WINCOR NIXDORF

Self-Service Systems

CINEO C4080

Installation Guide

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CINEO C4080

Installation Guide

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Abbreviations

C

CE	Communauté Européenne (European Community) Declaration of Conformity
CEE	Certification of Electrical Equipment
CEN	Comité Européen de Normalisation (European Committee for Standardisation)
CEN	Comité Européen de Normalisation (European Committee for Standardization)
CEN	Comité Européen de Normalisation (European Committee for Standardisation)
CEN	Comité Européen de Normalisation (European committee for standardization)
CFR	Code of Federal Regulation
CIM	Card Identification Module (security module)
CSA	Canadian Standards Association

D

DIN	German Institute for Standardization
DT	Data Transmission

E

ECB	European Certification Body
EDM	Encryption/Decryption Module
EEC	European Economic Community
EMA	Intruder alarm system
EMC	Electromagnetic Compatibility
EN	European standard
EPP	Encrypted PIN Pad

F

FCC	Federal Communications Commission

G

GmbH	Limited liability company

I

ICES	Interference Causing Equipment Standards
IP	International Protection

L

Line	Neutral Protective Earth

M

MM Modular Marker of ID card (evaluation by means of security modules like MM box or CIM 06)

R

RoHS Restriction of the use of certain Hazardous Substances (directive on restricting the use of certain harmful substances in electrical and electronic equipment)

RSI Remote Status Indicator

S

SELV Safety Extra-Low Voltage

T

TN network Power supply network in accordance with EN 60950

U

UL Underwriters Laboratories Inc.

UPS Uninterruptible Power Supply

V

VdS Association of Property Insurance Companies

Introduction

This installation guide provides all the information you require to plan and prepare installation and to set up the CINEO C4080 (Gas).

The CINEO C4080 (Gas) is available in the following versions:

- The CINEO C4080 with 4-cassette RM3 in the device versions Frontload and Rearload with the safe versions:
  - UL safe
  - CEN L4 safe
  - CEN III safe
  - CEN IV safe
- The CINEO C4080 with 5-cassette RM3 in the device versions Frontload and Rearload with the safe versions:
  - UL safe
  - CEN L4 safe
  - CEN III safe
  - CEN IV safe
- The CINEO C4080 Gas with 5-cassette RM3 in the device versions Rearload with the safe versions:
  - CEN III safe

The following accessories are available:

- Frames for:
  Complete integration
  Window frame installation
  Partial integration
- Remote status indicator (RSI):
  RSI - standard
  RSI - audio

Symbols used in this manual

– Text following this mark represents an item in a list.

" " Text in quotation marks contains references to other chapters or sections in this document.

- Paragraphs following this symbol are actions to be performed in the order in which they are specified.

Text following this symbol should be given special attention in order to avoid damage and injury.

This symbol identifies paragraphs which contain general notes to facilitate use of the device and help avoid operating errors.

Important safety precautions

Please read the following notes carefully before doing any work on the device.

Be careful not to injure your head when the customer panel or the operating unit door are lifted up!

Installation note

– When installing the device and/or doing any work on it, make sure that it is disconnected from power.

– Remove the shipping restraints inside the unit which secure its components during transportation if necessary for the installation (see enclosed information sheet).

General safety precautions

This device complies with the relevant safety regulations for information processing equipment.

- When moving the device from a cold to a warm environment, do not operate it for at least two hours to prevent possible damage caused by condensation.
- Only use the original packaging material to transport the device.
- Note the warning and information labels on the device.
- Unless otherwise stated, grasp the components only by the green ledge when handling them.
- The device is equipped with a safety-tested power cable which must be connected only to a suitable grounded outlet.
- Always hold the plug when removing the power cable. Never pull the cable itself.
- Install cables in such a way that they will not be stepped on or tripped over or damaged or crushed in any way.
- Have damaged power cables replaced immediately.
- Make sure that there is always free access to the sockets used or to the electrical circuit-breakers of the house installation.
- In case of an emergency (e.g. damaged cabinets, controls or power cables, liquids or foreign objects in the device) take the following steps:

  Deactivate the device immediately by:

  Switching off the automatic circuit-breaker or removing the fuse inset from the fuse holder in the distribution box of the building installation;

  Disconnecting the plug connector of the power supply cable from the grounded socket in the building installation;

  Switching off the ON/OFF switch on the power distributor;

  Interrupting the power connection, if there is one, between the UPS (uninterruptible power supply) and the device (see chapter “Introduction” section "General power interrupt" in the operating manual);
- During a thunderstorm, data transmission lines must not be connected or disconnected.
- Always keep the device's vents free from obstruction to ensure proper air circulation and to prevent malfunctions resulting from overheating.

- Only use accessories and extension components that have been approved by us. Nonobservance can result in damage to the device or violations of regulations concerning safety, radio interference and ergonomical requirements.
- Note that there are only safety extra-low voltage circuits (SELV circuits) if you want to feed voltage from an external source into prepared cables to install additional electronics (e. g. EMA connection, relay panel for external features).
- To clean and maintain the device only use cleaning agents approved by WINCOR NIXDORF International GmbH (see chapter "Appendix" in the operating manual).

Repairs

Repair work may only be carried out by authorized personnel.

Unauthorized opening of the device or repair work carried out improperly could result in considerable danger to the user.

In case of noncompliance, WINCOR NIXDORF International GmbH excludes all liability.

Lithium batteries

The handling and the replacement should only be performed by authorized service personnel who were trained by the WINCOR NIXDORF International GmbH.

There is danger of fire or explosion if the batteries are handled improperly. It is therefore important to note the following points:

- Avoid short circuits
- Never recharge the battery
- Avoid temperatures above +100 °C (+212 °F).
- Do not try to open the battery by force
- Do not allow the battery to come in contact with water or fire

The battery should only be replaced with the same or an equivalent type recommended by WINCOR NIXDORF International GmbH (see chapter “Appendix,” section “Consumables”).
Dispose of used batteries in compliance with national regulations and the manufacturer's specifications.

Start-up

Before operating the device, remove all parts inside of it which secure its components during transportation or check whether they have been removed (see info sheet supplied with the device).

Planning the installation

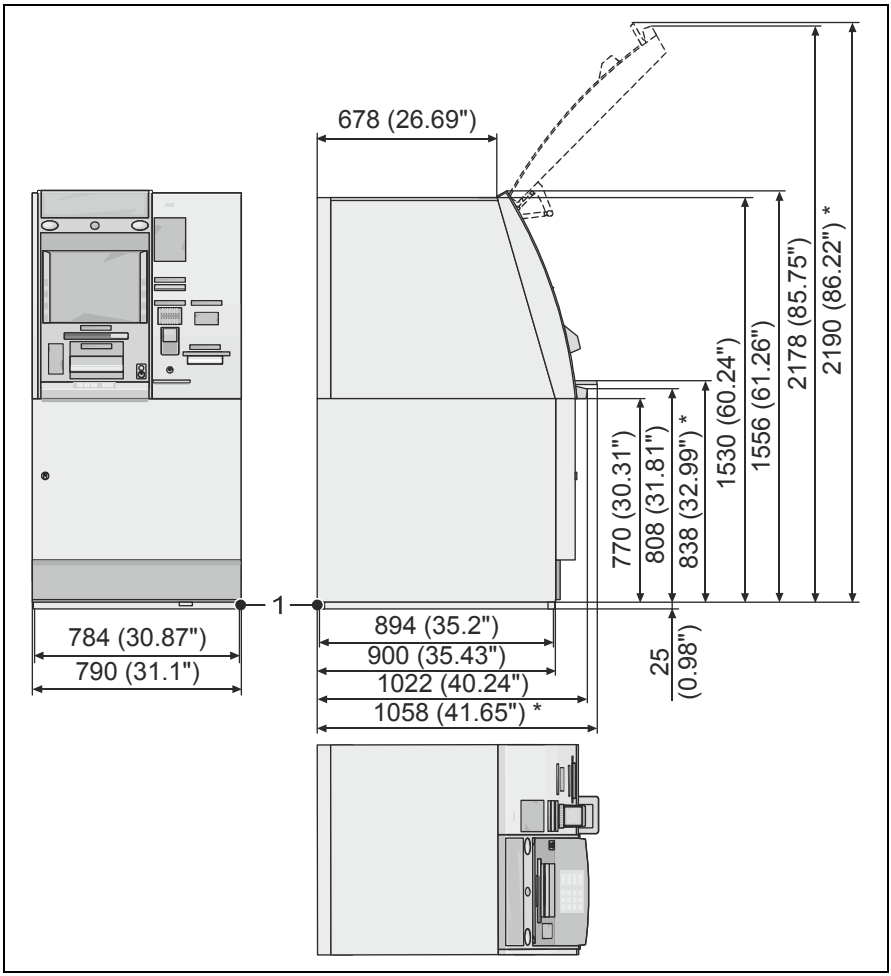
This chapter provides you with all the information you need to prepare the installation.

Device dimensions

i All dimensions are specified in millimeters (inches). The device views are not drawn to scale.

Frontload device version with standard door

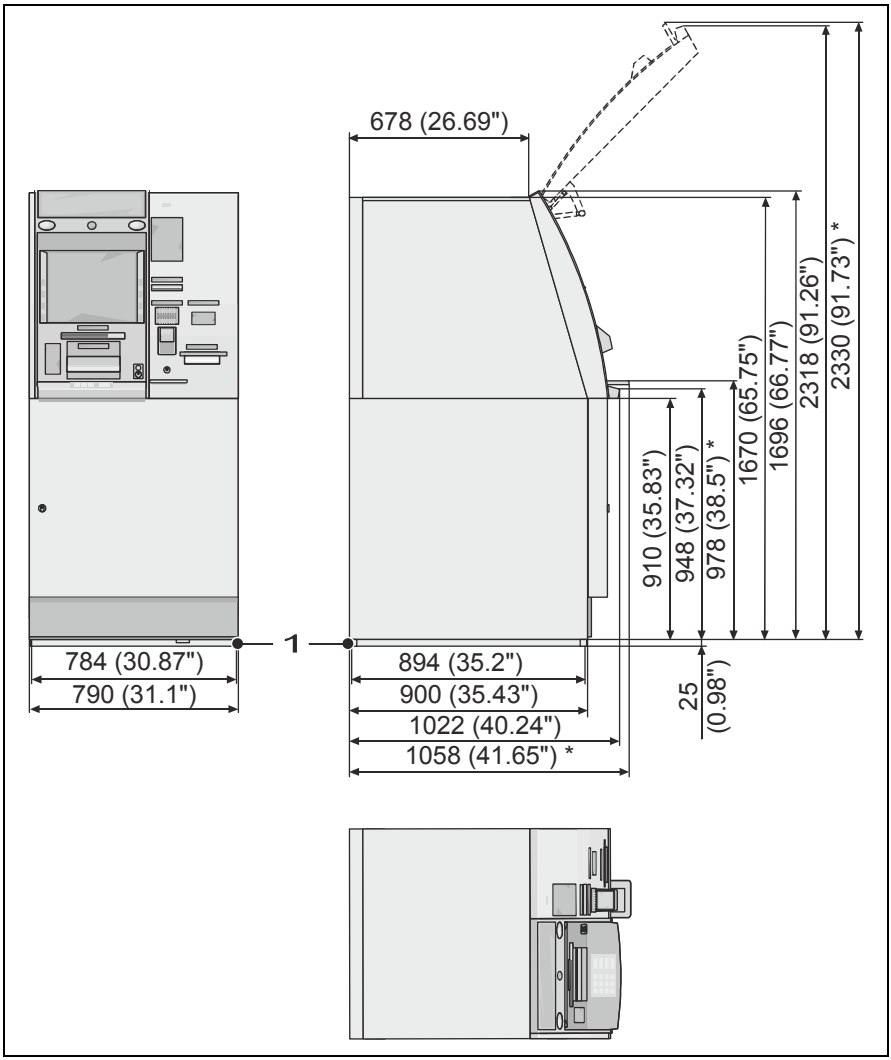
CINEO C4080 with 4-cassette RM3



1 Installation frame

* These measures only apply to devices with a barcode reader.

CINEO C4080 with 5-cassette RM3

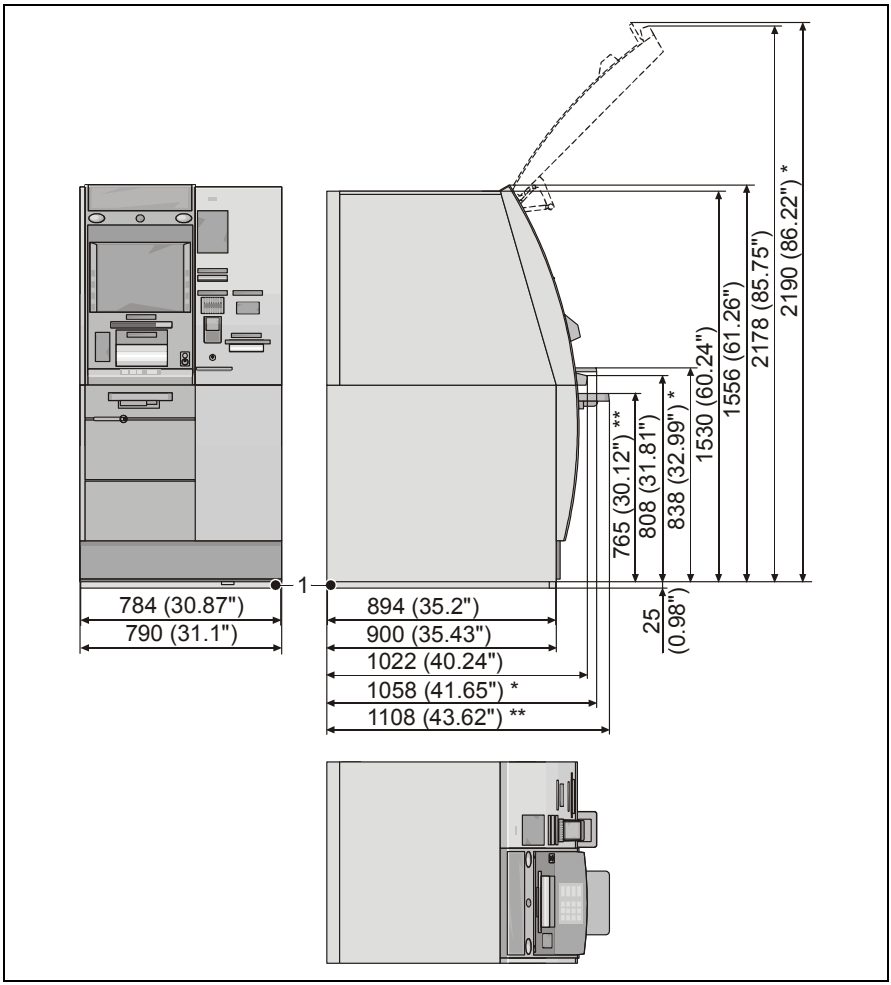


1 Installation frame

* These measures only apply to devices with a barcode reader.

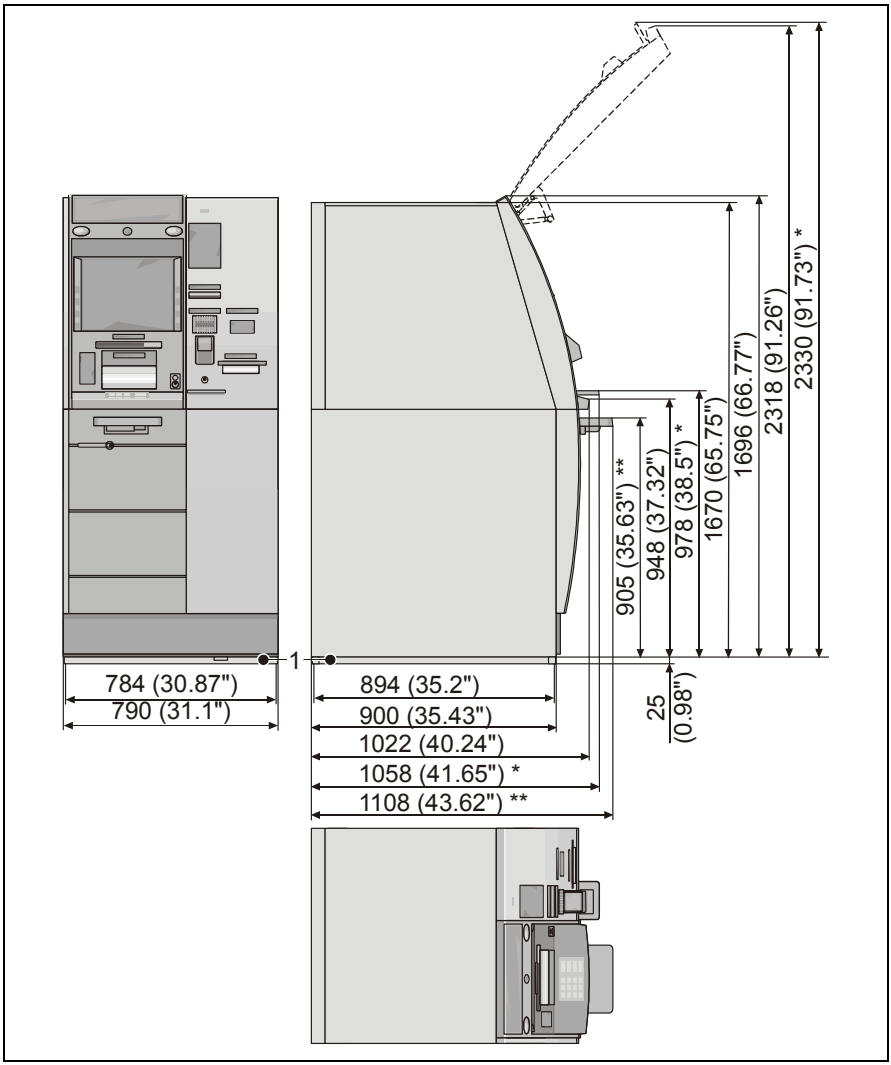
Frontload device version with design door

CINEO C4080 with 4-cassette RM3



1 Installation frame
* These measures only apply to devices with a barcode reader.
** These dimensions only apply for devices with courtesy shelf

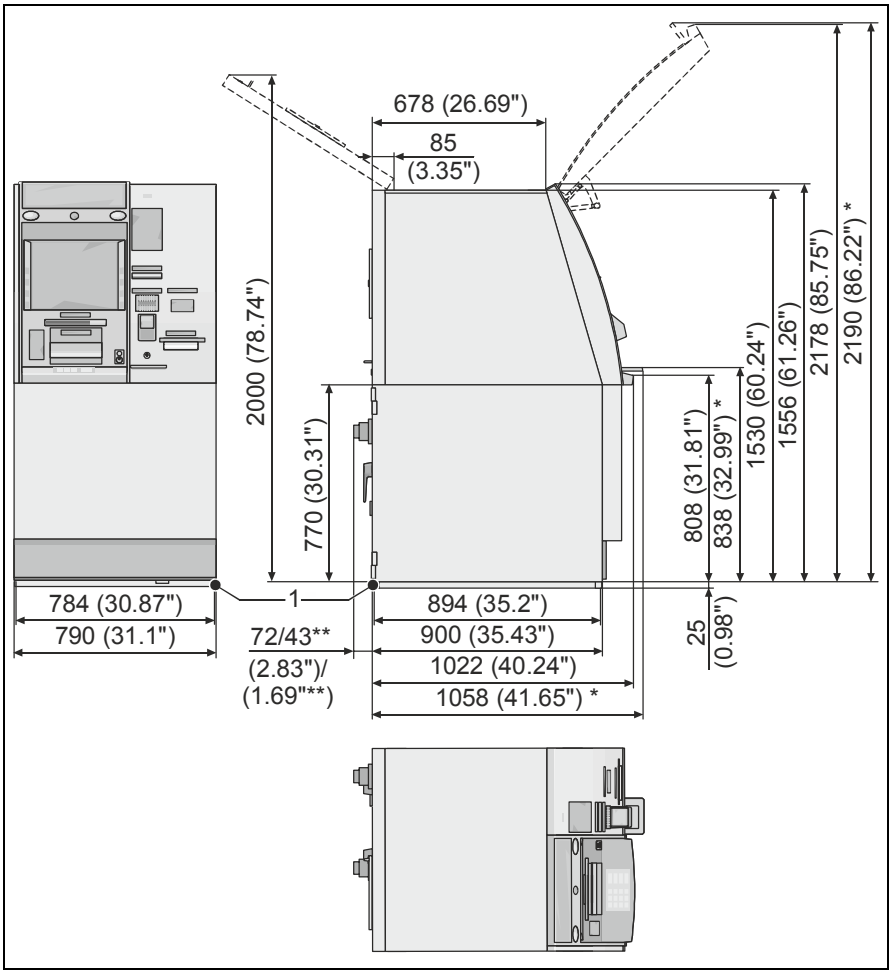
CINEO C4080 with 5-cassette RM3



1 Installation frame
* These measures only apply to devices with a barcode reader.
** These dimensions only apply for devices with courtesy shelf

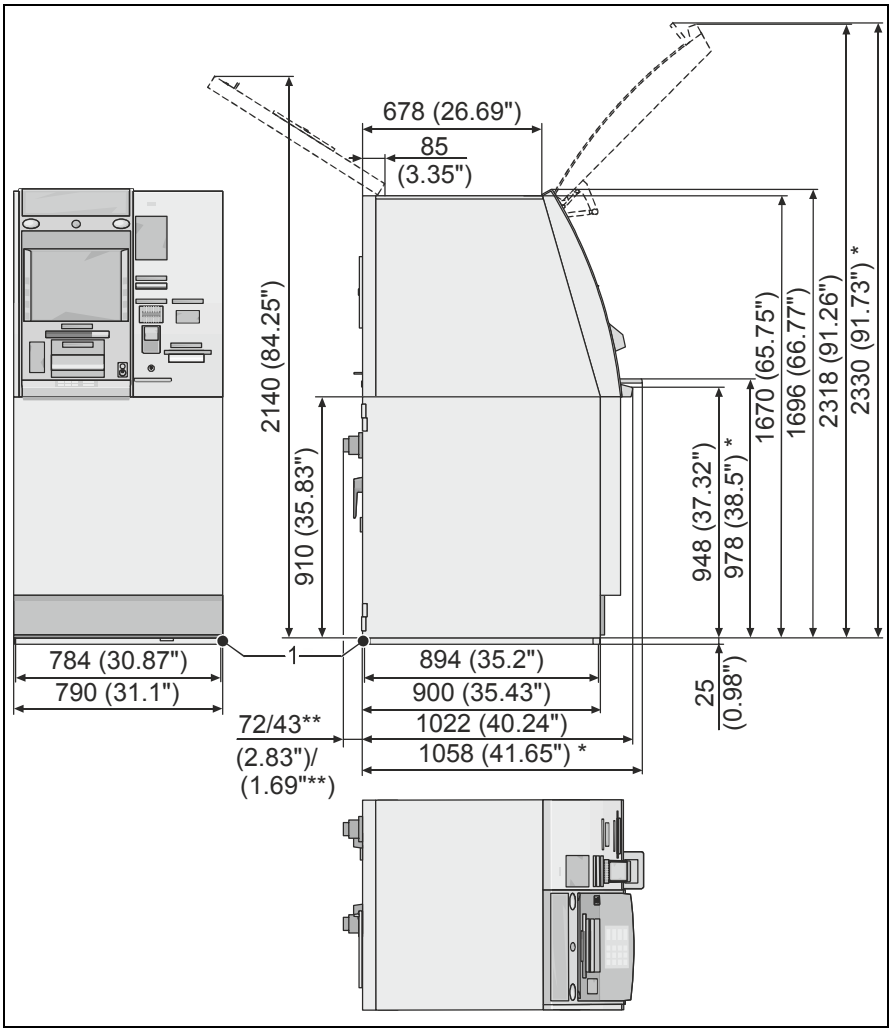
Rearload version with standard door

CINEO C4080 with 4-cassette RM3



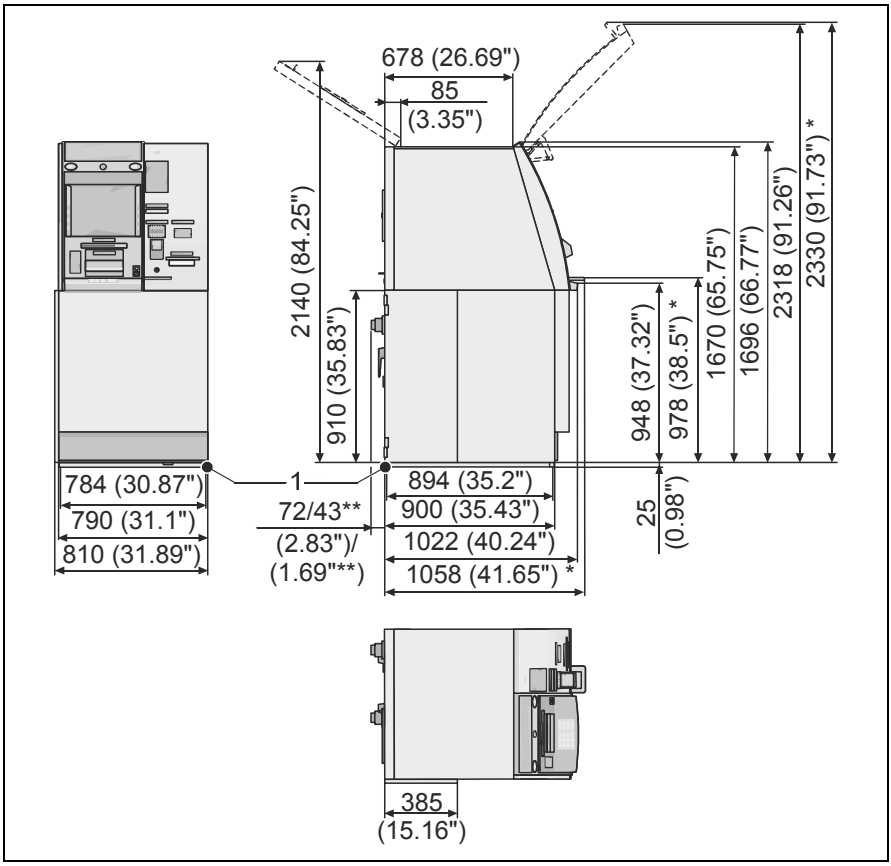
1 Installation frame
* These measures only apply to devices with a barcode reader.
** Standard lock: 43 mm (1.69")
Customer-specific lock: max. 72 mm (2.83")

CINEO C4080 with 5-cassette RM3



1 Installation frame
* These measures only apply to devices with a barcode reader.
** Standard lock: 43 mm (1.69")
Customer-specific lock: max. 72 mm (2.83")

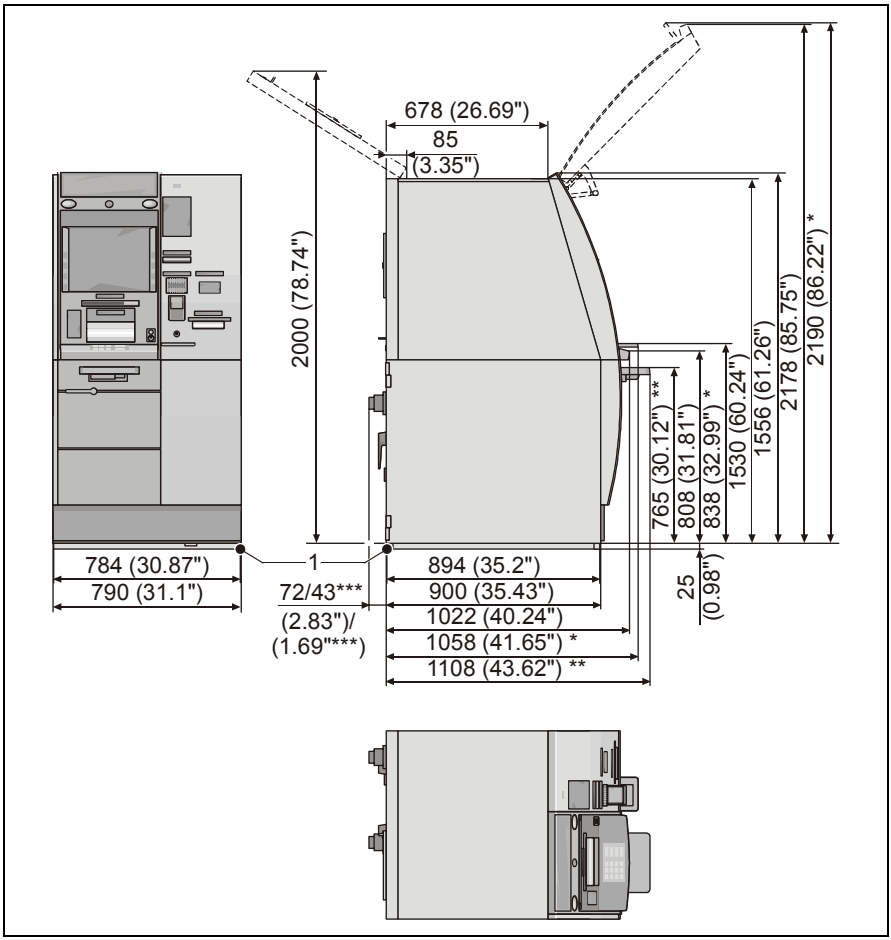
CINEO C4080 Gas with 5-cassette RM3



1 Installation frame
* These measures only apply to devices with a barcode reader.
** Standard lock: 43 mm (1.69")
Customer-specific lock: max. 72 mm (2.83")

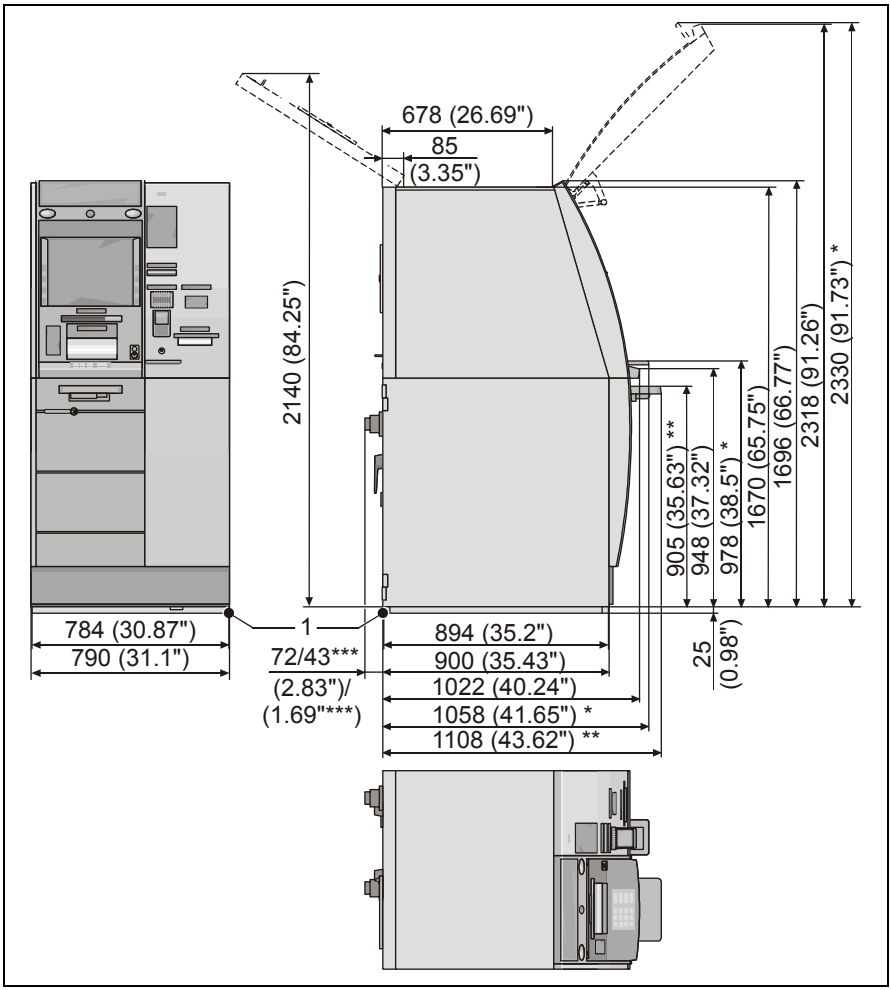
Rearload version with design door

CINEO C4080 with 4-cassette RM3



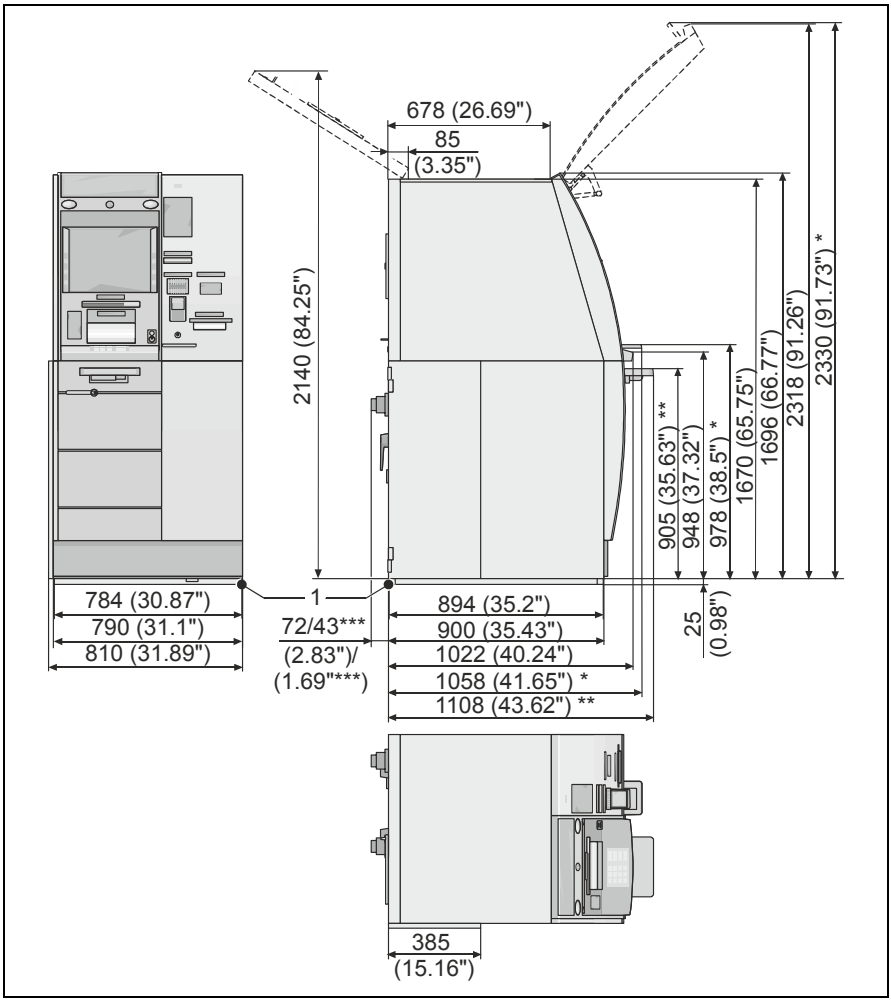
1 Installation frame
* These measures only apply to devices with a barcode reader.
** These dimensions only apply for devices with courtesy shelf
*** Standard lock: 43 mm (1.69")
Customer-specific lock: max. 72 mm (2.83")

CINEO C4080 with 5-cassette RM3



1 Installation frame
* These measures only apply to devices with a barcode reader.
** These dimensions only apply for devices with courtesy shelf
*** Standard lock: 43 mm (1.69")
Customer-specific lock: max. 72 mm (2.83")

CINEO C4080 Gas with 5-cassette RM3



1 Installation frame
* These measures only apply to devices with a barcode reader.
** These dimensions only apply for devices with courtesy shelf
*** Standard lock: 43 mm (1.69")
Customer-specific lock: max. 72 mm (2.83")

Installation options of device versions

The device with the design door or design cover sheet is shown in the following illustrations. The details are the same for the device with the standard door or standard cover sheet.

