
silver		100	355221	
	- 0.8 mm gasket-compression	100	96558	372487

26071



11.10.5 Tilt striker plate for opposite Eurogroove for PVC			No	No Tricoat
silver				
	right and left	100	26071	


228711



11.11 Hook striker plates		L	W		No	No Tricoat
silver	FT22 (GKG Combi Plan 0.0, Inoutic Easystep, Profine Premioplan + Premioplan+, Rehau Synego + Geneo)	140	22	10	228711	
	FT24 (Aluplast)	140	24	20	229946	
	Schüco Schwelle	140	27,5	20	250210	
	FT30 (GS-Stemeseder)	140	30	10	229945	


## 11.12 Accessories for striker plates

365791 


11.12.1 Striker plates for French casement drive gears			No	No Tricoat
silver	striker plate i.S. for French casement drive gear MMKS	100	365791 <sup>1</sup>	372575 <sup>1</sup>

<sup>1</sup> Compatible for shootbolt item no. 215240 and MT.




355615  43922 


11.12.2 Sash run-up block 2-sashed			No	No Tricoat
silver	for i.S striker plate MM	100	355615	
pearl light grey RAL 9022	for shootbolt striker plate	1.000	43922	

365561 

11.12.3 Adapter			No	No Tricoat
adapter MM for i.S. striker plate		50	365561 <sup>1</sup>	

<sup>1</sup> Only for i.S. striker plates with 50 mm length.

355920  205563  94037 

11.12.4 Accessories for 3-sashed windows			No	No Tricoat
silver	clip-on bush for i.S. cam	100	355920	
	clip-on bush for locking cam	100	94031	
	clip-on striker plate for locking cam	100	55039	
	clip-on striker plate for i.S. cams	100	205563	372413
	locking cam hardware groove	100	94037	
	locking cam opposite Eurogroove	100	94038	





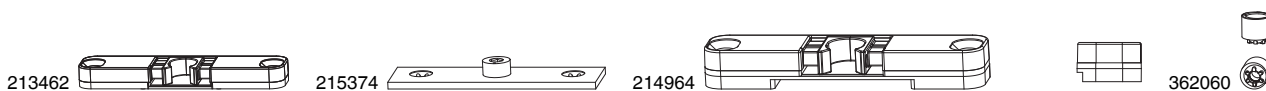
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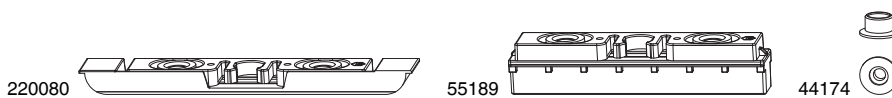
## 12 Accessories Multi-Matic



12.1 Door catches and bullet catches for 2-sashed windows			<b>No</b>	<b>No</b> Tricoat
silver	bullet catch timber 18 mm rebate depth 9 mm offset and 22 mm rebate depth 13 mm offset	50	<b>213461</b>	
	bullet catch timber 20 mm rebate depth 9 mm offset and 24 mm rebate depth 13 mm offset	50	<b>213462</b>	<b>236908</b>
	bullet catch hardware groove	50	<b>214804</b>	
	bullet-catch roll for timber 9 mm offset with plate	50	<b>215372</b>	
	bullet-catch roll for timber 13 mm offset with plate	50	<b>215374</b>	
	bullet-catch roll Eurogroove with plate	50	<b>215373</b>	
	bullet-catch roll steel	100	<b>362446<sup>1</sup></b>	
	bullet catch French casement drive gear	50	<b>213460</b>	
	bullet catch opposite Eurogroove	50	<b>214964</b>	
	packer for bullet catch for Eurogroove	100	<b>362059<sup>2</sup></b>	
pearl light grey RAL 9022	bullet-catch roll PVC	100	<b>362060</b>	

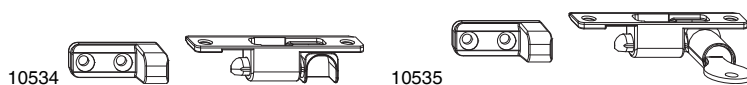
<sup>1</sup> The contact points to the bullet catch have to be lubricated - when using the bullet catch roll made of steel.

<sup>2</sup> Use for installation into Eurogroove!



12.2 PVC bullet catches for 2-sashed windows			<b>No</b>	<b>No</b> Tricoat
silver	2-sashed bullet catch 4 mm air gap 9 mm offset mill-in	50	<b>220080<sup>1</sup></b>	
	2-sashed bullet catch without Eurogroove	50	<b>57891</b>	
	2-sashed bullet catch for Eurogroove	50	<b>55189</b>	
	bullet-catch roll Euro-rebate 10x7 mm	100	<b>44174</b>	
	bullet-catch roll hardware groove 10x7 mm with lip	100	<b>44175</b>	
	bullet-catch roll Euro-rebate 10x9 mm	100	<b>94111</b>	

<sup>1</sup> Routing length 120 mm.



12.3 Self-catching turn locks			<b>No</b>	<b>No</b> Tricoat
silver	turn lock self-catching	20	<b>10534</b>	<b>106033</b>
	turn lock self-catching lockable	20	<b>10535</b>	<b>106034</b>
	packer for frame component turn lock self-catching 2 mm	20	<b>366651</b>	
	key for turn lock self-catching lockable 2D057	100	<b>40401</b>	
traffic white RAL 9016	turn lock self-catching	20	<b>12067</b>	
	turn lock self-catching lockable	20	<b>12069</b>	
grey brown RAL 8019	turn lock self-catching	20	<b>12068</b>	
	turn lock self-catching lockable	20	<b>12070</b>	



<b>T 12.4 Concealed turn locks 4 mm air gap</b>			<b>No</b>	<b>No</b> Tricoat
silver	concealed turn lock for 4 mm air gap, 9 mm offset	20	<b>10759</b> <sup>1,2,3,4</sup>	<b>106032</b> <sup>1,2,3,4</sup>
	right concealed turn lock 4 mm air gap 13 mm offset	20	<b>103874</b> <sup>2,3,5,6</sup>	
	left concealed turn lock 4 mm air gap 13 mm offset	20	<b>103875</b> <sup>2,3,5,6</sup>	
	tilt-stay key	50	<b>94079</b>	
pearl light grey RAL 9022	right adapter spacer for turn lock cases Hardware groove 6/8/4	100	<b>44222</b>	
	left adapter spacer for turn lock cases Hardware groove 6/8/4	100	<b>44223</b>	
	adapter spacer for turn lock cases Euro-rebate	100	<b>43747</b>	
	adapter spacer for turn lock cases 12 air gap	20	<b>366263</b>	

<sup>1</sup> 9 mm offset: 18 mm milling depth.

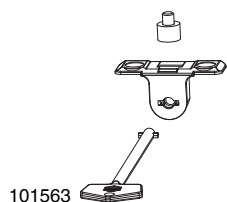
<sup>2</sup> For 4 mm air gap 90 mm milling length.

<sup>3</sup> Box contents: Turn lock and tilt-stay key.

<sup>4</sup> For timber 18 mm rebate depth 9 mm offset use end cap item no. 43747 and for hardware groove 6/8/4 end cap item no. 44222 on the right and/or item no. 44223 on the left.

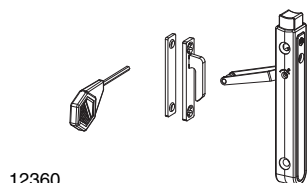
<sup>5</sup> Use end cap item no. 366263 for 12 mm air gap.

<sup>6</sup> 11 + 13 mm offset: 22 mm milling depth.

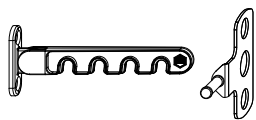


<b>12.5 Concealed turn locks 12 mm air gap</b>			<b>No</b>	<b>No</b> Tricoat
silver	lockable 9 mm offset	20	<b>101563</b> <sup>1</sup>	<b>106036</b> <sup>1</sup>
	lockable 13 mm offset	20	<b>101562</b> <sup>1</sup>	<b>106035</b> <sup>1</sup>
	tilt-stay key	50	<b>94079</b>	


<sup>1</sup> Box contents: Turn lock, bolt for turn lock, Sped-Form screw, tilt-stay key.



<b>12.6 MULTI VENT vent adjusters</b>			<b>No</b>	<b>No</b> Tricoat
traffic white RAL 9016		20	<b>12360</b>	
cream white RAL 9001		20	<b>101524</b>	
grey brown RAL 8019		20	<b>12361</b>	
white	packer for Multi-Vent cases 5°	100	<b>42509</b>	
	packer for Multi-Vent cases 15°	100	<b>42514</b>	



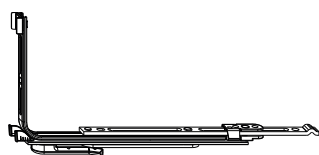
101671

12.7 Vent adjusters				No	No Tricoat
silver	right		50	<b>10890</b>	
	left		50	<b>10891</b>	
traffic white RAL 9016	right		50	<b>10137</b>	
	left		50	<b>10138</b>	
	left/right	to be attached on HARMONY handle	50	<b>101671</b>	
pearl light grey RAL 9022	left/right	to be attached on RHAPSODY handle	50	<b>101672</b>	
	left/right	to be attached on HARMONY handle	50	<b>101673</b>	
	left/right	to be attached on RHAPSODY handle	50	<b>101674</b>	
jet black RAL 9005	right		50	<b>12460</b>	
	left		50	<b>12461</b>	



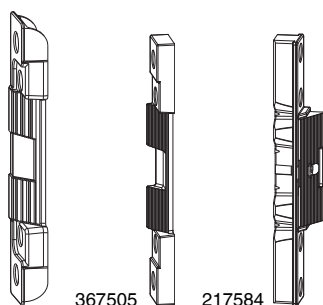
10892

12.8 Vent adjusters for 2-sashed windows				No	No Tricoat
silver	right		50	<b>10892</b>	
	left		50	<b>10893</b>	



209303


12.9 Vent adjuster for turn-only windows				No	No Tricoat
silver		9 mm offset/13 mm offset	20	<b>209303</b>	<b>236897</b>



367738

367505

217584

12.10 Turn-only hinge safety devices				No	No Tricoat
silver	turn-only hinge safety device - frame component for 4 mm air gap 9 mm offset		20	<b>368014</b> <sup>1,2</sup>	
	turn-only hinge safety device - frame component 4 mm air gap 13 mm offset		20	<b>367738</b> <sup>2,3</sup>	
	turn-only hinge safety device - frame component timber 18 mm rebate depth 9 mm offset and 22 mm rebate depth 13 mm offset		20	<b>367505</b>	<b>372584</b>
	turn-only hinge safety device - frame component hardware groove		20	<b>367722</b>	<b>372585</b>
	turn-only hinge safety device - sash component		20	<b>217584</b> <sup>4,5,6</sup>	<b>250195</b> <sup>4,5,6</sup>

<sup>1</sup> 18 mm milling depth.

<sup>2</sup> Routing length 120 mm.

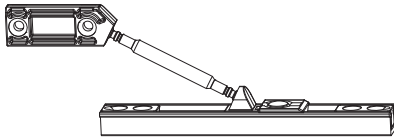
<sup>3</sup> 22 mm milling depth.

