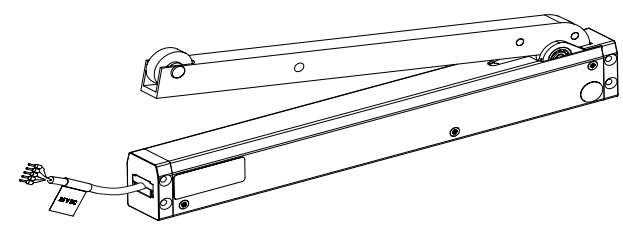


132618-04



1 Symbols and means of representation

**Warnings**  
In these instructions, warnings are used to warn against material damage and injuries.

- ▶ Always read and observe these warnings.
- ▶ Observe all the measures that are marked with the warning symbol and warning word.

**Warning symbol Meaning**

	<b>CAUTION</b>	Danger for individuals. Non-compliance can result in minor injuries.
--	----------------	--

**Other symbols and means of representation**  
Important information and technical notes are highlighted to explain correct operation.

**Symbol Meaning**

	means "important note"
	means "additional information"
	Symbol for an action: Here you have to do something.
	If there are several actions to be taken, keep to the given order.

2 Safety instructions

To ensure personal safety, it is important to follow these safety instructions. These instructions must be kept.

2.1 Product liability

- In accordance with the liability of the manufacturer for his products as defined in the German "Produkthaftungsgesetz" (Product Liability Act), the information contained in this brochure and in the corresponding mounting instructions and wiring diagrams of the product (product information and proper use, misuse, product performance, product maintenance, obligations to provide information and instructions) is to be observed. Failure to comply releases the manufacturer from his statutory liability.
- Only qualified personnel who are authorised by GEZE may carry out mounting, function check and maintenance. GEZE shall not be liable for injuries or damage resulting from unauthorised modification of the equipment.
- GEZE shall not be liable if devices from other manufacturers are used with GEZE equipment. Use only original GEZE parts for repair and maintenance work as well.

2.2 General safety precautions

- In accordance with Machine Directive 2006/42/EC, a danger analysis must be performed and the system identified with the CE marking in accordance with Appendix III of the EC Machine Directive before commissioning the system.
- Observe the latest versions of guidelines, standards and country-specific regulations, in particular:
  - BGV A1 "Accident-prevention regulations, General regulations"
  - BGV A3 "Electrical systems and equipment"
  - ASR A1.6 "Windows, fanlights, translucent walls"
  - VDE 0100, Part 600 "Erection of low-voltage systems Part 6. Tests"
  - DIN EN 60335-1 "Safety of electrical devices for home use and similar purposes - Part 1: General requirements"
  - DIN EN 60335-2-103 "Safety of electrical devices for home use and similar purposes - Part 2-103: Special requirements for drives for gates, doors and windows"
- Do not allow children to play with fixed mounted control systems of all types and keep remote controls out of reach of children.
- Ensure that enclosing between the driven part and the surrounding parts due to the opening movement of the driven part is prevented.

- During installation, heed the following:**
- On bottom-hung windows, use of a suitable catch guard is prescribed (e.g. GEZE safety scissor no. 35).
  - Only genuine consoles may be used for attachment.
  - Use suitable fixing elements for installation. Recommendations can be found in the installation instructions. Make sure that the fixing elements in the profile guarantee safe fixing of the installed parts.

According to the above-mentioned standards/regulations, the closing speed must be less than 5mm/sec if no further safety measures are taken on the window itself or if the window is installed at a height of less than 2.5 m (see p.6 ASR A1.6). Our drives have been adjusted to this speed in the factory.

2.3 Installation notes

- ▶ Read and observe the specifications in the mounting instructions and keep these for later use. All the dimensions specified have to be checked on site on own initiative and responsibility.
- The drive is designed solely for use in dry rooms and may not be subjected to highly corrosive environments (e.g. sea air or marine air).
- ▶ In order to avoid injuries, protective caps are to be placed onto projecting threads of the fastening screws.
- ▶ Check whether the conditions specified on the information plate of the drive such as the ambient temperature and electrical data are observed at the planned installation site.
- ▶ Before installing the driven part check whether it is in a good mechanical state, has a balanced weight and can be closed easily.

2.4 Cable layout and electrical connection (at electrical drives)

- The connection to the power supply (230 V AC or 24 V DC) has to be carried out by a qualified electrician, in accordance with the respective wiring diagram. Carry out the power connection and equipment earth conductor test in accordance with DIN VDE 0100.
- Use a customer-accessible 2-pin overload cut-out as the line-side disconnecting device in accordance with the permissible current carrying capacity of the cable.
- ▶ Use only cables prescribed in the wiring diagram. Implement the cable type, line length and cross-section in accordance with the technical specifications.
- ▶ Always use wire-end ferrules for wire cores.
- All the 230-V components have to be disconnected at all poles from the supply voltage for maintenance and repair work.
- Insulate the cores that are not used.