For safety reasons we recommend installing a rearload unit through the wall (see possible installation with frame).

When installing a rearload device as a free-standing ATM or when installing the frontload device always contact your insurance company beforehand.

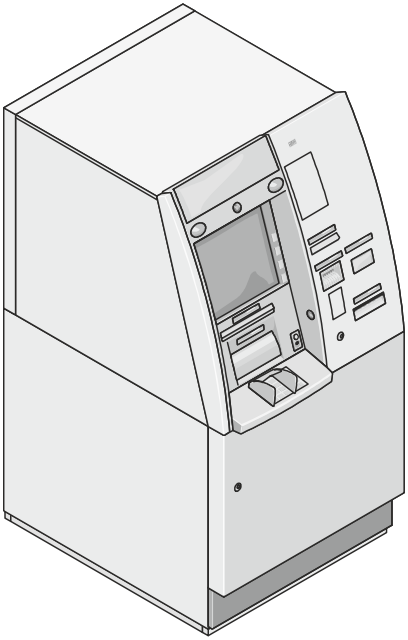
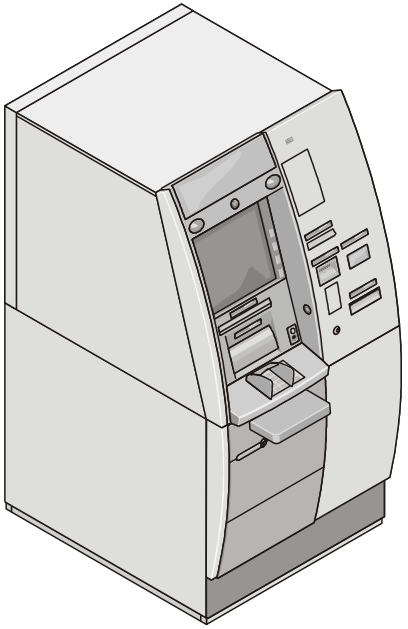
In case of doubt contact your Wincor Nixdorf consultant.

Possible installation	Frontload with		Rearload with		
	4-cassette RM3	5-cassette RM3	4-cassette RM3	5-cassette RM3	
	Standard	Standard	Standard	Standard	Gas
Installation without frame (free-standing)	yes	yes	yes	yes	yes
Installation with frame for complete integration	no	no	yes	yes	no
Installation with window frame	no	no	yes	yes	no
Installation with frame for partial integration in the wall	yes	yes	yes	yes	no

Observe the necessary operation and maintenance space for the various types of installation (see section "Space required for operation and maintenance").

The area specified for the installation of the frame requires a short tool (see section "Required operation and maintenance space").

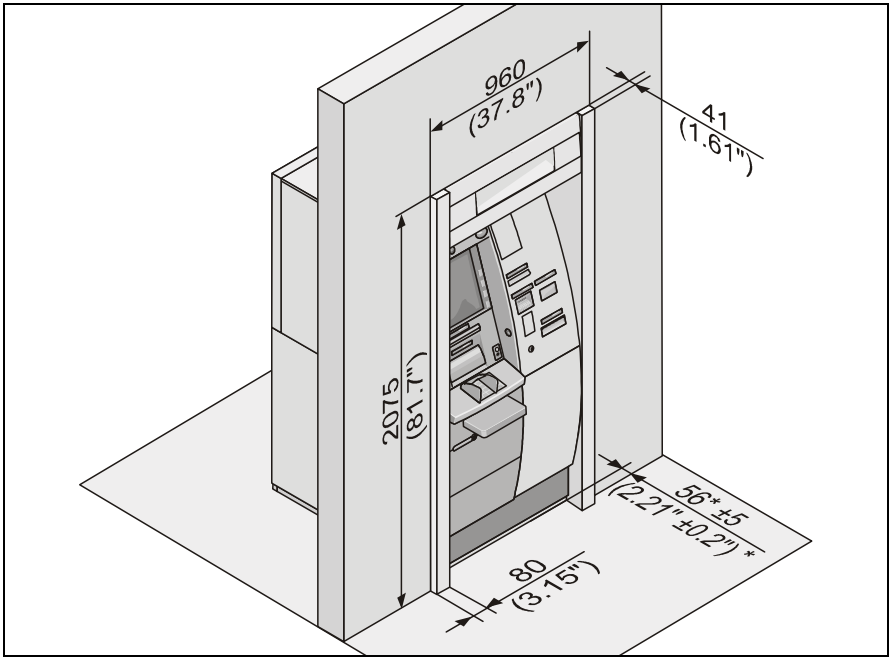
Installation without frame (free-standing)

Standard door/cover sheet	Design door/cover sheet
	

Installation with frame for complete integration

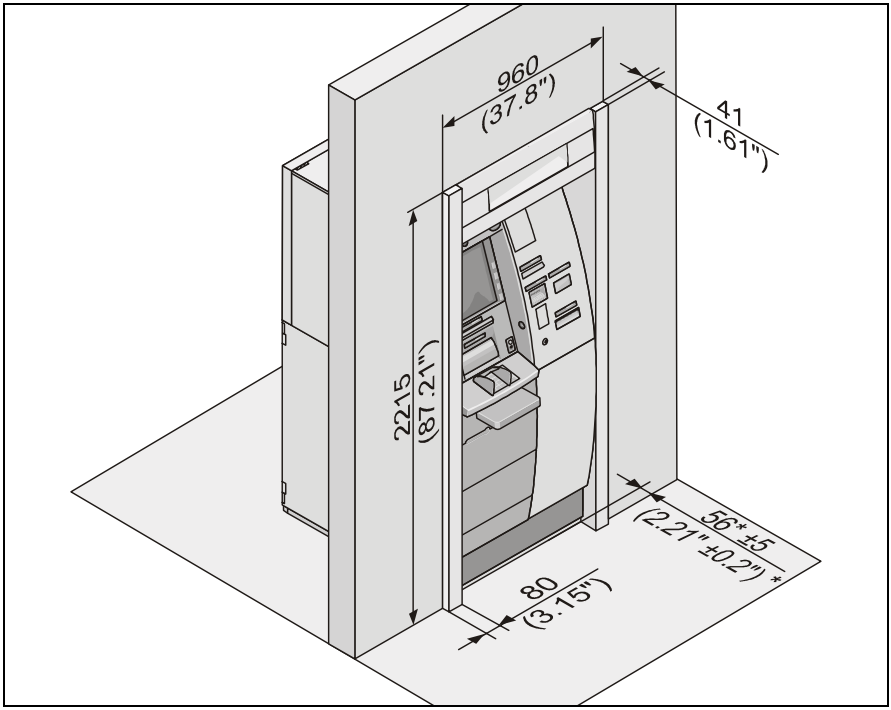
Frame for complete integration with attached logo case

CINEO C4080 with 4-cassette RM3



* If the CINEO C4080 is installed with a frame for integration in the wall, the unit will not be flush with the wall. This must be taken into account when laying the flooring (see chapter "Installation", section "Installation with frame for complete integration").

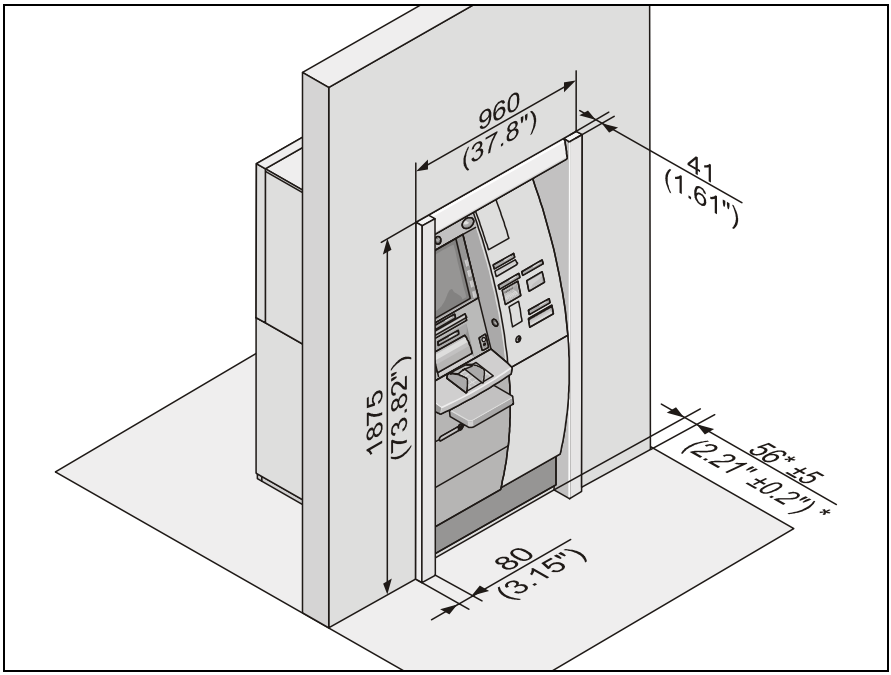
CINEO C4080 with 5-cassette RM3



* If the CINEO C4080 is installed with a frame for integration in the wall, the unit will not be flush with the wall. This must be taken into account when laying the flooring (see chapter "Installation", section "Installation with frame for complete integration").

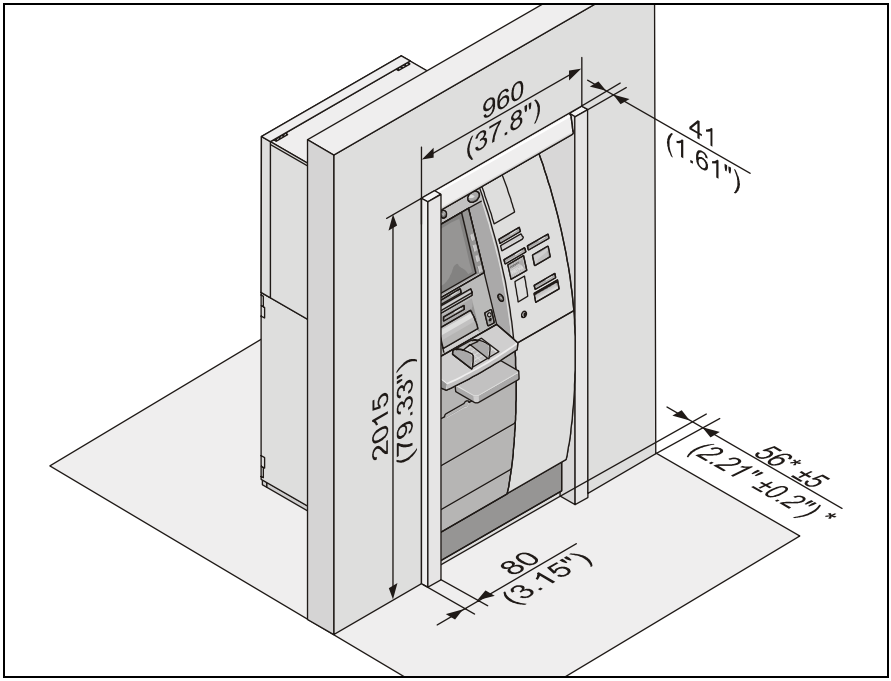
Frame for complete integration without attached logo case

CINEO C4080 with 4-cassette RM3



* If the CINEO C4080 is installed with a frame for integration in the wall, the unit will not be flush with the wall. This must be taken into account when laying the flooring (see chapter "Installation", section "Installation with frame for complete integration").

CINEO C4080 with 5-cassette RM3

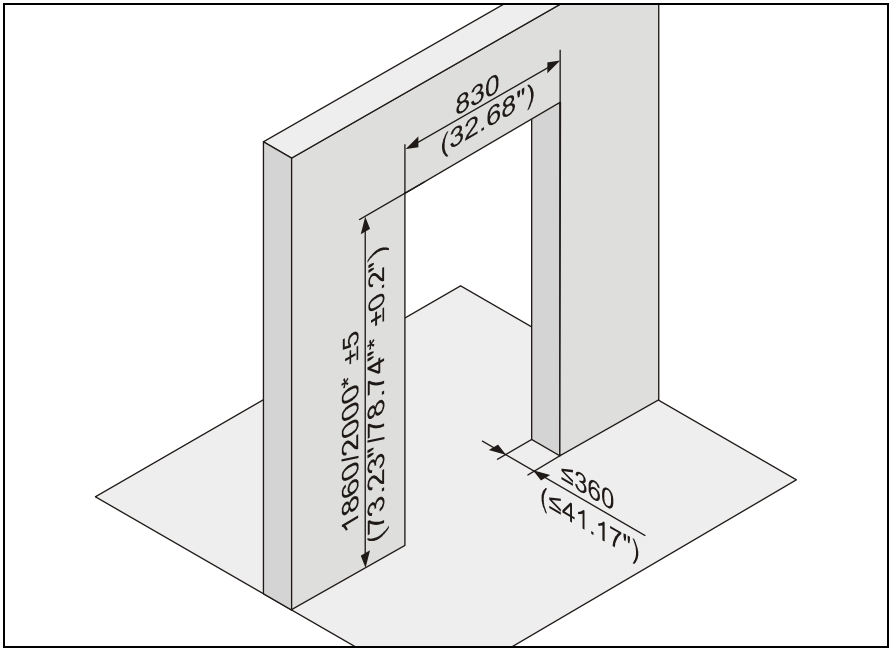


* If the CINEO C4080 is installed with a frame for integration in the wall, the unit will not be flush with the wall. This must be taken into account when laying the flooring (see chapter "Installation", section "Installation with frame for complete integration").

Wall cutout for installation with frame for complete integration

If a CINEO C4080 is to be installed with a frame for complete integration in the wall, a wall cutout must be provided as shown in the figure below.

i The wall cutout applies for both frames for complete integration with an attached logo case and frames for complete integration without an attached logo chase.

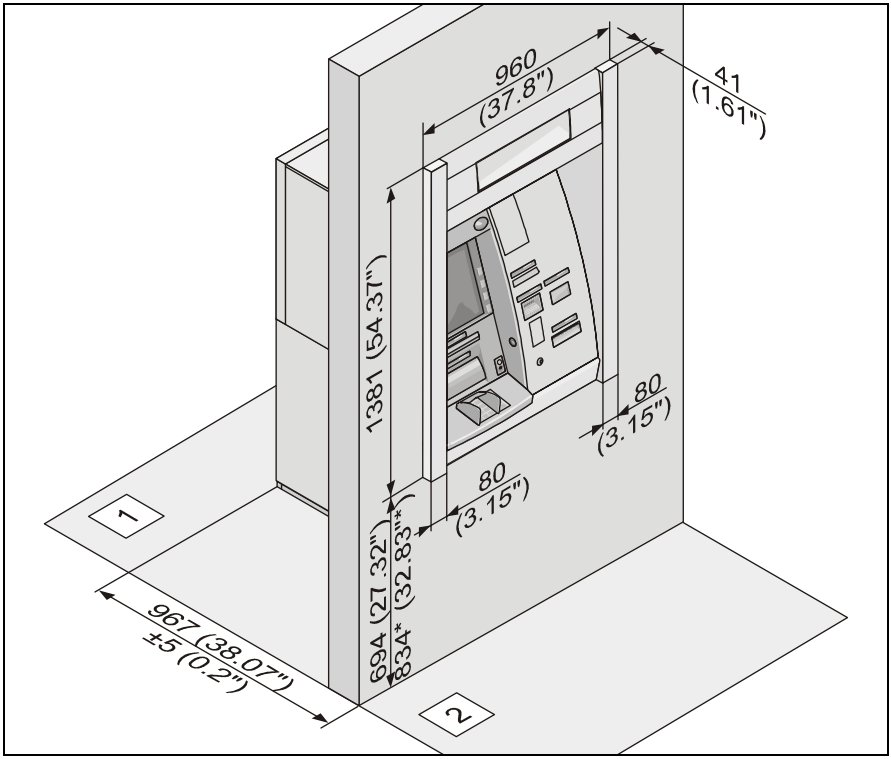


* Devices with 5-cassette RM3

Installation with window frame

Window frame with attached logo case

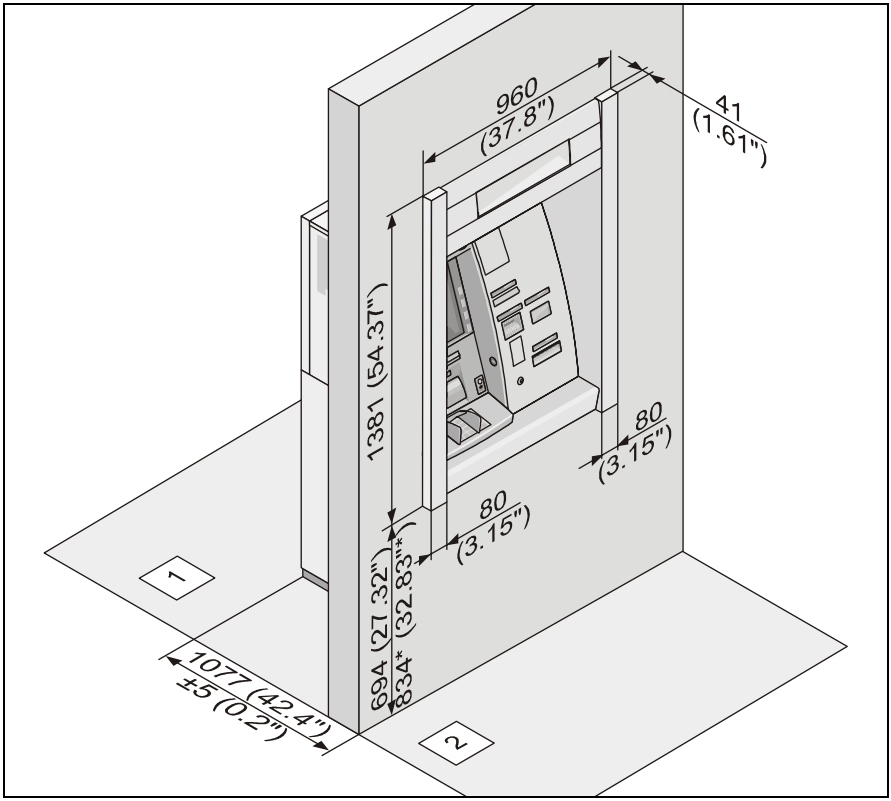
Frame for a wall thickness of up to 50 mm max. (1.97")



1 Inside wall (device side)
2 Outside wall

* Devices with 5-cassette RM3

Frame for a wall thickness of up to 160 mm max. (6.30")

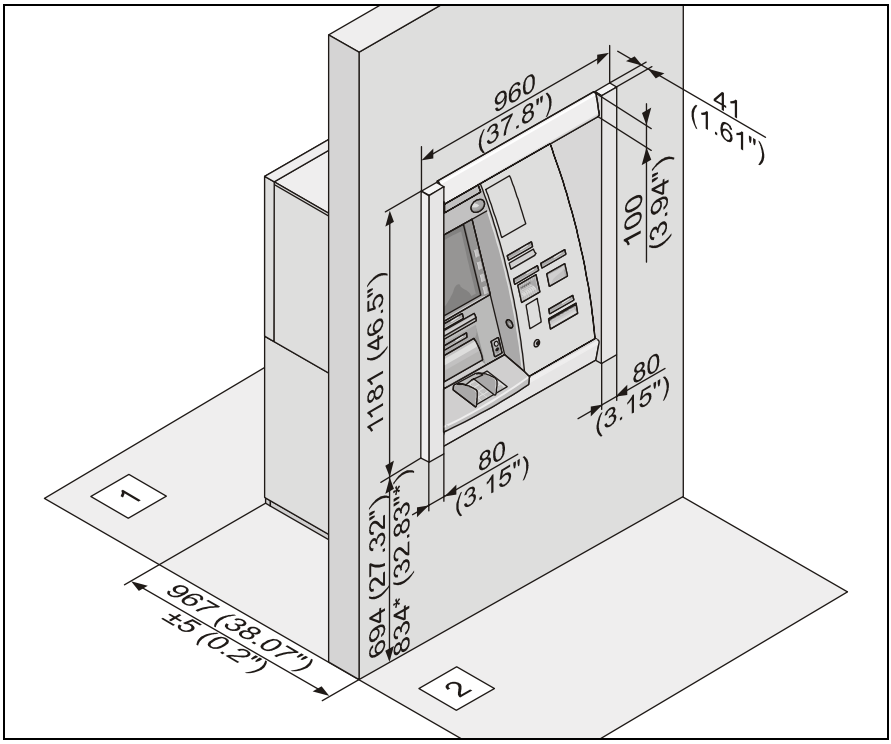


1 Inside wall (device side)
2 Outside wall

* Devices with 5-cassette RM3

Window frame without attached logo case

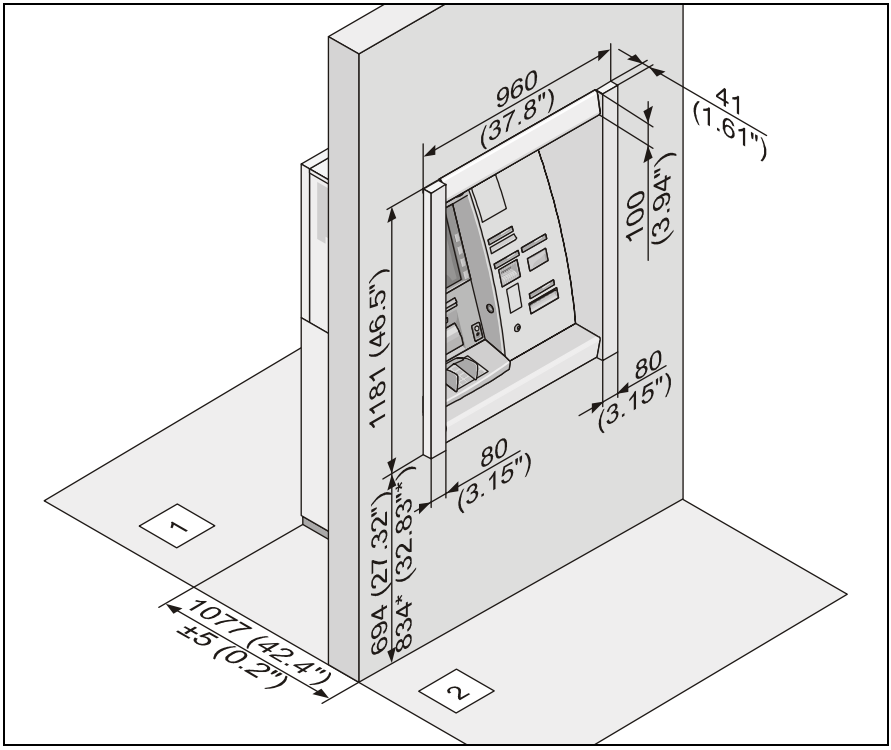
Frame for a wall thickness of up to 50 mm max. (1.97")



1 Inside wall (device side)
2 Outside wall

* Devices with 5-cassette RM3

Frame for a wall thickness of up to 160 mm max. (6.30")



1 Inside wall (device side)
2 Outside wall

* Devices with 5-cassette RM3

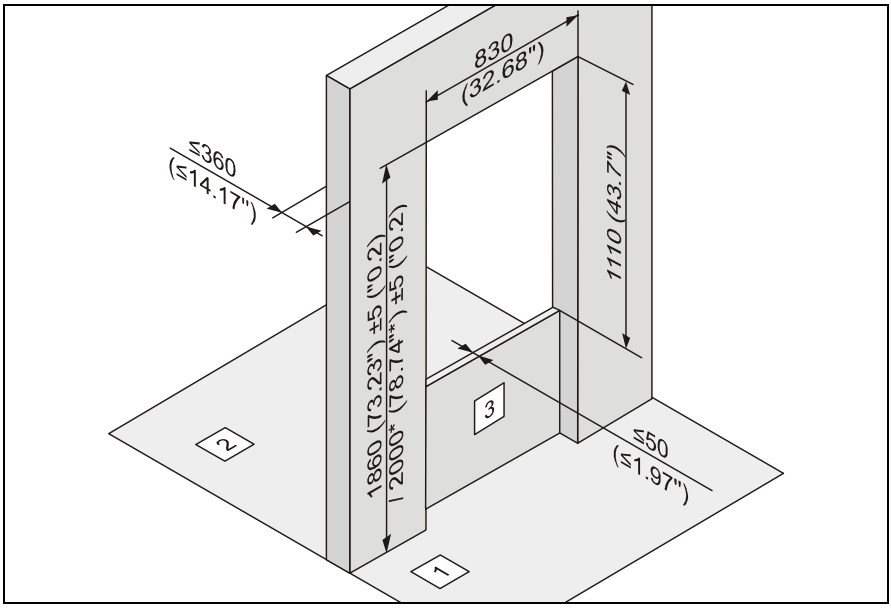
Wall cutout for installation with window frame

If a CINEO C4080 is to be installed with a window frame, a wall cutout must be provided as shown in the figure below.

i Between the front of the CINEO C4080 and the wall traverse there has to be a distance of at least 20 mm (0.79") because of the air ventilation. This ventilation area should not be overbuild.

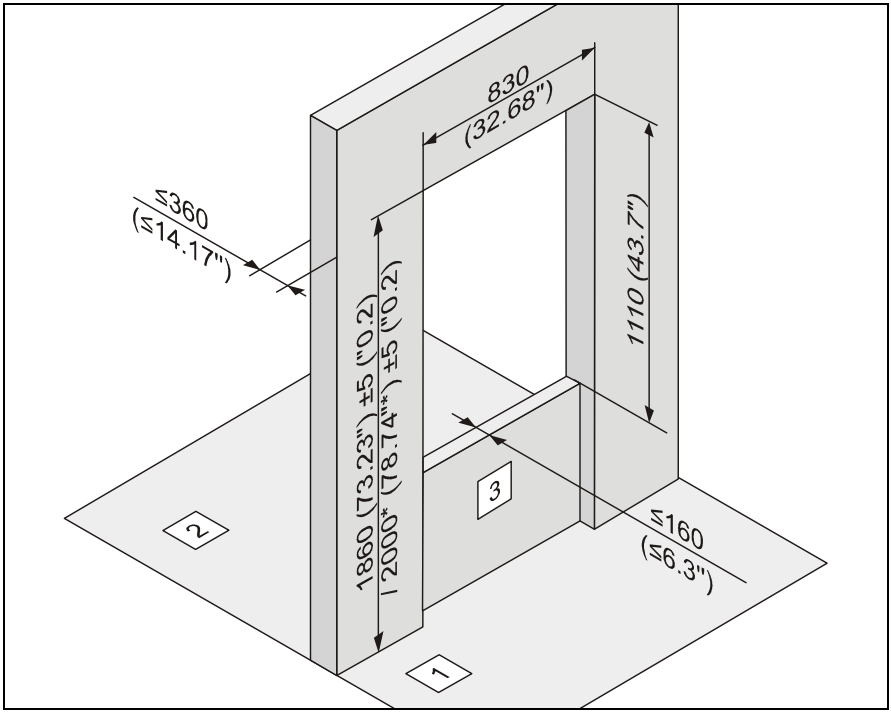
The wall cutout applys for both window frames with an attached logo case and window frames without an attached logo chase.