<sup>4</sup> For PVC and timber/alu profiles — see profile data sheets.

<sup>5</sup> Sash must have a Eurogroove in the sash component area.

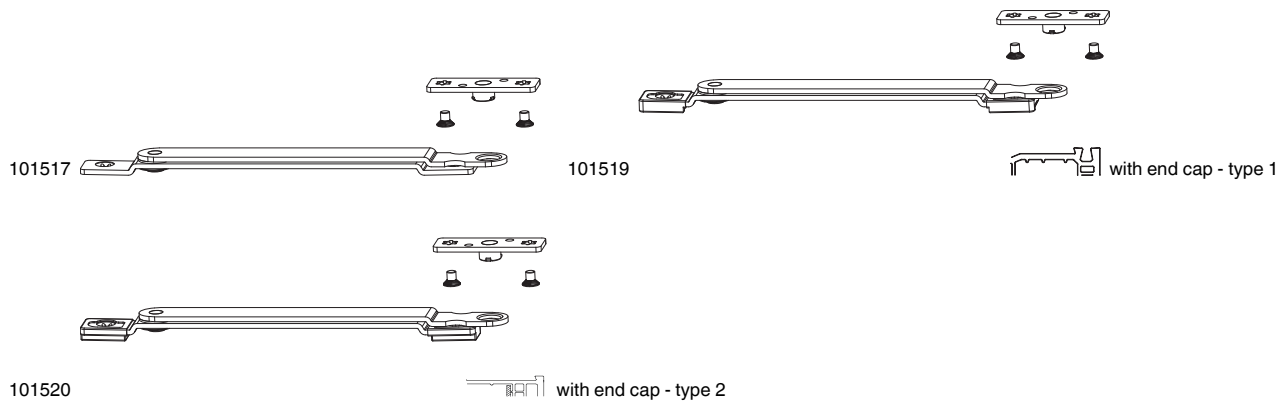
<sup>6</sup> Must be used for MACO basic security B and D.





214718

<b>12.11 Turn retarders</b>			<b>No</b>	<b>No</b> Tricoat
silver	concealed rotation inhibition timber	20	<b>214718</b>	
	concealed rotation inhibition PVC	20	<b>214716</b>	



101517

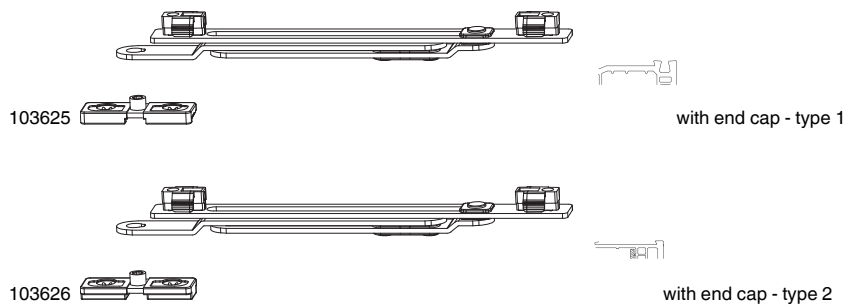
101519

101520

<b>12.12 Turn restrictions</b>					<b>No</b>	<b>No</b> Tricoat
silver	turn restriction timber Euro-rebate	260 - 1.300	80	20	<b>101517<sup>1,2</sup></b>	<b>106012<sup>1,2</sup></b>
	turn restriction timber hardware groove	260 - 1.300	80	20	<b>101518<sup>1,2</sup></b>	
	turn restriction PVC / TV PVC end cap - type 1	260 - 1.300	80	20	<b>101519<sup>1,2</sup></b>	
	turn restriction PVC / TV PVC end cap - type 2	260 - 1.300	80	20	<b>101520<sup>1,2</sup></b>	
	turn restriction MM for half round windows	505 - 1.300	80	20	<b>103080</b>	
	packer for turn restriction sash component for Eurogroove			100	<b>40456</b>	
	screw for turn restriction for half round window			100	<b>101655</b>	

<sup>1</sup> In combination with horizontal corner support, the application area increases by 250 mm.

<sup>2</sup> Not for use in combination with rebated corner support without rebate-leg screw fixing.



103625

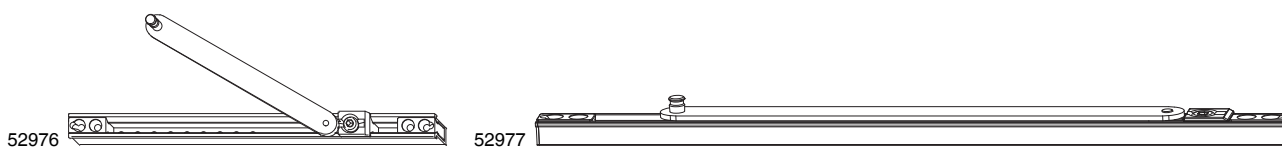
103626

<b>12.13 Turn restrictions MULTI POWER</b>					<b>No</b>	<b>No</b> Tricoat
silver	timber Euro-rebate	330 - 1.400	150	20	<b>103623<sup>1</sup></b>	<b>106013<sup>1</sup></b>
	timber hardware groove	330 - 1.400	150	20	<b>103624<sup>1</sup></b>	
	PVC with end cap - type 1	330 - 1.400	150	20	<b>103625<sup>1</sup></b>	<b>106014<sup>1</sup></b>
	PVC with end cap - type 2	330 - 1.400	150	20	<b>103626<sup>1</sup></b>	

<sup>1</sup> With horizontal corner element, application range from 560 mm.



## 12.14 Opening restrictors



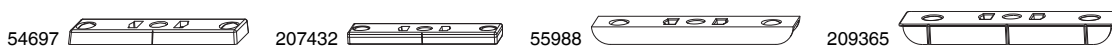
12.14.1 Opening restrictors		L			No	No Tricoat
silver	opening restrictor with brake arm length 145 mm	244	280 - 380	20	52976 <sup>1,2</sup>	236894 <sup>1,2</sup>
	opening restrictor with brake arm length 210 mm	244	360 - 449	20	216367 <sup>1,2</sup>	
	opening restrictor with brake arm length 250 mm	244	381 - 470	20	52978 <sup>2</sup>	236895 <sup>2</sup>
		333	471 - 1.650	20	52977 <sup>2,3</sup>	236893 <sup>2,3</sup>
	opening restrictor with brake arm length 274 mm	333	480 - 1.800	20	214328 <sup>2,4</sup>	236896 <sup>2,4</sup>

<sup>1</sup> Crop the corner support at the notch.

<sup>2</sup> In combination with horizontal corner support, the application area increases by 250 mm.

<sup>3</sup> In connection with MULTI POWER application range 470 - 1400 mm.

<sup>4</sup> In connection with MULTI MAMMUT application range from 695 mm.



12.14.2 Frame components for opening restrictors		L		No	No Tricoat
silver	frame component for opening restrictor for PVC	78	20	10757	106016
	frame component for opening restrictor Euro-rebate 18 mm angled screw-fixing	80	50	54697	236901
	frame component for opening restrictor Euro-rebate 20 mm angled screw-fixing	80	50	207432	236907
	frame component for opening restrictor for 4 mm air gap 9 mm offset angled screw-fixing	90	50	55988 <sup>1,2</sup>	236904 <sup>1,2</sup>
	frame component for opening restrictor for 4 mm air gap 13 mm offset	90	100	209365 <sup>2,3</sup>	

<sup>1</sup> 18 mm milling depth.

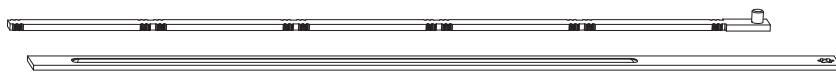
<sup>2</sup> Routing length 90 mm.

<sup>3</sup> 22 mm milling depth.

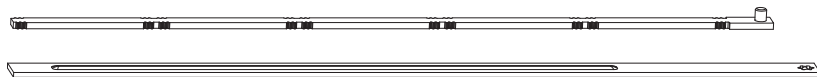
## 12.15 Comfort adjusters



105428



105429



12.15.1 Comfort adjusters		L			No	No Tricoat
silver	parking brake arm length 145 mm size 1	250	566 - 800	20	<b>105428</b> <sup>1,2</sup>	
	parking brake arm length 250 mm size 2	250	660 - 1.800	20	<b>105429</b> <sup>1,3</sup>	

<sup>1</sup> Use sash lifter and mishandling device retrofittable for comfort adjuster item no. 370922!

<sup>2</sup> Sash rebate width only for corner support, not for rebated corner support!

<sup>3</sup> Sash rebate width for rebated corner support; 670 mm for MULTI POWER.

229225



228451



228785

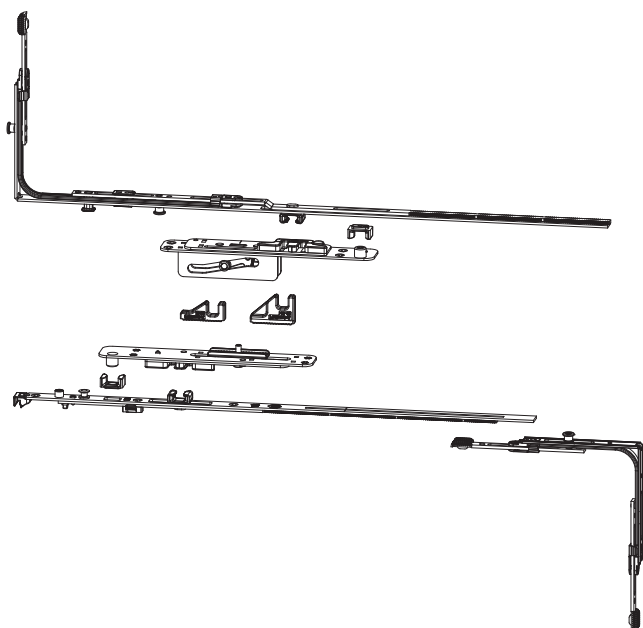


10757



12.15.2 Frame components for comfort adjusters					No	No Tricoat
silver	frame component for comfort adjuster for timber 12 mm air gap	angled screw-fixing	18 mm rebate depth	50	<b>229225</b>	
	frame component for opening restrictor for timber 12 mm air gap	angled screw-fixing	20 mm rebate depth and 24 mm rebate depth	50	<b>228451</b>	
	frame component for comfort adjuster for PVC	MULTI POWER		50	<b>228785</b>	
	frame component for opening restrictor for PVC			20	<b>10757</b>	<b>106016</b>





105359

12.16 MULTI SKY skylight fitting								
silver	right	13 mm offset	600 - 1.300	500 - 800	30	1	<b>105359</b> <sup>1,2</sup>	
	left	13 mm offset	600 - 1.300	500 - 800	30	1	<b>105360</b> <sup>1,3</sup>	

<sup>1</sup> **IMPORTANT:** For a right-hand side central sash, a left version of Multi Sky must be ordered and vice versa!

<sup>2</sup> Consisting of: transom kinematics top right, transom kinematics bottom right, turn-only hinge - sash part, croppable MM 600 SRW 430 - 600, corner element bottom horizontal, corner element MM with 1 i.S. SRW 320 - 1650, 2 piece location screw, connector plate distance 43 - 48 mm (for transom 51 - 56 mm).