- In the case of 24 V DC and a longer power supply cable, the cable must have a sufficiently large cross-section in order to prevent a voltage drop. Calculate the cross-section (see cable plan for RWA central control units!)

2.5 Safety-conscious working and usage

- ▶ Secure workplace against unauthorised entry.
- ▶ Take care to allow sufficient space for the movement of long components in the system.
- ▶ Before working on the electrical system interrupt the power supply and verify the safe isolation from supply. When using an uninterrupted power supply (UPS), the system will still be under power even when disconnected from the mains.
- ▶ During the set-up activate the drives only in inching mode.
- ▶ Risk of injury when a drive is opened through moving parts (drawing in of hair, clothing, etc.)
- Risk of injury by trapping, knocking, shearing and hair etc. being pulled in at unsecured points.
- Risk of injury due to glass breakage.
- Touching the window unit can result in injuries during operation.

2.6 Inspection of installed system

- The measures for security and prevention of crushing, impact, shearing or drawing-in spots, in particular at a leaf or drive hinge of less than 2.5 m are to be carried out and checked.
- One measure, for example, is the use of switch with OFF default setting (e.g. GEZE vent switch LTA-LSA mat. no. 118476). In the case of children or persons with a limited ability to judge, a key-operated switch with an OFF default setting must be used (e.g. GEZE mat. no. 117996 for SCT, 090176 for cylinder). The switch has to be mounted so that the points of danger can be seen.
- ▶ After the installation has been completed, check that the system is set correctly and functions correctly and safely.
- ▶ Check all the functions by means of a trial run.
- The end user has to be instructed in all the important operating and handling steps after completion.

3 Disposal of the window unit

The window unit consists of materials that have to be recycled. The individual components have to be sorted in accordance with their material type.

- Aluminium (profiles)
- Iron (screws, chain, ...)
- Plastic
- Electronic components (motor, controller, transformer, relay, ...)
- Cables
- ▶ Dispose of the parts in accordance with the statutory regulations.

4 After-sales service

GEZE prescribes regular maintenance (at least once a year). This is to be carried out by a suitably qualified person. In the process the function as well as the state of the mechanical equipment (imbalance or signs of wear, damage to fastening parts) and the electrical connections are to be checked.

The system may not be used during repair and setting work.

- ▶ Inspect the fixations and clamping screws for firm seating.
- ▶ Clean soiling from the drive during maintenance.

**Note: Danger of pinching and clamping!**  
The window closes automatically!  
Before installation, read the enclosed safety notes and consider them during installation and operation of the drive!  
Warning claims require proper mounting, installation and maintenance in accordance with the manufacturer's specifications.

- Inform the electrician by handing out this wiring diagram.
- The drive must be protected from construction dirt and splasewater.

EN Installation instructions

5 Application range

	Window Hinge side	Window Opposite hinge side (on request)	Door Hinge side	Door Opposite hinge side
RWA K 600 F	x		x	
RWA K 600 G	x	x	x	x
RWA K 600 T			x	x

- With the combination of K 600 T with a door closer, the minimum closing time of the door closer must be limited to 5 seconds.