Wall thickness 50 mm (1.97")



1 Inside wall (device side)
2 Outside wall
3 Wall traverse
* Devices with 5-cassette RM3

Wall thickness 160 mm (6.3")

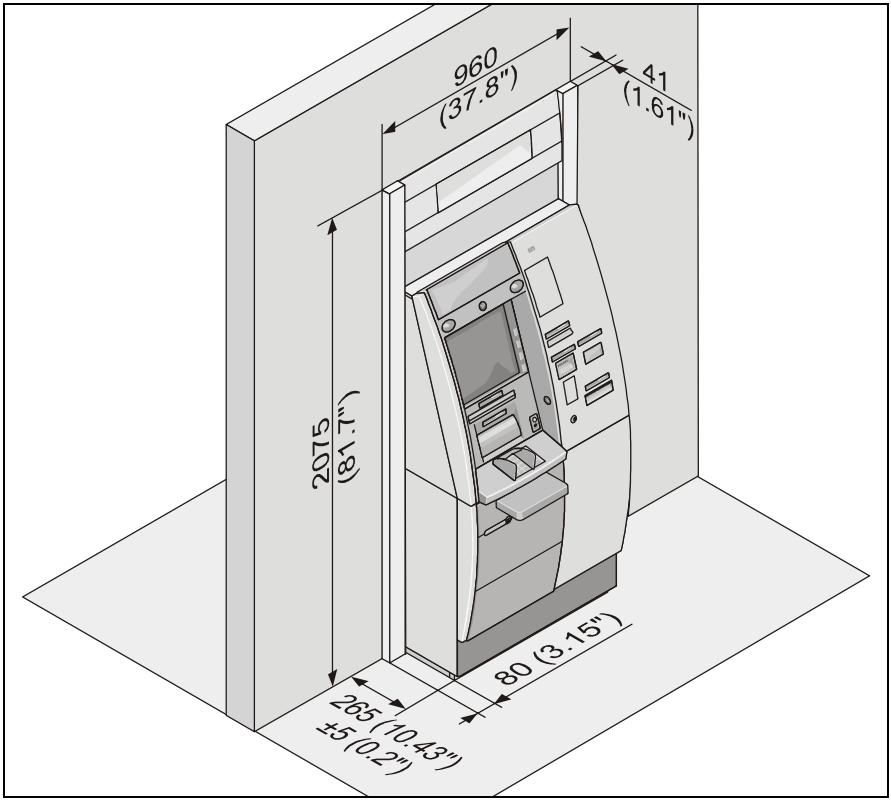


1 Inside wall (device side)
2 Outside wall
3 Wall traverse
* Devices with 5-cassette RM3

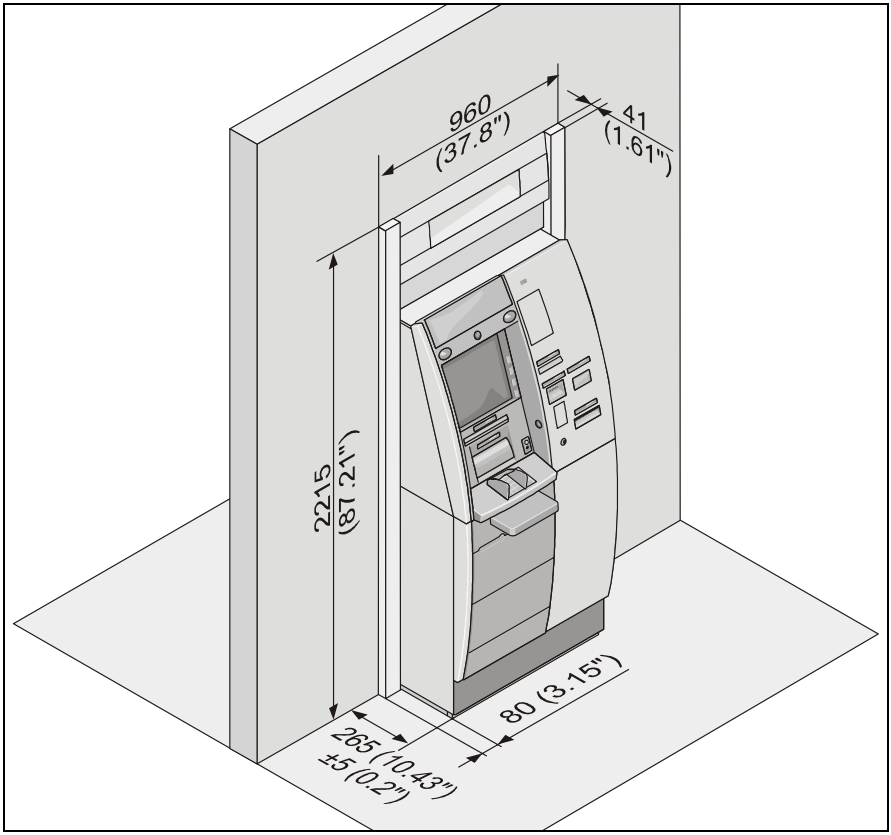
Installation with frame for partial integration in the wall

Frame for partial integration with attached logo case

CINEO C4080 with 4-cassette RM3

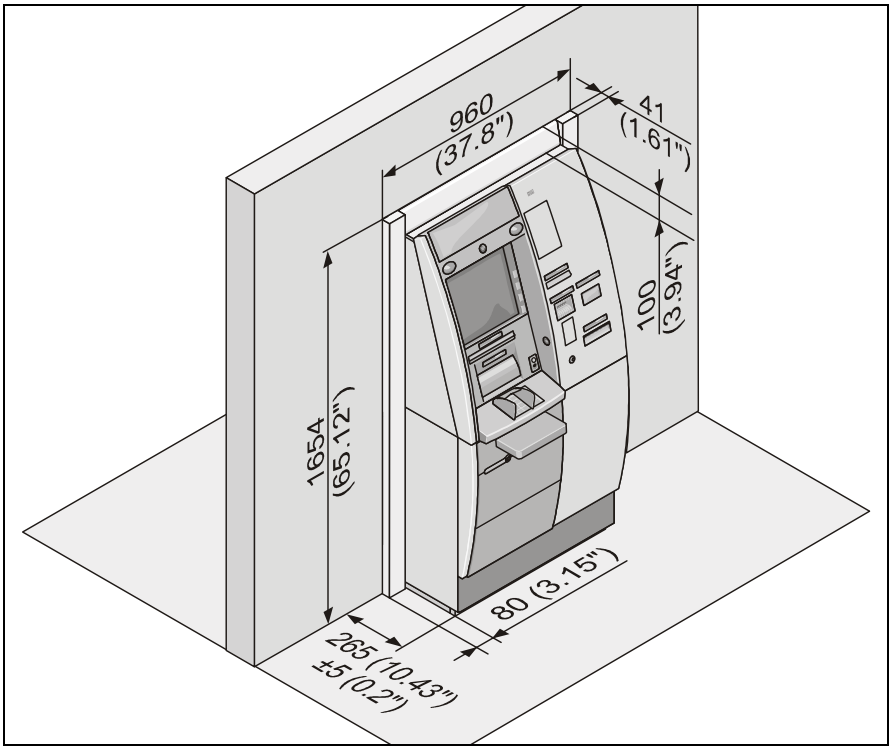


CINEO C4080 with 5-cassette RM3

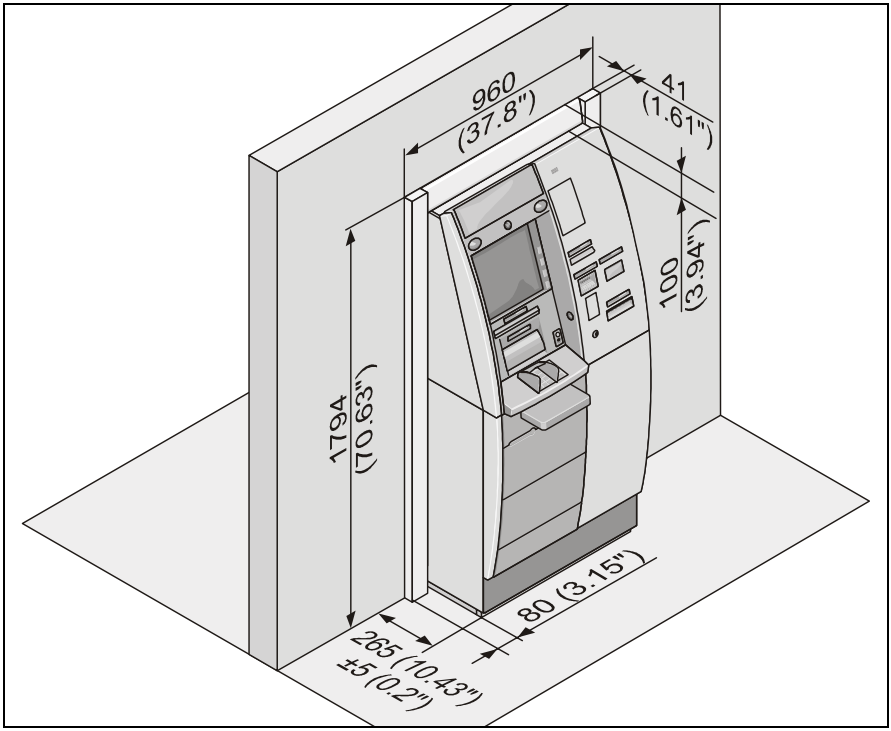


Frame for partial integration without attached logo case

CINEO C4080 with 4-cassette RM3



CINEO C4080 with 5-cassette RM3

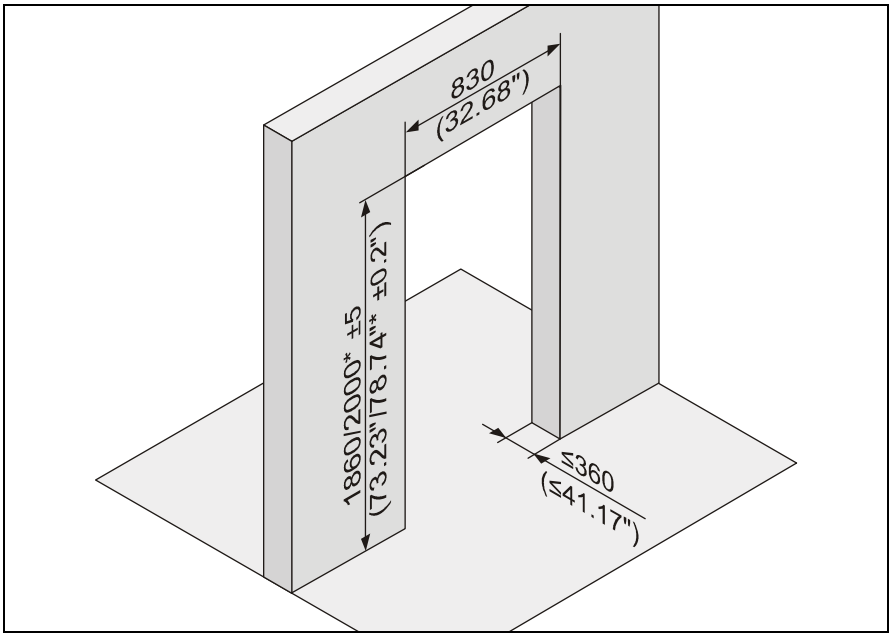


Wall opening for installing the device with a frame for partial integration

If a CINEO C4080 is to be installed with a frame for partial integration in the wall, a wall cutout must be provided as shown in the figure below.

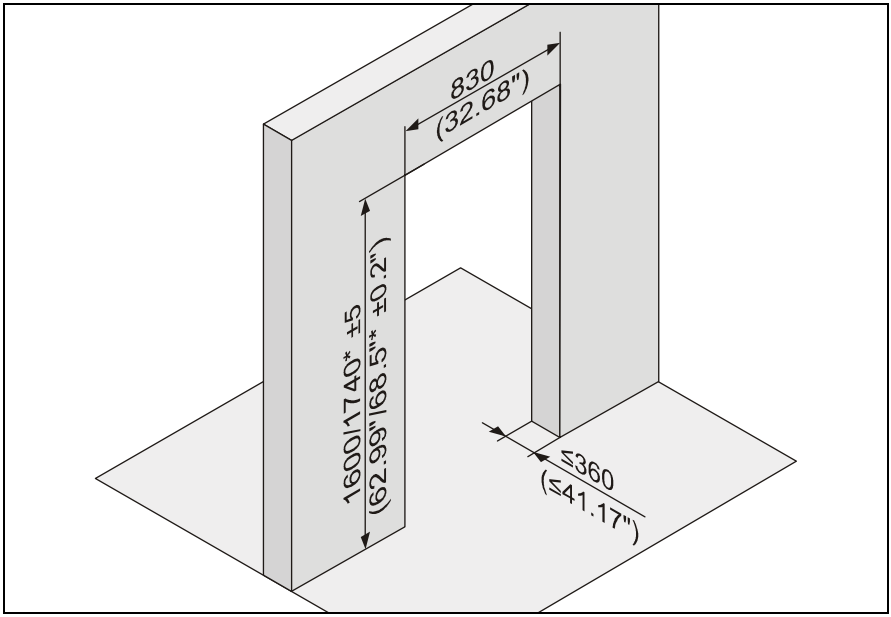
i The attached logo case requires a higher wall cutout.

Wall opening for installing the device with a frame for partial integration with attached logo case



* Devices with 5-cassette RM3

Wall opening for installing the device with a frame for partial integration without attached logo case

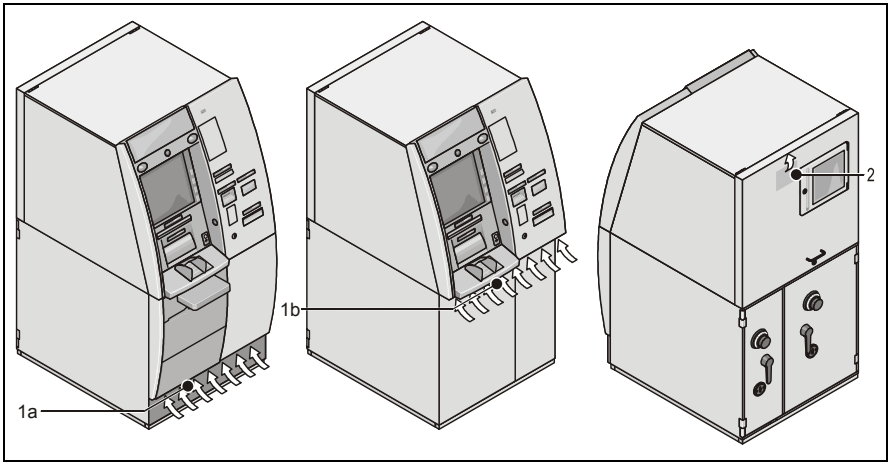


* Devices with 5-cassette RM3

Vent

The device with the design door or design cover sheet is shown in the following illustrations. The details are the same for the device with the standard door or standard cover sheet.

The device features forced air ventilation on the rear side by means of a built-in fan. Make sure that the distance between the vents and the wall is always at least 50 mm (1.97") (see also section "Space required for operation and maintenance").



1a Air inlet
1b Air inlet with window frame
2 Air outlet

Storage if construction work is not yet complete

If interior construction work is not complete when installation is planned, the device must be protected from damage caused by building dust. You may use the plastic packing of the system for this purpose.

Necessary operation and maintenance space

i If the CINEO C4080 is equipped with an ASKIM II DD, there has to be a distance of at least 3 m (9.8 ft) between the electronic article surveillance and the card input of the CINEO C4080.

The illustrations below show the necessary operation and maintenance space for the frontload and rearload version.

Ventilation area

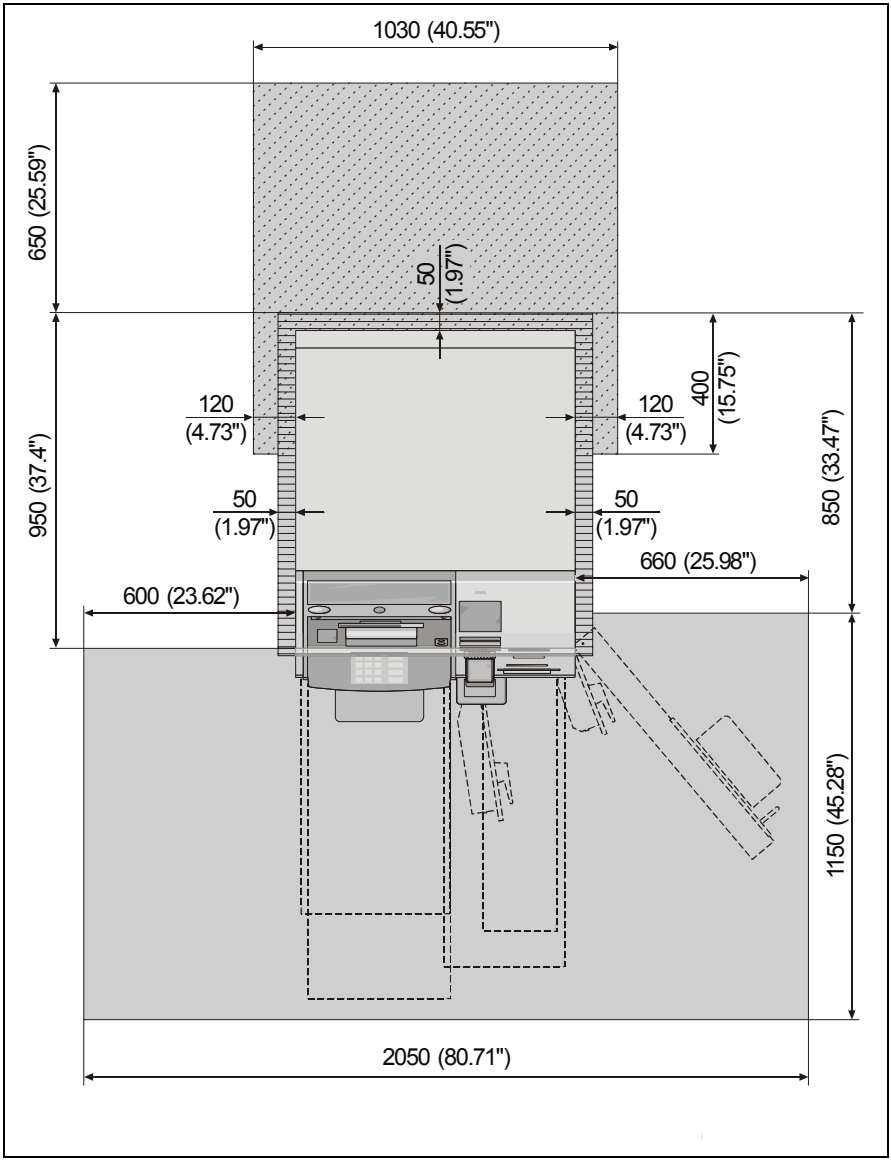
Operation and maintenance space

Area for frame installation

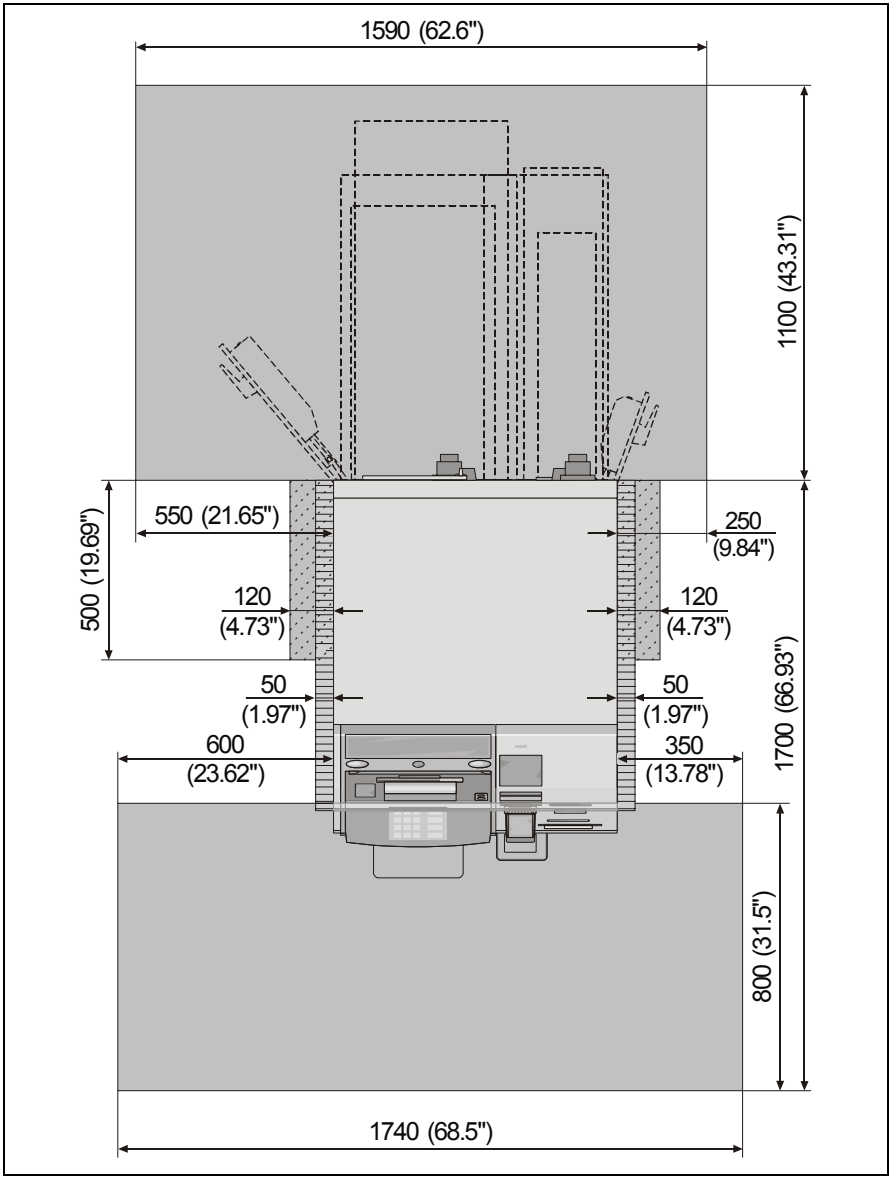
i The area specified for the installation of the frame requires a short tool.

(See illustrations on the following pages)

Frontload version



Rearload version



Installation site requirements

The floor space must be flat and level with the surrounding floor. Any unevenness in the floor must be leveled out, for example, by using rustproof shims. This is not part of the installation procedure, but must be done by a contractor.

When choosing the installation site, make sure that

- bright room lighting, light reflections and direct sunlight shining on the screen or display and on camera panes are avoided,
- the distance to the electronic article surveillances can be maintained (see section "Space required for operation and maintenance"),
- the requirements concerning ambient conditions can also be met in the vicinity of lobbies (see chapter "Appendix", section "Technical data"),
- available underfloor heating, energy and/or communication cables, etc. are not damaged when drilling the mounting holes.

If necessary, corresponding arrangements must be made.

i When selecting the installation site, noise emission should be taken into account.

Fans in operation or the noise produced during a transaction could disturb people in the immediate vicinity of the device and may therefore need to be diminished with soundproofing (e.g. sound insulation walls, etc.).

They must comply with the environmental conditions that apply to the specific device (see chapter "Appendix", section "Technical data") and the maintenance areas (see section "Space required for operation and maintenance").

Load-carrying capacity

Ensure that the installation site has the required load-carrying capacity. You will find the relevant device weight in the section "Installation specifications" in the chapter "Appendix".

Notes on floor mounting

To achieve the security level stipulated by country-specific regulations and meet the requirements of commercial insurance companies, the device must be bolted to the load-bearing substructure of the floor.

Protection from removal by force in compliance with EN and VdS / ECB•S guidelines

i According to the applicable guidelines VdS 2450 / ECB•S C10 and EN 1143-1 the safe and the installation frame form one unit.
For this reason CEN safes may only be mounted with the certified and approved installation frames.
If the guidelines are not observed, the CEN certification becomes invalid.

The device must be screwed to the load-bearing substructure of the installation site or mounted on a suitable base.

Using the prescribed mounting materials, the following values relating to resistance to removal of the safe from the installation frame are reached:

Resistance level (Resistance grade)	**Minimum force required**
L 4	50 kN
III	50 kN
IV	100 kN

The operator must provide a suitable base to protect it from removal by force. We recommend reinforced concrete B25 (EN206 C20/25) or a higher-quality concrete.

i Installation on raised or cavity flooring as well as on a floating floor is not permissible according to the CEN standard.
In case of a mounting structure other than the one specified in the respective sections "Mounting the installation frame" in the chapter "Installation", always contact your insurance company beforehand.

Installation frame

General

A CINEO C4080 cannot be installed without the installation frame.

The installation frame is secured to the floor at the attachment points (see section "Drilling diagrams").

Then the device (safe) is screwed to the installation frame.

How the safe is secured on the installation frame depends on the safe construction type (UL, CEN L4, CEN III, CEN IV). For CEN safes, the safe construction types are distinguished in resistance grades. The label showing the resistance level is located on the inside of the safe door.

Openings which are not used have to be closed by putting in the filling pieces.

i For mounting material see section "Mounting sets" in the chapter "Installation".

Securing the installation frame

The installation frame needs to be anchored in the floor at **four** attachment points regardless of the safe construction type (UL, CEN L4, CEN III, CEN IV). These attachment points are at position (1). Mounting points (2) serve as alternative attachment points (see following illustrations).

The supplied installation frame can be used for the Frontload and Rearload versions. Take note of the alignment of the installation frame.

i If the mounting set is not provided, use equivalent fastening material.

Dimensions of safe attachment points

The installation frame must be secured using **one** threaded rod per group of holes A to D. The installation frame is secured with a total of four threaded rods.

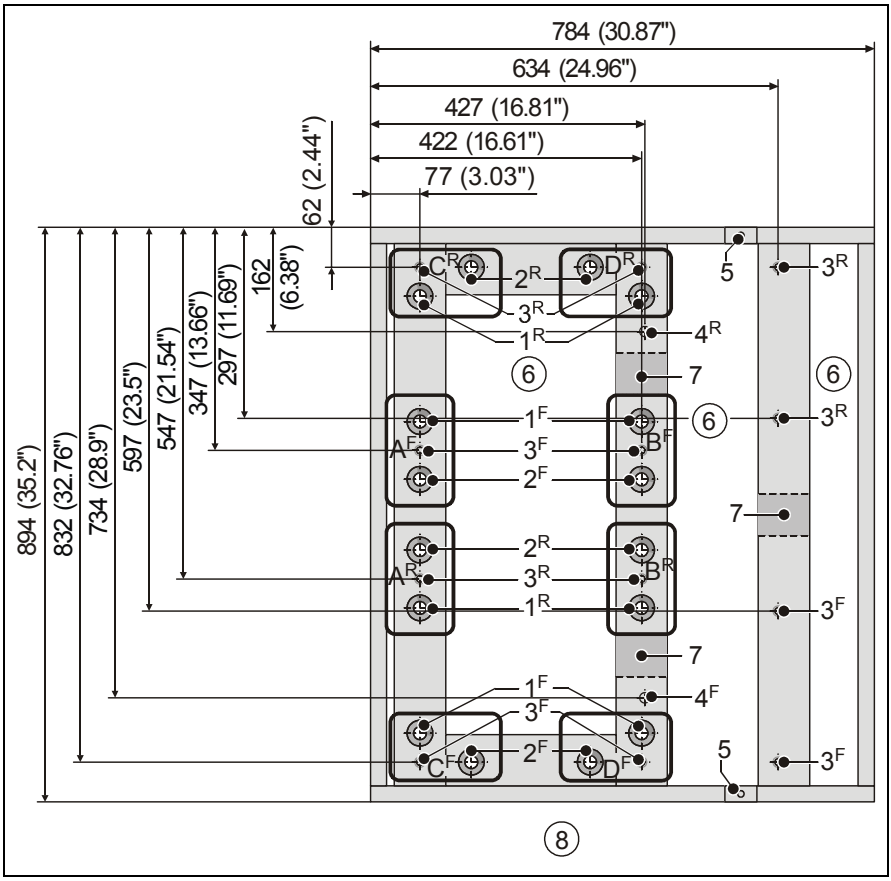
In the following illustration the safe attachment points are dimensioned based on the outer edge of the installation frame.

The superscript letter in the following illustration stands respectively for:

- ^{F}: Frontload
- ^{R}: Rearload

There is only the respective number in the key without the superscript letter. The classification to Frontload and Rearload is implied by the illustration.

(See illustration on the following page)

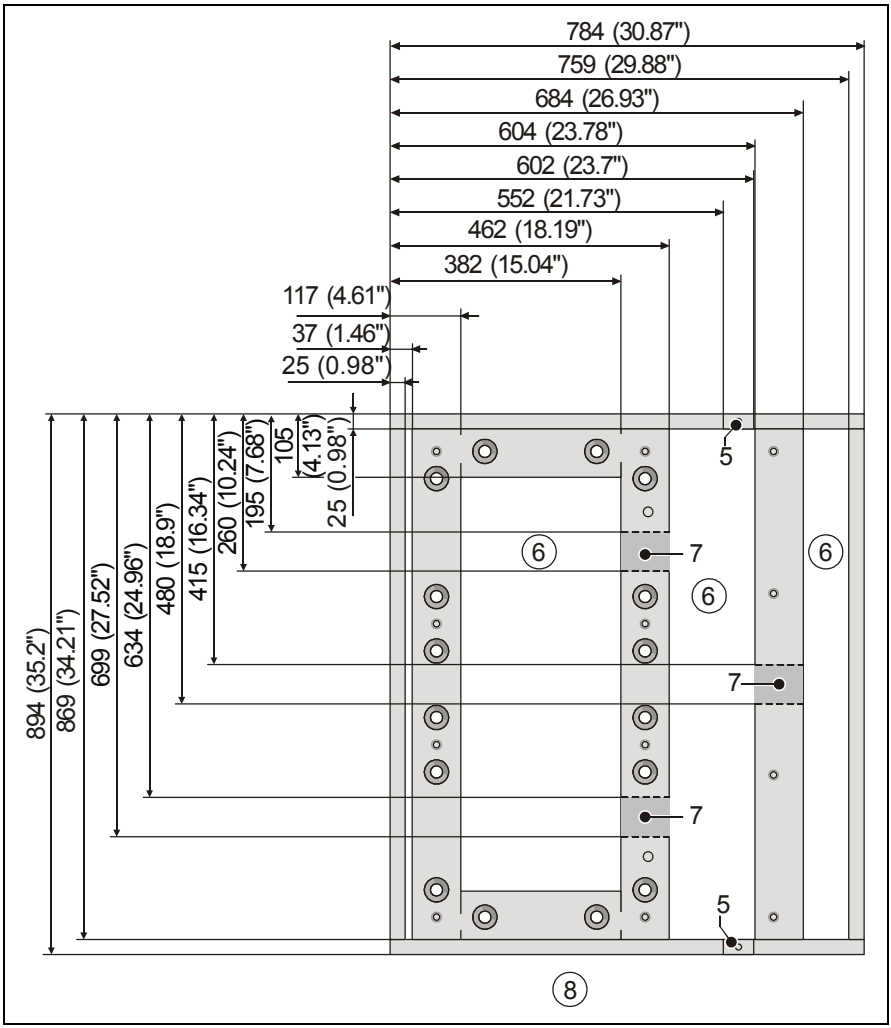


1 Attachment points of installation frame
2 Alternative attachment points of installation frame
3 Attachment points of safe
4 Attachment point of tear-off sensor
5 Cable lead-ins in the installation frame
6 Area for cables
7 Cable feed openings underneath the installation frame
8 This side must always point towards the customer panel

Dimensions of cable areas

i In the following illustration (see following page) the cable feed openings are dimensioned based on the outer edge of the installation frame.

(See illustration on the following page)



5 Cable lead-ins in the installation frame
6 Area for cables
7 Cable feed openings underneath the installation frame
8 This side must always point towards the customer panel

Tear-off sensor

All safes and installation frames have holes for mounting a tear-off sensor.

To ensure that the tear-off sensor can be mounted after the device has been installed, a hole for the tear-off sensor has to be drilled at the time the installation frame is mounted.

To be able to mount the tear-off sensor, the hole has to be cleaned with a vacuum cleaner and a resin cartridge (e.g. UPAT multicone, Fischer resin cartridge R M) has to be inserted.

Thus the alarm technician will be able to mount the tear-off sensor in the safe easily after the device is installed (see also illustration "Mounting structure" in the corresponding sections of the chapter "Installation").

Ask your alarm technician about the size of the hole and the fitting. The maximum diameter for the hole to take the fixing is:

- 20 mm (0.79'') in the installation frame
- 22 mm (0.87'') in the safe

The mounting material (threaded rod, cartridge) is to be provided by the alarm technician. The length of the threaded rod depends on the installation frame you use (see chapter "Installation").The length of the threaded rod depends on the installation frame you use (see chapter "Installation").

No power or data cables may be installed below the RM3 inside the safe.

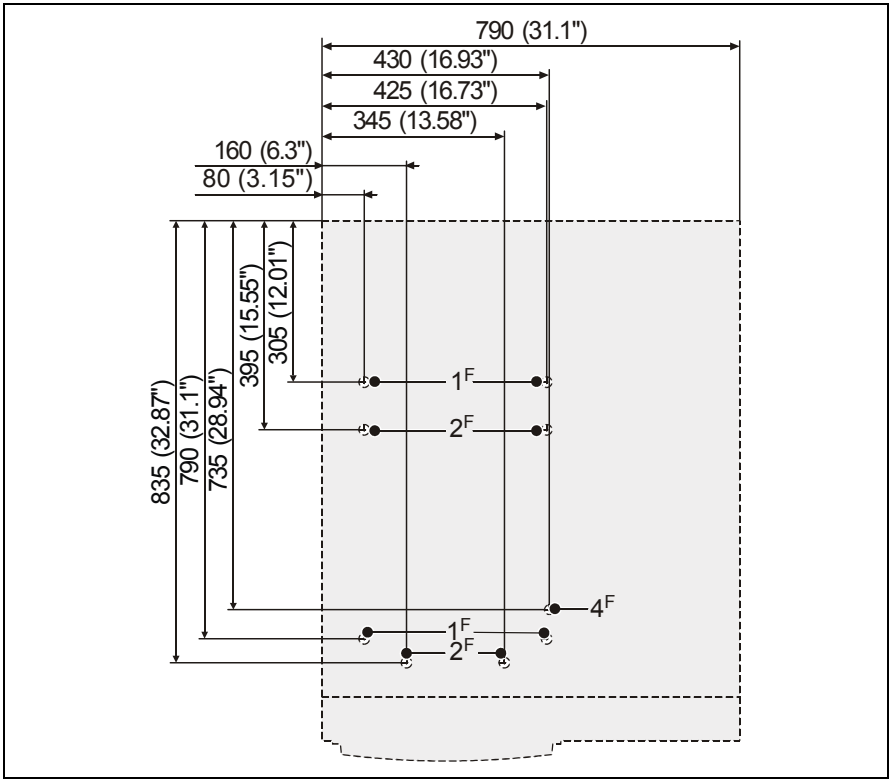
Drilling diagrams

The following figures specify the distance from the edge of the different device versions of the drill holes that are used to secure CINEO C4080 (Gas) to the installation frame.

i The installation frame is 3 mm (0.12") smaller than the safe all around.