<sup>3</sup> Consisting of: transom kinematics top left, transom kinematics bottom left, turn-only hinge - sash part, croppable MM 600 SRW 430 - 600, corner element bottom horizontal, corner element MM with 1 i.S. SRW 320 - 1650, 2 piece location screw, connector plate distance 43 - 48 mm (for transom 51 - 56 mm).

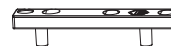
209774



215159



102301

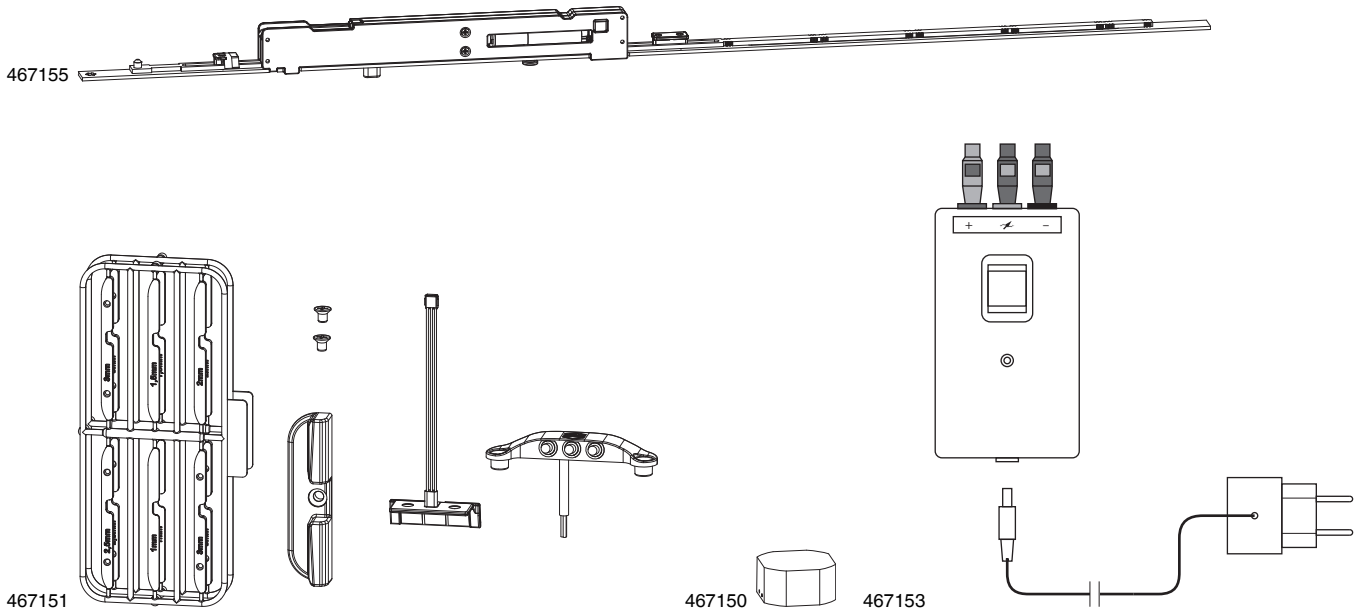


363605



12.17 SAFETY PIN fall protection						
silver		centre lock cable junction TR to MM	280 - 2.800	20	<b>206538</b>	
		bottom anti-unhinge safety device for PVC and timber		20	<b>209774</b> <sup>1</sup>	<b>236914</b> <sup>1</sup>
		top anti-unhinge device for PVC and timber, extendable, 1 i.S.		20	<b>215159</b>	<b>236915</b>
yellow n.11	right	base plate for anti-unhinge device angled screw-fixing with positioning pins for timber and PVC		20	<b>102301</b>	<b>106017</b>
	left	base plate for anti-unhinge device angled screw-fixing with positioning pins for timber and PVC		20	<b>102302</b>	<b>106067</b>
green brown RAL 8000		packer for PVC hinged plate 2 mm		50	<b>363605</b>	
		packer for PVC hinged plate 3 mm		50	<b>363606</b>	

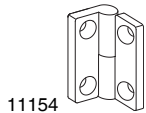
<sup>1</sup> Must be used from SRH 1850 mm!



<b>12.18 Components for E-hardware</b>			<b>No</b>	<b>No</b> Tricoat
E-hardware silver		1	<b>467155<sup>1,2</sup></b>	
current transmitter for E-hardware		1	<b>467151<sup>1</sup></b>	
power supply for E-hardware		1	<b>467150</b>	
activating device for E-hardware		1	<b>467153</b>	

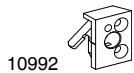
<sup>1</sup> Use only for 13 mm offset!

<sup>2</sup> For not circumferential central locking system maximum 60 kg sash weight, for circumferential central locking system maximum 80 kg!



11154

<b>T 12.19 Glazing-bar hinges for glazing-bar frame</b>			<b>No</b>	<b>No</b> Tricoat
white	right	50	<b>11472</b>	
	left	50	<b>11473</b>	
brown	right	50	<b>11154</b>	
	left	50	<b>11155</b>	

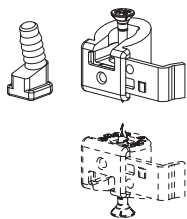


10992

<b>T 12.20 Glazing-bar catches for glazing-bar cross and glazing-bar frame</b>			<b>No</b>	<b>No</b> Tricoat
white	for 26 mm glazing-bar cross/glazing-bar frame	50	<b>11470<sup>1</sup></b>	
	for 33 mm glazing-bar cross	50	<b>11471</b>	
brown	for 22 mm glazing-bar cross/glazing-bar frame	50	<b>13130<sup>1</sup></b>	
	for 26 mm glazing-bar cross/glazing-bar frame	50	<b>11153<sup>1</sup></b>	
	for 33 mm glazing-bar cross	50	<b>10992</b>	

<sup>1</sup> Compatible with glazing-bar hinges.

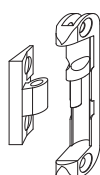




12387

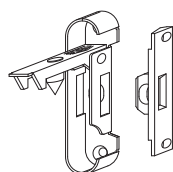
<b>T 12.21 Drill-in glazing-bar catches</b>			<b>No</b>	<b>No</b> Tricoat
white		50	<b>12388<sup>1</sup></b>	
brown		50	<b>12387<sup>1</sup></b>	

<sup>1</sup> 25 each left and right.



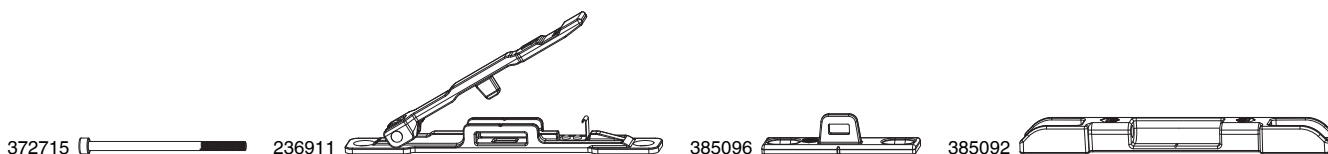
101251

<b>T 12.22 Universal coupling hinges</b>				<b>No</b>	<b>No</b> Tricoat
silver	with 2 mm air gap	40	50	<b>101248</b>	
	without air gap	40	50	<b>101251</b>	<b>106037</b>



101252



<b>T 12.23 Universal coupling catches</b>			<b>No</b>	<b>No</b> Tricoat
silver	with 2 mm air gap	50	<b>101250</b>	<b>106039</b>
	without air gap	50	<b>101252</b>	<b>106038</b>




385094

<b>12.24 Coupling hardware for aluminium coupling sash</b>			<b>No</b>	<b>No</b> Tricoat
stainless steel	shaft pin for coupling hinge	20	<b>372715<sup>1</sup></b>	
Tricoat-Evo	locking unit for alu coupling sash	20		<b>236911</b>
	frame component for lock for alu coupling sash	20		<b>385096</b>
	packer for frame component for alu coupling sash	20		<b>385089</b>
	coupling hinge for alu coupling sash	20		<b>385092<sup>1</sup></b>
	coupling hinge roll for alu coupling sash 15 mm high	20		<b>385093</b>
	coupling hinge roll for alu coupling sash 16 mm high	20		<b>385094</b>



<sup>1</sup> Please order screw for pin safety device item no. 104302 separately.

94022  44351  44350 

<b>T 12.25 Run-up blocks</b>					<b>No</b>	<b>No</b> Tricoat
silver	run-up block	4 mm air gap		500	<b>94022<sup>1</sup></b>	
			sash component	50	<b>44351<sup>1</sup></b>	
			frame component	50	<b>44350<sup>1</sup></b>	


<sup>1</sup> Only for Euro-rebate 20 mm rebate depth.

370252  369791 

<b>12.26 Run-up blocks for thresholds</b>					<b>W</b>	<b>L</b>		<b>No</b>	<b>No</b> Tricoat
silver	frame component		8	21,8	50	100	<b>370252<sup>1</sup></b>		
				23,5	50	100	<b>371009<sup>2</sup></b>		
				27,3	50	100	<b>371712<sup>3</sup></b>		
				28	50	100	<b>370390<sup>4</sup></b>		
				30	50	100	<b>372822<sup>5</sup></b>		
				33,9	50	100	<b>369788<sup>6</sup></b>		
grey F1	sash component	4 mm air gap			20	100	<b>369791</b>		
				6 mm air gap	20	100	<b>369790</b>		
				10 mm air gap	20	100	<b>369789</b>		

- <sup>1</sup> GKG
- <sup>2</sup> MACO TRANSIT
- <sup>3</sup> Schüco Living
- <sup>4</sup> Eifel TB
- <sup>5</sup> Gutmann Weser
- <sup>6</sup> VEKA

362918   106022   106028  

<b>12.27 Screws</b>		<b>Ø</b>	<b>L</b>		<b>No</b>	<b>No</b> Tricoat
silver	special drill screw Multi Power for timber and PVC Phillips 7.2 mm head	4,5	38	100	<b>362918</b>	<b>106029</b>
	special drill screw Multi Power for timber and PVC TX20 7.2 mm head	4,5	38	500	<b>367828</b>	<b>106027</b>
Tricoat-Evo	hardware bolt for PVC Phillips with drill bit 7 mm head	3,9	25	500		<b>106023</b>
			32	500		<b>106022</b>
			38	500		<b>106021</b>
	hardware bolt for timber and PVC Phillips 7 mm head	4,2	22	500		<b>106018</b>
			25	500		<b>106028</b>
			30	500		<b>106019</b>
			40	400		<b>106020</b>
	55	500		<b>106025</b>		

41823 

<b>12.28 E-style retaining ring for shaft 5 mm</b>					<b>No</b>	<b>No</b> Tricoat
blank				1.000	<b>41823</b>	

206692 

<b>12.29 Serrated carrier connector MM</b>					<b>No</b>	<b>No</b> Tricoat
silver				50	<b>206692<sup>1</sup></b>	

<sup>1</sup> Can also be supplied in quantities less than one packaging unit.



