



TECHNOLOGY IN MOTION

# INSTINCT by MACO

SYSTEM FOLDER – TIMBER DOUBLE-SIDED FLUSH INSTALLATION  
IN FRAME PROFIL

**instinct**<sup>o</sup>  
by MACO



[maco.eu/instinct](http://maco.eu/instinct)

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## Important Information

For the assembly and installation of the INSTINCT by MACO system, you need the following documents:

- › Operating and maintenance instruction
- › System folder for the corresponding door profile
- › Assembly instructions

### **Operating and maintenance instruction**

The operating and maintenance instruction contain important information on project planning, installation, commissioning, operation and maintenance of the INSTINCT by MACO system. This document must be handed over to the client/end user in the course of delivery.

### **System folder**

The system folder contains profile-specific information on the milling and drilling patterns as well as information and notes on cable installation in the profile. In addition, please also note the fabrication guidelines of the profile manufacturer!

### **Assembly instructions**

The assembly instructions contain profile-independent information for the correct assembly of the INSTINCT by MACO system. These instructions include the work steps in the factory and the work steps on the construction site.

## Profile details and matching components

### PROFILE SYSTEM

Installation of the closures:	In the frame profile
Opening direction:	Inwards opening
Tested sash profile:	Double-sided flush Timber reference system with double rebate and 4 mm rebate gap - frame width / frame height 100 mm
Tested frame profile:	Double-sided flush Timber reference system with double rebate and 4 mm rebate gap - frame width / frame height 100 mm

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### MATCHING COMPONENTS

Matching closures:	Housing shape C - Art. No. 501_3_
Matching closure covers:	Art. No. 50212_
Recommended screw type(s):	4x DIN 7982 CT / 4,2 x 38
Matching striker plates:	flush mounted, milled Art. No. 50371_
Matching striker plate covers:	Art. No. 50471_
Recommended screw type(s):	4x DIN 7982 CT / 4,2 x 38

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### MINIMUM SASH WIDTH

Offset hinges:	≥ 850 mm
Butt hinges:	≥ 850 mm
Consealed hinges:	≥ 850 mm

## Basic design and tolerances

Basic setting of the locking cam:	9 mm
Basic design of the rebate gap:	4 mm
Minimum rebate gap:	≥ 2 mm
Maximum rebate gap:	≤ 6 mm

### IMPORTANT:

Compatibility assessment applies to door hinges with usual rotation curves.  
If the rotation curve deviates, the basic setting of the locking cam may have to be adjusted!

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Reduction of the minimum rebate gap (by screwing in the locking cam) is:

- Possible                       Not possible

### ATTENTION!

By screwing in the locking cam, the maximum rebate gap is reduced!

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Increase of the maximum rebate gap (by screwing out the locking cam) is:

- Possible                       Not possible

### ATTENTION!

By screwing out the locking cam, the minimum rebate gap increases!

DESIGN  
& TOLERANCES

MINIMUM  
REBATE GAP

MAXIMUM  
REBATE GAP

## Recommended positioning

### DIN L

#### RECOMMENDED CONFIGURATION

In the minimum configuration, 3 closures are recommended, from a door height of 2500 mm 4 closures are recommended.

An additional horizontal closure is optional.

#### EXAMPLE DISTANCES\*

Door height	Qty	L1	L2
2000	3	240	760
2100	3	240	810
2200	3	240	860
2300	3	240	910
2400	3	240	960
2500	4	240	673
2600	4	240	706
2700	4	240	740
2800	4	240	773

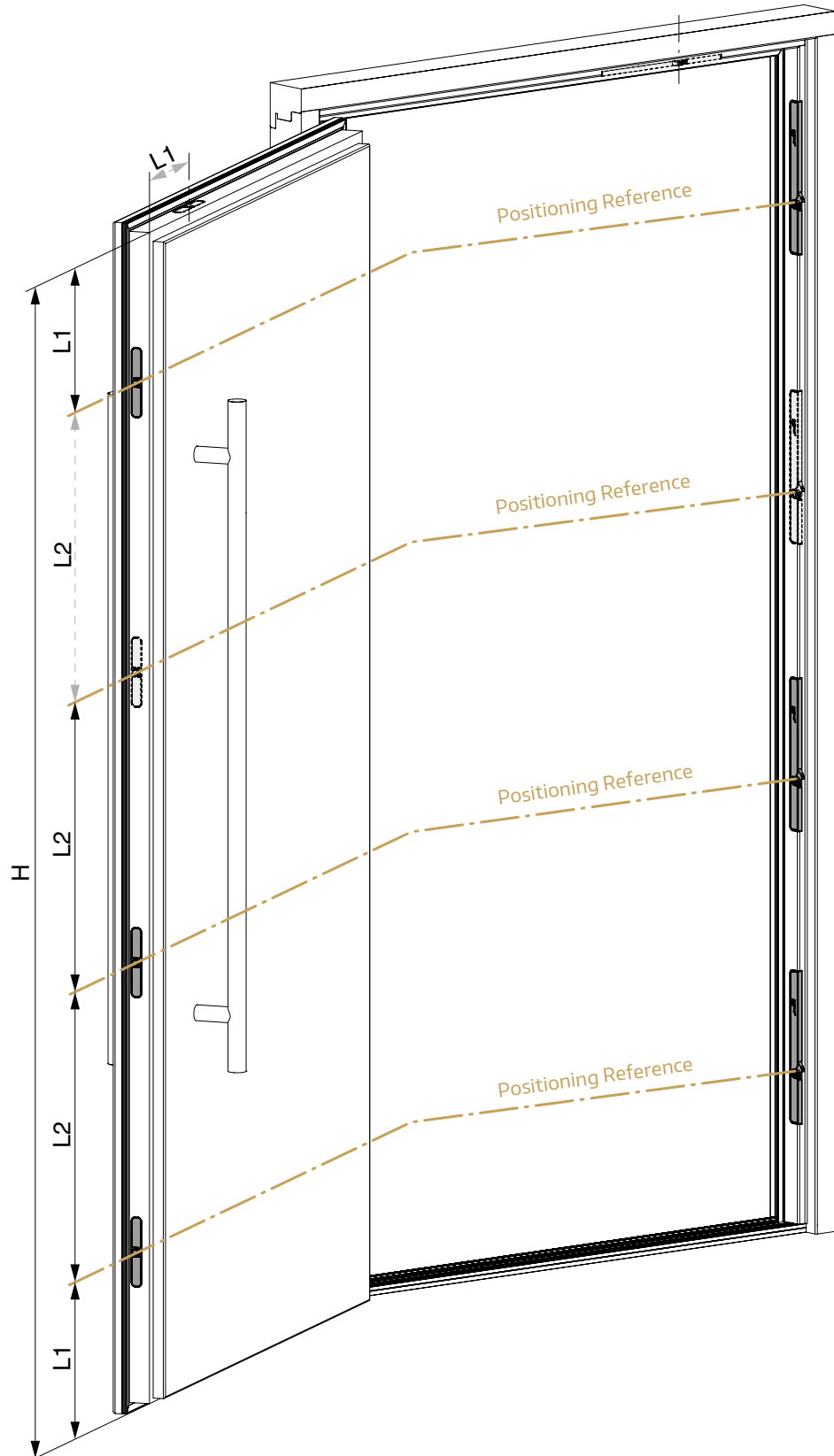
\* Figures in mm.  
Table valid for DIN L and DIN R.  
The values in this table are examples and serve as orientation for the installation of the INSTINCT closures.