6 Technical data per drive

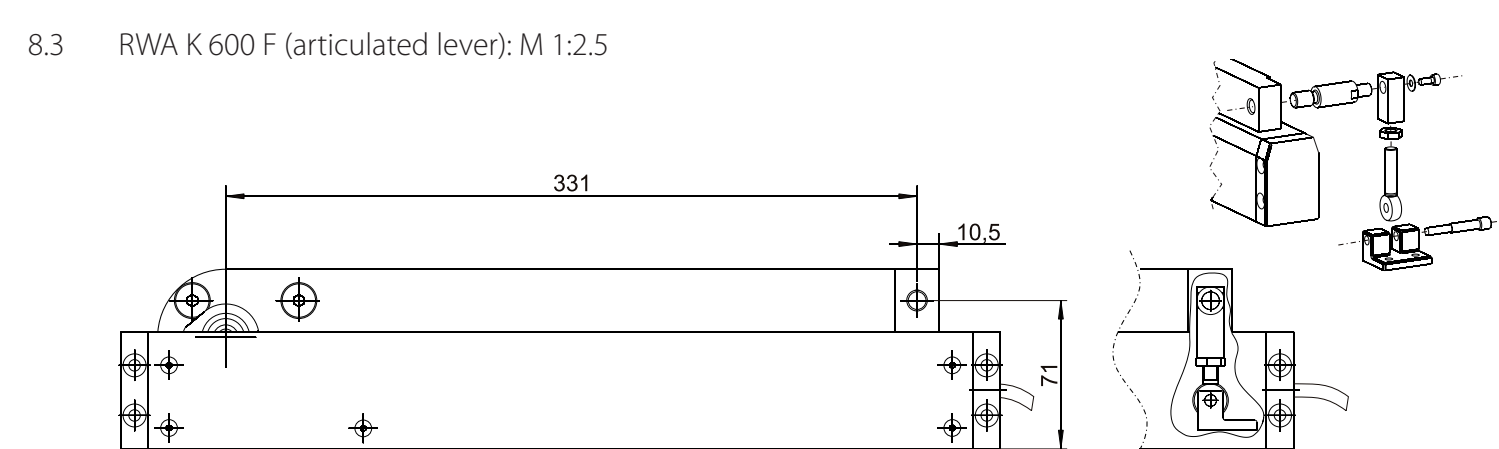
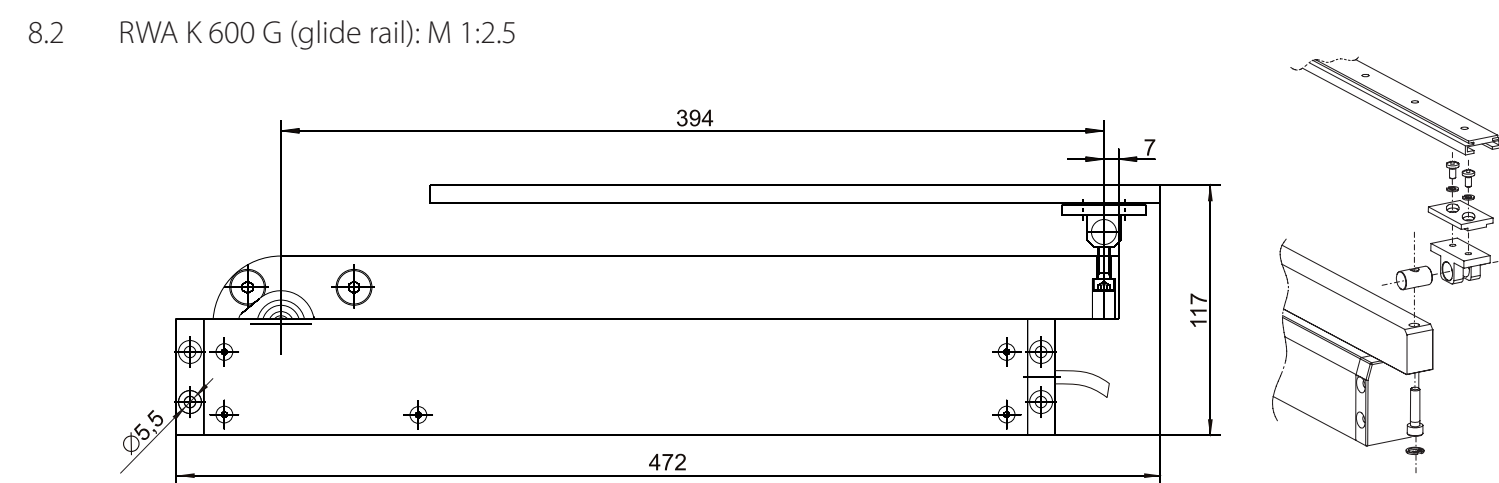
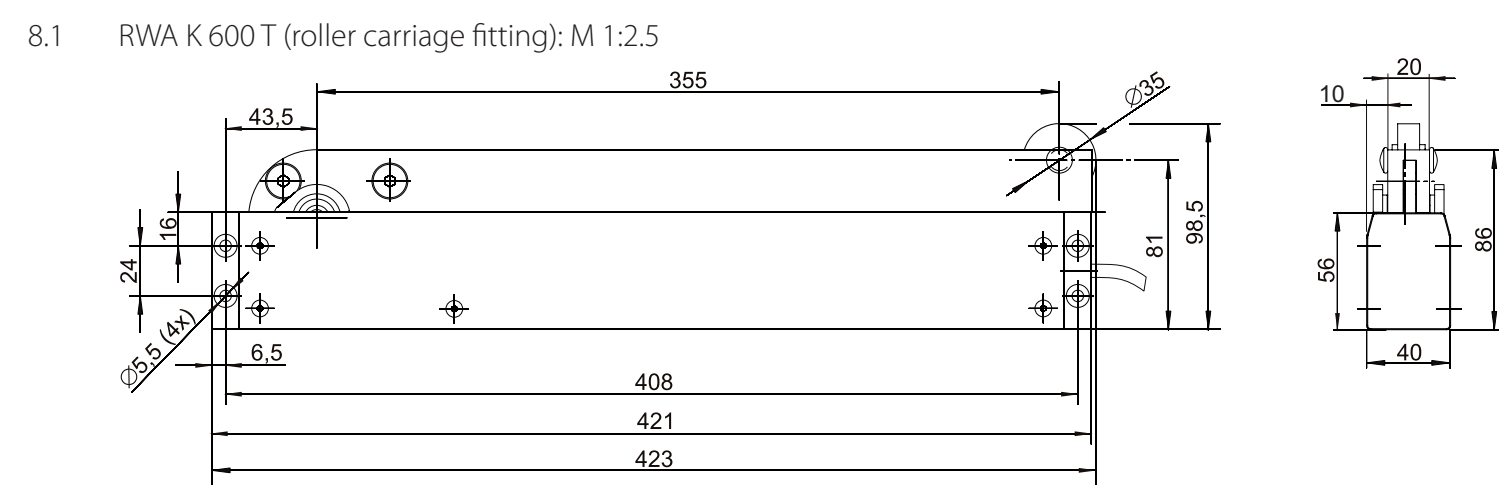
Mechanical data		Electrical data -SELV	
Parameter	Value	Parameter	Value
Max. opening force [N]	600* <sup>1</sup>	Voltage [V DC]	24 ±25%
Max. closing force [N]	T: 200*/F, G: 600	Max. residual ripple [%]	20
Running time [s]	40	Load factor [%]	30
End position cut-off extended	integrated path sensor	Power consumption [W]	max. 30
End position cut-off retracted	integrated path sensor	Current consumption [A] (at full load)	max. 1.4
Overload cut-off	through power consumption	Ambient temperature [°C]	-5°/ +75°
Max. torque [Nm]	215*7	Enclosure rating/protection class [IP]	IP32 / III
Min. torque [Nm]	T: 70*/F, G: 215	Application range	dry rooms
Supply cable [m]	5		
Weight [kg]	approx. 3		