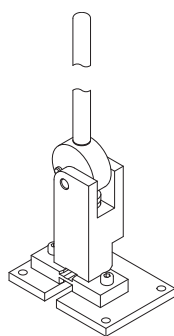
355920

<b>12.30 Clip-on bush for i.S. cam 3-sashed</b>		<b>No</b>	<b>No</b> Tricoat
silver	100	<b>355920</b>	

364686

<b>12.31 Faceplate strip cover</b>	<b>L</b>		<b>No</b>	<b>No</b> Tricoat
silver	1.400	10	<b>364686</b>	<b>385091</b>
	2.200	10	<b>364687</b>	

## 12.32 Hardware croppers

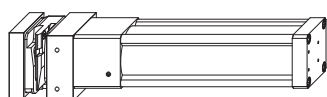


462516



463153

<b>12.32.1 Hand cropper/cropping aid for offset cut</b>		<b>No</b>	<b>No</b> Tricoat
set of cutting blade and punching tool for hand cropper MM 462516	1	<b>478324</b>	
manual fitting cutter MM Reiplinger	1	<b>462516</b>	
cropping aid for offset punch MULTI MATIC	1	<b>463153</b>	



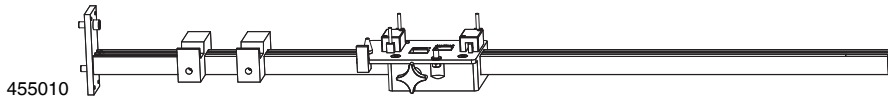
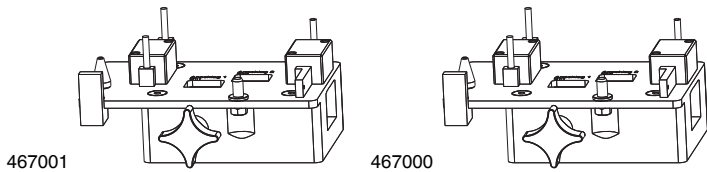
455011


<b>12.32.2 SOMATEC hardware croppers</b>		<b>No</b>	<b>No</b> Tricoat
SOMATEC hardware cropper with straight cut with accessories left	1	<b>465205<sup>1</sup></b>	
SOMATEC hardware cropper with straight cut with accessories right	1	<b>465206<sup>1</sup></b>	
SOMATEC hardware cropper MM with accessories left	1	<b>455008<sup>1</sup></b>	
SOMATEC hardware cropper MM with accessories right	1	<b>455009<sup>1</sup></b>	
SOMATEC hardware cropper MM without accessories left	1	<b>455011</b>	
SOMATEC hardware cropper MM without accessories right	1	<b>455012</b>	
SOMATEC hardware angle cropper MM without accessories left	1	<b>455457</b>	
SOMATEC hardware angle cropper MM without accessories right	1	<b>455458</b>	

<sup>1</sup> Accessories: filter and regulation unit, pedal, air-tube.




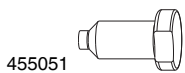
## 12.32.3 Accessories for SOMATEC hardware croppers



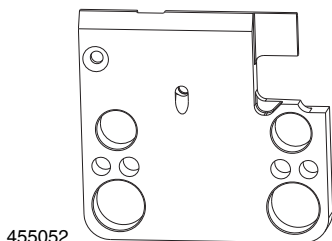
12.32.3.1 Fences		No	No Tricoat
stop for SOMATEC ruler left MM	1	467001	
stop for SOMATEC ruler right MM	1	467000	
fence for SOMATEC hardware cropper left MM 2.500	1	455010	
fence for SOMATEC hardware cropper right MM 2.500	1	455122	
support for fence MM	1	466850	




12.32.3.2 Cutting punches		No	No Tricoat
punch for SOMATEC hardware cropper 0006 right MM	1	455049	
punch for SOMATEC hardware cropper 0007 MM	1	455048	
punch for SOMATEC hardware cropper 0106 left MM	1	455050	



12.32.3.3 Hole-punch		No	No Tricoat
punching die for SOMATEC hardware cropper MM	10	455051	



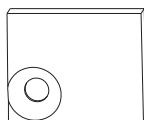
12.32.3.4 Female dies		No	No Tricoat
female die for SOMATEC hardware cropper 0001 left MM	1	455052	
female die for SOMATEC hardware cropper 0101 right MM	1	455053	





455054

12.32.3.5 Fibro springs		No	No Tricoat
Fibro spring for SOMATEC hardware cropper D=12x4x12, 90mm long, Shore MM	1	455054	
Fibro spring for SOMATEC hardware cropper D=32.5x13.5x23, 80mm long, Shore MM	1	455055	
Fibro spring for SOMATEC hardware cropper with straight cut MM	1	467066	



455056

12.32.3.6 Fibro insertions		No	No Tricoat
Fibro insertion for SOMATEC hardware cropper left MM	1	455056	
Fibro insertion for SOMATEC hardware cropper right MM	1	455057	

455059



466859



455058



12.32.3.7 Controls		No	No Tricoat
pressure regulating valve for SOMATEC hardware cropper MM	1	455059	
corner kit for pressure control MM	1	466859	
foot control for SOMATEC hardware cropper MM	1	455058	

## 13 Stackable pallets


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<b>13.1 T&amp;T drive gears</b>	<b>310</b>
13.1.1 T&T drive gears BS 15 FHH i.S.	310
13.1.2 T&T drive gear BS 15 VHH i.S.	310
13.1.3 T&T drive gears EH BS 15 FHH i.S.	310
13.1.4 T&T drive gears EH BS 6.5 FHH i.S.	310
<b>13.2 Corner elements</b>	<b>311</b>
13.2.1 Corner elements	311
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13.3.1 Centre locks	311
13.3.2 Faceplate extension	311
<b>13.4 Scissor stays</b>	<b>312</b>
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13.4.2 Rebated scissor stays VZ with night-vent	312
13.4.3 Scissor stay faceplates i.S. with night-vent	312
<b>13.5 French casement locks</b>	<b>312</b>
13.5.1 French casement drive gear for Eurogroove FHH	312








## 13 Stackable pallets


### 13.1 T&T drive gears






208442 


13.1.1 T&T drive gears BS 15 FHH i.S.								No	No Tricoat
silver	430	15	0	125	360 - 430	0	560	<b>210896</b>	
	660	15	0	190	431 - 660	0	560	<b>210897</b>	
	840	15	1	300	661 - 840	1	320	<b>208442</b>	
	1090	15	1	400	841 - 1.090	1	320	<b>204423</b>	
	1340	15	1	500	1.091 - 1.340	1	320	<b>204424</b>	






208443 

13.1.2 T&T drive gear BS 15 VHH i.S.						No	No Tricoat
silver		15	1	801 - 1.250	320	<b>208443</b>	

208444 

13.1.3 T&T drive gears EH BS 15 FHH i.S.							No	No Tricoat
silver		15	2	300	661 - 840	320	<b>208444</b>	
				400	841 - 1.090	320	<b>210900</b>	
				500	1.091 - 1.340	320	<b>210901</b>	

211435 

13.1.4 T&T drive gears EH BS 6.5 FHH i.S.							No	No Tricoat
silver		6,5	2	400	841 - 1.090	320	<b>211435</b>	
				500	1.091 - 1.340	320	<b>211436</b>	

## 13.2 Corner elements



208440

13.2.1 Corner elements					No	No Tricoat
silver	vertically extendable with 1 i.S.		750 - 2.800	1.100	<b>204408</b>	<b>232869</b>
	vertically extendable without i.S. cams		750 - 2.800	1.100	<b>215247</b>	<b>232876</b>
	with 1 i.S.	320 - 1.800	360 - 2.800	1.100	<b>204407</b>	<b>232868</b>
	with 2 i.S.	320 - 1.800	360 - 2.800	1.000	<b>208440</b>	
	horizontally extendable with 1 i.S.	320 - 1.800	360 - 2.800	1.100	<b>204409</b>	<b>232870</b>
	with 1 VZ	320 - 1.800	360 - 2.800	1.100	<b>216934</b>	
	for variable drive gear horizontally extendable with 1 i.S.	320 - 1.800	470 - 2.800	1.000	<b>204410</b>	

## 13.3 Centre locks and faceplate extensions



204418

13.3.1 Centre locks			No	No Tricoat
silver	centre lock MM 1280	900	<b>204418</b>	
	centre lock one piece MM 1280	560	<b>216941</b>	
	centre lock extendable MM 1280V	900	<b>204417</b>	
	centre lock MM 1500	750	<b>204419</b>	
	centre lock one piece MM 1500	450	<b>216942</b>	
	centre lock extendable MM 1500V	540	<b>204420</b>	








214760

13.3.2 Faceplate extension			No	No Tricoat
silver	faceplate extension MM, extendable	235 1 1.200	<b>214760</b>	







## 13.4 Scissor stays








13.4.1 Rebated scissor stays VZ and i.S.							
silver		600	0	401 - 600	560	<b>216938</b>	
		800	0	601 - 800	480	<b>216939</b>	
	with 1 i.S.	1050	1	801 - 1.050	480	<b>216416</b>	



13.4.2 Rebated scissor stays VZ with night-vent							
silver	right	600		401 - 600	560	<b>218064</b>	
	left	600		401 - 600	560	<b>218065</b>	
	right	800		601 - 800	480	<b>218066</b>	
	left	800		601 - 800	480	<b>218067</b>	



13.4.3 Scissor stay faceplates i.S. with night-vent							
silver	right	600	0	401 - 600	720	<b>204443</b>	
	left	600	0	401 - 600	720	<b>204444</b>	
	right	800	0	601 - 800	630	<b>204445</b>	
	left	800	0	601 - 800	630	<b>204446</b>	
	right	1050	1	801 - 1.050	450	<b>204447</b>	
	left	1050	1	801 - 1.050	450	<b>204448</b>	
	right	1300	1	1.051 - 1.300	320	<b>204449</b>	
	left	1300	1	1.051 - 1.300	320	<b>204450</b>	

## 13.5 French casement locks



13.5.1 French casement drive gear for Eurogroove FHH							
silver	for 1 i.S.	1340	500	1.091 - 1.340	320	<b>204426</b>	

## 14 Jigs, tools and adjusting screws

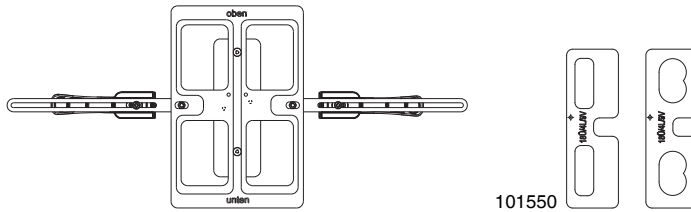
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14.1	Jigs timber 4 mm air gap	314
14.2	Jigs timber 12 mm air gap	317
14.3	Jigs timber 4 mm + 12 mm air gap	319
14.4	Jigs PVC	320
14.5	Jigs timber and PVC	322
14.6	Tools and adjustment keys	327



## 14 Jigs, tools and adjusting screws

### 14.1 Jigs timber 4 mm air gap



206751

101550

#### 14.1.1 Routing jigs for pivot posts and scissor stay hinges DT 4 mm air gap

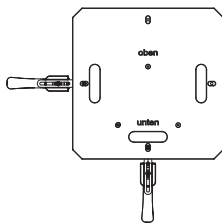


No

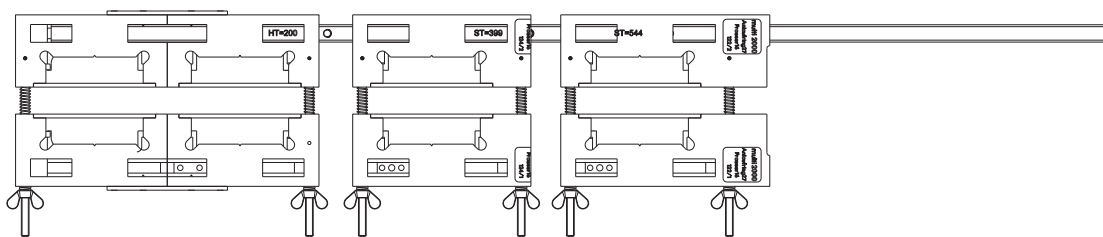
No  
Tricoat

routing frame for pivot post and scissor stay hinge	timber	DT FR16/AR27		1	206751 <sup>1</sup>	
routing jig insert for pivot post and scissor stay hinge	timber	DT FR16/AR27	4 air gap/15 rebate leg	1	101551	
			4 air gap/18 rebate leg/9 offset	1	101550	
			4 air gap/18 rebate leg/13 offset	1	102890	

<sup>1</sup> Order routing plates item no. 101551, item no. 101550, item no. 102890 separately.