(See illustration on the following page)

Drilling diagram Frontload

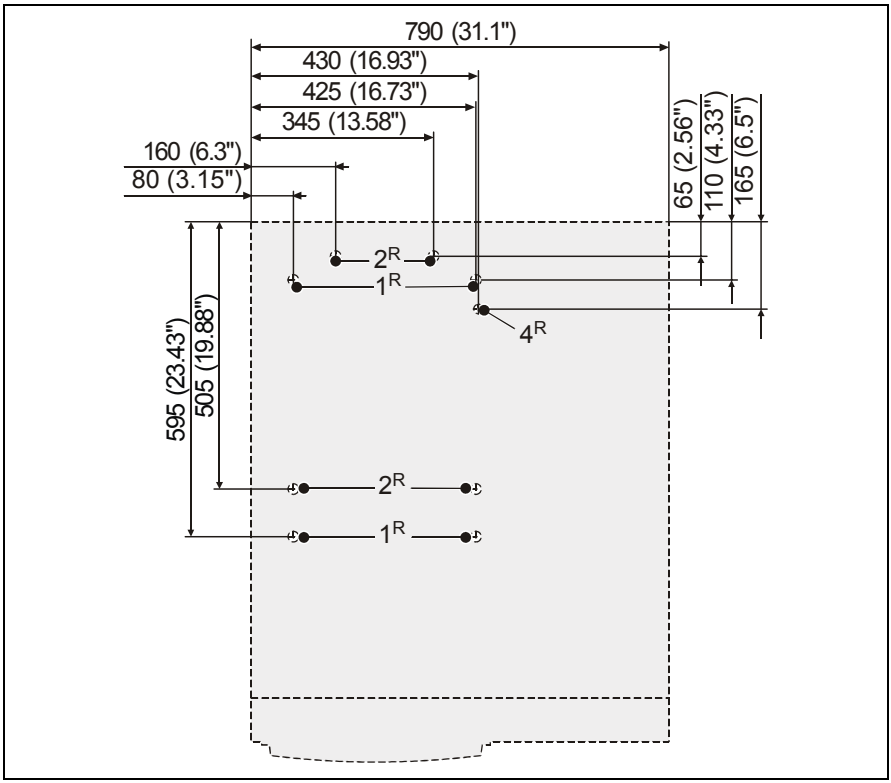


1F Attachment points of installation frame
2F Alternative attachment points of installation frame
4F Tear-off sensor

Drilling depths:

Holes for installation frame:	min. 125 mm (4.92") in the concrete, for the hole diameter please refer to the mounting instructions of the caulking cartridge supplied with the mounting set.
Hole for tear-off sensor:	at least 40 mm (1.57") in concrete. Ask your alarm technician about the size of the hole and the cartridge.

Drilling diagram Rearload

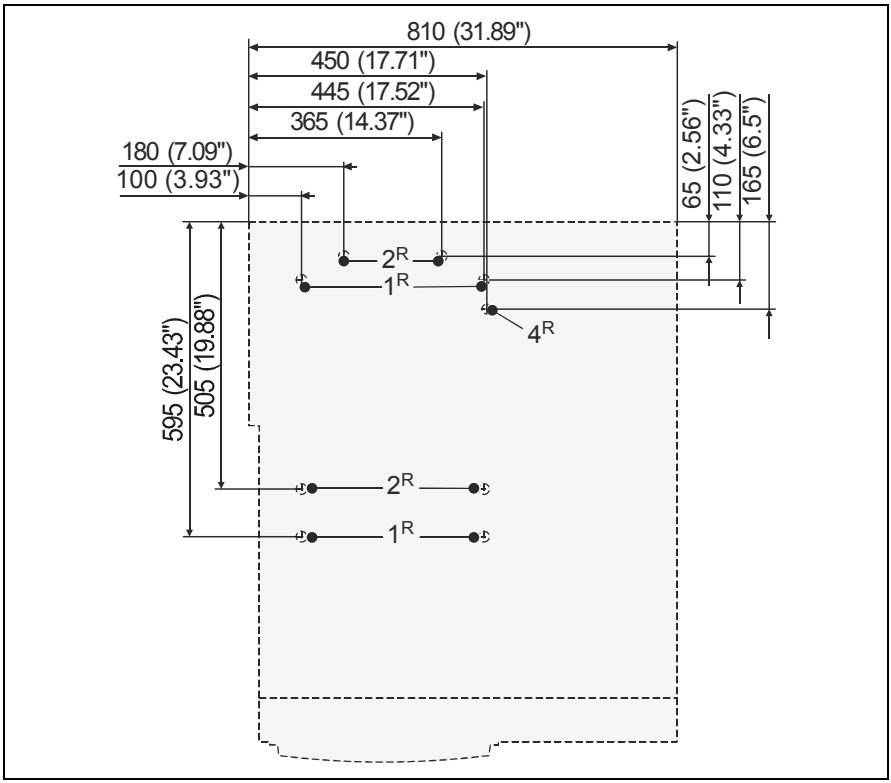


1^F Attachment points of installation frame
2^F Alternative attachment points of installation frame
4^F Tear-off sensor

Drilling depths:

Holes for installation frame:	min. 125 mm (4.92") in the concrete, for the hole diameter please refer to the mounting instructions of the caulking cartridge supplied with the mounting set.
Hole for tear-off sensor:	at least 40 mm (1.57") in concrete. Ask your alarm technician about the size of the hole and the cartridge.

Drilling diagram Rearload Gas



1^F Attachment points of installation frame
2^F Alternative attachment points of installation frame
4^F Tear-off sensor

Drilling depths:

Holes for installation frame:	min. 125 mm (4.92") in the concrete, for the hole diameter please refer to the mounting instructions of the caulking cartridge supplied with the mounting set.
Hole for tear-off sensor:	at least 40 mm (1.57") in concrete. Ask your alarm technician about the size of the hole and the cartridge.

Power and data cables

General

When the cables enter the device from below, make sure that the cables cannot be sheared off when the system is moved.

To connect the device, power and data cables are required. In standard deliveries, the connections for all the device's power and data cables are situated near the cable feed opening in the safe. The power cable that is included in delivery has a standard length of 2.5 m (8.20 ft). The device is shipped with one power cable. Other ready-to-use lengths of power and data cables can be ordered if needed via the hardware configurator or must be provided by the customer. Please refer to the corresponding illustrations in this guide for the positioning of the cables.

To lay the cables inside the installation frame and in the safe, filling pieces may be removed so that cable sets can be inserted in the cable feed openings (see illustration). These filling pieces must then be replaced after the cables have been laid. The cable exit points in the floor must be kept clear to ensure that the cables are not bent or damaged.

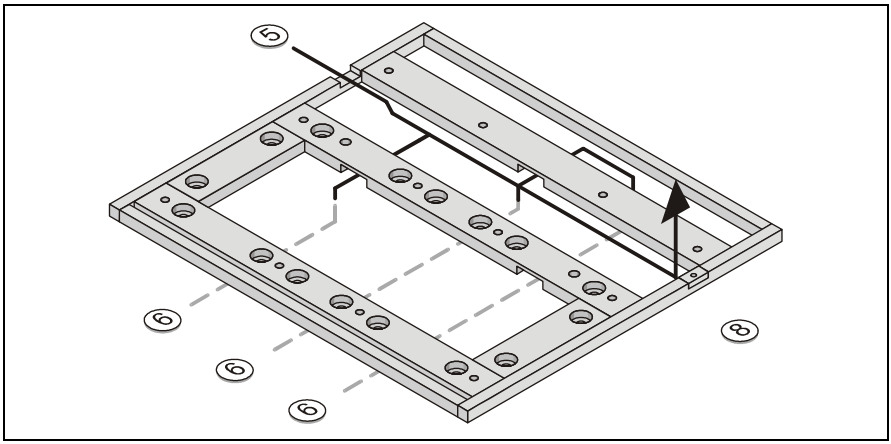
Make sure that the cables provided on-site are long enough to be laid through the installation frame into the safe.

Avoid excess lengths of cable by shortening them where necessary. You must ensure that connecting cables do not impede or actually damage any moving components.

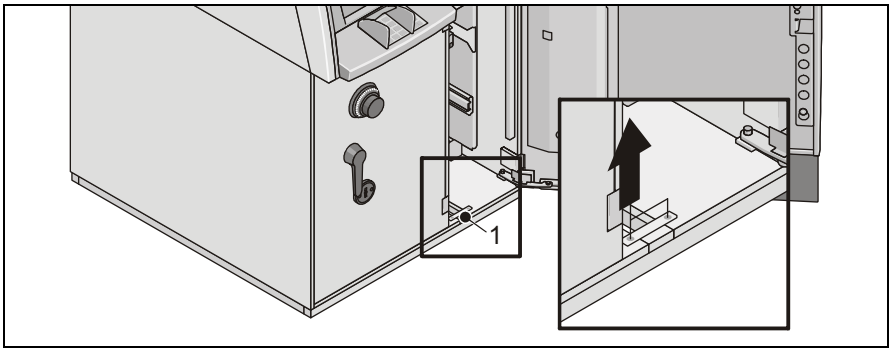
For the dimensions of the cable feed areas please refer to the section "Dimensions of cable feed areas".

Cable lead-ins into the safe

Frontload



5 Cable lead-in in the installation frame
6 Cable feed through the floor
8 Customer panel side

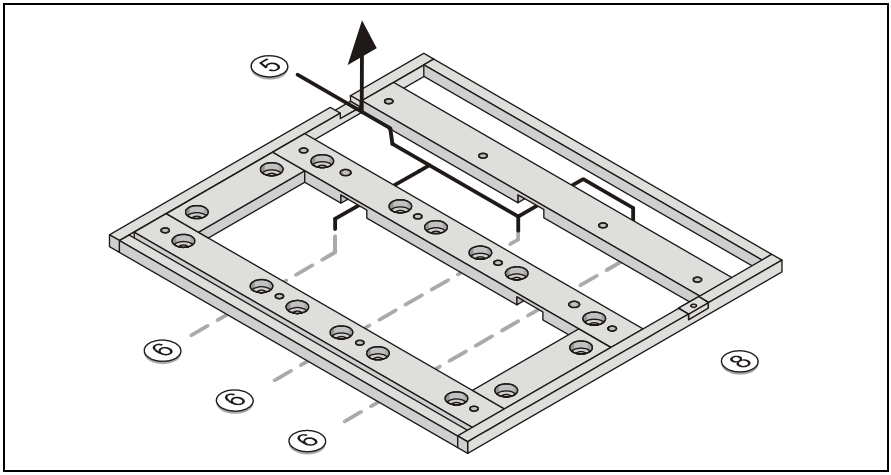


1 Cable feed opening

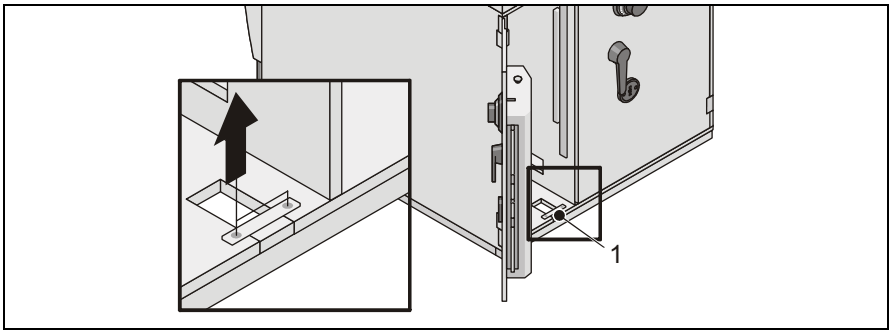
No power or data cables may be installed below the RM3 inside the safe.

You will also find details of the position of the cable feed opening for the device in the section "Installation frame".

Rearload



5 Cable lead-in in the installation frame
6 Cable feed through the floor
8 Customer panel side



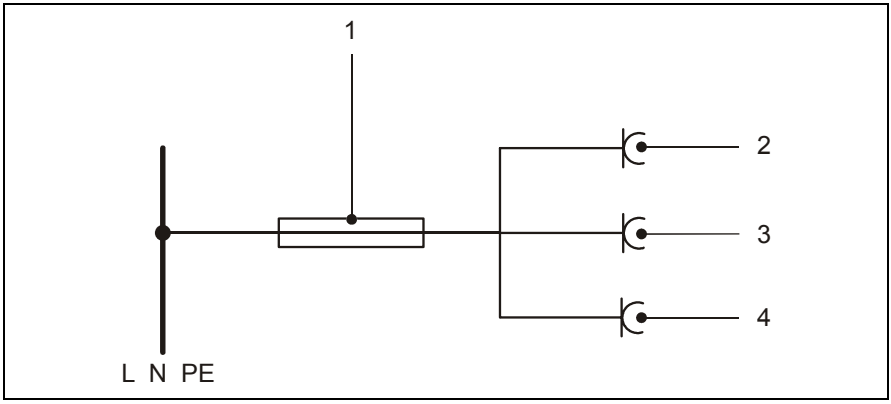
1 Cable feed opening

No power or data cables may be installed below the RM3 inside the safe.

You will also find details of the position of the cable feed opening for the device in the section "Installation frame".

Power supply

The device must only be connected to a TN system. In addition to the power supply for the device, grounding outlets must be provided by the customer for supplementary equipment such as a modem.

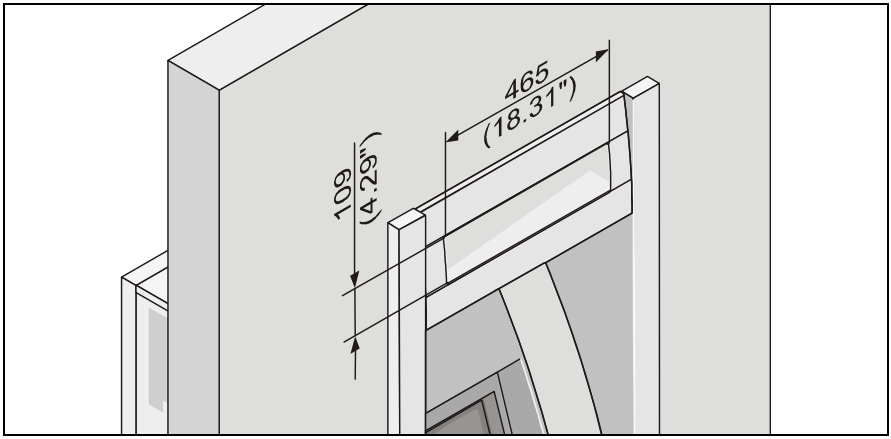


1 Fuse or automatic circuit-breaker
2 CINEO C4080 connnection
3 Modem connection
4 Connection of miscellaneous equipment

Remote status indicator

The optional remote status indicator comes with a 50 m (164.1 ft) connecting cable. During planning, the position for installation and cable routing must be defined (see also chapter "Installing the remote status indicator").

Dimensions of the frame logo



If the CINEO C4080 was ordered without a logo, the logo has to be provided by the customer. The visible and the actual logo surface are identical.

For the dimensions of the device logo please refer to the operating manual of the CINEO C4080.

Transport route requirements

The device with the design door or design cover sheet is shown in the following illustrations. The details are the same for the device with the standard door or standard cover sheet.

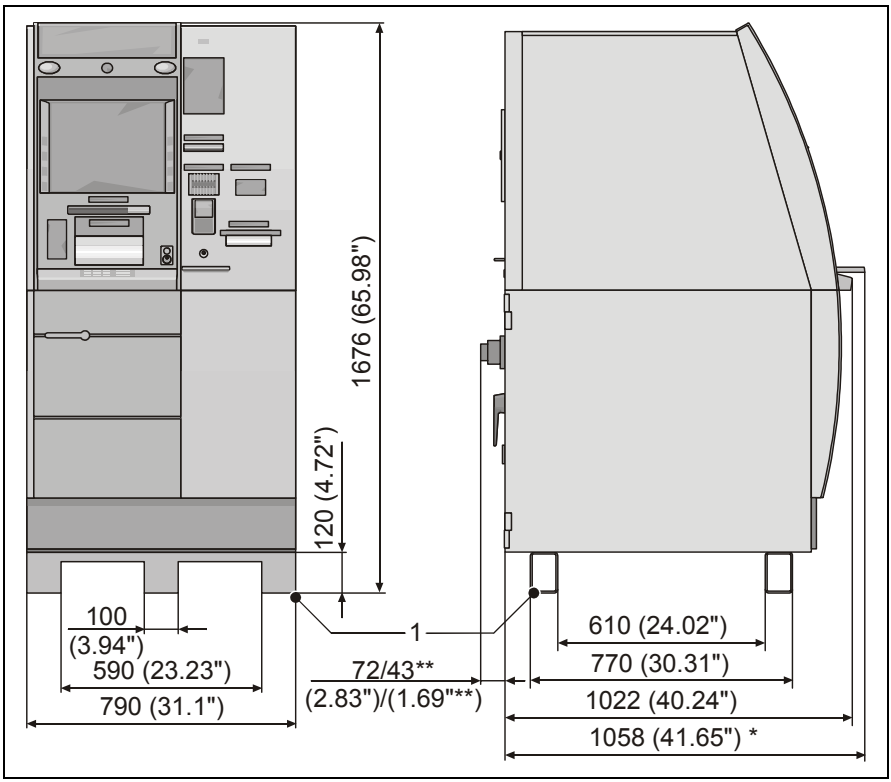
The device is equipped with a shipping crate and can be transported with a pallet lift truck. The forks of the truck must be pushed as far as possible underneath the device from the front or the rear.

The entire transportation route, like the installation site, must be checked for load capacity and, if necessary, strengthened as appropriate before the installation date. In order to avoid damage at the floor covering, panels (e.g. beaverboard) should be laid on the floor for the transport with a pallet lift truck.

Observe the ambient condition requirements for transportation and storage (see chapter "Appendix", section "Technical data").

Due to the shipping crate some dimensions are different (see illustrations below).

CINEO C4080 with 4-cassette RM3

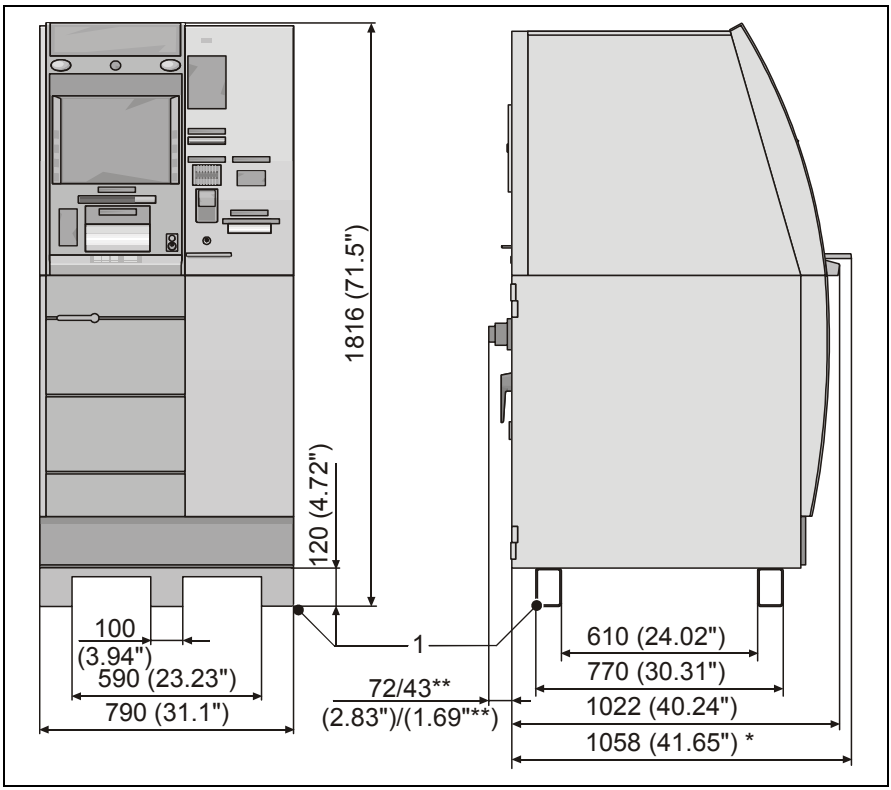


1 Shipping crate

* This measure only applys to devices with a barcode reader.

** On the rearload device the standard lock measures 43 mm (1.69") instead of 72 mm (2.83") of the customer-specific lock.

CINEO C4080 with 5-cassette RM3

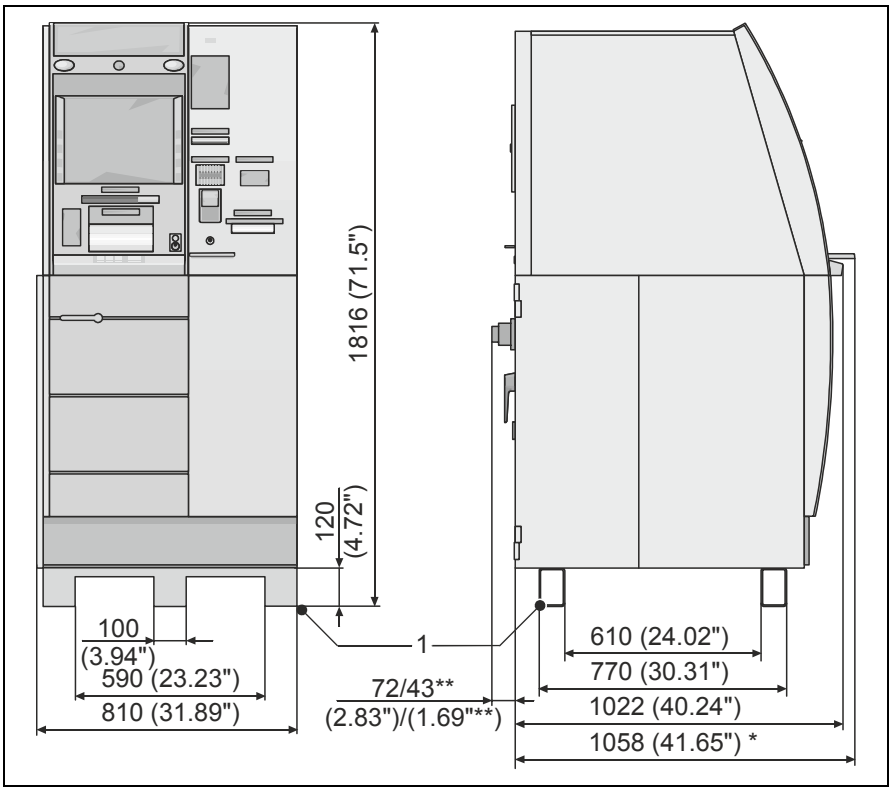


1 Shipping crate

* This measure only applys to devices with a barcode reader.

** On the rearload device the standard lock measures 43 mm (1.69") instead of 72 mm (2.83") of the customer-specific lock.

CINEO C4080 Gas with 5-cassette RM3



1 Shipping crate

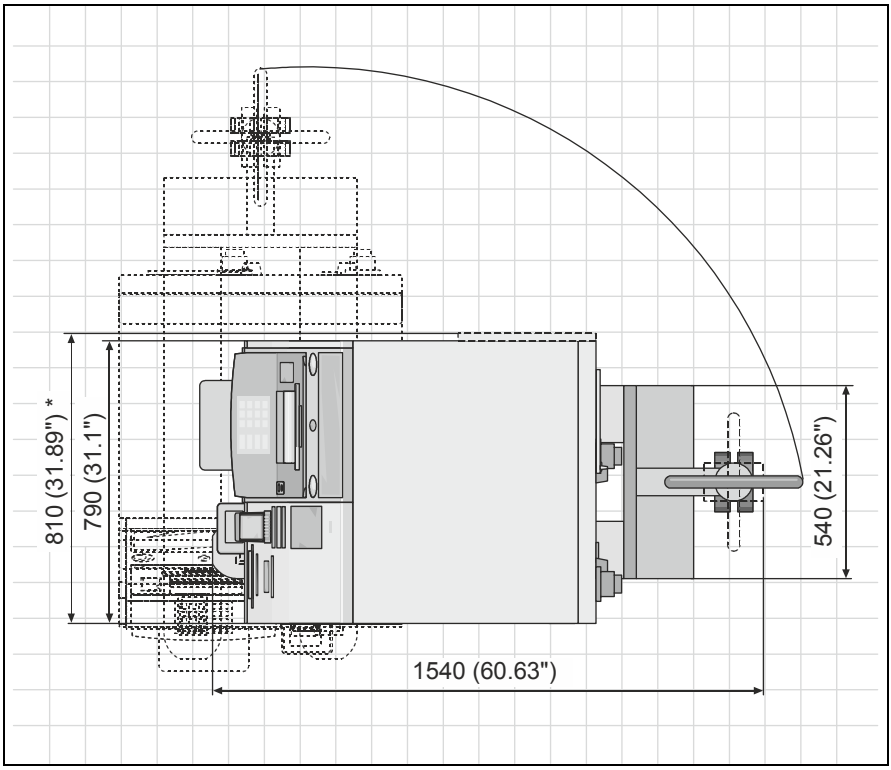
* This measure only applys to devices with a barcode reader.

** On the rearload device the standard lock measures 43 mm (1.69") instead of 72 mm (2.83") of the customer-specific lock.

Check beforehand if there is enough space to move the device through doors and hallways.

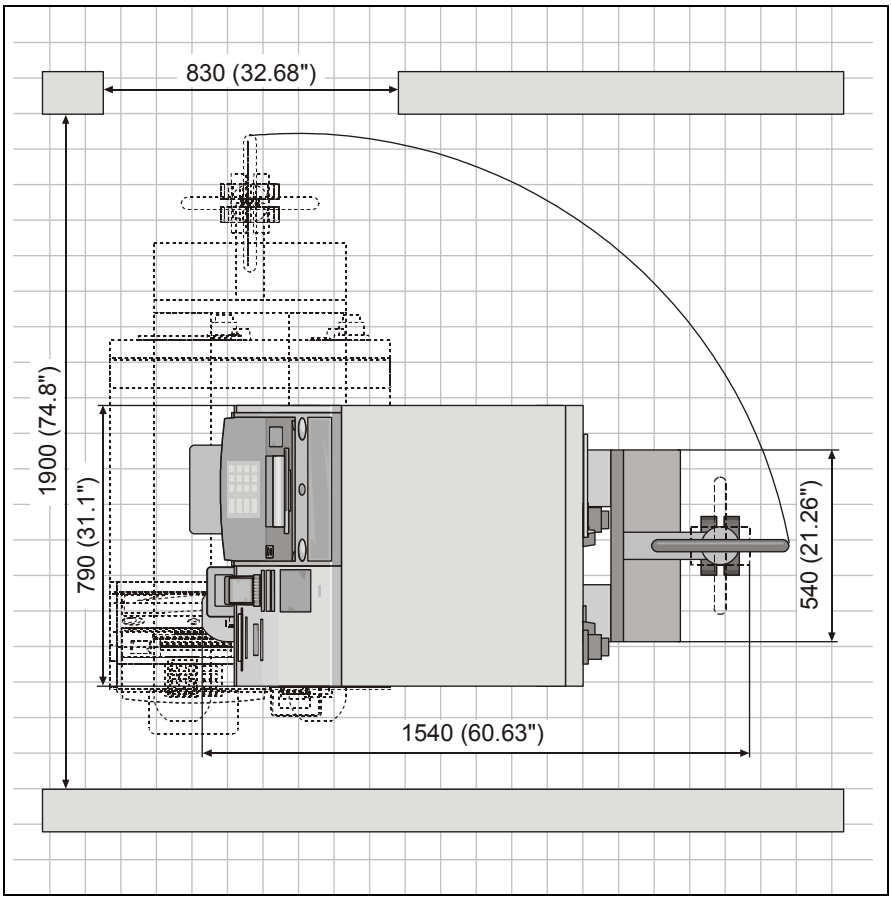
The following illustration should help you determine if the space is sufficient. It shows the device on a standard lift truck.

With the help of the grid (100 mm x 100 mm (3.94" x 3.94")) you can draw the actual dimensions of the door and the hallway to find out if there is enough space for transportation. Refer to the next page for an example.

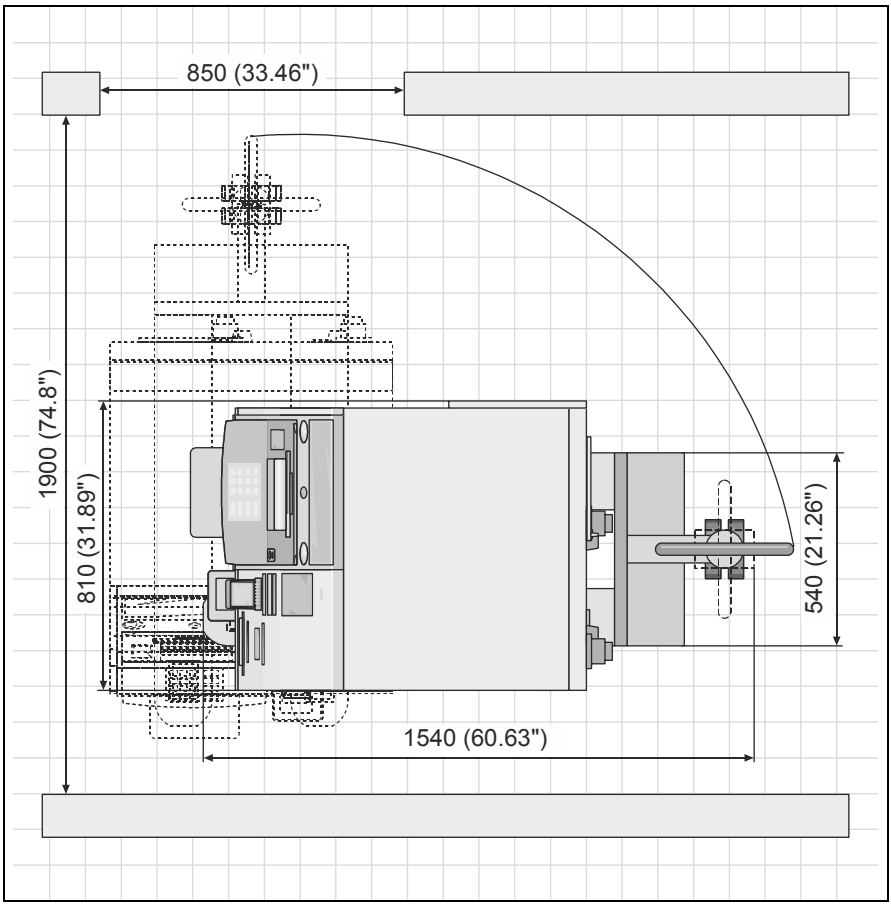


* CINEO C4080 Gas

Example CINEO C4080 with minimum transport path measurements



Example CINEO C4080 Gas with minimum transport path measurements



Installation

This chapter describes the individual steps to be taken to install the device.

i The device with the design door or design cover sheet is shown in the following illustrations. The details are the same for the device with the standard door or standard cover sheet.

i All dimensions are specified in millimeters (inches). The figures are not drawn to scale.

Contact the person in charge of planning the installation to verify that all preparatory work has been done completely and correctly and that none of the required power and data cables are missing.

Removing the packing

Remove the packing material of the CINEO C4080.

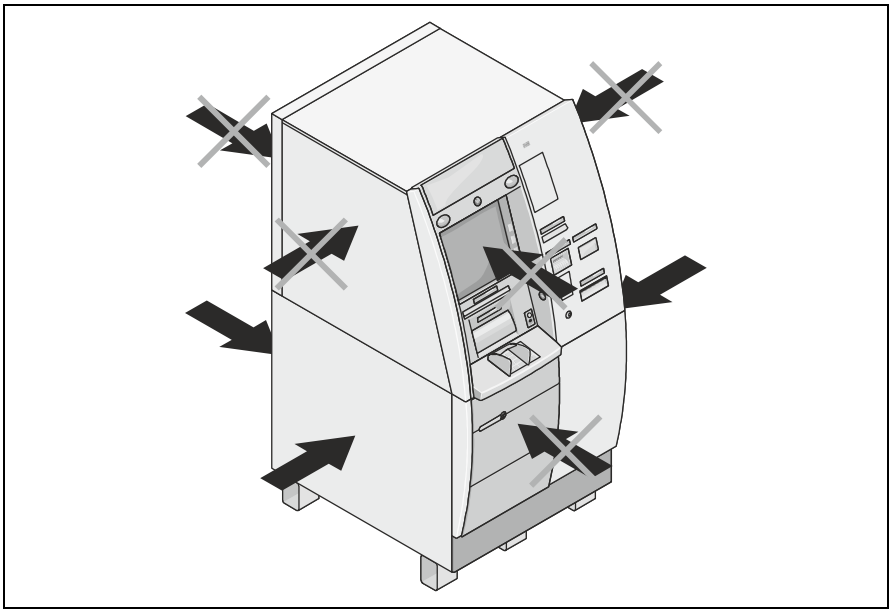
- Dispose of the packaging which is no longer needed according to the regulations of your country.