\* Opening and closing force can be changed (on request). Force depends on the drive variant (lever length). Subject to technical modifications.

7 Packing units

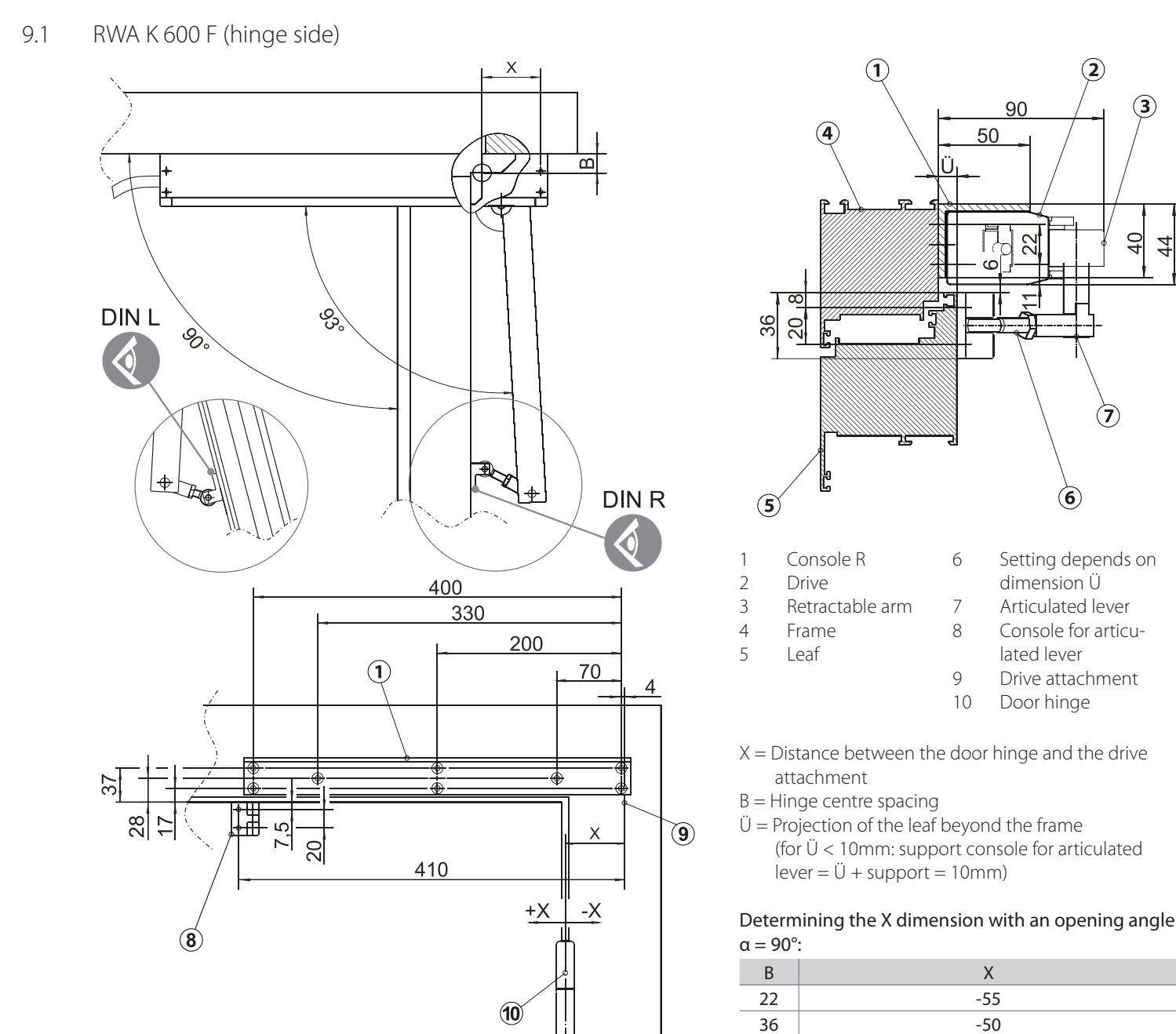
	Description	Colour EV1 (silver)	Colour acc. to RAL
K 600 F			
Packaging contents	Retractable arm drive	130151	130152
	Retractable arm drive Syncro-Set	133221	
	2-leaf retractable arm drive with door closing sequence selector	137451	137452
Accessories	Console R (required for all types of installation for RWA K 600 F)	130154	140506
K 600 G			
Packaging contents	Retractable arm drive	130057	130058
	Retractable arm drive Syncro-Set	133119	
	2-leaf retractable arm drive with door closing sequence selector	137447	137448
Accessories	Console G (required for all types of installation for RWA K 600 G)	130155	140507
K 600 T			
Packaging contents	Retractable arm drive	130059	130060
	Retractable arm drive Syncro-Set	133120	
	2-leaf retractable arm drive with door closing sequence selector	137449	137450
Accessories	Console T (required for K 600 T on hinge side)	130153	140505
	Console R (required for K 600 T on hinge side)	130154	140506