214813



214152

#### 14.1.2 Routing jigs for drive gears MM/MM-KS 4 mm air gap



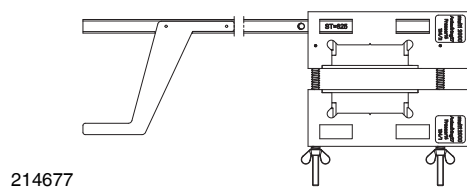
No

No  
Tricoat

Routing template for drive gear FHH MM & corner element	i.S.	4 mm air gap		1	214813 <sup>1</sup>	
Routing template for drive gear FHH MM/MMKS		4 mm air gap	661 - 1.090	1	214152	
			841 - 1.340	1	214153	
			1.341 - 1.700	1	214154	
			1.701 - 2.200	1	214155	
			door catch	4 mm air gap	1.701 - 2.200	1

<sup>1</sup> Corner element item no. 222215.





## 14.1.3 Positioning jigs and routing jigs for centre locks and scissor stays MM/MM-KS 4 mm air gap

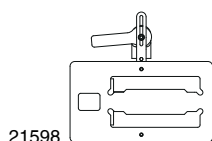


**No**

**No**  
Tricoat

striker positioning jig with 48 mm retainer	4 mm air gap	630 - 1.300	1	<b>214669<sup>1</sup></b>
Routing template for bottom centre lock MM	4 mm air gap	801 - 1.500	1	<b>214677</b>
Routing template for bottom centre lock MMKS	4 mm air gap	801 - 1.500	1	<b>214163</b>
Routing template for hinge side centre lock MM	4 mm air gap	801 - 2.200	1	<b>214676</b>
Routing template for hinge side centre lock MMKS	4 mm air gap	801 - 2.450	1	<b>214162</b>
Routing template for hinge side centre lock MM/MMKS	4 mm air gap	801 - 1.500	1	<b>214161</b>

<sup>1</sup> Top 12 mm air gap.



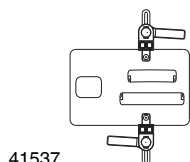
## 14.1.4 Routing jigs for 2-sashed windows for drive gears, centre locks and shootbolts MM/MM-KS 4 mm air gap



**No**

**No**  
Tricoat

Routing template for 2-sashed windows	timber shootbolt FR16/AR27	4 mm air gap	1	<b>21598</b>	
Routing template for drive gear FHH MM/MMKS	2-sashed	4 mm air gap	841 - 1.340	1	<b>214157</b>
			1.341 - 1.700	1	<b>214158</b>
			1.701 - 2.200	1	<b>214159</b>
Routing template for bottom centre lock MM	2-sashed	4 mm air gap	801 - 1.500	1	<b>214679</b>
			door catch 2-sashed	4 mm air gap	1.701 - 2.200
Routing template for bottom centre lock MMKS	2-sashed	4 mm air gap	801 - 1.500	1	<b>214164</b>



## 14.1.5 Routing jigs for half round windows 4 mm air gap

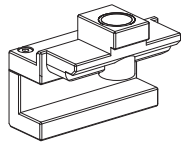


**No**


**No**  
Tricoat

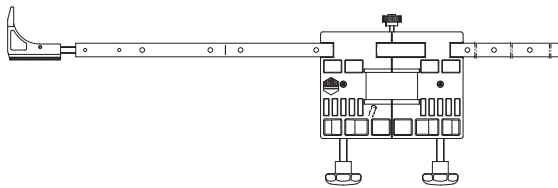
Routing template for half round windows MT/MM	timber stabilizing scissor stay case and strikers	4 mm air gap	1	<b>41537</b>
Routing template for half round scissor stay MT/MM	timber	4 mm air gap	1	<b>28337</b>






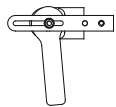
214542

<span style="font-size: 1.2em; font-weight: bold;">T</span> <b>14.1.6 Drilling jigs for compression devices 4 mm air gap</b>							<span style="font-size: 1.2em; font-weight: bold;">No</span> <small>Tricoat</small>
drilling jig for compression device	timber	drill-in	9 mm offset	4 mm air gap	1	<b>23871</b>	
			13 mm offset	4 mm air gap	1	<b>214542</b>	

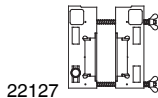


28377

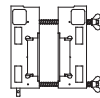
<span style="font-size: 1.2em; font-weight: bold;">T</span> <b>14.1.7 Routing jig for intermediate drive gears 4 mm air gap</b>							<span style="font-size: 1.2em; font-weight: bold;">No</span> <small>Tricoat</small>
Routing template for intermediate drive gear	timber	FR16/AR27/BO12		4 mm air gap / 15 mm rebate leg	1	<b>28377</b>	




11195

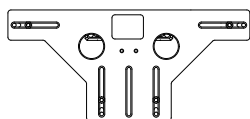


22127



<span style="font-size: 1.2em; font-weight: bold;">T</span> <b>14.1.8 Replacement parts and single components for jigs 4 mm air gap</b>							<span style="font-size: 1.2em; font-weight: bold;">No</span> <small>Tricoat</small>
clamp for routing jig	timber	2 pcs. with screws			10	<b>11195</b>	
routing jig 122/1+2	timber	replacement part for routing jig		4 mm air gap	1	<b>22127</b>	
routing jig 123/1+2	timber	replacement part for routing jig		4 mm air gap	1	<b>20924</b>	
routing jig 124/1+2	timber	replacement part for routing jig		4 mm air gap	1	<b>20925</b>	
routing jig 125/1+2	timber	replacement part for routing jig		4 mm air gap	1	<b>20926</b>	

## 14.2 Jigs timber 12 mm air gap



20890

### 14.2.1 Routing jig for pivot posts and scissor stay hinges DT 12 mm air gap

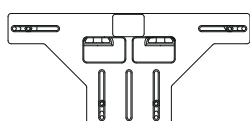


No

No  
Tricoat

Routing template for pivot post and scissor stay hinge	timber	DT FR34/AR40	12 mm air gap / 18 mm rebate leg + 12 mm air gap / 20 mm rebate leg	1	20890 <sup>1</sup>
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<sup>1</sup> Replacement part and single component available.



23957

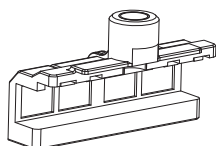
### 14.2.2 Routing jig for scissor stay hinges for angled windows DT 12 mm air gap



No

No  
Tricoat

Routing template for angled window scissor stay hinge	timber	DT FR34/AR40	12 mm air gap / 18 mm rebate leg + 12 mm air gap / 20 mm rebate leg	1	23957
---	--------	--------------	--	---	-------



22482

### 14.2.3 Drilling jigs for compression devices 12 mm air gap



No

No  
Tricoat

striker positioning jig for compression device	timber	drill-in	sash component	1	29489
drilling jig for compression device	timber	drill-in	12 mm air gap 9 mm offset	1	22482
			frame components 12 mm air gap 9 mm offset	1	29490
			Euro-rebate 24 mm rebate depth	1	206881
			13 mm offset	1	207300



212949

### 14.2.4 Drilling jigs for Safety Pin 12 mm air gap

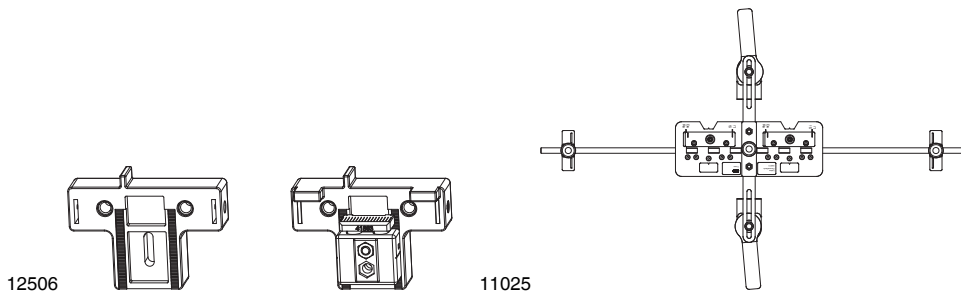



No

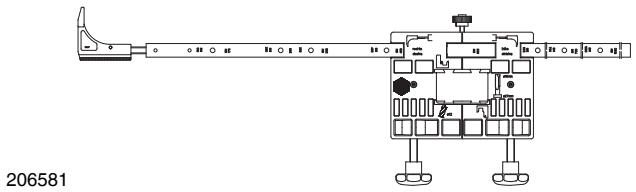
No  
Tricoat


drilling jig for safety pin	timber		Euro-rebate 24 mm rebate depth 13 mm offset	1	212949
-----------------------------	--------	--	--	---	--------






<b>T 14.2.5 Drilling jigs for 3-sashed windows 12 mm air gap</b>					<b>No</b>	<b>No</b> Tricoat
drilling jig for 3-sashed turn-only hinge	timber			1	12506	
drilling jig for multi-sash centre frame hinge	timber			1	11025	

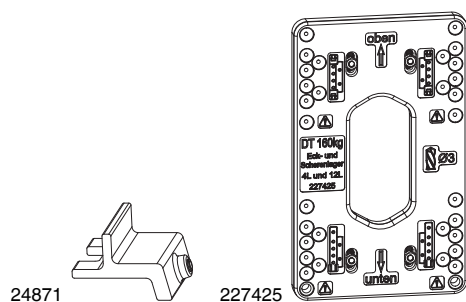


<b>T 14.2.6 Routing jigs for intermediate drive gears 12 mm air gap</b>					<b>No</b>	<b>No</b> Tricoat
routing template for intermediate drive gear	timber	FR16/AR27/BO12	9 mm offset	12 mm air gap / 18 mm rebate leg + 12 mm air gap / 20 mm rebate leg	1	28376
			13 mm offset	12 mm air gap / 18 mm rebate leg + 12 mm air gap / 20 mm rebate leg	1	206581






<b>T 14.2.7 Replacement parts and single components for jigs 12 mm air gap</b>					<b>No</b>	<b>No</b> Tricoat
stop piece DT160		18 mm high		20	370313	