Removing the shipping crate

General information

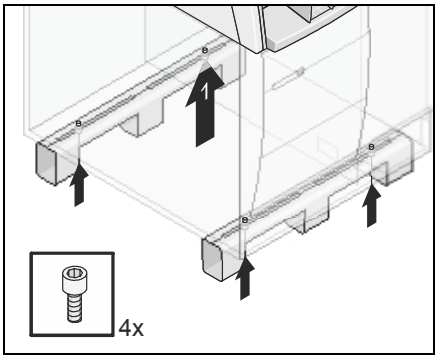
For transportation the device is equipped with a shipping crate. This must be removed before installation.

i To move the device push against the sides of the safe only as shown in the illustration below.

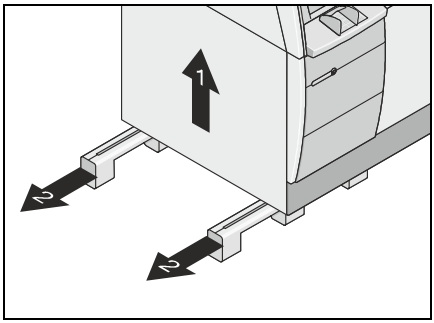


Disassembly

Proceed as follows to remove the shipping crate:



Remove the screws of the shipping crate from underneath.



Lift the device with the help of the lift truck (1).

Don't move the device in this situation, it risks to tip over!

Remove the shipping crate of CINEO C4080 (Gas) (2).

- Dispose of the shipping crate which is no longer needed according to the regulations of your country.

Mounting sets

The mounting sets are supplied with the installation frame of the CINEO C4080.

The mounting set for the tear-off sensor is **not** supplied with the device.

Mounting set 01750006706 for installation frame for UL safe

If the mounting set is not provided, use equivalent fastening material. The procedure for mounting the installation frame or the installation rack described in the sections of the installation versions assumes that the provided mounting set 01750006706 is used. If you are using different fastening materials please follow the instructions included with those items.

Item	Quantity required
Mounting set for installation frame (supplied with installation frame)	
– Caulking cartridge (two-component mortar) A caulking gun is **not** included in the delivery package.	1
– Threaded rod M16 x 300 (DIN 976, property class 8.8)	4
– Hexagon nut M16 (DIN 971-1)	4
– Washer A 17 DIN 125-St	4

Mounting set 01750051579 for CEN installation frame

If the mounting set is not provided, use equivalent fastening material. The procedure for mounting the installation frame or the installation rack described in the sections of the installation versions assumes that the provided mounting set is used. If you are using different fastening materials please follow the instructions included with those items.

Item	Quantity required
– Caulking cartridge A caulking gun is **not** included in the delivery package.	1
– Threaded rod M16x300 (DIN 976, property class 10.9)	4
– Hexagon nut M16 (DIN 934-10.9)	4
– Washer A 17 DIN 125-St	4

Mounting set 01750217972 Safe on installation frame (for UL safe)

Item	Quantity required
– Pan head screw M16 x 40 (DIN 6910, property class 10.9)	6
– Washer A 17 ISO 7089-St	6

Mounting set 01750217971 Safe on installation frame (for CEN safe)

Item	Quantity required
– Pan head screw M16 x 40 (ISO 4762, property class 10.9)	4
– Pan head screw M16 x 40 (DIN 6912, property class 10.9)	2
– Washer A 17 ISO 7089-St	6

Overview of installation types

Possible installation	Frontload with		Rearload with		
	4-cassette RM3	5-cassette RM3	4-cassette RM3	5-cassette RM3	
	Standard	Standard	Standard	Standard	Gas
Installation without frame (free-standing)	yes	yes	yes	yes	yes
Installation with frame for complete integration	no	no	yes	yes	no
Installation with window frame	no	no	yes	yes	no
Installation with frame for partial integration in the wall	yes	yes	yes	yes	no

i Observe the necessary operation and maintenance space for the various types of installation (see section "Space required for operation and maintenance").

The area specified for the installation of the frame requires a short tool (see section "Required operation and maintenance space").

i For installation with a frame the device must have been prepared for this type of installation in the factory when it is shipped.

Installation without frame

The device can either be installed free-standing, in front of a wall or in a niche.

Installing the installation frame

i Observe the specified maintenance space when positioning the device and the installation frame (see chapter "Planning the Installation", section "Space required for operation and maintenance").
Make sure that the wall distances is in the area of the back ventilation opening at least **50 mm (1.97")** (referring to the installation frame **53 mm (2.09")**) and in the front area (customer panel side) referring to the safe at least **20 mm (0.79")** (referring to the installation frame **23 mm (0.91")**). It is mandatory that the area underneath the control panel is completely empty because of the air inlet.

i The installation area must be flat and on one level with the surrounding floor. Any differences in floor height in the installation area must be leveled out with rustproof shims, for example.

Securing the installation frame

The installation frame needs to be anchored in the floor at **four** attachment points regardless of the safe construction type (UL, CEN L4, CEN III, CEN IV). These attachment points are at position (1). Mounting points (2) serve as alternative attachment points (see following illustrations).

The supplied installation frame can be used for the Frontload and Rearload versions. Take note of the alignment of the installation frame.

i If the mounting set is not provided, use equivalent fastening material.

- Align the installation frame and mark the holes to be drilled for mounting the installation frame (see illustration below).

If a tear-off sensor is to be installed as agreed with the financial institution or the alarm technician, also mark the holes for the tear-off sensor (see illustrations below).

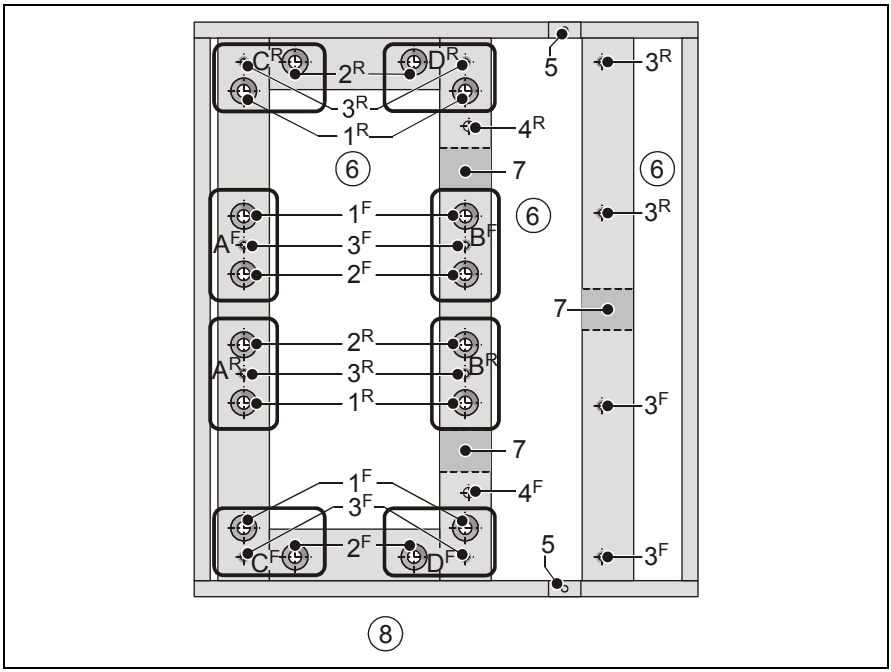
The installation frame must be secured using one threaded rod per group of holes A to D. The installation frame is secured with a total of four threaded rods.

The superscript letter in the following illustration stands respectively for:

- ^{F}: Frontload
- ^{R}: Rearload

There is only the respective number in the key without the superscript letter. The classification to Frontload and Rearload is implied by the illustration.

(See illustration on the following page)



1 Attachment points of installation frame
2 Alternative attachment points of installation frame
3 Attachment points of safe
4 Attachment point of tear-off sensor
5 Cable lead-ins in the installation frame
6 Area for cables
7 Cable feed openings underneath the installation frame
8 This side must always point towards the customer panel.

- Drill the required four holes and the hole for the tear-off sensor, if necessary (see following figures).

i

Installation on raised or cavity flooring as well as on floating screed is not admissible according to CEN standard. If the mounting structure differs from the one described below (see illustration below), it must be approved by the insurer.

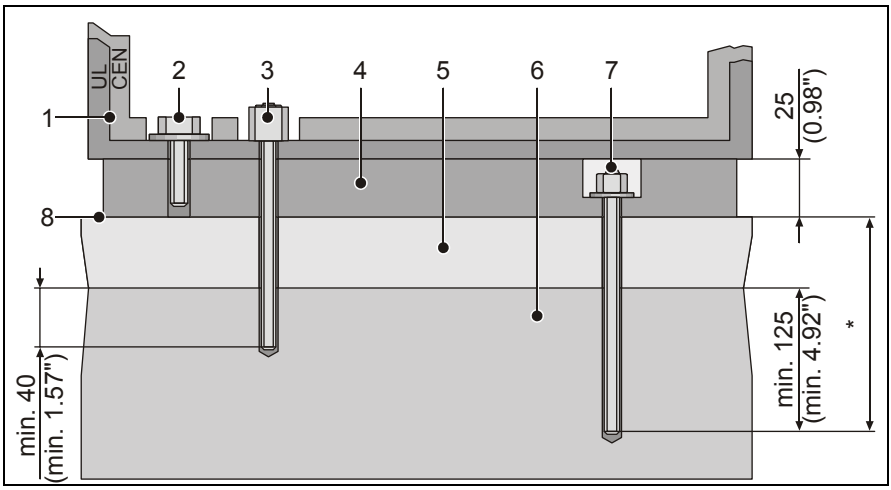
To ensure that the safe does not become detached, the threaded rods of the installation frame must be fastened in the concrete foundation.

The drilled holes in the concrete foundation must have a depth of at least 125 mm (4.92") for the installation frame (see illustration below).

For the hole diameter please refer to the mounting instructions of the caulking cartridge.

The drilled hole in the concrete foundation must have a depth of at least 40 mm (1.57") for the tear-off sensor (see illustration below). Consult your alarm technician about the size of the hole and the fixing.

Mounting structure

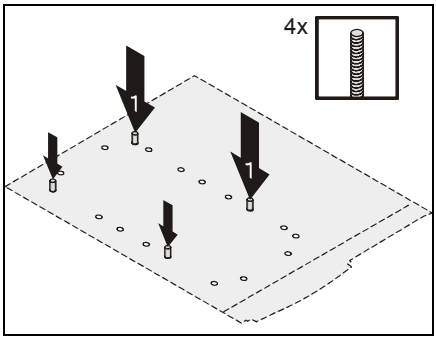


1 Safe
2 Mounting set for safe
3 the tear-off sensor
4 Installation frame
5 Screed
6 Concrete
7 Mounting set for installation frame
8 Top surface of finished floor

* The overall drilling depth depends on the constructional situation. The threaded rods must be anchored at least 125 mm in the load-bearing concrete.

Excess lengths must be shortened correspondingly or, if necessary in case of deeper floor anchorages, be replaced by equivalent threaded rods.

- Clean the bore holes as specified in the mounting instructions of the caulking cartridge.



Secure the threaded rods in the concrete foundation (1) as specified in the mounting instructions of the caulking cartridge.
(Illustration as an example)

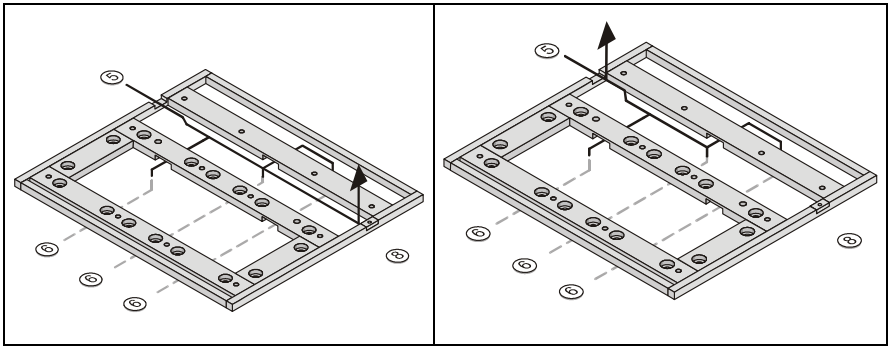
i The threaded rods must protrude at a minimum 24 mm (0.94") and at a maximum 25 mm (0.98").

i If the mounting set is not provided, use equivalent fastening material.

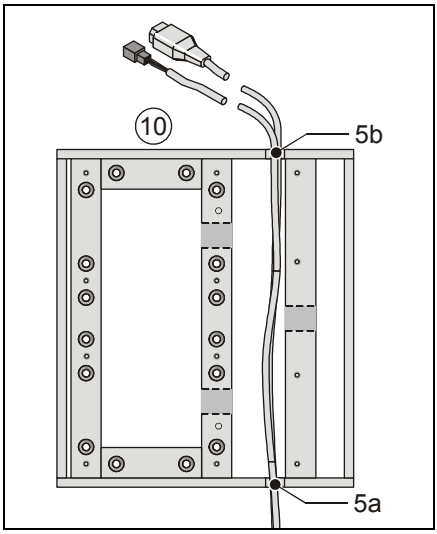
- Insert the cartridge for the tear-off sensor if required.

i The space inside the installation frame allows cable lead-in through cable ducts in the floor.

Frontload **Rearload**



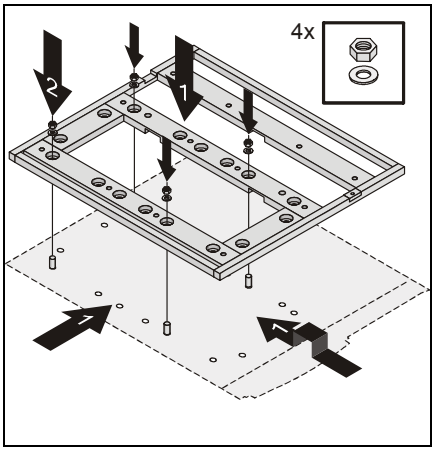
5 Cable lead-in in the installation frame
6 Cable feed through the floor
8 Customer panel side



If the connecting cables on the site are not located on the safe door side:

Insert the data lines, the connecting cable of the remote status indicator (optional) and the power cord through the cable lead-ins and if necessary through the cable feed openings behind the safe door side (10) of the installation frame, as in the example shown here.

⚠ Make sure that the connecting cables are laid loosely and are not crushed by the installation frame.



Push the installation frame onto the threaded rods (1) as shown in the illustration as an example.

Secure the installation frame using one hexagon nut and one washer for each of the 4 attachment points (2) (for material see section "Mounting set").

i If applicable, note the hardening times of the mounting material.

The threaded rods must not protrude beyond the installation frame. If necessary, level the threaded rods.

Mounting the device on the installation frame

- Push the device onto the installation frame.

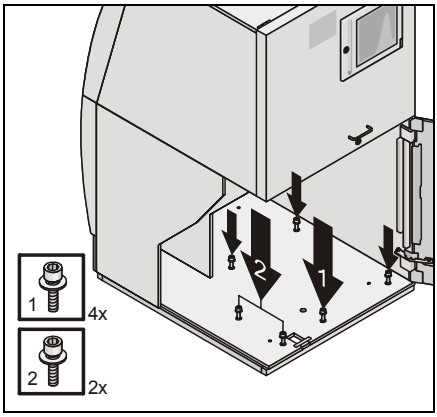
  Ensure that no cables are damaged in the process.

- Open the safe door (see chapter "Basic Operation" in the operating manual).

- If it is necessary for the installation remove those parts inside the unit which secure its components during transportation (see enclosed information sheet).

- Pull out the RM3 (see chapter "Basic Operation" in the operating manual).

Screwing the device on the installation frame

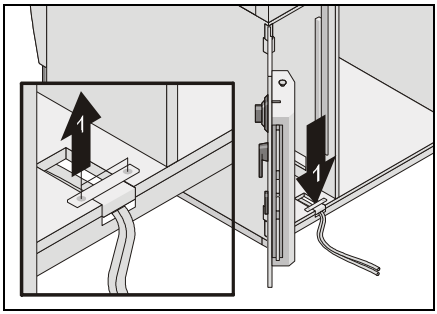


Align the device to the installation frame and screw the main safe with four pan head screws and four washers (1) and the secondary safe with two pan head screws and two washers (2) to the installation frame (for material see section "Mounting sets").

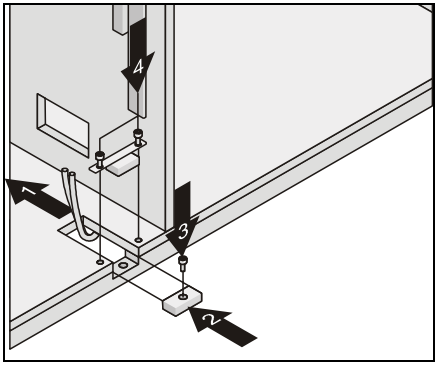
UL:
(1) M16 x 40 / (2) M16 x 40

CEN:
(1) M16 x 45 / (2) M16 x 40

Installing the power and data cables in the device



Undo the two screws (1) and remove the filling piece of the safe underneath.



Feed the cable into the safe (1).

Replace the filling piece of the installation frame (position 6a) (2) and fix it with the earlier removed screw (3).

Replace the filling piece of the safe and fix it with the two screws (4).

Further procedure for CEN installation

- Attach the VdS/ECB•S label for the installation frame inside the safe door below the existing VdS/ECB•S label of the safe. (The VdS/ECB•S label for the mounted installation frame is included with the installation frame).
- After mounting the installation frame and the device, fill out the Confirmation of Installation. (The Confirmation of Installation is included with the installation frame.)
- Fax the filled out and signed Confirmation of Installation form to the fax number provided on the form.

  i If there is no fax machine available, the form has to be faxed to this number at a later point in time.

- Give the Confirmation of Installation to the operator of the device.

  i The operator needs the Confirmation of Installation for submitting it to the insurance company.

General information

- Close the device.

Installation with frame for complete integration in wall

Installing the installation frame

i Observe the specified maintenance space when positioning the device and the installation frame (see chapter "Planning the Installation", section "Space required for operation and maintenance").

Make sure that the wall distances is in the area of the back ventilation opening at least **50 mm (1.97")** (referring to the installation frame **53 mm (2.09")**) and in the front area (customer panel side) referring to the safe at least **20 mm (0.79")** (referring to the installation frame **23 mm (0.91")**). It is mandatory that the area underneath the control panel is completely empty because of the air inlet.

i The installation area must be flat and on one level with the surrounding floor. Any differences in floor height in the installation area must be leveled out with rustproof shims, for example.

Securing the installation frame

The installation frame needs to be anchored in the floor at **four** attachment points regardless of the safe construction type (UL, CEN L4, CEN III, CEN IV). These attachment points are at position (1). Mounting points (2) serve as alternative attachment points (see following illustrations).

The supplied installation frame can be used for the Frontload and Rearload versions. Take note of the alignment of the installation frame.

i If the mounting set is not provided, use equivalent fastening material.

- Align the installation frame and mark the holes to be drilled for mounting the installation frame (see illustration below).

i If a tear-off sensor is to be installed as agreed with the financial institution or the alarm technician, also mark the holes for the tear-off sensor (see illustrations below).

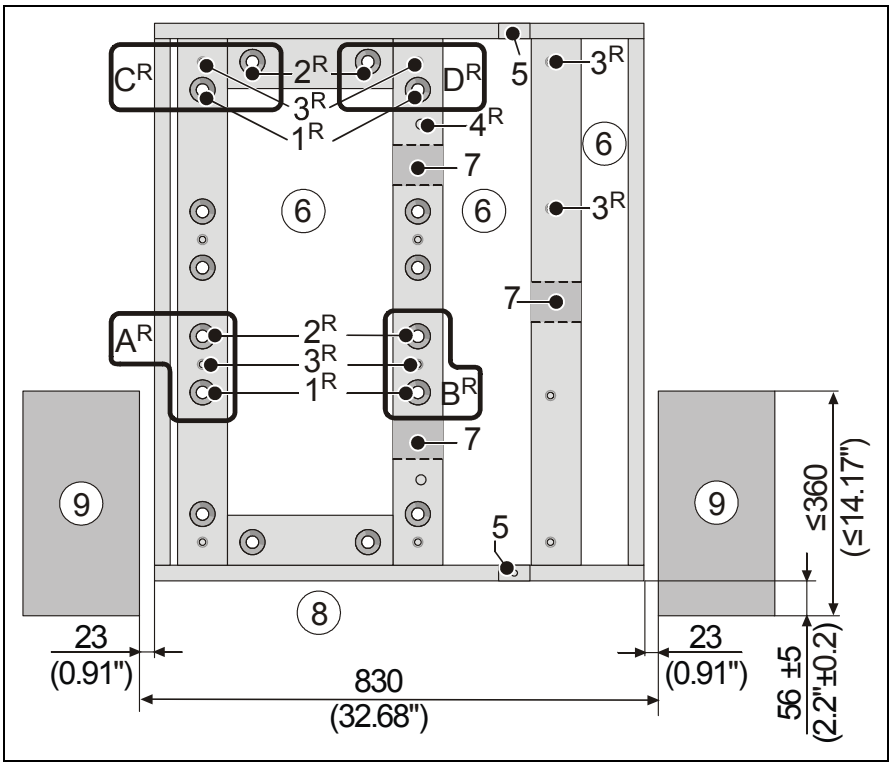
The installation frame must be secured using one threaded rod per group of holes A to D. The installation frame is secured with a total of four threaded rods.

The superscript letter in the following illustration stands respectively for:

- ^{R}: Rearload

(See illustration on the following page)

Position of the installation frame



1^R Attachment points of installation frame

2^R Alternative attachment points of installation frame

3^R Attachment points of safe

4^R Attachment point of tear-off sensor

5 Cable lead-ins in the installation frame

6 Area for cables

7 Cable feed openings underneath the installation frame

8 This side must always point towards the customer panel

9 Wall

- Drill the required four holes and the hole for the tear-off sensor, if necessary (see following figures).

i

Installation on raised or cavity flooring as well as on floating screed is not admissible according to CEN standard. If the mounting structure differs from the one described below (see illustration below), it must be approved by the insurer.

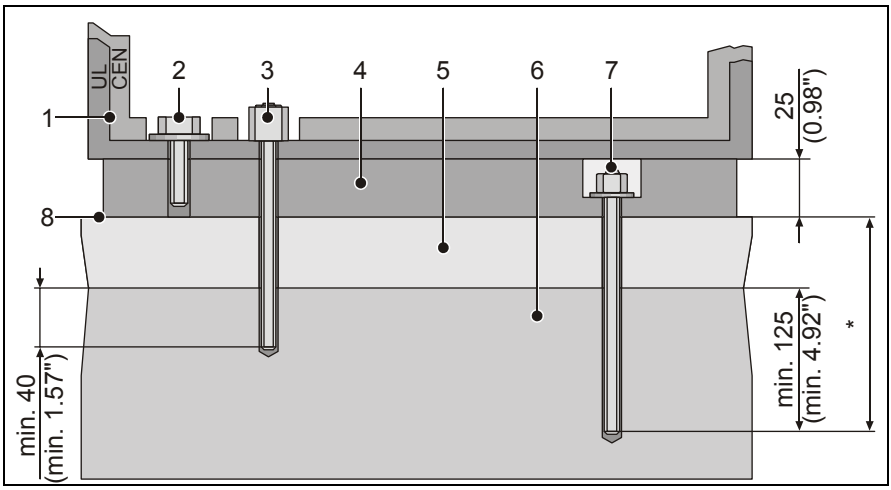
To ensure that the safe does not become detached, the threaded rods of the installation frame must be fastened in the concrete foundation.

The drilled holes in the concrete foundation must have a depth of at least 125 mm (4.92") for the installation frame (see illustration below).

For the hole diameter please refer to the mounting instructions of the caulking cartridge.

The drilled hole in the concrete foundation must have a depth of at least 40 mm (1.57") for the tear-off sensor (see illustration below). Consult your alarm technician about the size of the hole and the fixing.

Mounting structure

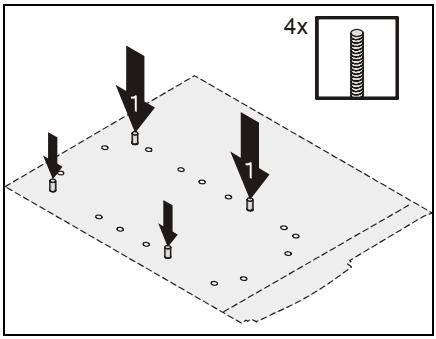


1 Safe
2 Mounting set for safe
3 the tear-off sensor
4 Installation frame
5 Screed
6 Concrete
7 Mounting set for installation frame
8 Top surface of finished floor

* The overall drilling depth depends on the constructional situation. The threaded rods must be anchored at least 125 mm in the load-bearing concrete.

Excess lengths must be shortened correspondingly or, if necessary in case of deeper floor anchorages, be replaced by equivalent threaded rods.

- Clean the bore holes as specified in the mounting instructions of the caulking cartridge.



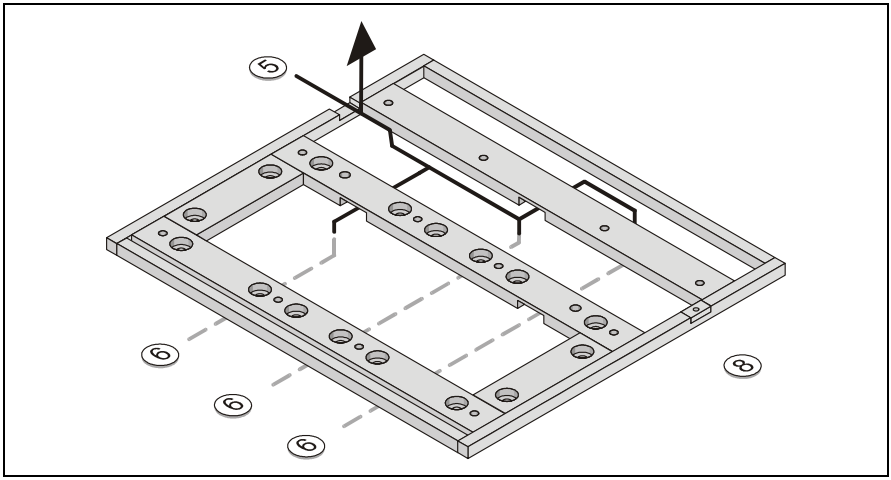
Secure the threaded rods in the concrete foundation (1) as specified in the mounting instructions of the caulking cartridge.
(Illustration as an example)

i The threaded rods must protrude at a minimum 24 mm (0.94") and at a maximum 25 mm (0.98").

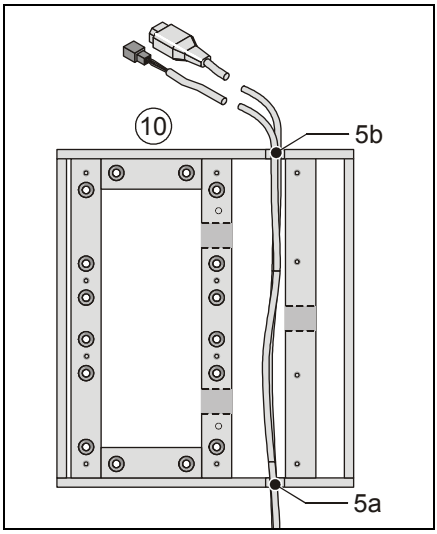
i If the mounting set is not provided, use equivalent fastening material.

- Insert the cartridge for the tear-off sensor if required.

i The space inside the installation frame allows cable lead-in through cable ducts in the floor.



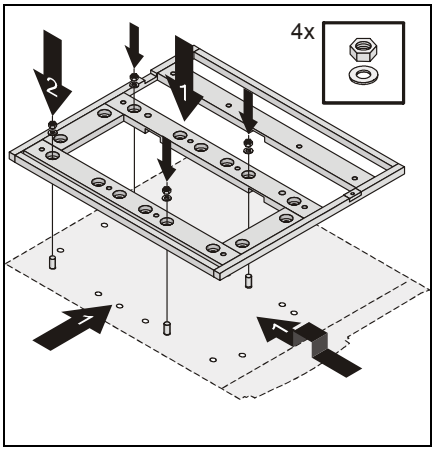
5 Cable lead-in in the installation frame
6 Cable feed through the floor
8 Customer panel side



If the connecting cables on the site are not located on the safe door side:

Insert the data lines, the connecting cable of the remote status indicator (optional) and the power cord through the cable lead-ins and if necessary through the cable feed openings behind the safe door side (10) of the installation frame, as in the example shown here.

Make sure that the connecting cables are laid loosely and are not crushed by the installation frame.



Push the installation frame onto the threaded rods (1) as shown in the illustration as an example.

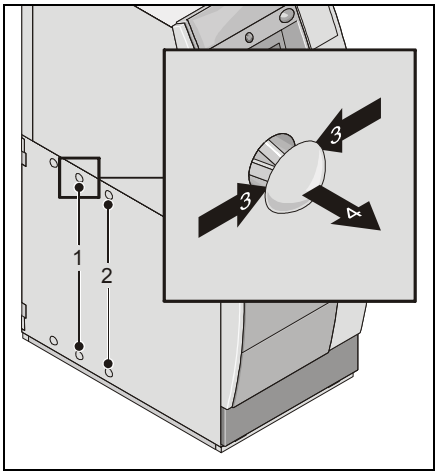
Secure the installation frame using one hexagon nut and one washer for each of the 4 attachment points (2) (for material see section "Mounting set").

If applicable, note the hardening times of the mounting material.

The threaded rods must not protrude beyond the installation frame. If necessary, level the threaded rods.

Mounting the device on the installation frame

i Before the frame can be mounted, certain steps are required for systems which have not been prepared for frame installation in the factory (please refer to the mounting instructions supplied with the frame).



Remove the blind plugs in positions (1) and (2) on both sides of the device by levering them up from the side (3) and pulling them out (4).

- Push the device onto the installation frame.

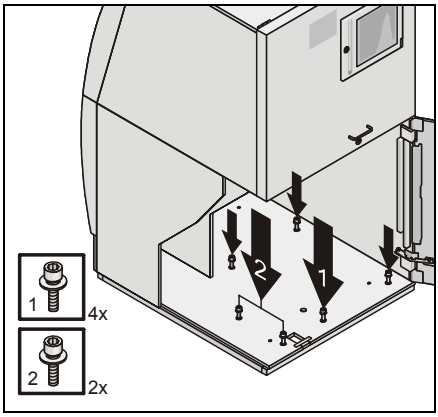
  ⚠ Ensure that no cables are damaged in the process.

- Open the safe door (see chapter "Basic Operation" in the operating manual).

- If it is necessary for the installation remove those parts inside the unit which secure its components during transportation (see enclosed information sheet).

- Pull out the RM3 (see chapter "Basic Operation" in the operating manual).

Screwing the device on the installation frame

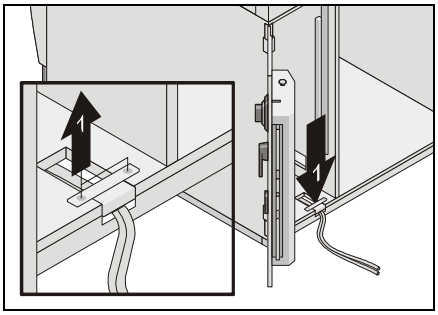


Align the device to the installation frame and screw the main safe with four pan head screws and four washers (1) and the secondary safe with two pan head screws and two washers (2) to the installation frame (for material see section "Mounting sets").

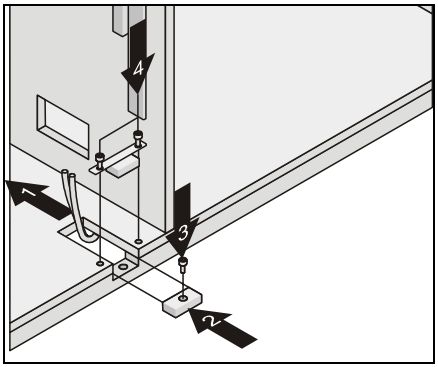
UL:
(1) M16 x 40 / (2) M16 x 40

CEN:
(1) M16 x 45 / (2) M16 x 40

Installing the power and data cables in the device



Undo the two screws (1) and remove the filling piece of the safe underneath.