8 Main dimensions

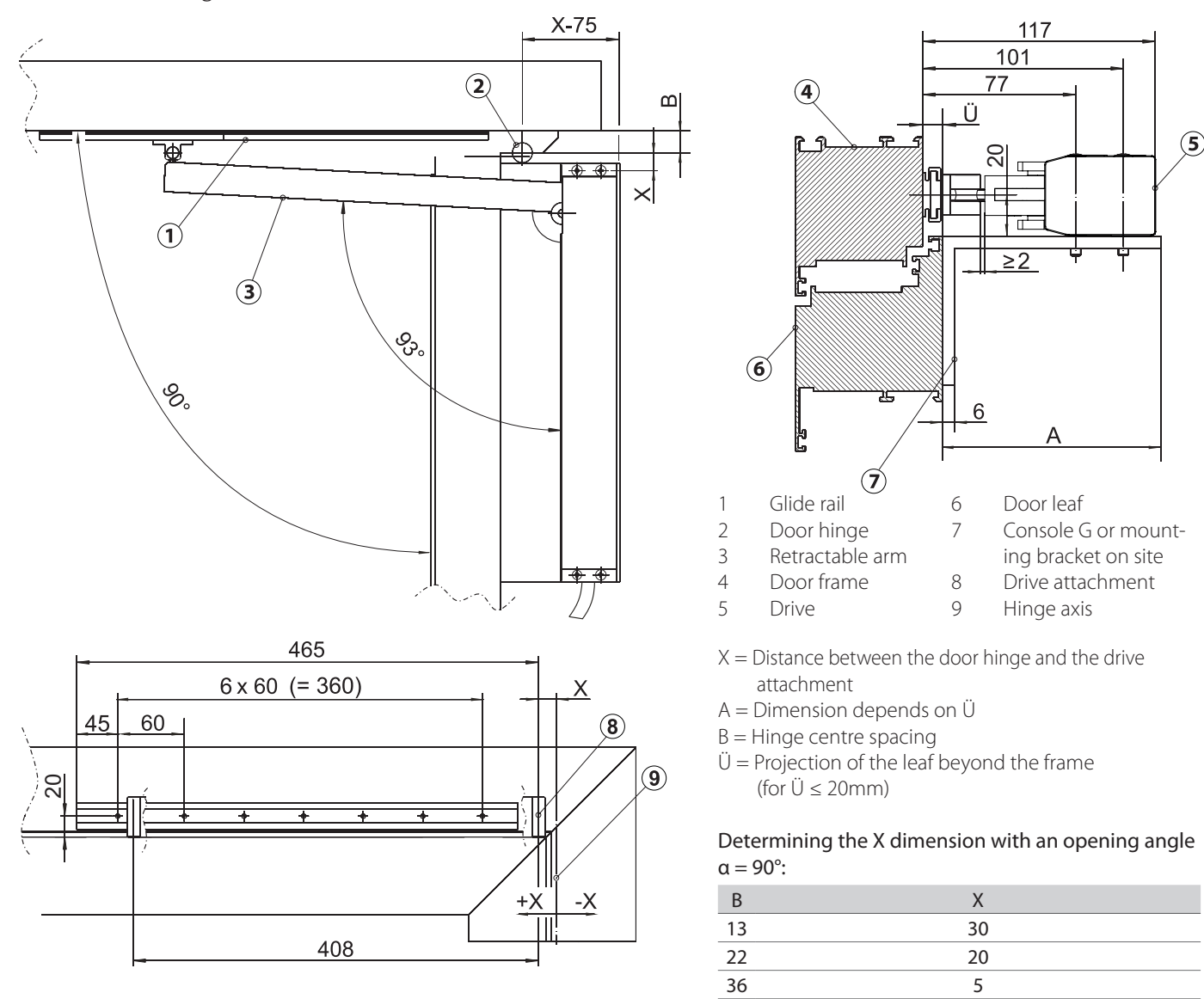


Refer to the installation instruction for the drive brackets for further information.