## 14.3 Jigs timber 4 mm + 12 mm air gap



### T 14.3.1 Drilling jigs

				 Tricoat
drilling jig for glazing-bar catch	timber	10	<b>24871</b>	
drilling jig for pivot post and scissor stay hinge DT160	4 mm air gap / 12 mm air gap	1	<b>227425</b>	

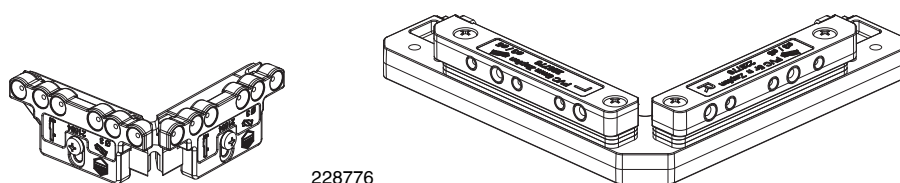


## 14.4 Jigs PVC

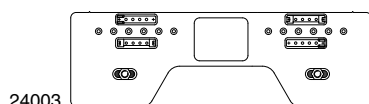


<b>P 14.4.1 Drilling jigs for pivot posts and scissor stay hinges</b>				<b>No</b>	<b>No</b> Tricoat
drilling jig for pivot post and scissor stay hinge	PVC	with 3 mm pin	1	<b>21958<sup>1</sup></b>	
		with 7 mm pin	1	<b>21694<sup>1</sup></b>	

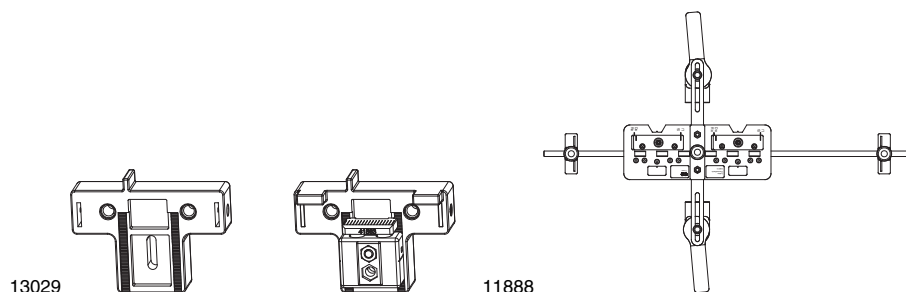
<sup>1</sup> Replacement part and single component available.



<b>P 14.4.2 Drilling jigs for corner supports</b>				<b>No</b>	<b>No</b> Tricoat
drilling jig for corner support	PVC	with 3 mm pin	1	<b>21564</b>	
		Design Multi Mammut	1	<b>229224</b>	
		with 5 mm supporting pins	1	<b>21562</b>	
		Design Multi Mammut	1	<b>228776</b>	
	5° angle	with 5 mm supporting pins	1	<b>23279</b>	
		MULTI MAMMUT	1	<b>228043</b>	

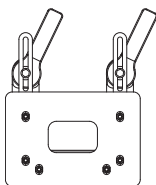


<b>P 14.4.3 Drilling jigs for pivot posts and scissor stay hinges for angled windows</b>				<b>No</b>	<b>No</b> Tricoat
drilling jig for angled window	PVC	with 3 mm pin	1	<b>24003</b>	
scissor stay hinge		with 7 mm pin	1	<b>24004</b>	



<b>P 14.4.4 Drilling jigs for 3-sashed windows</b>				<b>No</b>	<b>No</b> Tricoat
drilling jig for 3-sashed turn-only hinge	PVC		1	<b>13029</b>	
drilling jig for multi-sash centre frame hinge	PVC	with 3 mm pin	1	<b>11888</b>	
		with 7 mm pin	1	<b>11889</b>	
		drilling-hole pattern 11.5/5/23.5	1	<b>11888</b>	
		drilling-hole pattern 11.5/5/23.5	1	<b>11889</b>	

# Jigs, tools and adjusting screws



202641

## 14.4.5 Jig for intermediate drive gears



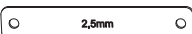

No

No  
Tricoat

routing template for intermediate drive gear    frontal

1

202641

104941    6x   2x

## **P** 14.4.6 Replacement parts and single components for jigs PVC



No

No  
Tricoat

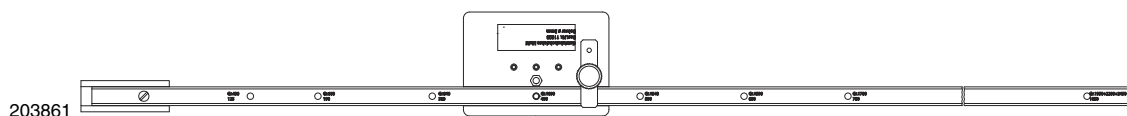
silver    packers for drilling jig corner support PVC MULTI MAMMUT

1

104941



## 14.5 Jigs timber and PVC



203861

### 14.5.1 Jigs for drive gear holes MM/MM-KS



**No**

**No**  
Tricoat

drilling jig for drive gear drill-hole MM	for 3 mm drillbits	1	<b>203861</b>
	for 3 mm and 12 mm drill bit	1	<b>203862</b>
drilling jig for lockable door espagnolettes BS 25-50 mm	profile width max. 110 mm	1	<b>214634</b>

### 14.5.2 Striker plate jigs timber 12 mm air gap and PVC



204773

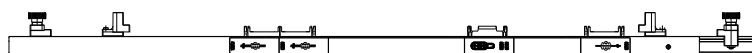
#### 14.5.2.1 Striker plate jigs for drive gears FHH MM/MM-KS



**No**

**No**  
Tricoat

striker positioning jig for drive gear FHH MM	with 48 mm retainer	431 - 660	1	<b>204773</b>
		661 - 1.340	1	<b>204774</b>
		1.341 - 1.700	1	<b>204775</b>
	for doors	1.701 - 2.450	1	<b>204776</b>



206049

#### 14.5.2.2 Striker plate jigs for drive gears VHH MM/MM-KS



**No**

**No**  
Tricoat

striker positioning jig for drive gear MM	with 48 mm retainer	variable (centred)	1.250 - 1.750	1	<b>206049</b>
			1.751 - 2.250	1	<b>206067</b>



204771

#### 14.5.2.3 Striker plate jigs for centre locks and scissor stays MM/MM-KS



**No**

**No**  
Tricoat

striker positioning jig for centre lock and scissor stay MM	with 48 mm retainer		260 - 1.500	270 - 2.000	1	<b>204771</b>
striker positioning jig for centre lock MM	with 48 mm retainer	horizontal	801 - 1.500		1	<b>204772</b>
striker positioning jig scissor stay	with 48 mm retainer	MULTI MAMMUT	601 - 1.500		1	<b>213310</b>
striker positioning jig for bottom centre lock MM	with 50 mm retainer	i.S.	451 - 1.650		1	<b>229783</b>
striker positioning jig for hinge side centre lock MM	with 50 mm retainer	i.S.		360 - 1.450	1	<b>229782</b>
				1.451 - 2.800	1	<b>229785</b>



# Jigs, tools and adjusting screws



206260

<b>14.5.2.4 Striker plate jigs for 2-sashed centre locks MM/MM-KS</b>					<b>No</b>	<b>No</b> Tricoat
striker positioning jig for centre lock MM	2-sashed			1	<b>206260</b>	
striker positioning jig for centre deadbolt striker plate MMKS	2-sashed			1	<b>213865</b>	



210983

<b>14.5.2.5 Striker plate jigs for 2-sashed windows for drive gears FHH Eurogroove MM/MM-KS</b>						<b>No</b>	<b>No</b> Tricoat
striker positioning jig for drive gear FHH MM	for striker plate 48 mm	2-sashed	for Eurogroove	431 - 1.340	1	<b>210983</b>	
	for striker plate 68 mm	2-sashed	for Eurogroove	431 - 1.340	1	<b>209954</b>	
	for striker plate 48 mm	2-sashed	for Eurogroove	1.341 - 1.700	1	<b>210984</b>	
	for striker plate 68 mm	2-sashed	for Eurogroove	1.341 - 1.700	1	<b>209955</b>	
	for striker plate 48 mm	2-sashed	for Eurogroove	1.701 - 2.450	1	<b>210985</b>	
	for striker plate 68 mm	2-sashed	for Eurogroove	1.701 - 2.450	1	<b>209956</b>	

## 14.5.3 Striker plate jigs timber 12 mm air gap and PVC EH



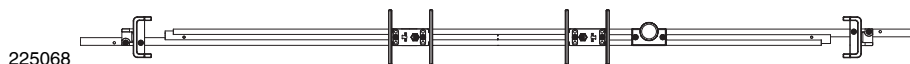
224959

<b>14.5.3.1 Striker plate jigs for drive gears FHH EH MM</b>						<b>No</b>	<b>No</b> Tricoat
striker positioning jig for drive gear FHH MM	with 50 mm retainer	EH		661 - 1.340	1	<b>224959</b>	
				1.341 - 1.700	1	<b>224960</b>	
				1.701 - 2.450	1	<b>224961</b>	



225022

<b>14.5.3.2 Striker plate jigs for centre locks and scissor stays EH MM</b>							<b>No</b>	<b>No</b> Tricoat
striker positioning jig for scissor stay MM	with 50 mm retainer	EH	480 - 1.650		1	<b>225022</b>		
striker positioning jig for bottom centre lock MM	with 50 mm retainer	EH	480 - 1.650		1	<b>225032</b>		
striker positioning jig for hinge side centre lock MM	with 50 mm retainer	EH	480 - 1.340		1	<b>225038</b>		
		EH	1.341 - 1.950		1	<b>225059</b>		
			1.951 - 2.600		1	<b>225060</b>		

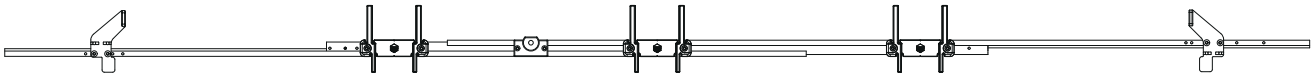


225068

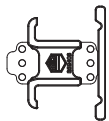
<b>14.5.3.3 Striker plate jigs for 2-sashed centre locks EH MM</b>					<b>No</b>	<b>No</b> Tricoat
striker positioning jig for bottom centre lock MM	with 50 mm retainer	2-sashed	EH	1	<b>225068</b>	
striker positioning jig for top centre lock MM	with 50 mm retainer	2-sashed	EH	1	<b>225069</b>	



57247

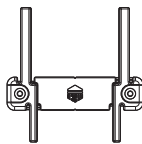


<b>14.5.4 Jigs for compression devices</b>					<b>No</b>	<b>No</b> Tricoat
drilling jig for compression device	with positioning jig-rod	surface-mounted	1	<b>11029</b>		
striker positioning jig for compression device		concealed ES+TV sash and frame component	1	<b>57247</b>		



359408

<b>T 14.5.5 Jigs for single components, sash lifter brackets timber</b>					<b>No</b>	<b>No</b> Tricoat
lifting component	timber	Euro-rebate 24 mm rebate depth 13 mm offset	20	<b>359408</b>		
retainer MM		Euro-rebate 9 mm offset	20	<b>364241</b>		