Feed the cable into the safe (1).

Replace the filling piece of the installation frame (position 6a) (2) and fix it with the earlier removed screw (3).

Replace the filling piece of the safe and fix it with the two screws (4).

Further procedure for CEN installation

- Attach the VdS/ECB•S label for the installation frame inside the safe door below the existing VdS/ECB•S label of the safe. (The VdS/ECB•S label for the mounted installation frame is included with the installation frame).
- After mounting the installation frame and the device, fill out the Confirmation of Installation. (The Confirmation of Installation is included with the installation frame.)
- Fax the filled out and signed Confirmation of Installation form to the fax number provided on the form.

  i If there is no fax machine available, the form has to be faxed to this number at a later point in time.

- Give the Confirmation of Installation to the operator of the device.

  i The operator needs the Confirmation of Installation for submitting it to the insurance company.

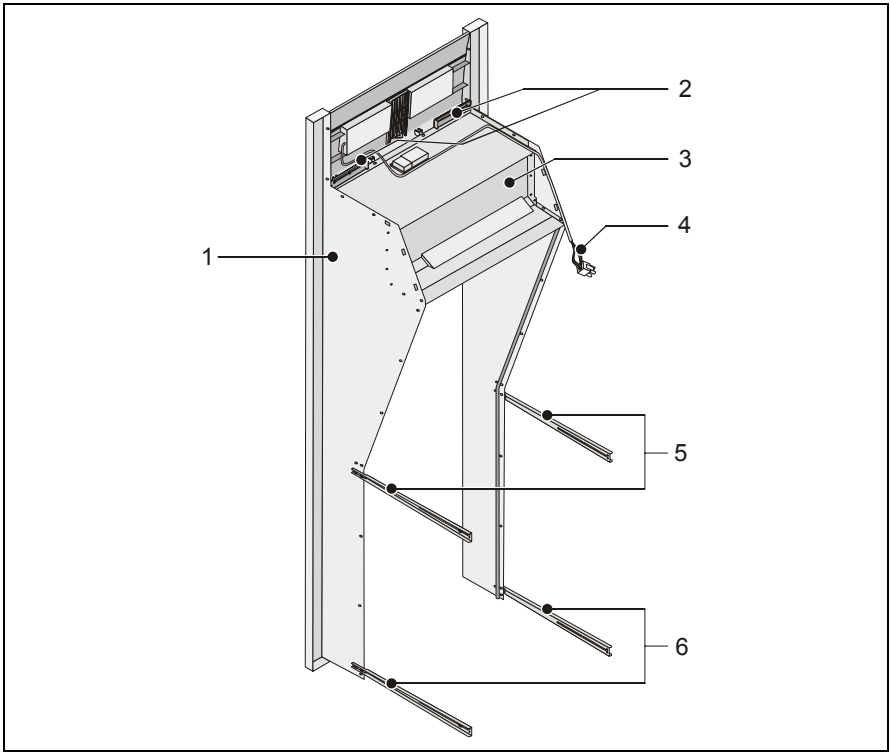
General information

- Close the device.
- Unpack the parts of the installation frame and install them (see the following section).

Installing the frame

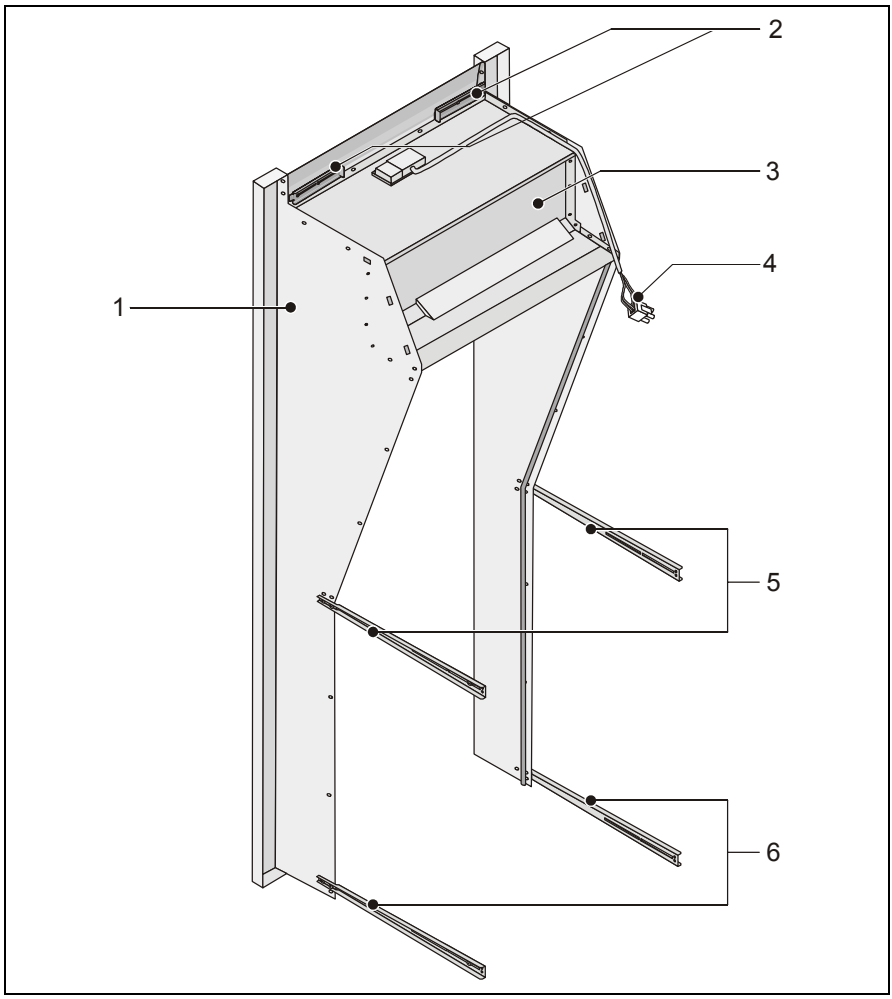
View of the frame (completely assembled)

With attached logo case



1 sensor at the frame
2 Wall fixation
3 Cover angle (adjustment only after the frame is attached to the device)
4 Connection cable for lighting
5 Middle frame plate
6 Lower frame plate

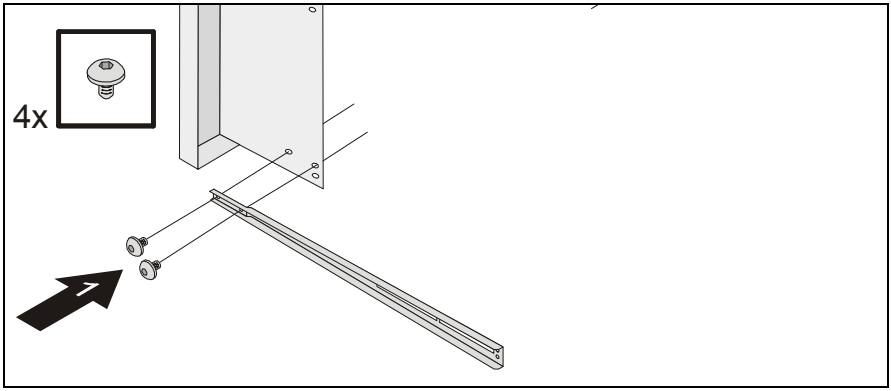
Without attched logo case



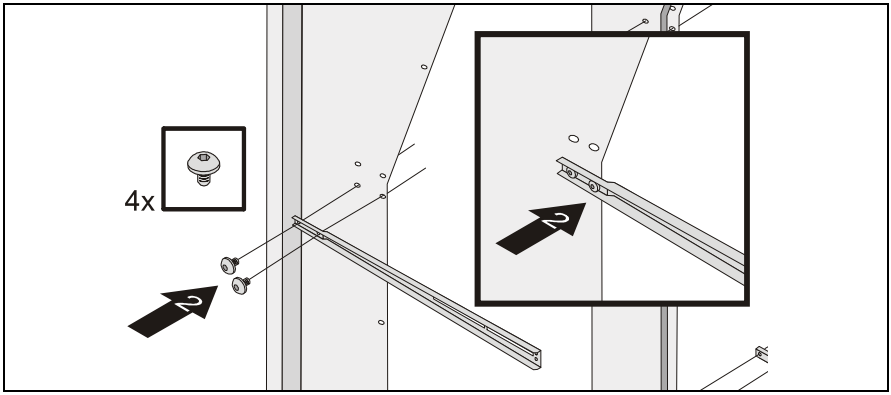
1 sensor at the frame
2 Wall fixation
3 Cover angle (adjustment only after the frame is attached to the device)
4 Connection cable for lighting
5 Middle frame plate
6 Lower frame plate

Pre-assembling the frame

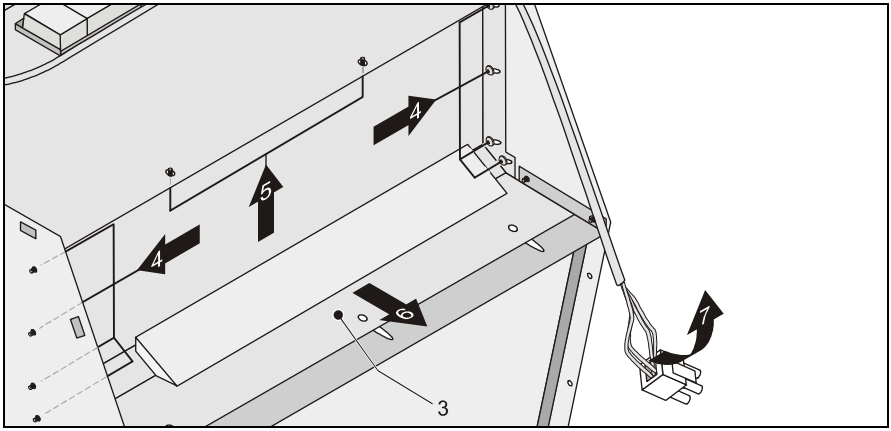
- Attach the lower frame brackets (position 6 in the illustration "View of the frame (completely assembled)") on the left and on the right side using two round head screws M4x6 each (1).



- Attach the middle frame brackets (position 5 in the illustration "View of the frame (completely assembled)") on the left and on the right side using two round head screws M4x6 each in the lower hole pattern (2).

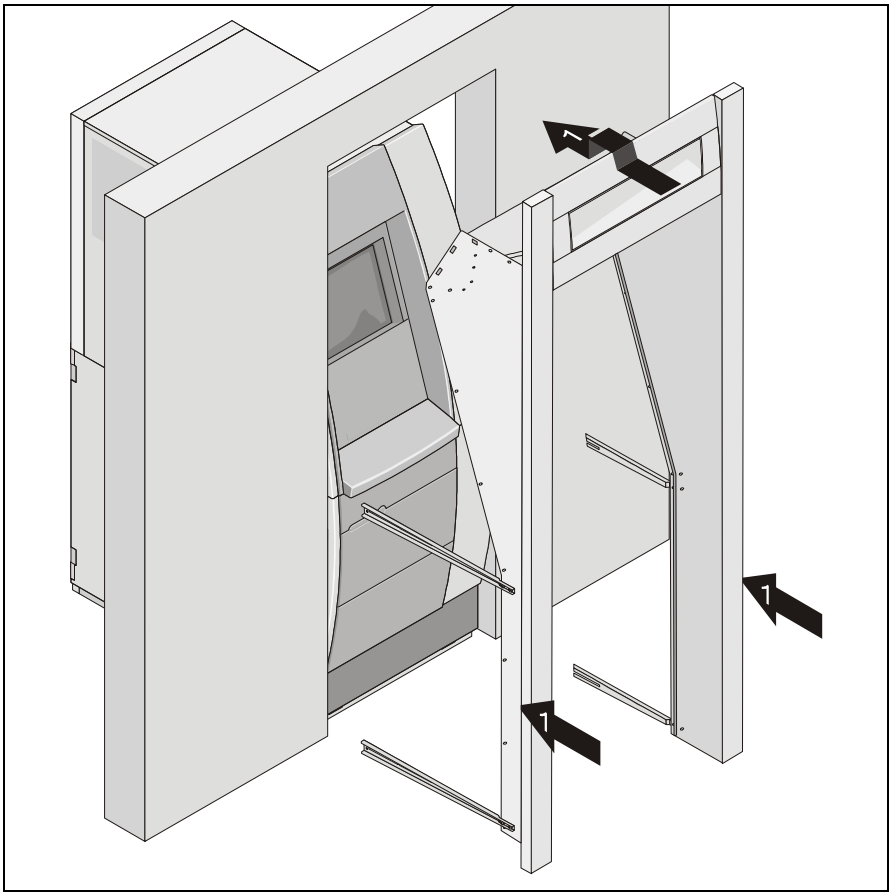


i Before the frame can be mounted, you must ensure that the cover angle (3) is moved as far as possible in the direction show by the arrow (6). If this is not the case, loosen the four laterally screws (4) and the two upper screws (5). Push the cover angle (3) as far as possible in the direction of the arrow (6). Fasten at least one of the previously loosened screws on right, on the left and on top.



- **Frame for complete integration with attached logo case only:** Raise the cable of the light box (7) and fix it.

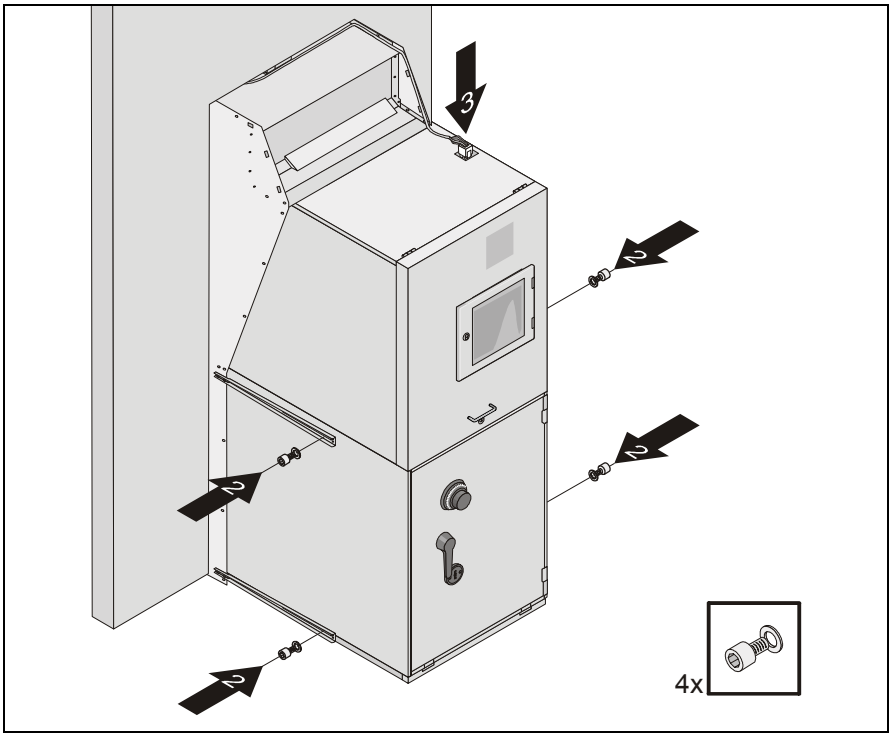
Mounting the frame



- Push the frame from the front in the direction of the arrow (1) up to the customer panel. Lift the frame a little and slide it carefully over the customer panel and let go.

  i Be careful not to scratch the customer panel and not to damage the connection cable.

- Push the frame against the wall.



- Attach the frame brackets on the side (2) to the device using one hexagon socket head cap screw (M6x10) and a washer (6.4x1.6).

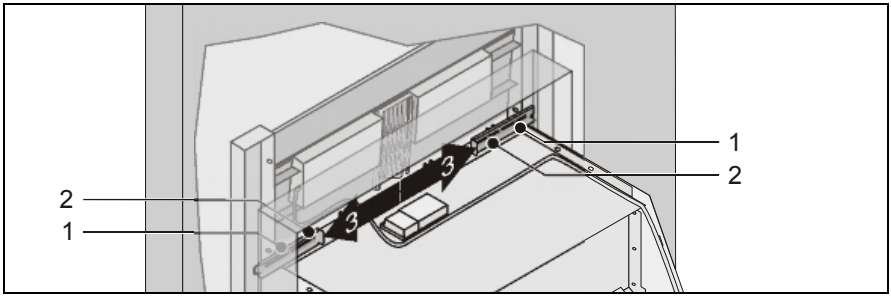
i If space is restricted use an appropriate tool that is short enough.

When tightening the screws of the frame brackets, make sure that the frame touches the wall. However, if the wall is uneven, you must not use force to press it in, since the frame could distort when you secure the frame tabs. This could cause the customer panel to grate or jam against the inside of the frame when you open it.

- Plug the connection cable in the socket on the top cover of the CINEO C4080 (3).

Wall fixation

After you installed the frame into the wall, you need to fix the wall on its rear side.



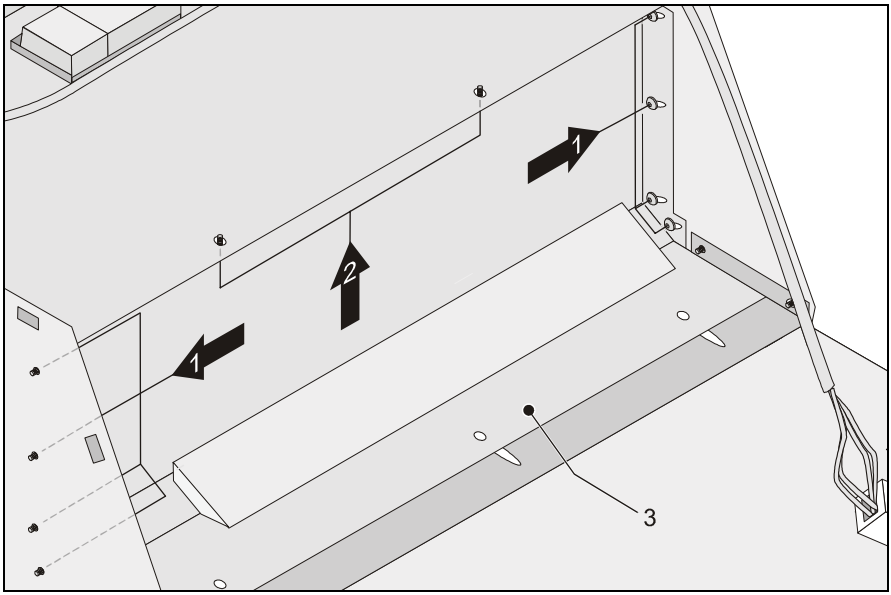
- Loosen screws (1) and (2).
- Move the two wall fixations as fas as possible outward (3).
- Fasten the screws (1) and (2) again.

Adjustmenting the cover angle

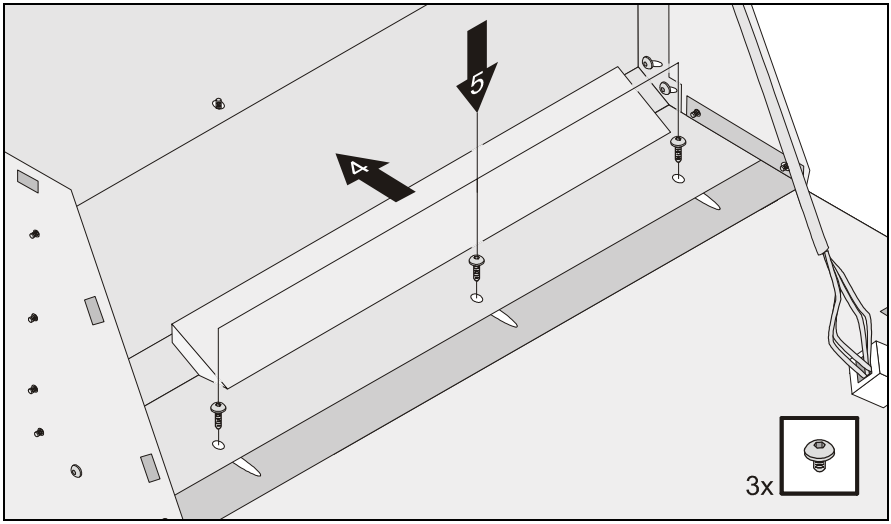
i

Adjust the cover angle inside of the frame to compensate mounting tolerances of the installation frame.

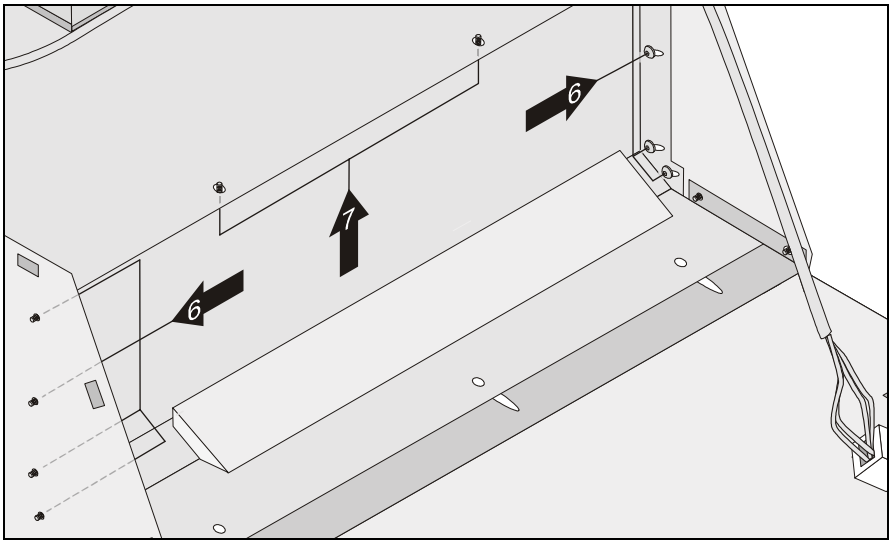
Then the cover angle is screwed to the traverse inside of the device.



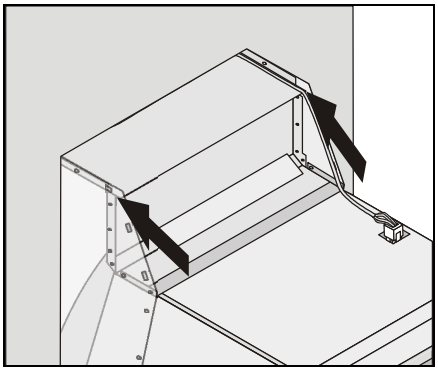
- Loosen the screws (1) and (2) of the cover angle (3).



- Push the cover angle as far as possible in the direction of the arrow (4) until the screw points in the housing cover are visible. Fasten it to the device with three Taptite fillister head screw TT M4x10 (5).



- Tighten the four screws on the left and on the right (6) and the two upper screws (7).



If light shines through the corner areas of the frame out of the room in the back, the corners can be closed with silicone on the rear side of the frame, if necessary.

(Silicone is not included in the shipment!)

Installation with window frame

Installing the installation frame

Observe the specified maintenance space when positioning the device and the installation frame (see chapter "Planning the Installation", section "Space required for operation and maintenance").
Make sure that the wall distances is in the area of the back ventilation opening at least **50 mm (1.97")** (referring to the installation frame **53 mm (2.09")**) and in the front area (customer panel side) referring to the safe at least **20 mm (0.79")** (referring to the installation frame **23 mm (0.91")**). It is mandatory that the area underneath the control panel is completely empty because of the air inlet.

The installation area must be flat and on one level with the surrounding floor. Any differences in floor height in the installation area must be leveled out with rustproof shims, for example.

Securing the installation frame

The installation frame needs to be anchored in the floor at **four** attachment points regardless of the safe construction type (UL, CEN L4, CEN III, CEN IV). These attachment points are at position (1). Mounting points (2) serve as alternative attachment points (see following illustrations).

The supplied installation frame can be used for the Frontload and Rearload versions. Take note of the alignment of the installation frame.

If the mounting set is not provided, use equivalent fastening material.

- Align the installation frame and mark the holes to be drilled for mounting the installation frame (see illustration below).

If a tear-off sensor is to be installed as agreed with the financial institution or the alarm technician, also mark the holes for the tear-off sensor (see illustrations below).

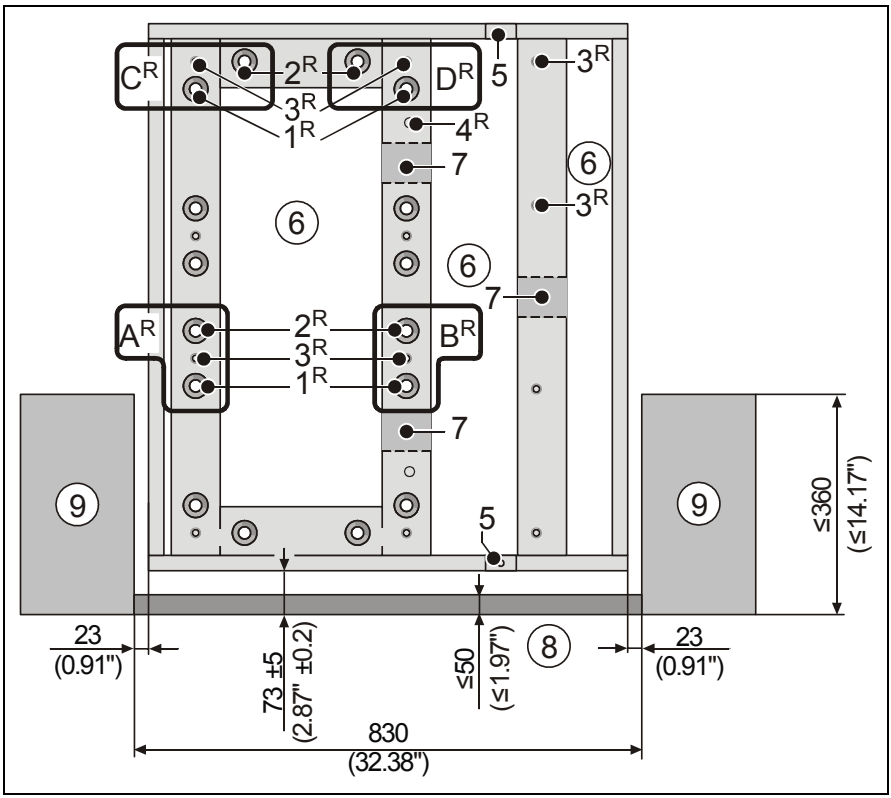
The installation frame must be secured using one threaded rod per group of holes A to D. The installation frame is secured with a total of four threaded rods.

The superscript letter in the following illustration stands respectively for:

- ^{R}: Rearload

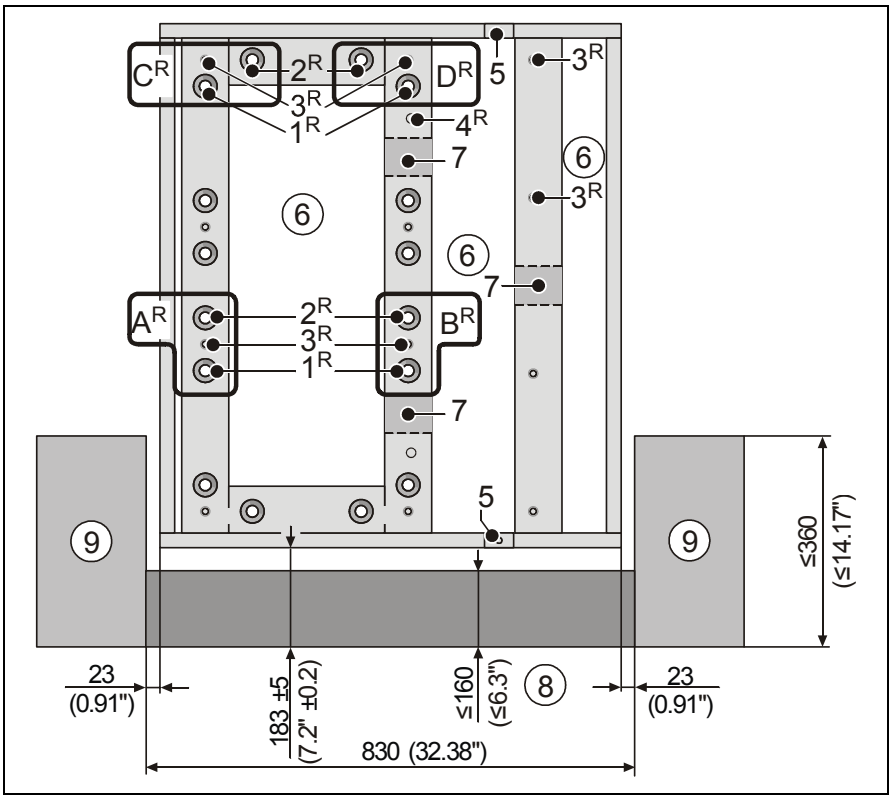
(See illustration on the following page)

Position of the installation frame with a maximum wall thickness of 50 mm (1.96")



- 1^R Attachment points of installation frame
- 2^R Alternative attachment points of installation frame
- 3^R Attachment points of safe
- 4^R Attachment point of tear-off sensor
- 5 Cable lead-ins in the installation frame
- 6 Area for cables
- 7 Cable feed openings underneath the installation frame
- 8 This side must always point towards the customer panel.
- 9 Wall

Position of the installation frame with a maximum wall thickness of 160 mm (6.3")



1^R Attachment points of installation frame

2^R Alternative attachment points of installation frame

3^R Attachment points of safe

4^R Attachment point of tear-off sensor

5 Cable lead-ins in the installation frame

6 Area for cables

7 Cable feed openings underneath the installation frame

8 This side must always point towards the customer panel.

9 Wall

- Drill the required four holes and the hole for the tear-off sensor, if necessary (see following figures).

Installation on raised or cavity flooring as well as on floating screed is not admissible according to CEN standard. If the mounting structure differs from the one described below (see illustration below), it must be approved by the insurer.

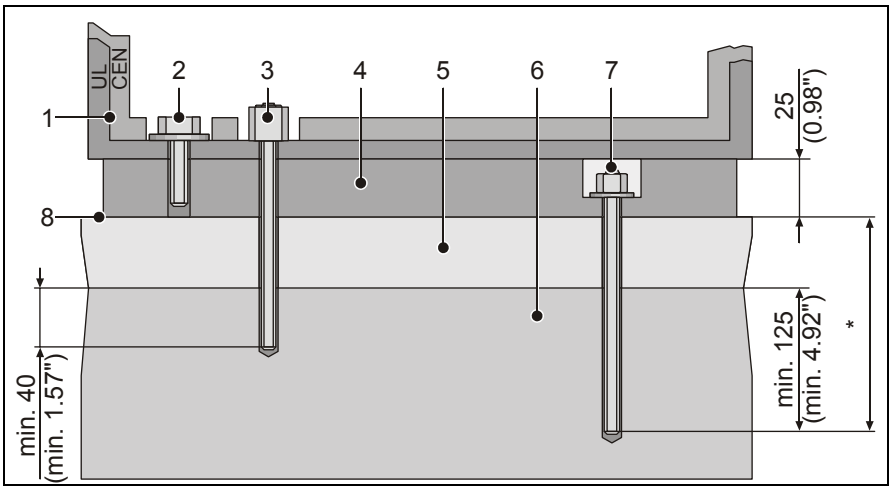
To ensure that the safe does not become detached, the threaded rods of the installation frame must be fastened in the concrete foundation.

The drilled holes in the concrete foundation must have a depth of at least 125 mm (4.92") for the installation frame (see illustration below).

For the hole diameter please refer to the mounting instructions of the caulking cartridge.

The drilled hole in the concrete foundation must have a depth of at least 40 mm (1.57") for the tear-off sensor (see illustration below). Consult your alarm technician about the size of the hole and the fixing.

Mounting structure

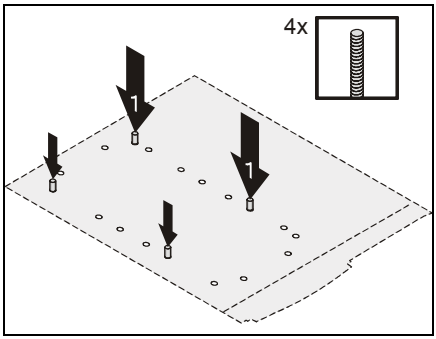


1 Safe
2 Mounting set for safe
3 the tear-off sensor
4 Installation frame
5 Screed
6 Concrete
7 Mounting set for installation frame
8 Top surface of finished floor

* The overall drilling depth depends on the constructional situation. The threaded rods must be anchored at least 125 mm in the load-bearing concrete.

Excess lengths must be shortened correspondingly or, if necessary in case of deeper floor anchorages, be replaced by equivalent threaded rods.