Calculation L2 with 3 Closures:

$$\frac{\text{Door height} - (2 \times L1)}{2}$$

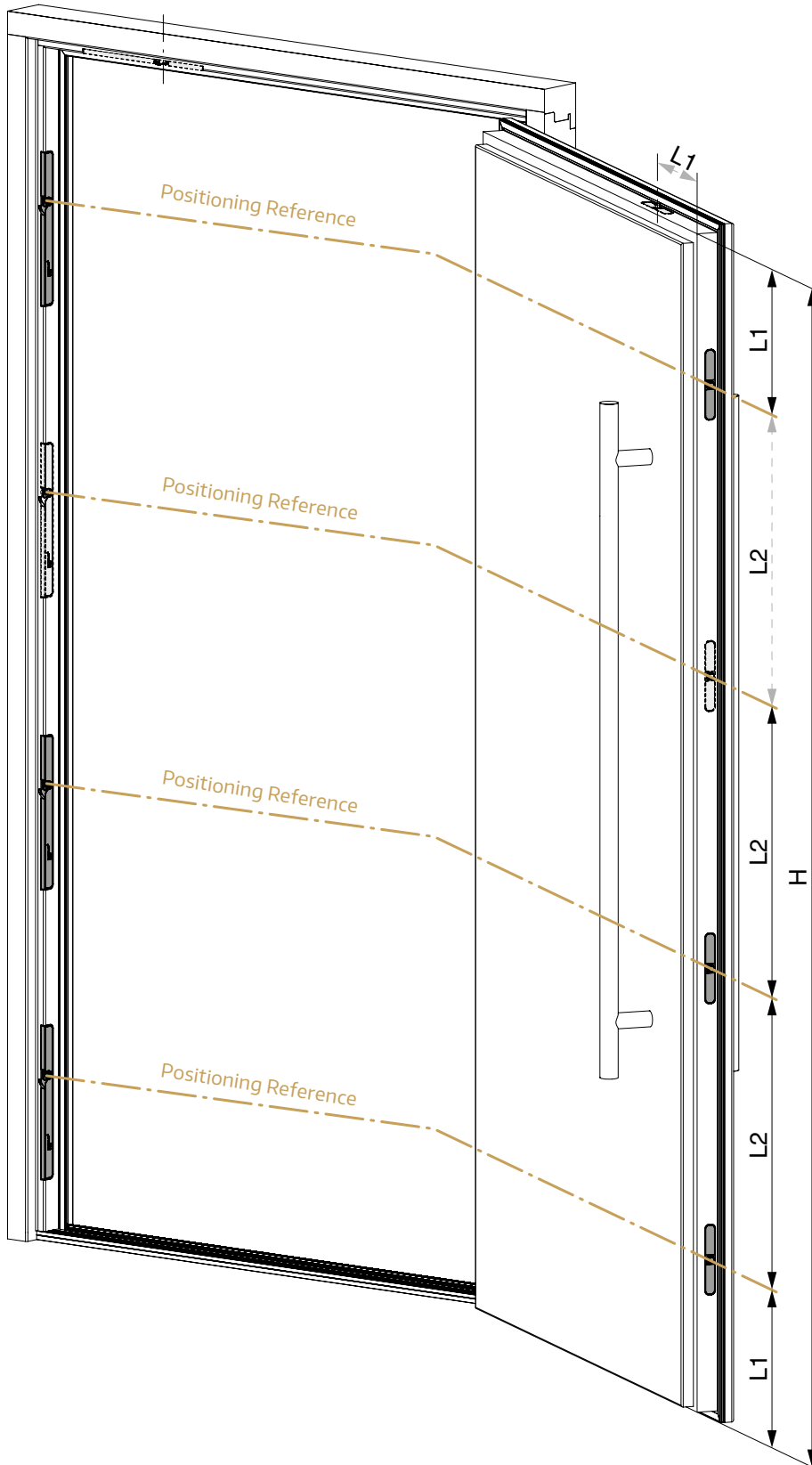
Calculation L2 with 4 Closures:

$$\frac{\text{Door height} - (2 \times L1)}{3}$$



## Recommended positioning

### DIN R



### RECOMMENDED CABLE LENGTHS\*

L2	Cable length	Item number
$L2 \leq 400$	600	509006
$L2 \leq 500$	700	509007
$L2 \leq 600$	800	509008
$L2 \leq 700$	900	509009
$L2 \leq 800$	1000	509010
$L2 > 800$	1100	509011

\*Figures in mm

Depending on the position of the cable routing, the necessary cable lengths may differ.