361815

<b>14.5.6 Jig for single components, striker plate brackets compression device</b>					<b>No</b>	<b>No</b> Tricoat
striker plate retainer for compression device	timber	concealed ES+TV sash and frame component	1	<b>361815</b>		



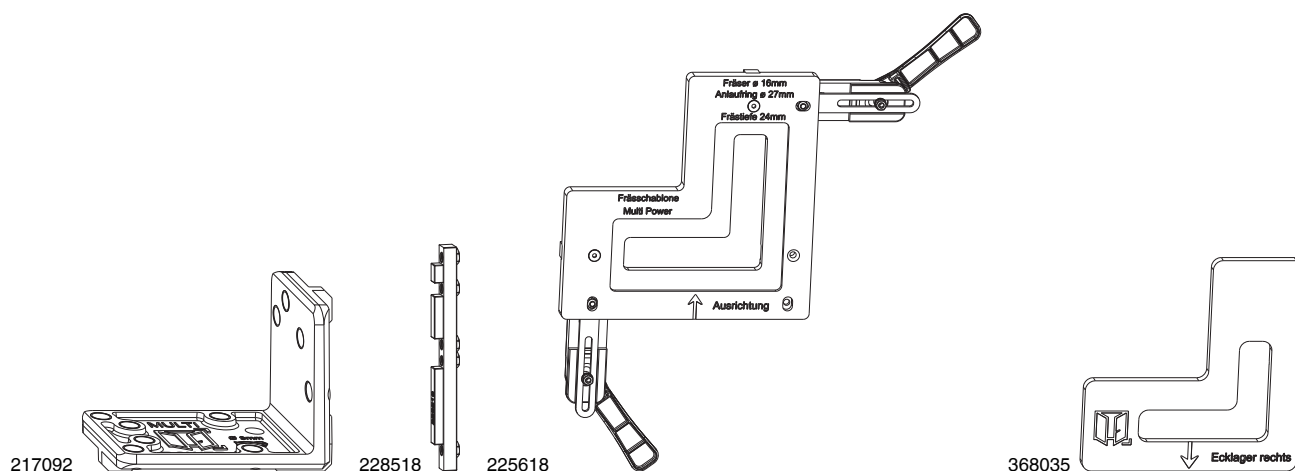
40116

<b>14.5.7 Jigs for single components, striker plate brackets</b>					<b>No</b>	<b>No</b> Tricoat
striker plate retainer		for striker plate 48 mm	10	<b>40116</b>		
		with long stop	1	<b>441296<sup>1</sup></b>		
timber		for striker plate 68 mm i.S.	1	<b>13318</b>		
		for striker plate 48 mm	Euro-rebate 24 mm rebate depth 13 mm offset	20	<b>359407</b>	
		for striker plate 68 mm i.S.	Euro-rebate 24 mm rebate depth 13 mm offset	20	<b>359410</b>	
			Euro-rebate 9 mm offset	20	<b>359409</b>	
		for striker plate 34943	Euro-rebate	10	<b>40107</b>	
		for striker plate 34980	Euro-rebate	20	<b>41272</b>	
PVC		for striker plate 50 mm i.S.	10	<b>43702<sup>2</sup></b>		

<sup>1</sup> Striker plate 48 mm and sash lifter MM PVC.

<sup>2</sup> Striker plate rear-engaging

# Jigs, tools and adjusting screws



## 14.5.8 Drilling and routing jigs for MULTI POWER

					<b>No</b>	<b>No</b> Tricoat
drilling jig for pivot post and scissor stay hinge	right		FT24	1	<b>217092</b>	
			groove 10/14 Heroal	1	<b>219539</b>	
	left		FT24	1	<b>217093</b>	
			groove 10/14 Heroal	1	<b>219540</b>	
	right/left		FT30	1	<b>217094</b>	
drilling jig for pivot post	right/left	for threshold	PVC rebate depth 24/30 mm	1	<b>227810</b>	
drilling jig for load transfer				1	<b>228518</b>	
	right	for threshold	FT24	1	<b>229835</b>	
	left	for threshold	FT24	1	<b>229836</b>	
	right/left	for threshold	FT24/30 and FT30	1	<b>229837</b>	
routing frame				1	<b>225618</b> <sup>1,2</sup>	
routing jig insert for 3-sashed turn-only hinge	right/left			1	<b>368094</b>	
routing jig insert for pivot post	right/left			1	<b>368035</b>	
routing jig insert for scissor stay hinge	right/left			1	<b>368036</b>	

<sup>1</sup> Replacement part and single component available.

<sup>2</sup> Order routing jig for pivot post, scissor stay hinge or 3-sash turn-only hinge (frame part) separately.



## 14.5.9 Drilling and routing jigs for MULTI MAMMUT

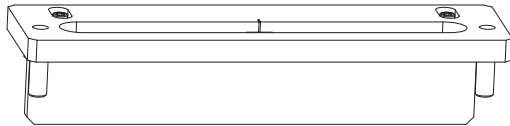
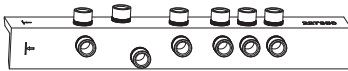
					<b>No</b>	<b>No</b> Tricoat
drilling jig for pivot post and scissor stay hinge	right		MULTI MAMMUT	1	<b>213096</b>	
	left		MULTI MAMMUT	1	<b>213097</b>	
routing jig for corner support & rebated scissor stay support arm	timber		MULTI MAMMUT	1	<b>213099</b>	



## 14.5.10 Drilling and routing jigs for turn locks and MULTI VENT

					<b>No</b>	<b>No</b> Tricoat
drilling jig for turn lock		self-closing	timber/PVC	10	<b>40157</b>	
drilling jig for Multi-Vent tilt restrictor			timber/PVC/alu-timber	1	<b>42505</b>	
routing template for turn lock MT/MM		concealed		1	<b>212591</b>	

## Jigs, tools and adjusting screws



104717

### 14.5.11 Drilling and routing jig for E-Hardware



No

No  
Tricoat

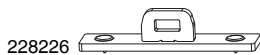
drilling and routing jig set for E-hardware

surface-mounted

12 air gap/20 rebate leg/13 offset

1

104717



### 14.5.12 Marking jig for alu front profiles



No

No  
Tricoat

marking jig for frame component for alu coupling sash

5

228226



229643

### 14.5.13 Marking jig for i.S. cam



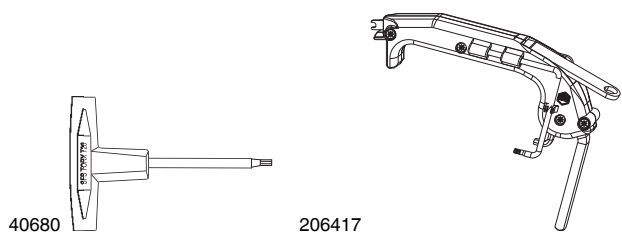
No

No  
Tricoat

marking jig for i.S. cam

10

229643



40680

206417

## 14.6 Tools and adjustment keys



**No**

**No**  
Tricoat

universal access key	20	<b>40720</b>	
adjusting spanner/key allen key, bent twice, 145 mm long SW 4	50	<b>454888</b>	
adjusting spanner/key allen key, bent twice, 75 mm long SW 4	50	<b>41017</b>	
adjusting spanner/key for locking cams and scissor stays	50	<b>20947</b>	
adjusting spanner/key for i.S. cams, bent twice, 145 mm long TX 15	50	<b>465776</b>	
adjusting spanner/key for i.S. cams, bent twice, 75 mm long TX 15	50	<b>44192</b>	
adjusting spanner/key for i.S. cams and striker plates, TX 15 and SW 4	100	<b>43647</b>	
pin pull-handle for rebated scissor stay TX 20	50	<b>40680</b>	
MACO allen key for MULTI VENT SW 2.5	100	<b>24239</b>	
scriber	100	<b>42465</b>	
multifunctional key	20	<b>206417</b>	
key for scissor stay hinge pin	20	<b>28620</b>	



## Jigs, tools and adjusting screws

## 15 MACO Tronic

---

<b>15.1</b>	<b>Window monitoring</b>	<b>330</b>
15.1.1	Sash components for locking monitoring	330
15.1.2	Frame components/sensors for locking monitoring	332
15.1.3	Accessories for window monitoring	334

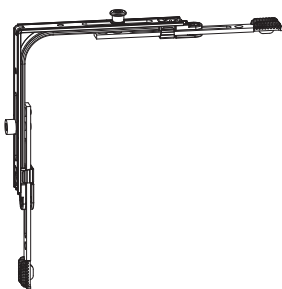


**15 MACO Tronic**

**15.1 Window monitoring**

**15.1.1 Sash components for locking monitoring**

**15.1.1.1 Corner elements with magnetic cam**



206190

<b>15.1.1.1.1 Corner element standard with magnetic cam</b>					<b>No</b>	<b>No</b> Tricoat
silver	with 1 i.S. and 1 magnetic cam	320 - 1.650	360 - 2.450	50	<b>206190</b>	<b>232865</b>



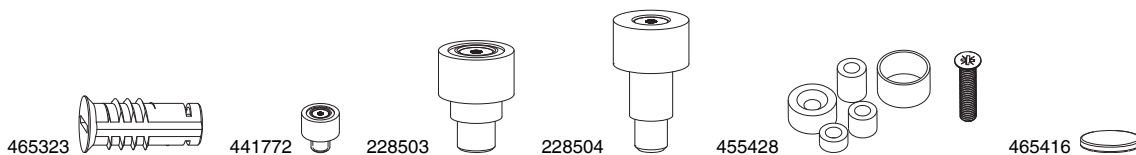
228493

<b>15.1.1.1.2 Corner element vertical with magnetic cam</b>				<b>No</b>	<b>No</b> Tricoat
silver	vertically extendable with 1 magnetic cam	750 - 2.450	50	<b>228493</b>	<b>232885</b>



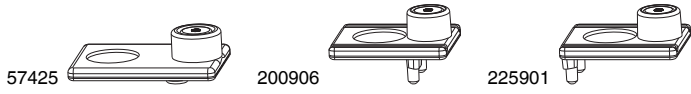
201755


<b>15.1.1.2 Faceplate extension MM, extendable with magnetic cam</b>			<b>No</b>	<b>No</b> Tricoat
silver	140 with 1 magnetic cam	20	<b>201755</b>	<b>232898</b>



<b>15.1.1.3 Magnetic cam and accessories</b>			<b>No</b>	<b>No</b> Tricoat
silver	screw-in magnet in zink case	100	<b>465323</b>	
	contact sensor cam M5 D=10x10 mm	100	<b>441772</b>	
	contact sensor cam short D=10x13.4 mm	100	<b>228503</b>	
	contact sensor cam long D=10x17.7 mm	100	<b>228504</b>	
white	surface mounted contact sensor	10	<b>455428</b>	
blank	magnetic disc D=8x1 mm	200	<b>465416</b>	