- Clean the bore holes as specified in the mounting instructions of the caulking cartridge.



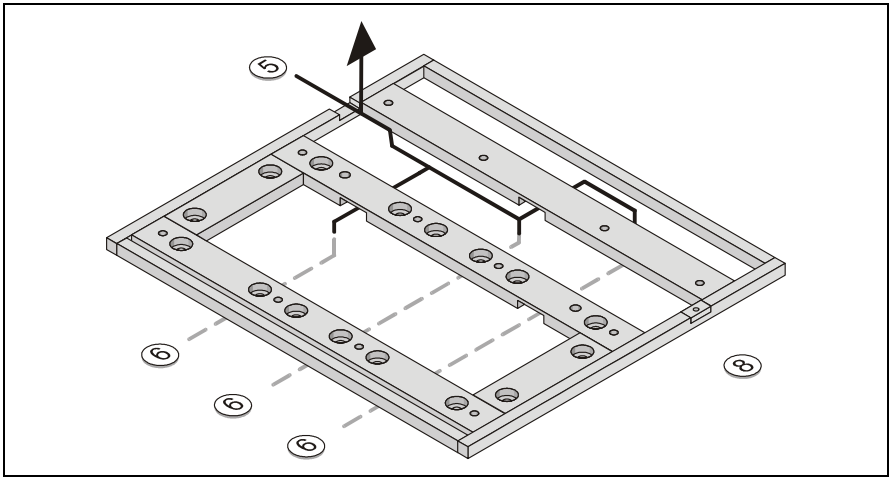
Secure the threaded rods in the concrete foundation (1) as specified in the mounting instructions of the caulking cartridge.
(Illustration as an example)

i The threaded rods must protrude at a minimum 24 mm (0.94") and at a maximum 25 mm (0.98").

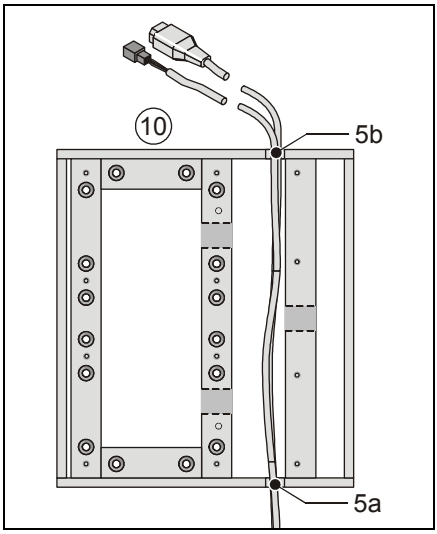
i If the mounting set is not provided, use equivalent fastening material.

- Insert the cartridge for the tear-off sensor if required.

i The space inside the installation frame allows cable lead-in through cable ducts in the floor.



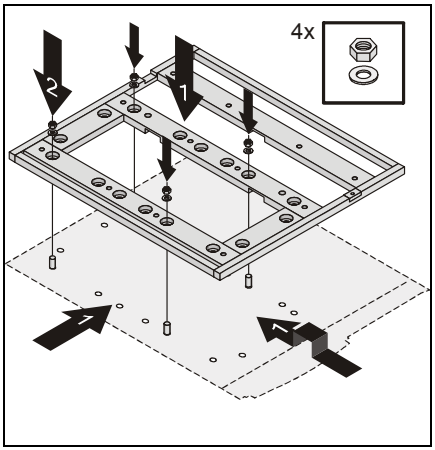
5 Cable lead-in in the installation frame
6 Cable feed through the floor
8 Customer panel side



If the connecting cables on the site are not located on the safe door side:

Insert the data lines, the connecting cable of the remote status indicator (optional) and the power cord through the cable lead-ins and if necessary through the cable feed openings behind the safe door side (10) of the installation frame, as in the example shown here.

⚠ Make sure that the connecting cables are laid loosely and are not crushed by the installation frame.



Push the installation frame onto the threaded rods (1) as shown in the illustration as an example.

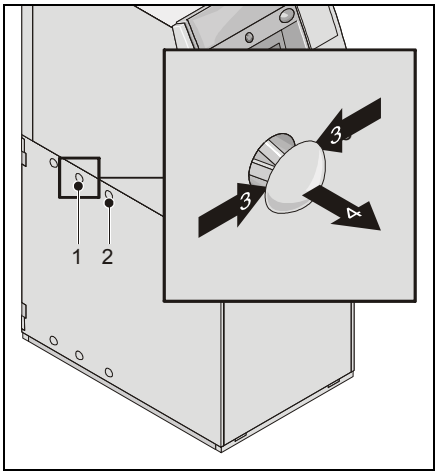
Secure the installation frame using one hexagon nut and one washer for each of the 4 attachment points (2) (for material see section "Mounting set").

i If applicable, note the hardening times of the mounting material.

The threaded rods must not protrude beyond the installation frame. If necessary, level the threaded rods.

Mounting the device on the installation frame

Before the frame can be mounted, certain steps are required for systems which have not been prepared for frame installation in the factory (please refer to the mounting instructions supplied with the frame).



Remove the blind plugs in positions (1) and (2) on both sides of the device by levering them up from the side (3) and pulling them out (4).

- Push the device onto the installation frame.

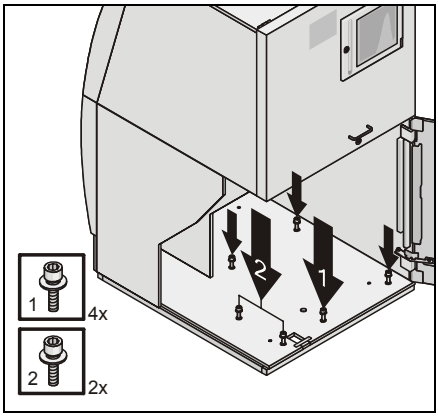
  Ensure that no cables are damaged in the process.

- Open the safe door (see chapter "Basic Operation" in the operating manual).

- If it is necessary for the installation remove those parts inside the unit which secure its components during transportation (see enclosed information sheet).

- Pull out the RM3 (see chapter "Basic Operation" in the operating manual).

Screwing the device on the installation frame

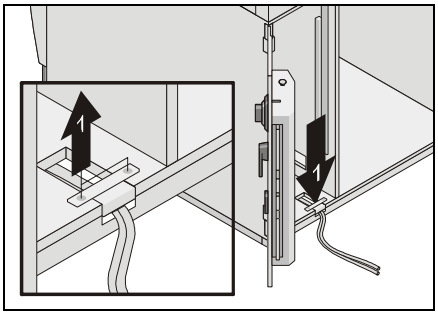


Align the device to the installation frame and screw the main safe with four pan head screws and four washers (1) and the secondary safe with two pan head screws and two washers (2) to the installation frame (for material see section "Mounting sets").

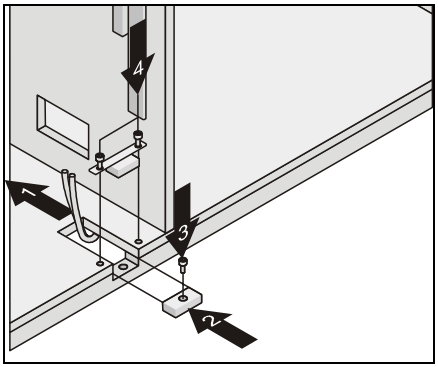
UL:
(1) M16 x 40 / (2) M16 x 40

CEN:
(1) M16 x 45 / (2) M16 x 40

Installing the power and data cables in the device



Undo the two screws (1) and remove the filling piece of the safe underneath.



Feed the cable into the safe (1).

Replace the filling piece of the installation frame (position 6a) (2) and fix it with the earlier removed screw (3).

Replace the filling piece of the safe and fix it with the two screws (4).

Further procedure for CEN installation

- Attach the VdS/ECB•S label for the installation frame inside the safe door below the existing VdS/ECB•S label of the safe. (The VdS/ECB•S label for the mounted installation frame is included with the installation frame).
- After mounting the installation frame and the device, fill out the Confirmation of Installation. (The Confirmation of Installation is included with the installation frame.)
- Fax the filled out and signed Confirmation of Installation form to the fax number provided on the form.

  i If there is no fax machine available, the form has to be faxed to this number at a later point in time.

- Give the Confirmation of Installation to the operator of the device.

  i The operator needs the Confirmation of Installation for submitting it to the insurance company.

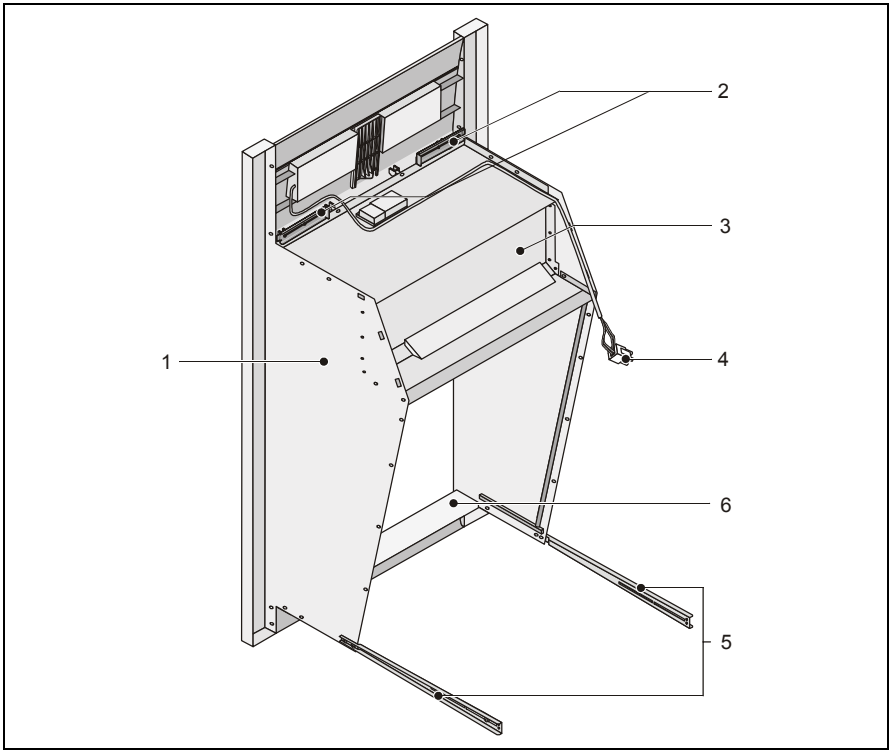
General information

- Close the device.
- Unpack the parts of the installation frame and install them (see the following section).

Installing the window frame

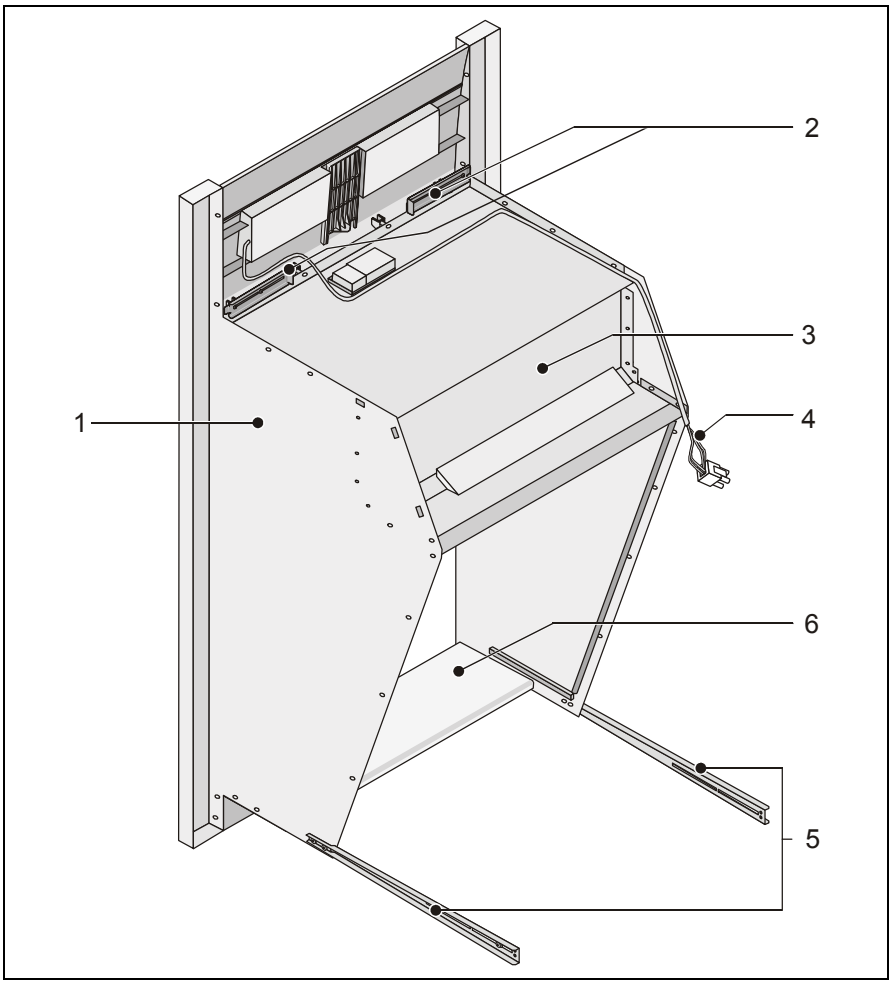
View of the frame (completely assembled)

With an attached logo case and wall thickness up to 50 mm (1.96")



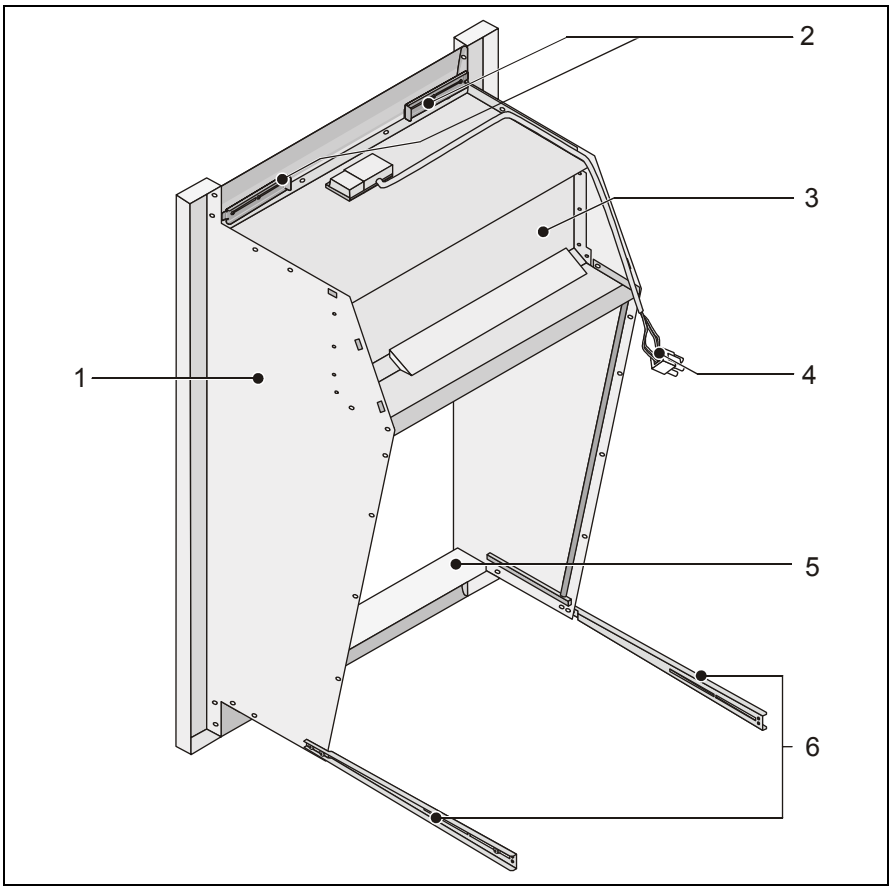
1 sensor at the frame
2 Wall fixation
3 Cover angle (adjustment only after the frame is attached to the device)
4 Connection cable for lighting
5 Frame bracket
6 Window crossbar

With an attached logo case and wall thickness up to 160 mm (6.30")



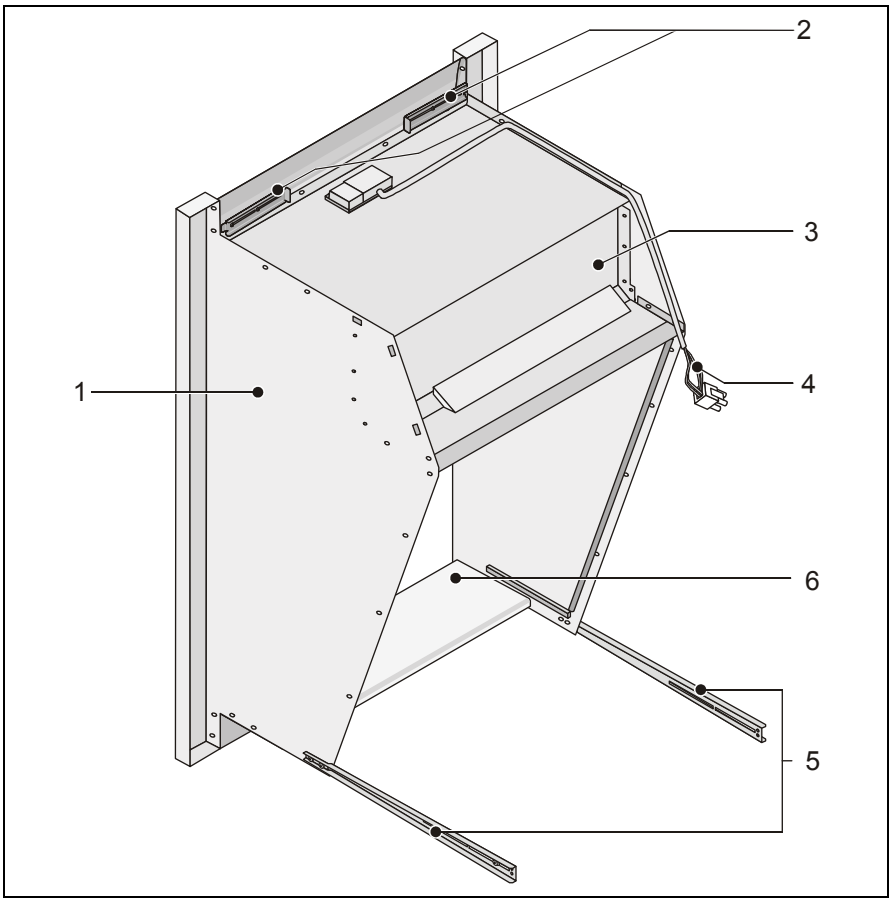
1 sensor at the frame
2 Wall fixation
3 Cover angle (adjustment only after the frame is attached to the device)
4 Connection cable for lighting
5 Frame bracket
6 Window crossbar

Without an attached logo case and wall thickness up to 50 mm (1.96")



1 sensor at the frame
2 Wall fixation
3 Cover angle (adjustment only after the frame is attached to the device)
4 Connection cable for lighting
5 Frame bracket
6 Window crossbar

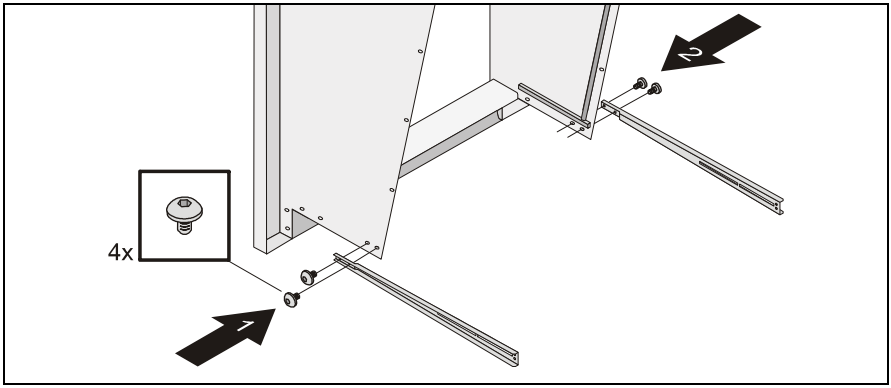
Without an attached logo case and wall thickness up to 160 mm (6.30")



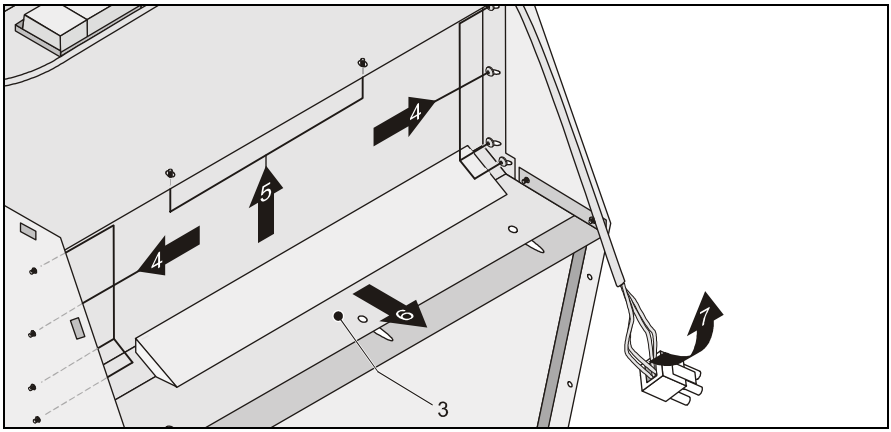
1 sensor at the frame
2 Wall fixation
3 Cover angle (adjustment only after the frame is attached to the device)
4 Connection cable for lighting
5 Frame bracket
6 Window crossbar

Pre-assembling the frame

- Attach the frame brackets (position 5 in the illustration "View of the frame (completely assembled)") on the left (1) and on the right side (2) using two round head screws M4x6 each.



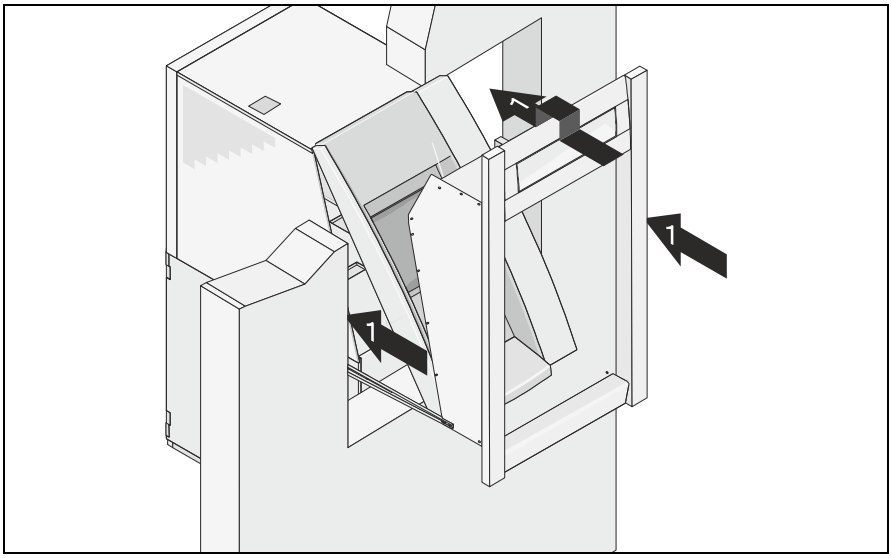
i Before the frame can be mounted, you must ensure that the cover angle (3) is moved as far as possible in the direction show by the arrow (6). If this is not the case, loosen the four laterally screws (4) and the two upper screws (5). Push the cover angle (3) as far as possible in the direction of the arrow (6). Fasten at least one of the previously loosened screws on right, on the left and on top.



- **Window frame with attached logo case only:** Raise the cable of the light box (7) and fix it.

Mounting the frame

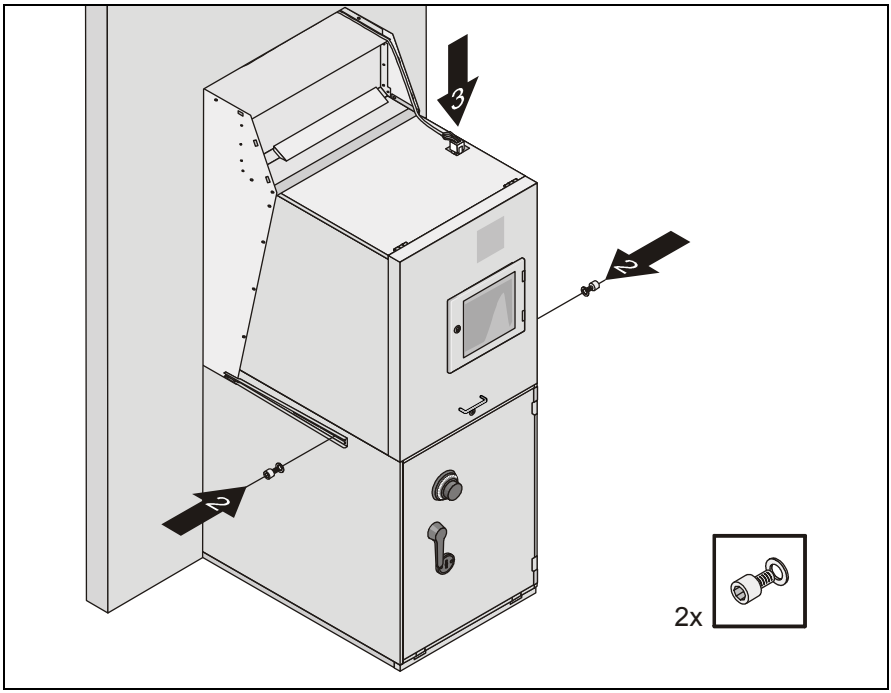
The window frame for up 50 mm (1.96") with an attached logo case is displayed in the following illustration. The mounting of other variants proceed in the same way.



- Open the customer panel by approximately 30° (see operating manual).
- Push the frame from the front in the direction of the arrow (1) up to the customer panel. Lift the frame a little and slide it carefully over the customer panel and let go.

Be careful not to scratch the customer panel and not to damage the connection cable.

- Push the frame against the wall.
- Close the customer panel (see operating manual).



- Attach the frame brackets on the side (2) to the device using one hexagon socket head cap screw (M6x10) and a washer (6.4x1.6).

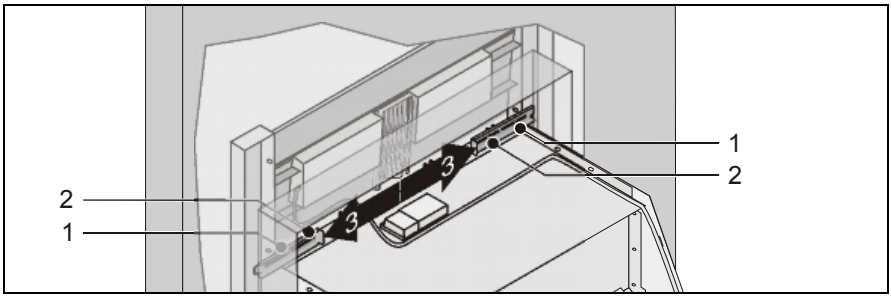
i If space is restricted use an appropriate tool that is short enough.

When tightening the screws of the frame brackets, make sure that the frame touches the wall. However, if the wall is uneven, you must not use force to press it in, since the frame could distort when you secure the frame tabs. This could cause the customer panel to grate or jam against the inside of the frame when you open it.

- Plug the connection cable in the socket on the top cover of the CINEO C4080 (3).

Wall fixation

After you installed the frame into the wall, you need to fix the wall on its rear side.



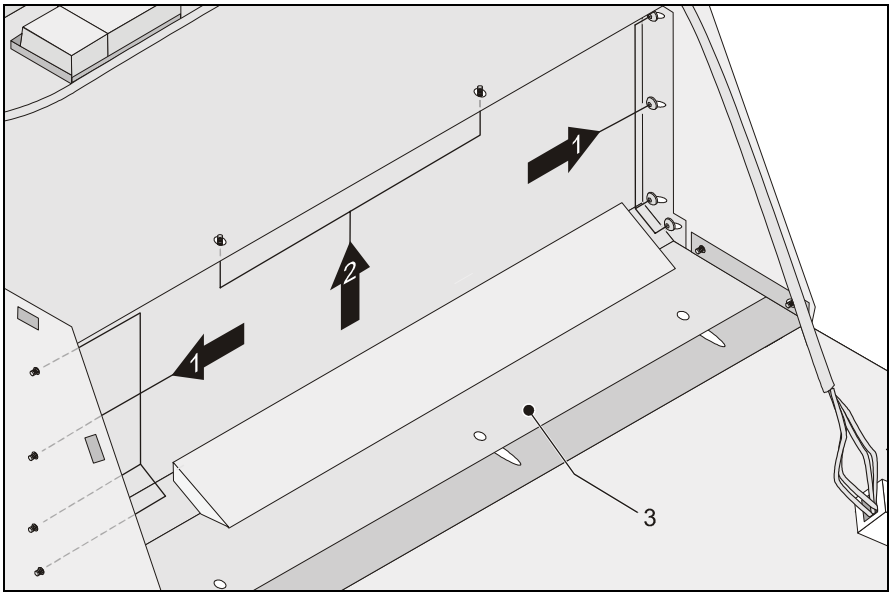
- Loosen screws (1) and (2).
- Move the two wall fixations as fas as possible outward (3).
- Fasten the screws (1) and (2) again.

Adjustmenting the cover angle

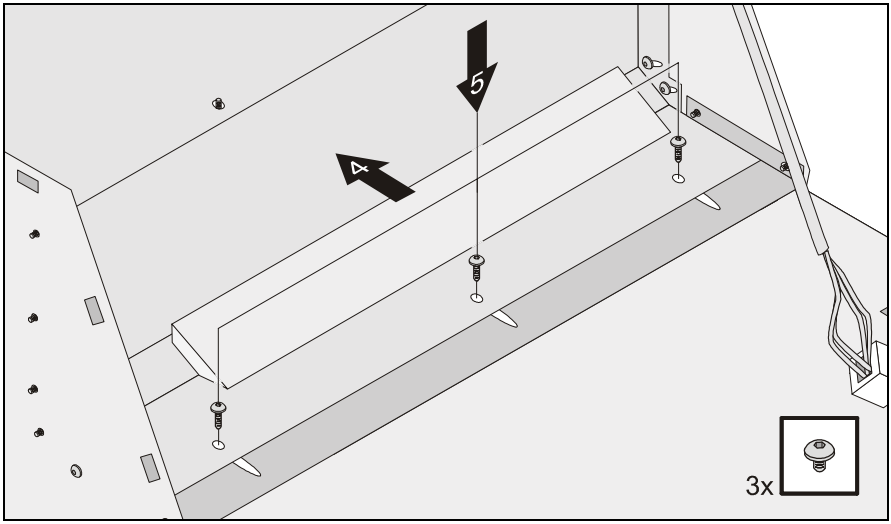
i

Adjust the cover angle inside of the frame to compensate mounting tolerances of the installation frame.

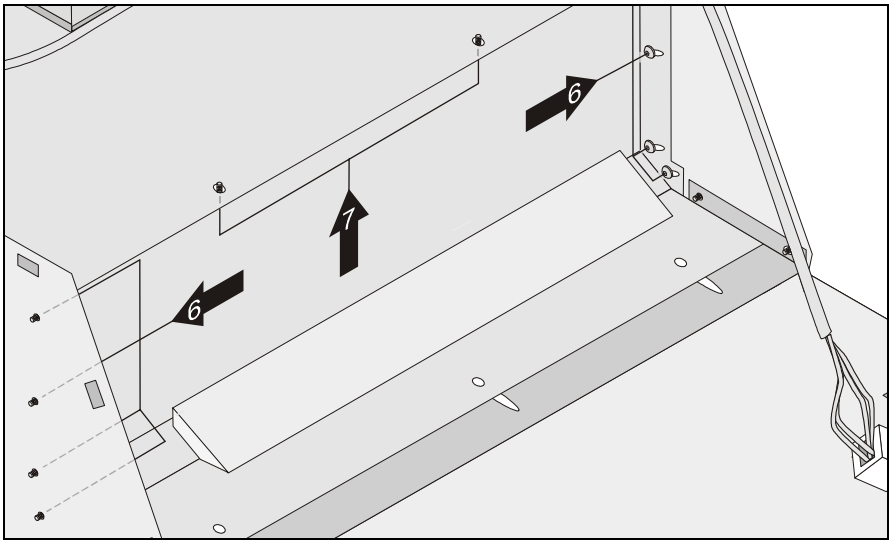
Then the cover angle is screwed to the traverse inside of the device.