For the integration of the INSTINCT Bluetooth module or the INSTINCT interface, system cables with a length of 200 (Art. No. 509002), 300 (Art. No. 509003) or 500 mm (Art. No. 509005) are available.

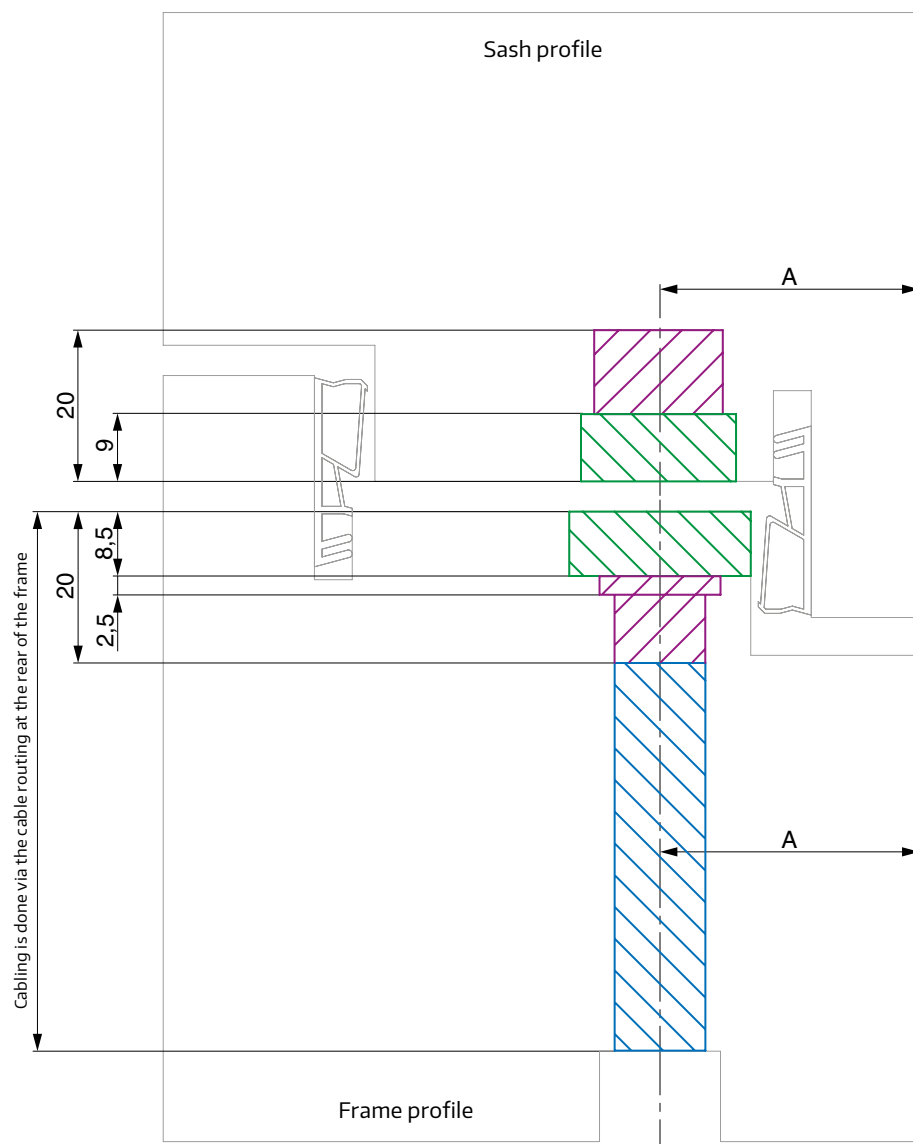
The detailed cabling scheme can be found on Page 14 and 15.