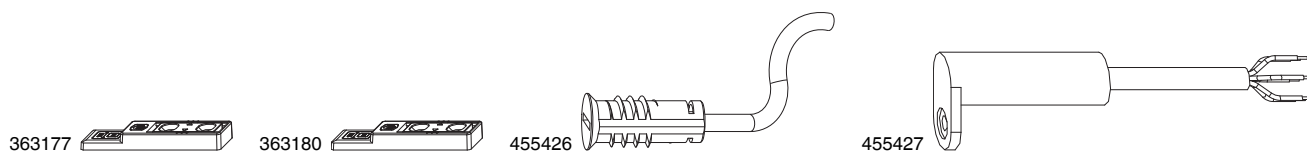


15.1.1.4 Adaptors with magnetic cam			No	No Tricoat
grey	adaptor with contact sensor	50	<b>57425</b>	
	adaptor with contact sensor KVS MM	50	<b>200906</b>	
	adaptor with contact sensor KVS MM suitable for automation	10	<b>225901</b>	

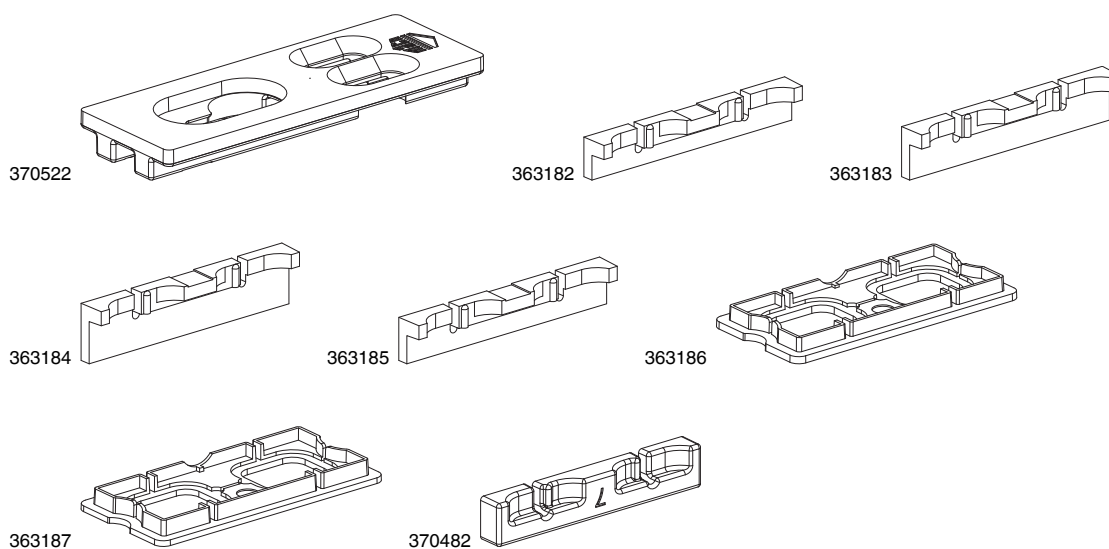


**15.1.2 Frame components/sensors for locking monitoring**

**15.1.2.1 Tethered sensors**



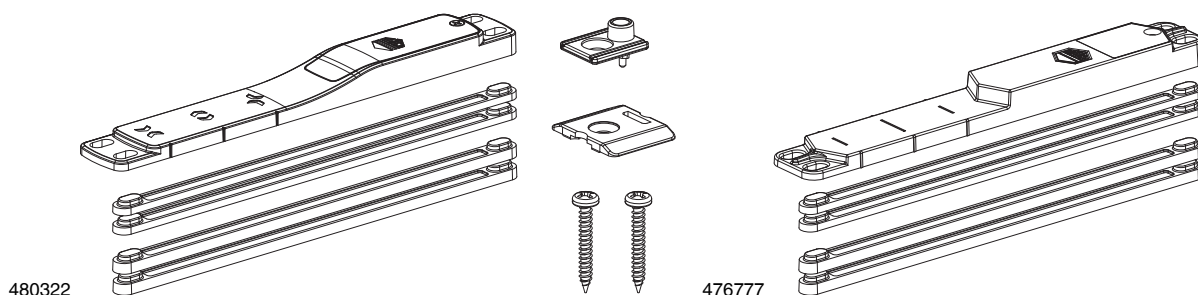
15.1.2.1.1 Reed contacts							<b>No</b>	<b>No</b> Tricoat	
grey	built-on	RVS	for locking and tilt monitoring	VdS B/C	6 m cable (0.14 mm <sup>2</sup> )	10	<b>363177</b>		
					10 m cable (0.14 mm <sup>2</sup> )	10	<b>363178</b>		
		RHS	for central heating control			6 m cable (0.14 mm <sup>2</sup> )	10	<b>363180</b>	
						15 m cable (0.14 mm <sup>2</sup> )	10	<b>363181</b>	
silver	built-in	MVE	for locking and tilt monitoring	VdS C	6 m cable (0.14 mm <sup>2</sup> )	10	<b>455426</b>		
		MVF (PVC)	for combined opening and locking monitoring	VdS C	6 m cable (0.14 mm <sup>2</sup> )	10	<b>455427</b>		



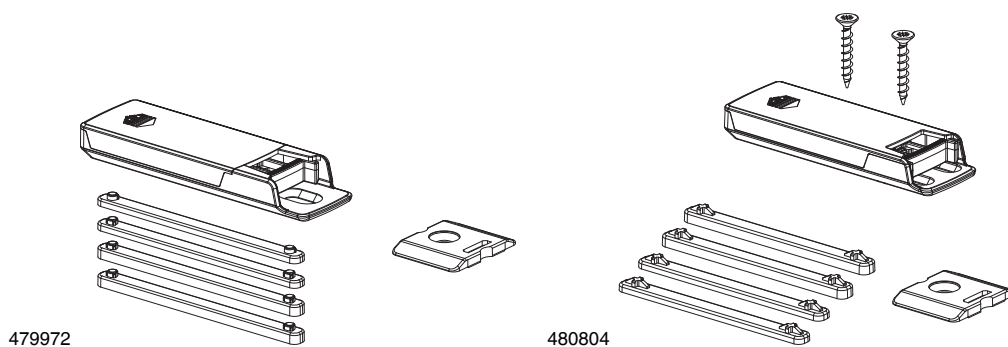
15.1.2.1.2 Packers for reed contact							<b>No</b>	<b>No</b> Tricoat
white		MVF (PVC)				100	<b>370522<sup>1</sup></b>	
	type 1	RVS (PVC)				10	<b>363182<sup>1</sup></b>	
	type 2	RVS (PVC)				10	<b>363183<sup>1</sup></b>	
	type 3	RVS (PVC)				10	<b>363184<sup>1</sup></b>	
	type 4	RVS (PVC)				10	<b>363185<sup>1</sup></b>	
	type 5	RVS (PVC+timber)				10	<b>363186<sup>1</sup></b>	
	type 6	RVS (PVC)				10	<b>363187<sup>1</sup></b>	
	type 7	RVS (PVC)				10	<b>370482<sup>1</sup></b>	

<sup>1</sup> The correct packer for the window profile can be found on our online catalog (TOM) or on the corresponding profile sheet.

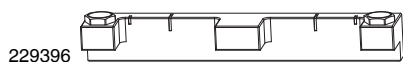
15.1.2.2 Wireless sensors



15.1.2.2.1 mTronic			<b>No</b>	<b>No</b> Tricoat
black	mTronic multi-sensor wireless	1	<b>480322</b>	
	mTronic multi-sensor wireless set of 10	10	<b>480313</b>	
grey	mTronic multi-sensor wireless	1	<b>476777</b>	
	mTronic multi-sensor wireless set of 10	10	<b>476776</b>	



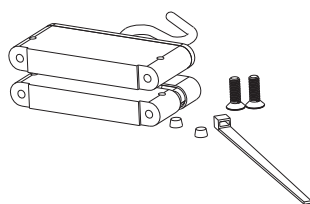
15.1.2.2.2 eTronic			<b>No</b>	<b>No</b> Tricoat
black	eTronic smart ready wireless sensor	1	<b>479972</b>	
	eTronic smart ready wireless sensor set of 10	10	<b>479973</b>	
	eTronic smart ready wireless sensor V2	1	<b>480804</b>	
	eTronic smart ready wireless sensor V2 set of 10	10	<b>480805</b>	





15.1.2.2.3 Jig for mTronic			<b>No</b>	<b>No</b> Tricoat
drilling jig f. m/eTronic multi-sensor	aluminium/PVC	1	<b>229396</b>	

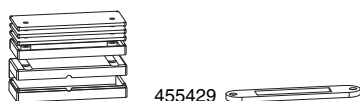


**15.1.3 Accessories for window monitoring**






458062

<b>15.1.3.1 Electrical, contactless signal transmitter</b>				
for alarm glass and glass breakage sensors		1	458062	



455431

455429

<b>15.1.3.2 Accessories for signal transmitter</b>				
white	construction case set for electronic cable junction without contacts	1	455431	
	fixing frame for electronic cable junction without contacts	1	455429	
brown	construction case set for electronic cable junction without contacts	1	455432	
	fixing frame for electronic cable junction without contacts	1	455430	



458281






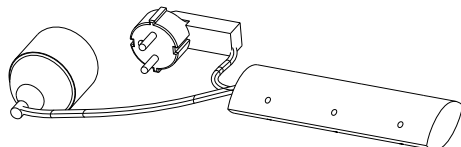
363472






363474

363473

<b>15.1.3.3 Removable cable transitions</b>				
	detachable cable junction 6-pin	1	458281	
	detachable cable junction for alarm contact	1	363472	
stainless steel	cable junction cover plate, PVC for alarm contact	1	363474	
	cable junction cover plate, timber	1	363473	

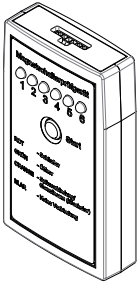


458063

<b>15.1.3.4 Exit air controls</b>				
exit air control	cable version	1	458063 <sup>1</sup>	
	wireless version	1	458064 <sup>2</sup>	

<sup>1</sup> Box contents: 1 x controller, 1 x magnetic switch, 1 x contact sensor, 6 x packers for PVC profiles.

<sup>2</sup> Box contents: 1 x controller, 1 x wireless sensor, 1 x wireless magnet.



364524

**15.1.3.5 Test device for reed contacts**



**No**

**No**  
Tricoat




test device for reed contacts




1




**364524**






16 Directory




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101548	20	199	10757	20	300,301	201837	10	155
101550	1	314	10759	20	297	201838	10	155
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368015	100	213	372403	100	277,279	37554	10	271
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368311	100	246	372419	100	283	385057	100	214
368345	200	289	372420	50	287,291	385058	100	213
368346	200	289	372422	100	282	385059	100	213
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368425	100	200	372424	200	292	385064	100	213
368481	100	289	372431	200	274	385066	100	213
368482	100	289	372432	200	282	385067	100	213
368556	100	254	372433	200	277	385080	100	215
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369288	100	246	372435	100	275	385085	100	206
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369526	50	224	372438	200	277	385090	100	178
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369530	50	250	372479	100	292	385094	20	304
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369535	50	255	372485	100	279	385098	20	226
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369608	50	224	372487	100	292	385100	100	178
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369610	50	224	372489	200	283	38924	50	283



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40349	100	281	43519	100	252	44289	50	217
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40485	100	255	43551	100	202	44295	50	217
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96890	100	283
97528	100	213
97529	100	213
97550	100	264
98021	100	282
98110	100	279
98265	100	214



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