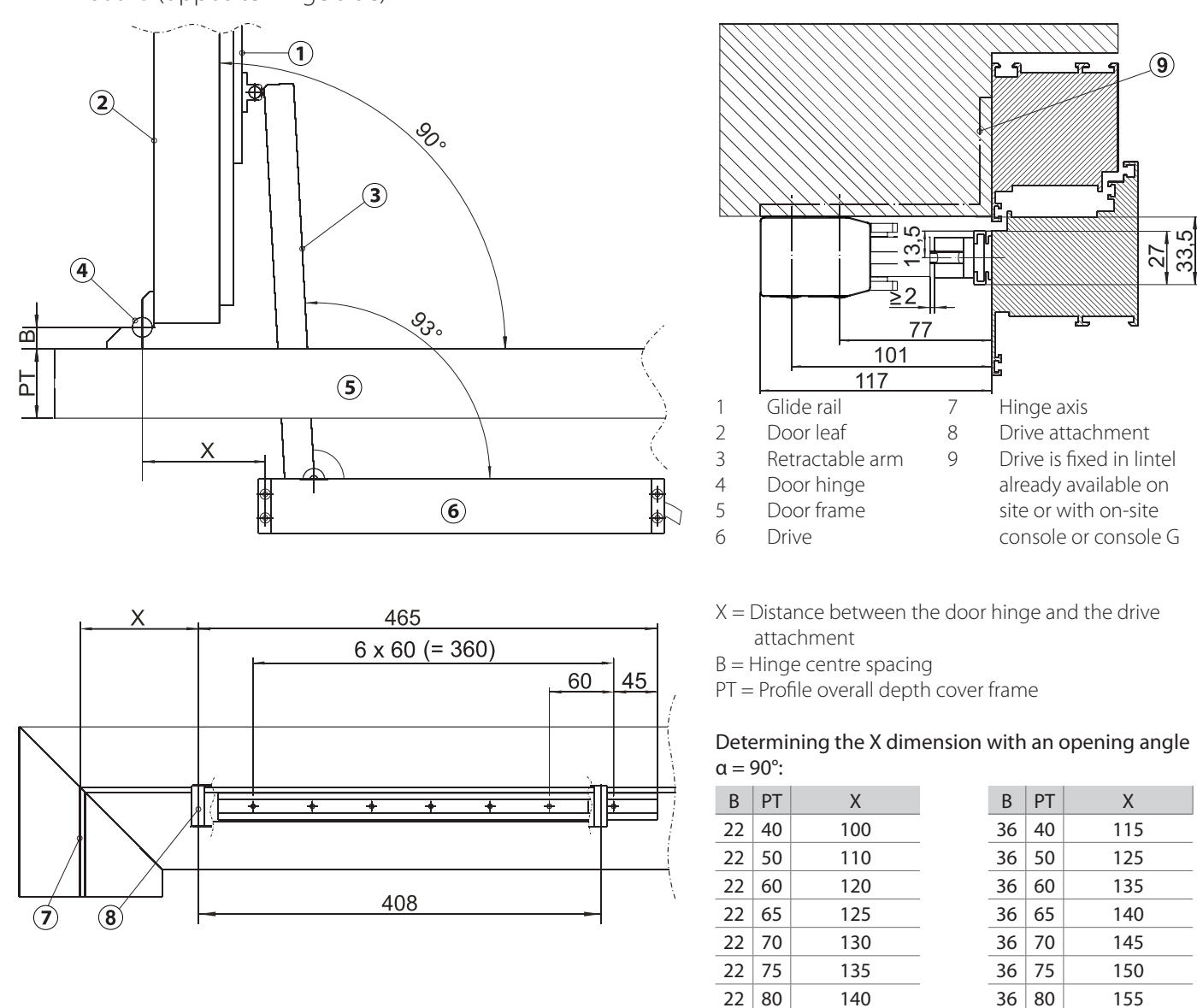
9 Installation: Door



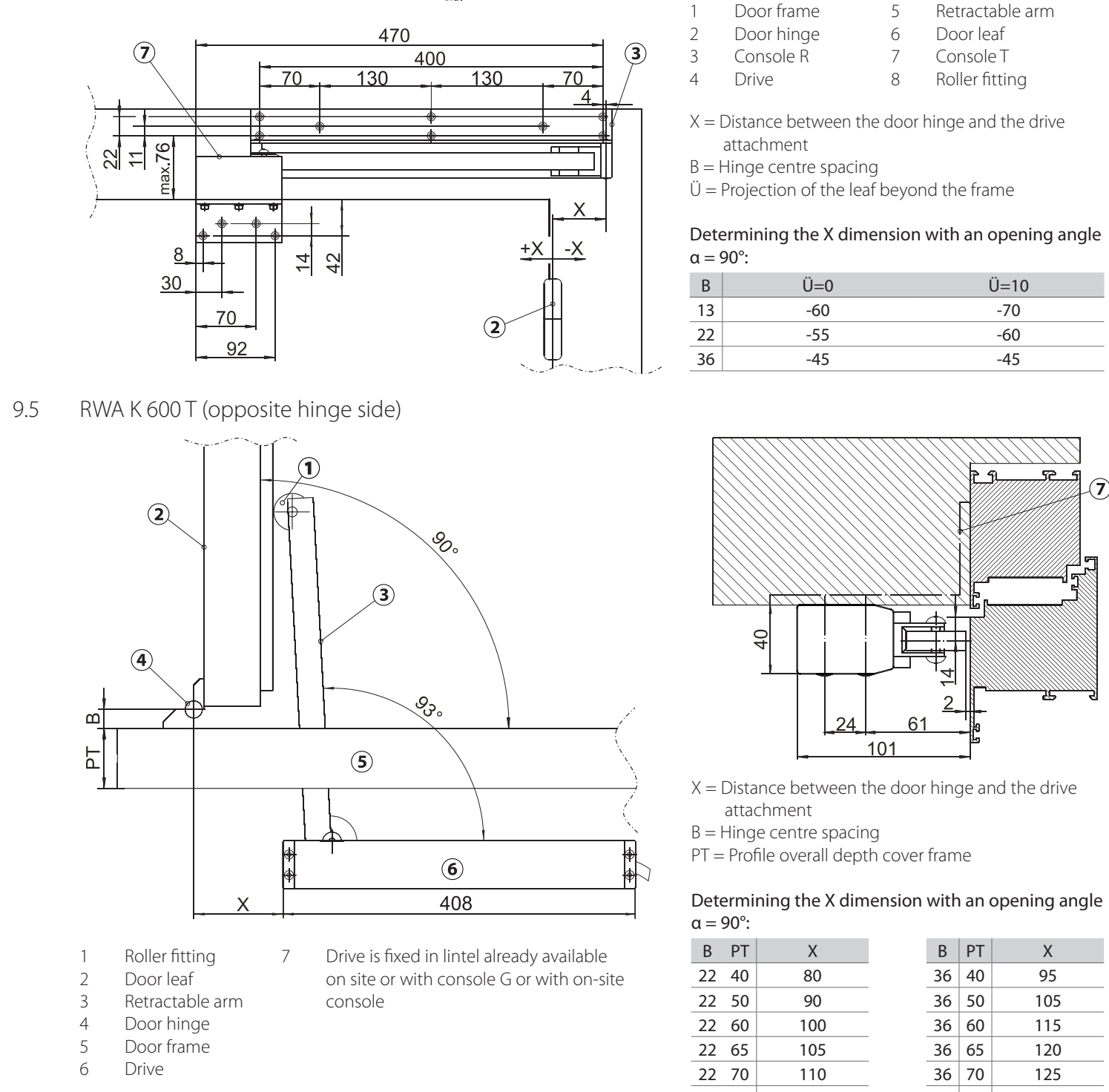