## Milling pattern cross-section B-B

DIN R, M 1:1

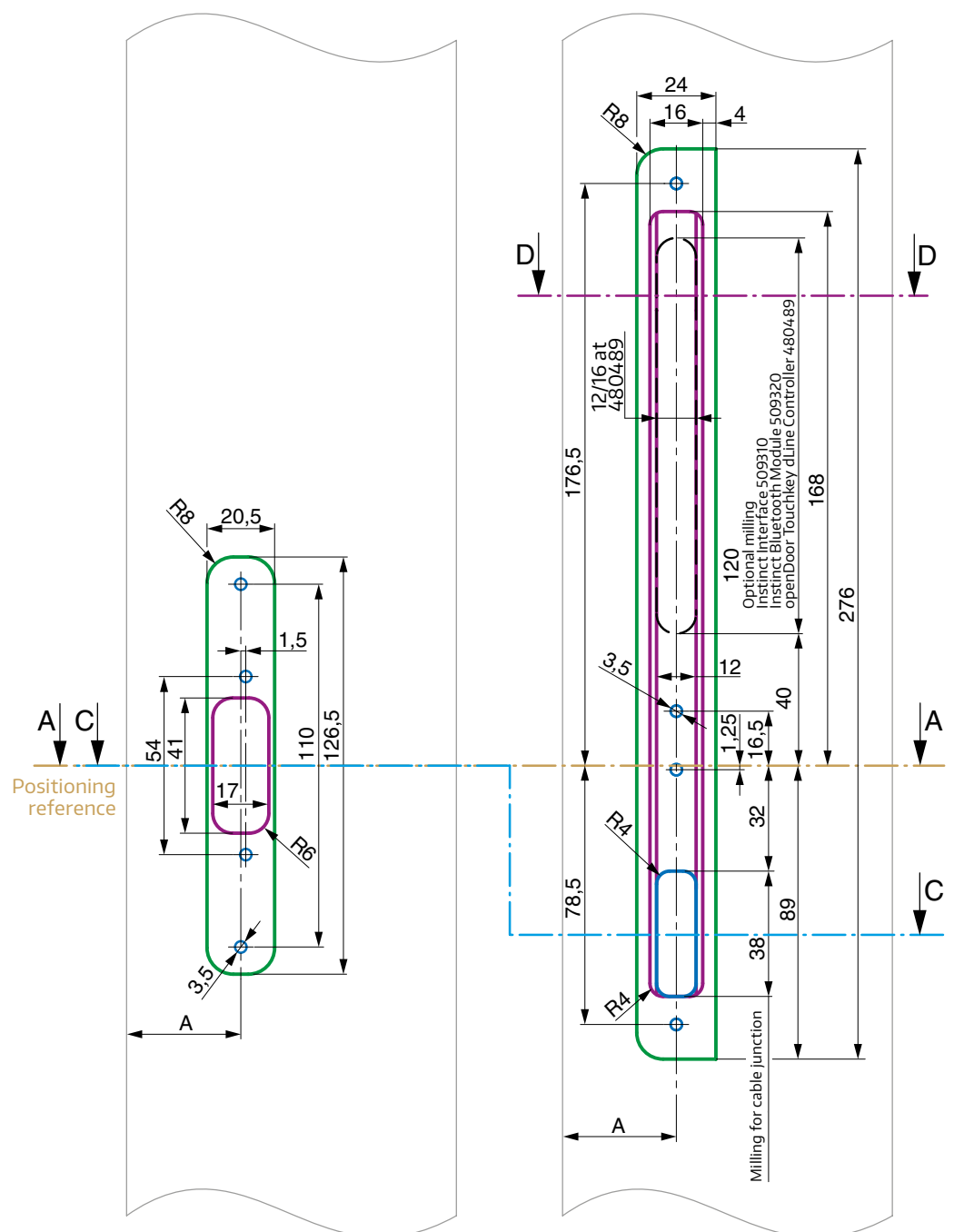


# Milling pattern top view

DIN L, M 1:2

Sash profile  
(simplified representation)

Frame profile  
(simplified representation)





# Milling pattern cross-section D-D

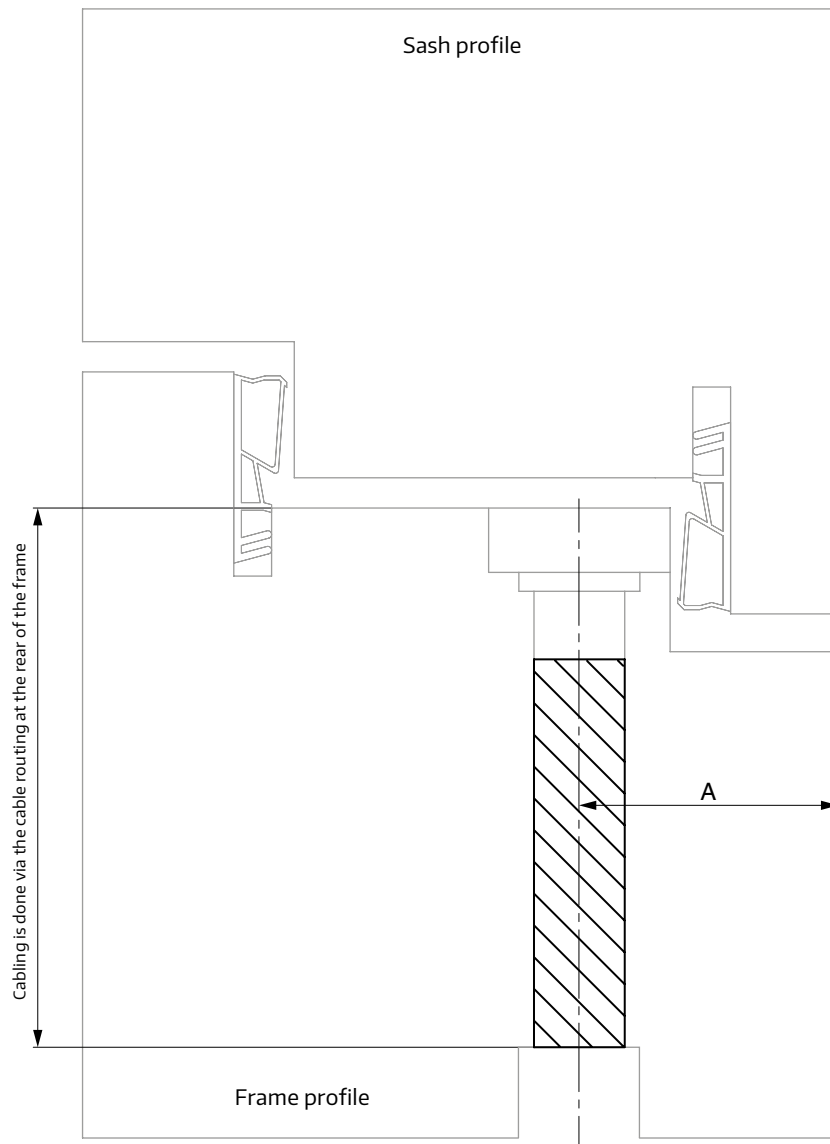
**DIN R, M 1:1**

optional milling

INSTINCT Interface 509310

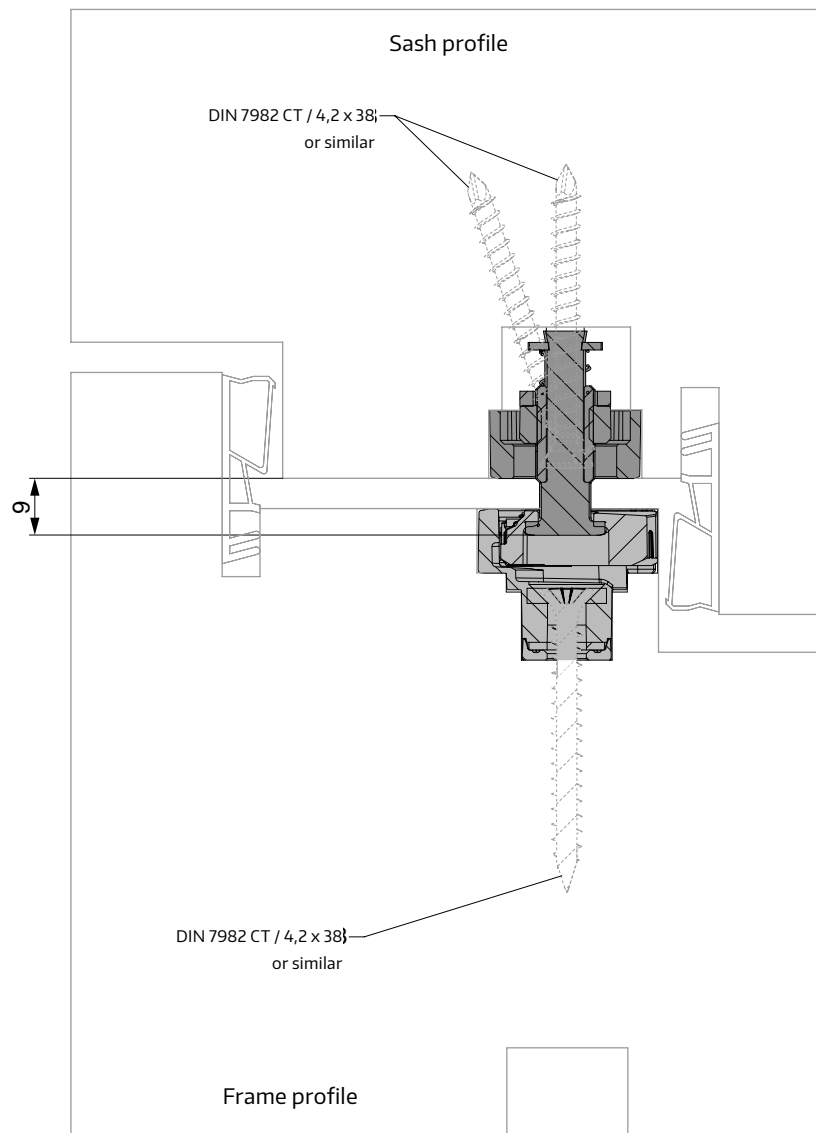
INSTINCT Bluetooth Module 509320

openDoor Touchkey dLine Controller 480489



## Basic adjustment of the striker plate

Cross-section A-A, M 1:1

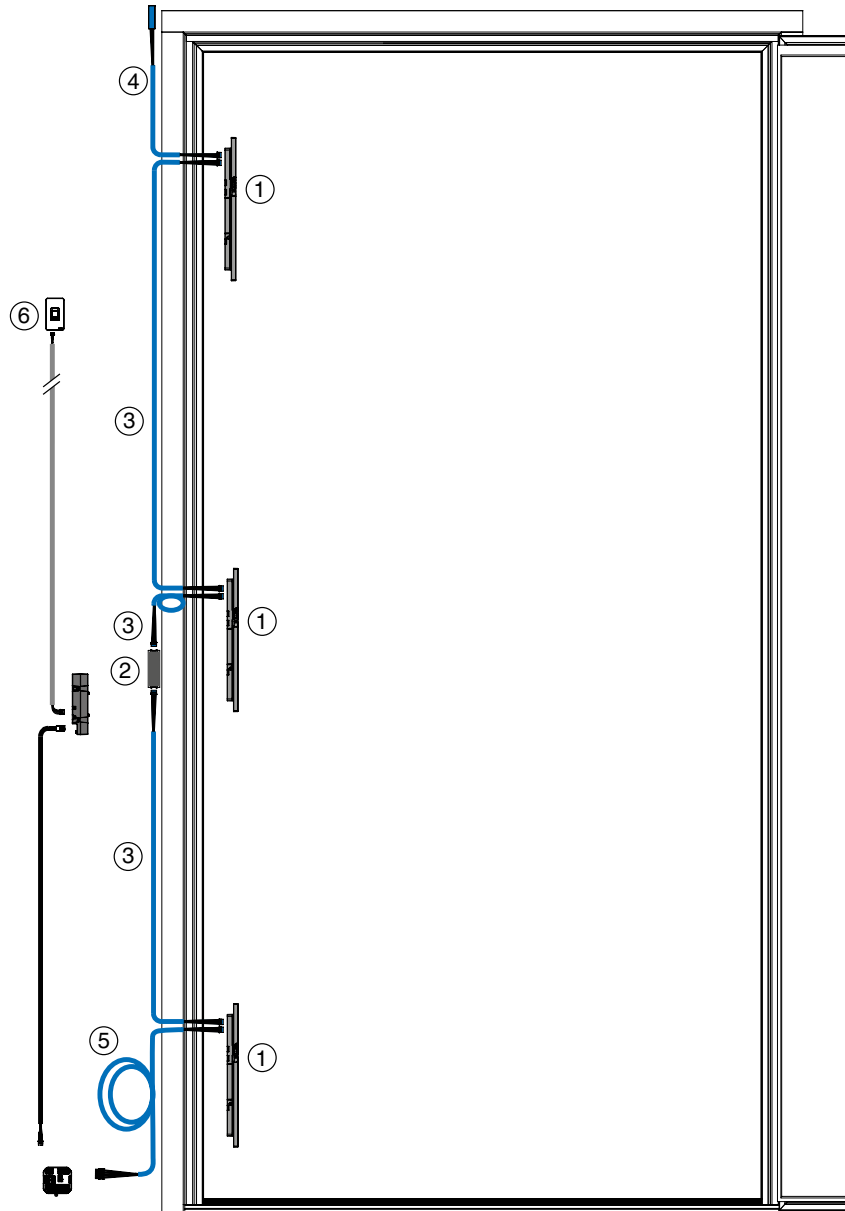


## Cabling overview

### for vertical closure points

#### NOTE

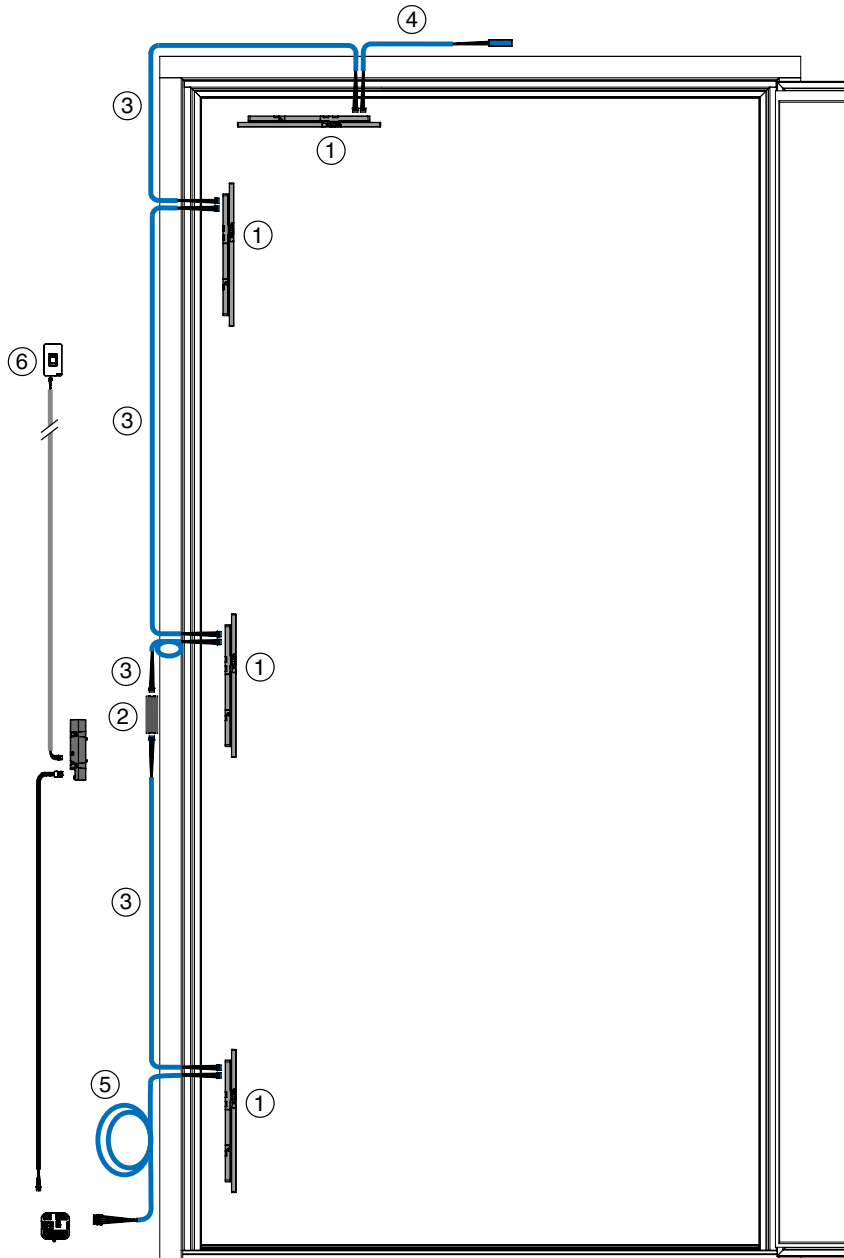
The cables are always routed in a "cable duct" in the door frame.



- ① INSTINCT Guard/Guard+
- ② INSTINCT Bluetooth module
- ③ INSTINCT Interface
- ④ INSTINCT Termination cable (with or without acoustic module)
- ⑤ INSTINCT System cable for frame-side assembly 6.000 mm
- ⑥ MACO openDoor Touchkey dLine / MACO openDoor Keypad

## Cabling overview

for vertical and horizontal closure points



- ① INSTINCT Guard/Guard+
- ② INSTINCT Bluetooth module
- ③ INSTINCT Interface
- ④ INSTINCT Termination cable (with or without acoustic module)
- ⑤ INSTINCT System cable for frame-side assembly 6.000 mm
- ⑥ MACO openDoor Touchkey dLine / MACO openDoor Keypad

### NOTE

The cables are always routed in a "cable duct" in the door frame.