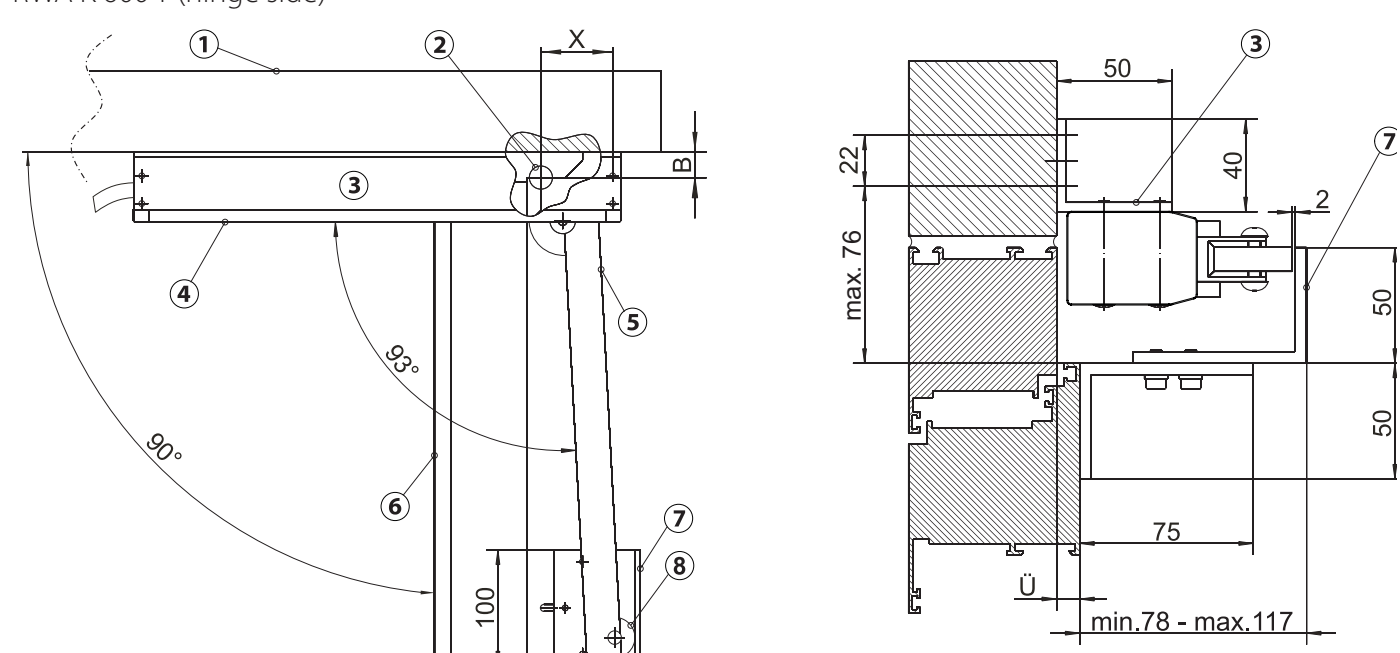
9.2 RWA K 600 G (hinge side)



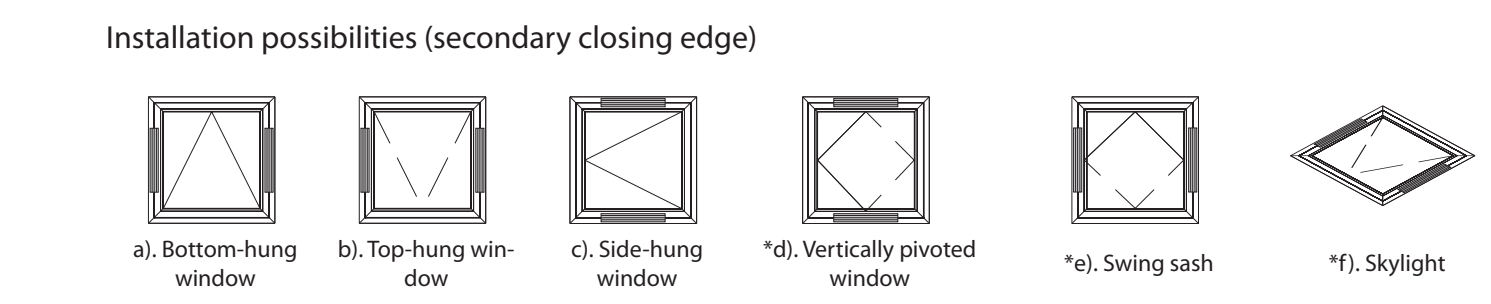
9.3 RWA K 600 G (opposite hinge side)



9.4 RWA K 600 T (hinge side)



10 Installation: Window



	RWA K 600 F	RWA K 600 G
Type of window	All	a), b), c), f).
Casement width b	max. 800 mm (1 drive), max. 1200 mm (2 drives), larger casement widths: add. locking drive necessary	
free length <sup>2)</sup>		
min. casement height <sup>1)</sup>	X+420	X+465
max. casement height <sup>1)</sup>	2*X+750	2*X+880
max. casement height <sup>1)</sup>	on request (depends on type of window and opening angle)	on request (depends on type of window and opening angle)

\* on request, \*\* Dimension X: Distance drive / hinge centre (for values see 10.1, 10.2 and 10.3)  
<sup>1)</sup> free length: a + b + c