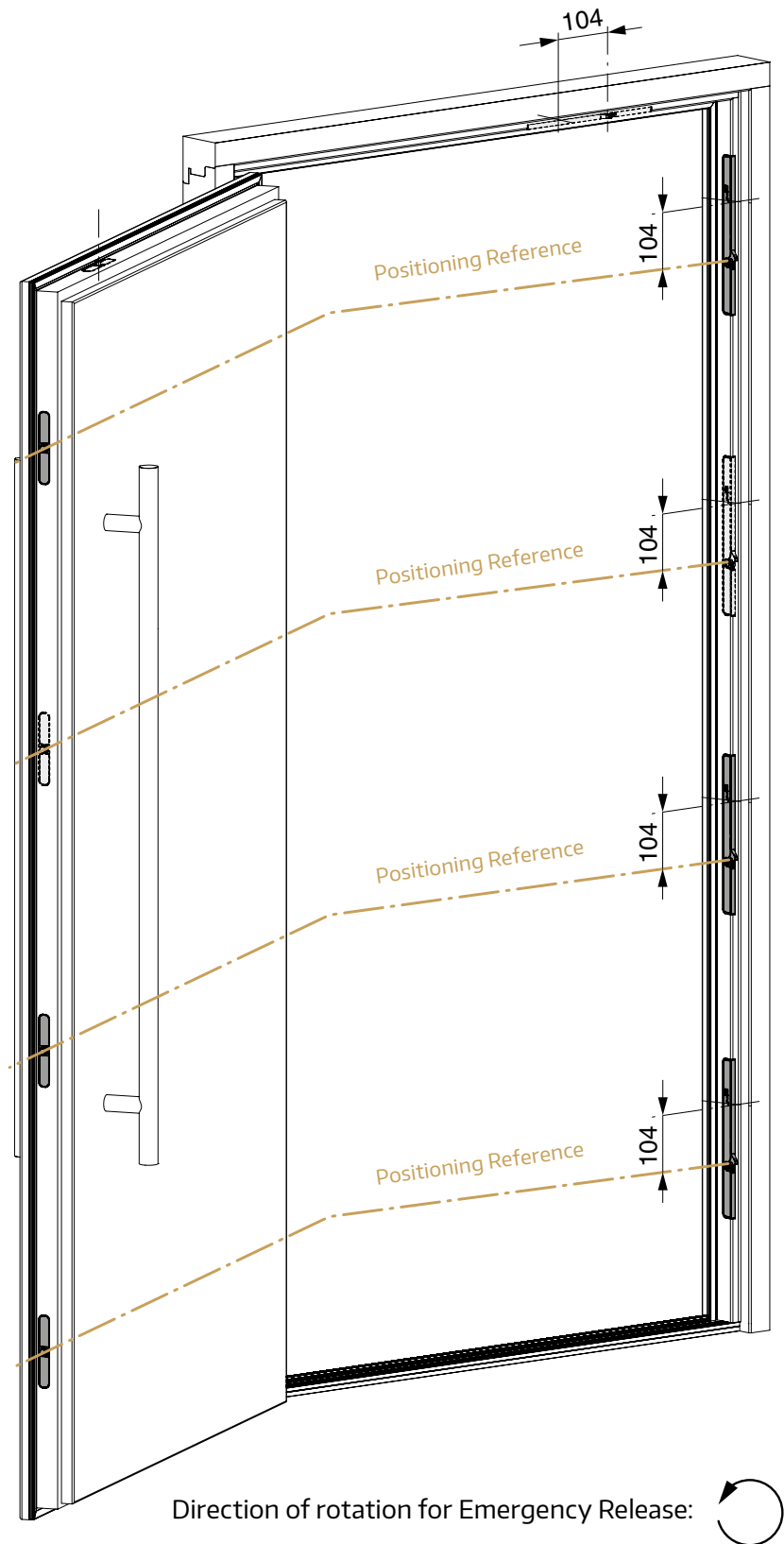
## Emergency Release positions

DIN L

### NOTE

In the event of a defect, it is possible to mechanically open each individual locking point from the inside via an Emergency Release.

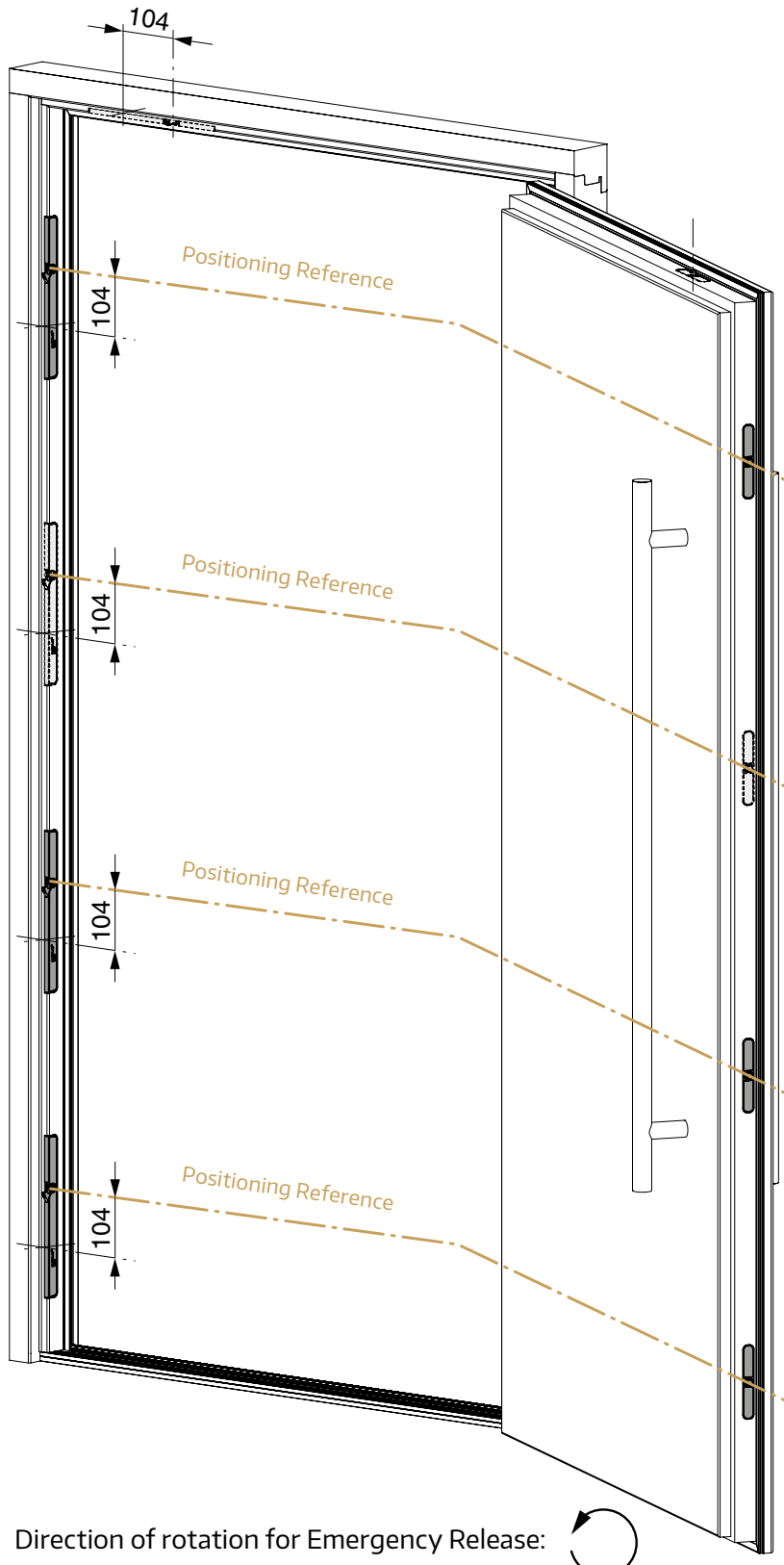
For this purpose, the unlocking tool (Art. No. 509520) as well as an Allen key with ball head (4 mm) is required.





## Emergency Release positions

DIN R

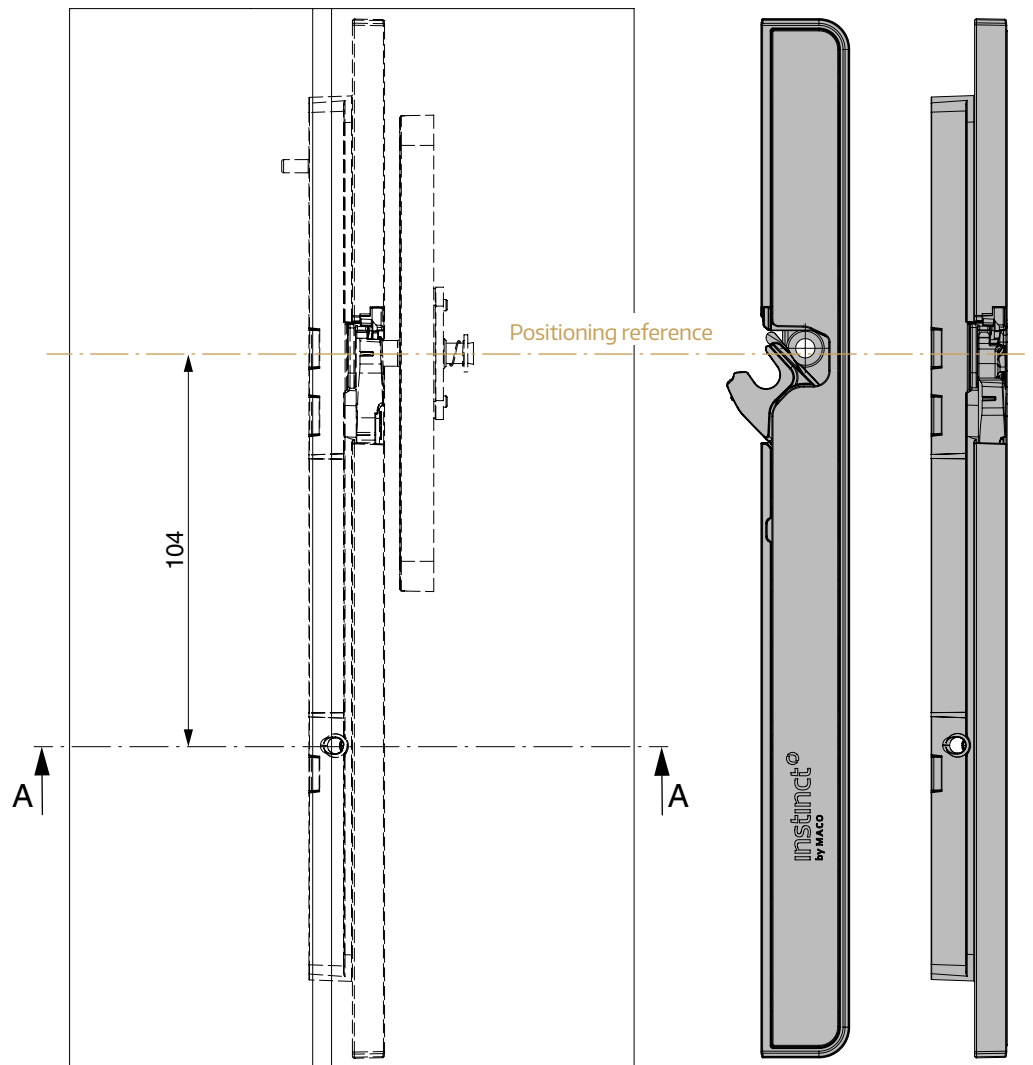
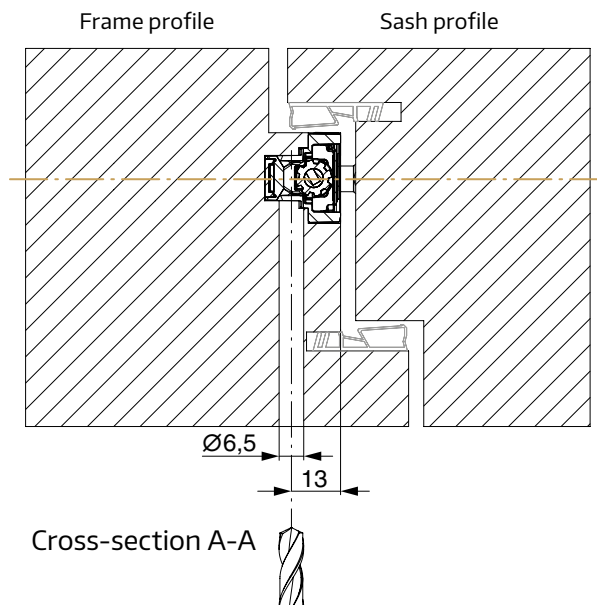


## Emergency Release drill pattern

### NOTE

In the event of a defect, it is possible to mechanically open each individual locking point from the inside via an emergency release.

For this purpose, the unlocking tool (Art. No. 509520) as well as an Allen key with ball head (4 mm) is required.



## Notes

A large rectangular area filled with a fine grid of small squares, typical of graph paper, intended for writing notes.

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» If I had asked people  
what they wanted,  
they would have said  
**faster horses.** «

Henry Ford