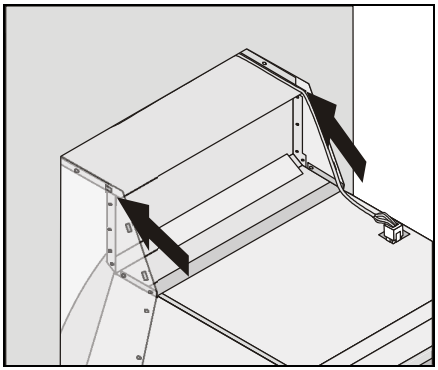
- Loosen the screws (1) and (2) of the cover angle (3).



- Push the cover angle as far as possible in the direction of the arrow (4) until the screw points in the housing cover are visible. Fasten it to the device with three Taptite fillister head screw TT M4x10 (5).



- Tighten the four screws on the left and on the right (6) and the two upper screws (7).



If light shines through the corner areas of the frame out of the room in the back, the corners can be closed with silicone on the rear side of the frame, if necessary.

(Silicone is not included in the shipment!)

Installation with frame for partial integration in the wall

Installing the installation frame

i Observe the specified maintenance space when positioning the device and the installation frame (see chapter "Planning the Installation", section "Space required for operation and maintenance").

Make sure that the wall distances is in the area of the back ventilation opening at least **50 mm (1.97")** (referring to the installation frame **53 mm (2.09")**) and in the front area (customer panel side) referring to the safe at least **20 mm (0.79")** (referring to the installation frame **23 mm (0.91")**). It is mandatory that the area underneath the control panel is completely empty because of the air inlet.

i The installation area must be flat and on one level with the surrounding floor. Any differences in floor height in the installation area must be leveled out with rustproof shims, for example.

Securing the installation frame

The installation frame needs to be anchored in the floor at **four** attachment points regardless of the safe construction type (UL, CEN L4, CEN III, CEN IV). These attachment points are at position (1). Mounting points (2) serve as alternative attachment points (see following illustrations).

The supplied installation frame can be used for the Frontload and Rearload versions. Take note of the alignment of the installation frame.

i If the mounting set is not provided, use equivalent fastening material.

- Align the installation frame and mark the holes for mounting the installation frame (see illustration below).

i If a tear-off sensor is to be installed as agreed with the financial institution or the alarm technician, also mark the holes for the tear-off sensor (see illustrations below).

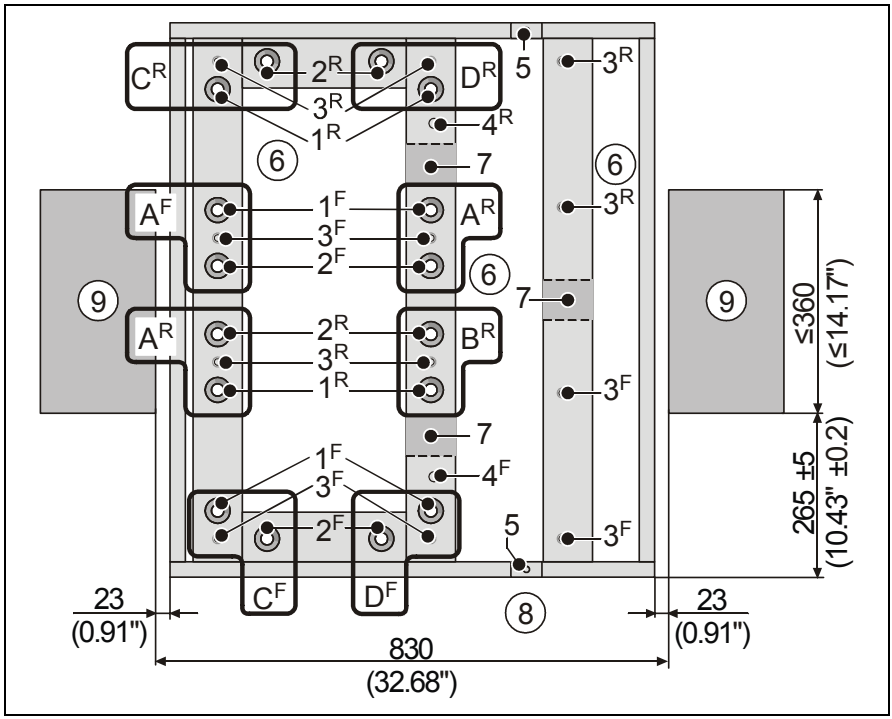
The installation frame must be secured with one threaded rod per group of holes A to D. The installation frame is secured with four threaded rods.

The superscript letter in the following illustration stands respectively for:

- ^{F}: Frontload
- ^{R}: Rearload

There is only the respective number in the key without the superscript letter. The classification to Frontload and Rearload is implied by the illustration.

(See illustration on the following page)



1 Attachment points of installation frame
2 Alternative attachment points of installation frame
3 Attachment points of safe
4 Attachment point of tear-off sensor
5 Cable lead-ins in the installation frame
6 Area for cables
7 Cable feed openings underneath the installation frame
8 This side must always point towards the customer panel
9 Wall

- Drill the required four holes and the hole for the tear-off sensor, if necessary (see following figures).

i

Installation on raised or cavity flooring as well as on floating screed is not admissible according to CEN standard. If the mounting structure differs from the one described below (see illustration below), it must be approved by the insurer.

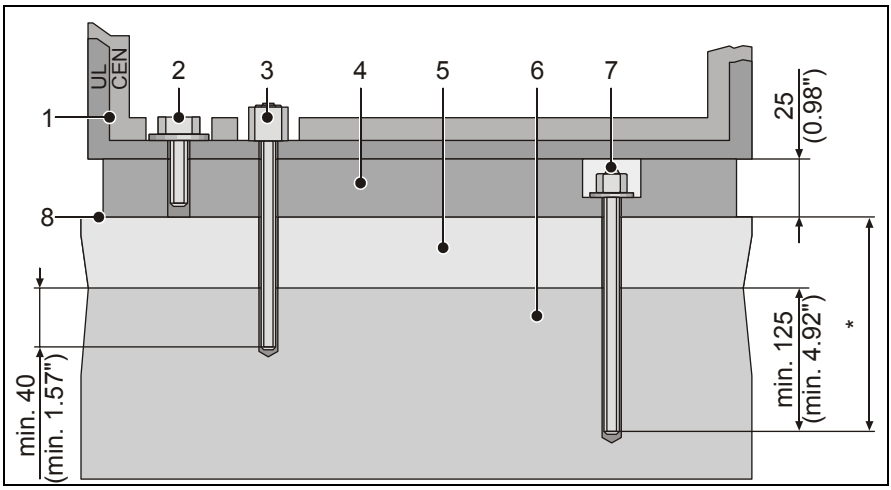
To ensure that the safe does not become detached, the threaded rods of the installation frame must be fastened in the concrete foundation.

The drilled holes in the concrete foundation must have a depth of at least 125 mm (4.92") for the installation frame (see illustration below).

For the hole diameter please refer to the mounting instructions of the caulking cartridge.

The drilled hole in the concrete foundation must have a depth of at least 40 mm (1.57") for the tear-off sensor (see illustration below). Consult your alarm technician about the size of the hole and the fixing.

Mounting structure

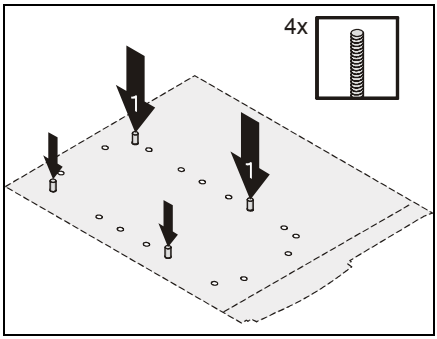


1 Safe
2 Mounting set for safe
3 the tear-off sensor
4 Installation frame
5 Screed
6 Concrete
7 Mounting set for installation frame
8 Top surface of finished floor

* The overall drilling depth depends on the constructional situation. The threaded rods must be anchored at least 125 mm in the load-bearing concrete.

Excess lengths must be shortened correspondingly or, if necessary in case of deeper floor anchorages, be replaced by equivalent threaded rods.

- Clean the bore holes as specified in the mounting instructions of the caulking cartridge.



Secure the threaded rods in the concrete foundation (1) as specified in the mounting instructions of the caulking cartridge.
(Illustration as an example)

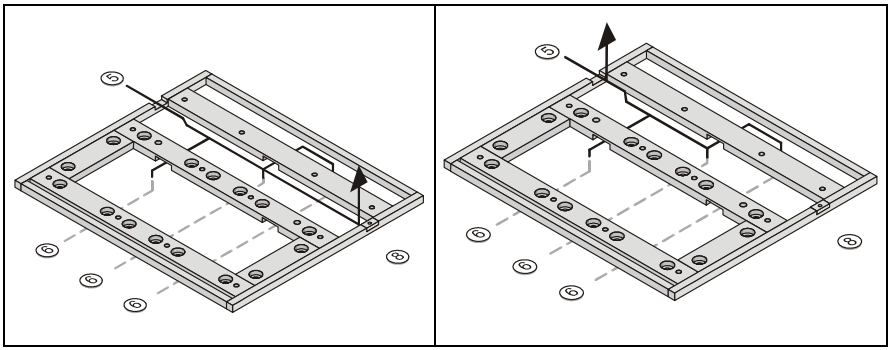
i The threaded rods must protrude at a minimum 24 mm (0.94") and at a maximum 25 mm (0.98").

i If the mounting set is not provided, use equivalent fastening material.

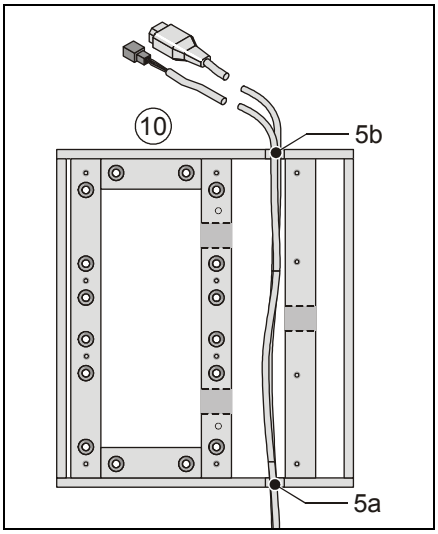
- Insert the cartridge for the tear-off sensor if required.

i The space inside the installation frame allows cable lead-in through cable ducts in the floor.

Frontload **Rearload**



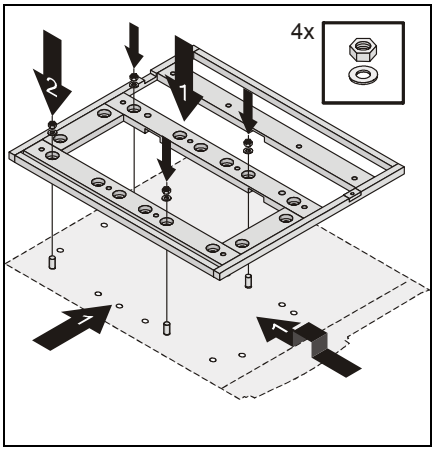
5 Cable lead-in in the installation frame
6 Cable feed through the floor
8 Customer panel side



If the connecting cables on the site are not located on the safe door side:

Insert the data lines, the connecting cable of the remote status indicator (optional) and the power cord through the cable lead-ins and if necessary through the cable feed openings behind the safe door side (10) of the installation frame, as in the example shown here.

Make sure that the connecting cables are laid loosely and are not crushed by the installation frame.



Push the installation frame onto the threaded rods (1) as shown in the illustration as an example.

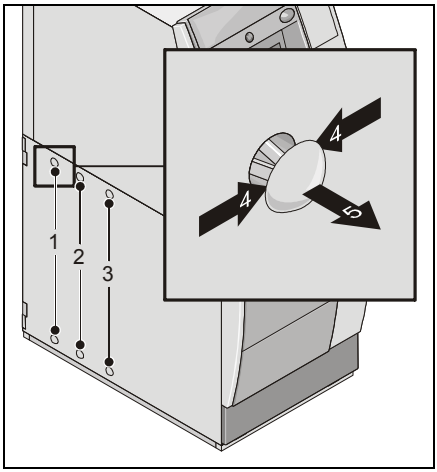
Secure the installation frame using one hexagon nut and one washer for each of the 4 attachment points (2) (for material see section "Mounting set").

If applicable, note the hardening times of the mounting material.

The threaded rods must not protrude beyond the installation frame. If necessary, level the threaded rods.

Mounting the device on the installation frame

Before the frame can be mounted, certain steps are required for systems which have not been prepared for frame installation in the factory (please refer to the mounting instructions supplied with the frame).



Remove the blind plugs in positions (1), (2) and (3) on both sides of the device by levering them up from the side (4) and pulling them out (5).

- Push the device onto the installation frame.

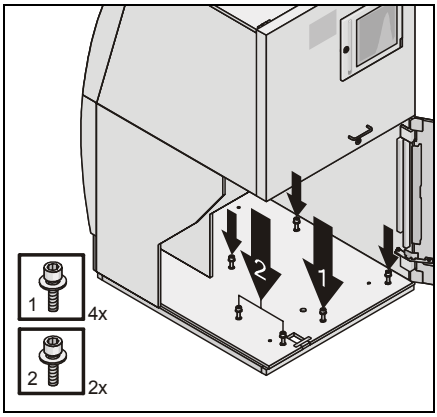
  Ensure that no cables are damaged in the process.

- Open the safe door (see chapter "Basic Operation" in the operating manual).

- If it is necessary for the installation remove those parts inside the unit which secure its components during transportation (see enclosed information sheet).

- Pull out the RM3 (see chapter "Basic Operation" in the operating manual).

Screwing the device on the installation frame

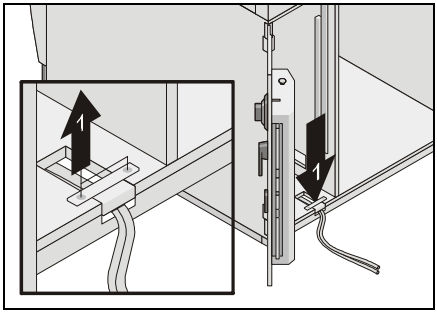


Align the device to the installation frame and screw the main safe with four pan head screws and four washers (1) and the secondary safe with two pan head screws and two washers (2) to the installation frame (for material see section "Mounting sets").

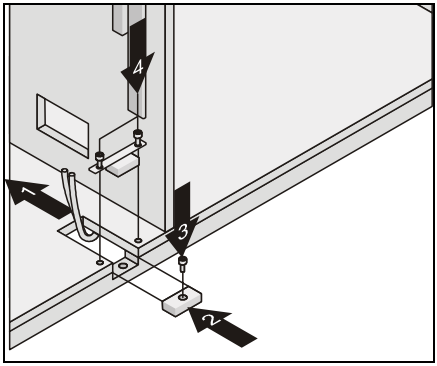
UL:
(1) M16 x 40 / (2) M16 x 40

CEN:
(1) M16 x 45 / (2) M16 x 40

Installing the power and data cables in the device



Undo the two screws (1) and remove the filling piece of the safe underneath.



Feed the cable into the safe (1).

Replace the filling piece of the installation frame (position 6a) (2) and fix it with the earlier removed screw (3).

Replace the filling piece of the safe and fix it with the two screws (4).

Further procedure for CEN installation

- Attach the VdS/ECB•S label for the installation frame inside the safe door below the existing VdS/ECB•S label of the safe. (The VdS/ECB•S label for the mounted installation frame is included with the installation frame).
- After mounting the installation frame and the device, fill out the Confirmation of Installation. (The Confirmation of Installation is included with the installation frame.)
- Fax the filled out and signed Confirmation of Installation form to the fax number provided on the form.

  i If there is no fax machine available, the form has to be faxed to this number at a later point in time.

- Give the Confirmation of Installation to the operator of the device.

  i The operator needs the Confirmation of Installation for submitting it to the insurance company.

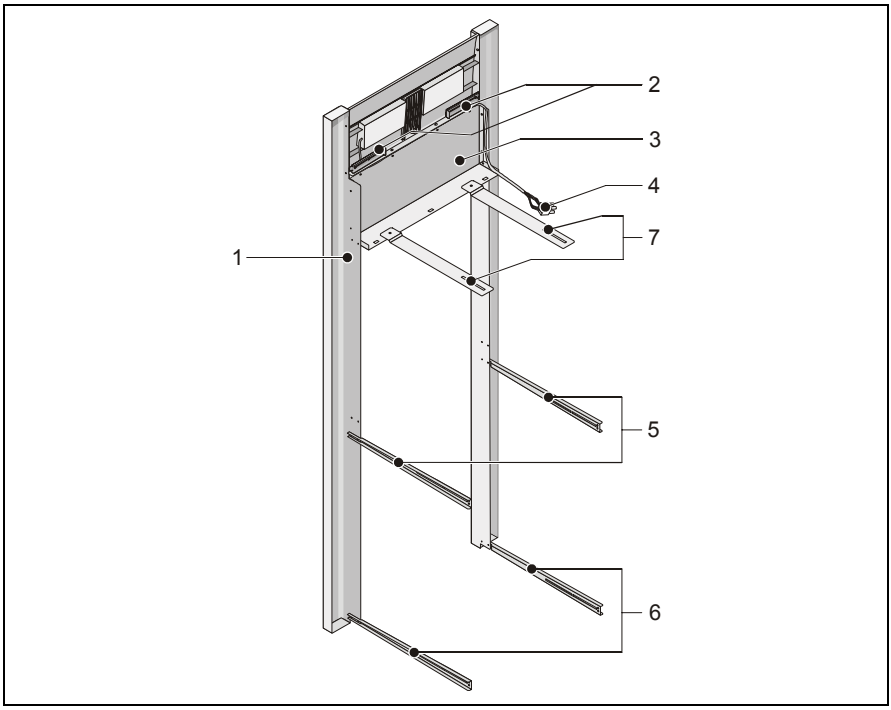
General information

- Close the device.
- Unpack the parts of the installation frame and install them (see the following section).

Installing the frame for partial integration in the wall

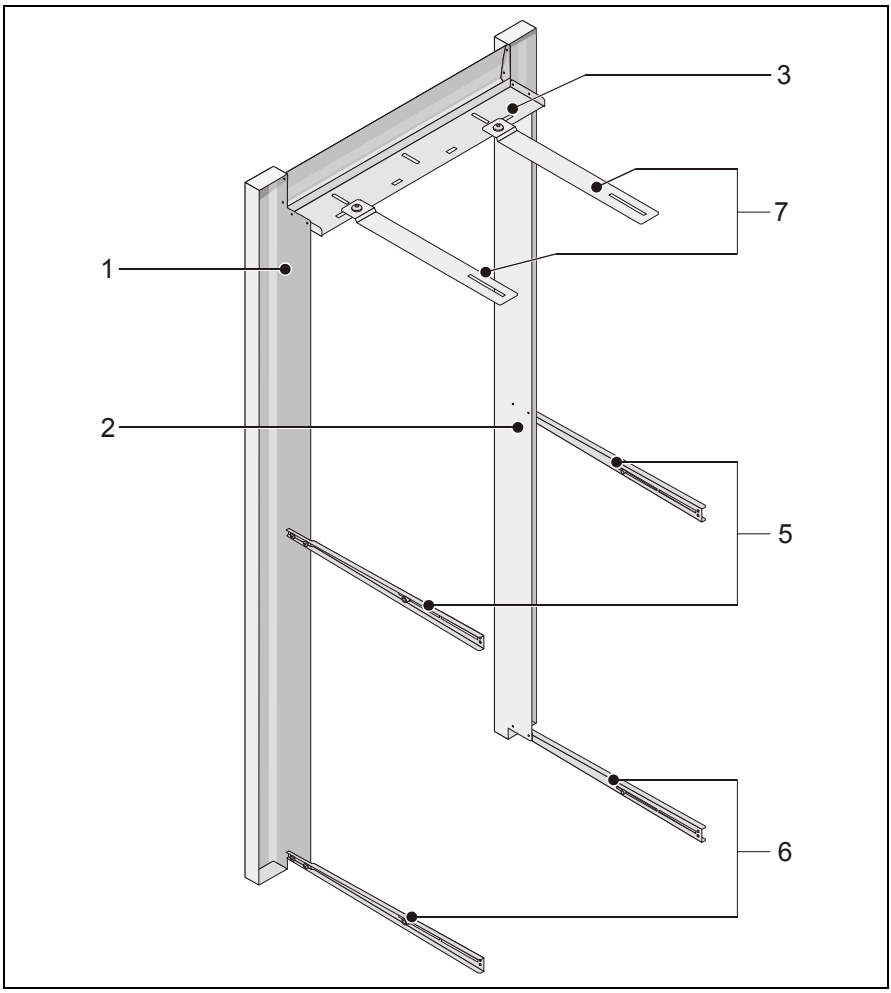
View of the frame (completely assembled)

With attached logo case



1 sensor at the frame
2 Cover angle
3 Wall fixation
4 Connection cable for lighting
5 Middle frame plate
6 Lower frame plate
7 Mounting brackets

Without attched logo case

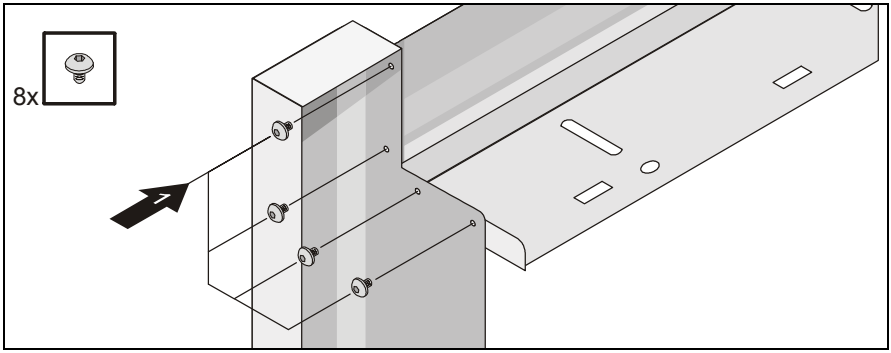


1 Right part of frame
2 Left part of frame
3 Top part of frame
5 Middle frame plate
6 Lower frame plate
7 Mounting brackets

Pre-assembling the frame

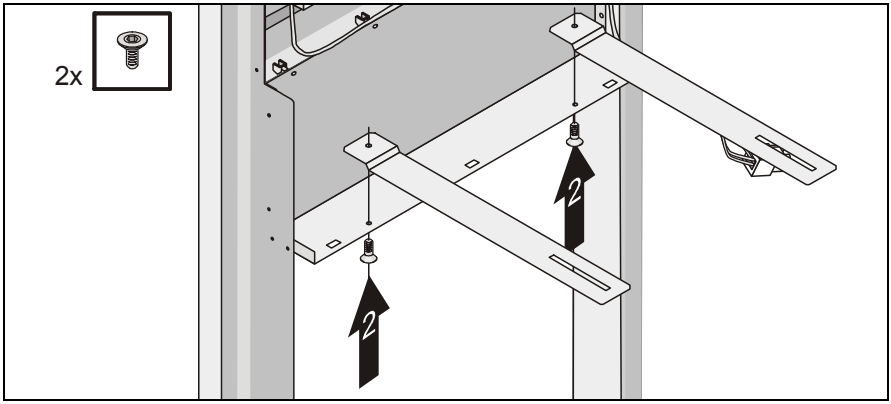
Frame for partial integration without attached logo case only

- Attach the top part of the frame and the sides of the frame (positions 1, 2 and 3 in the illustration "View of the frame (completely assembled)") on the left and on the right side according to the illustration below using the round head screws M4 x 6 (1).

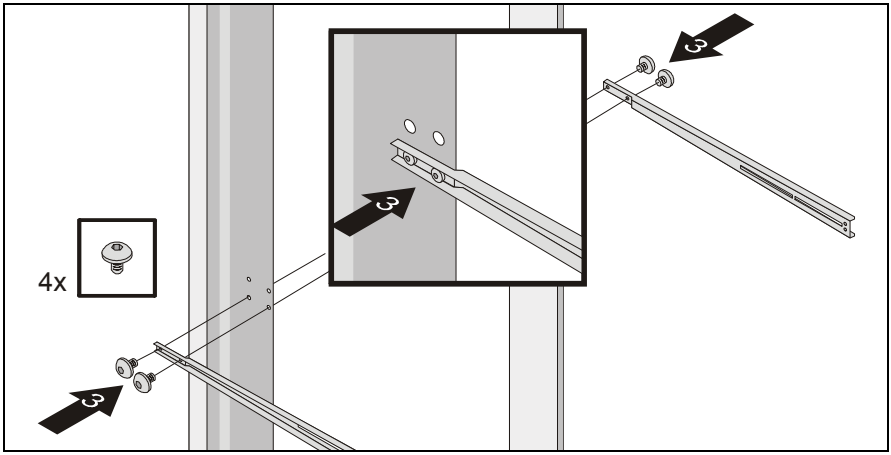


Frame for partial integration with/without attached logo case

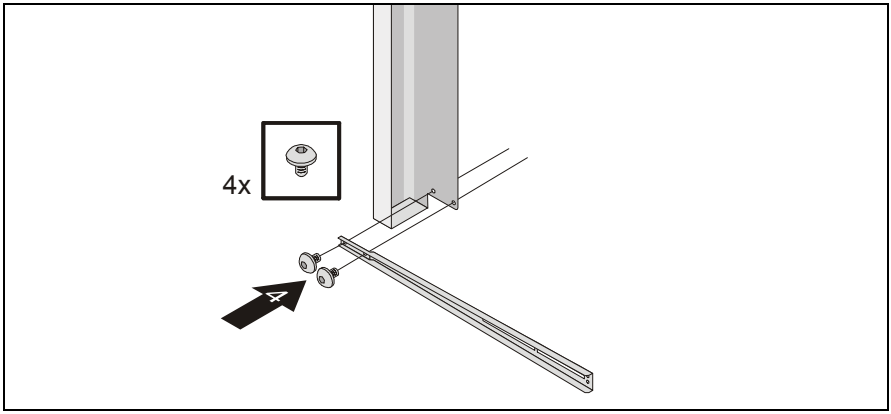
- Attach the upper mounting brackets (position 7 in the illustration "View of the frame (completely assembled)") with two countersunk screws M 4x6 (3).



- Attach the middle frame brackets (position 5 in the illustration "View of the frame (completely assembled)") on the left and on the right side using two round head screws M4x6 each in the lower hole pattern (3).

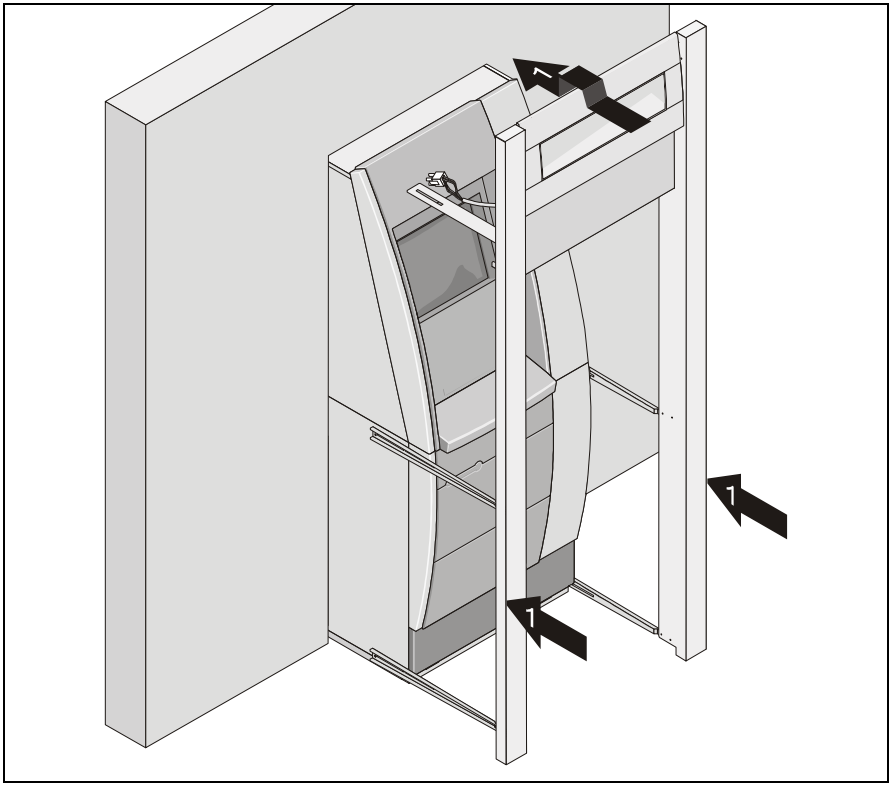


- Attach the lower frame brackets (position 6 in the illustration "View of the frame (completely assembled)") on the left and on the right side using two round head screws M4x6 each (4).



Mounting the frame

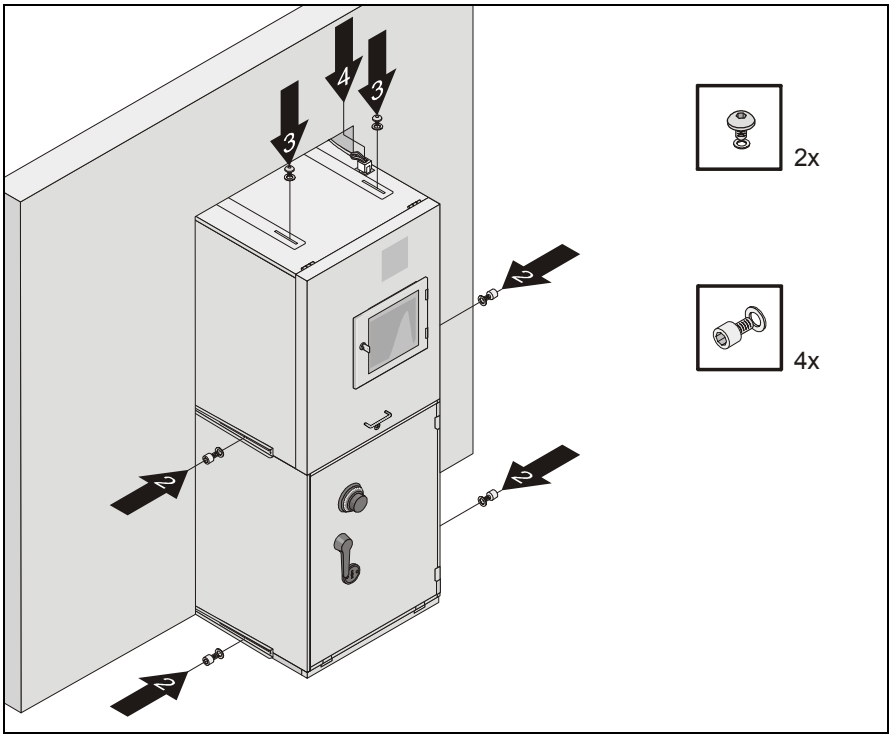
i The window frame with an attached logo case is displayed in the following. The mounting of other variants proceed in the same way.



- Push the frame from the front in the direction of the arrow (1) up to the customer panel. Lift the frame a little and slide it carefully over the customer panel and let go.

i Be careful not to scratch the customer panel.

- Push the frame against the wall.



- Attach the frame brackets on the side (2) to the device using pan head screws Allen screw M 6x10 each and a washer (6.4), and the upper mounting brackets (3) to the device using a round head screw M4x10 each and a washer (4.3).

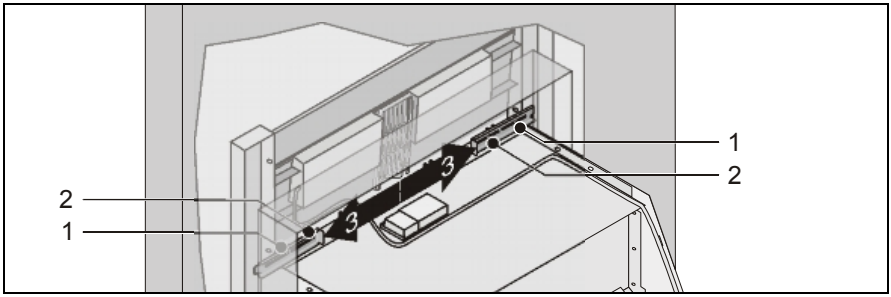
  i If space is restricted use an appropriate tool that is short enough.

  When tightening the screws of the frame brackets, make sure that the frame touches the wall. However, if the wall is uneven, you must not use force to press it in, since the frame could distort when you secure the frame tabs. This could cause the customer panel to grate or jam against the inside of the frame when you open it.

- **Frame for partial integration with attached logo case only:** Plug the connection cable in the socket on the top cover of the CINEO C4080 (4).

Wall fixation

After you installed the frame into the wall, you need to fix the wall on its rear side.



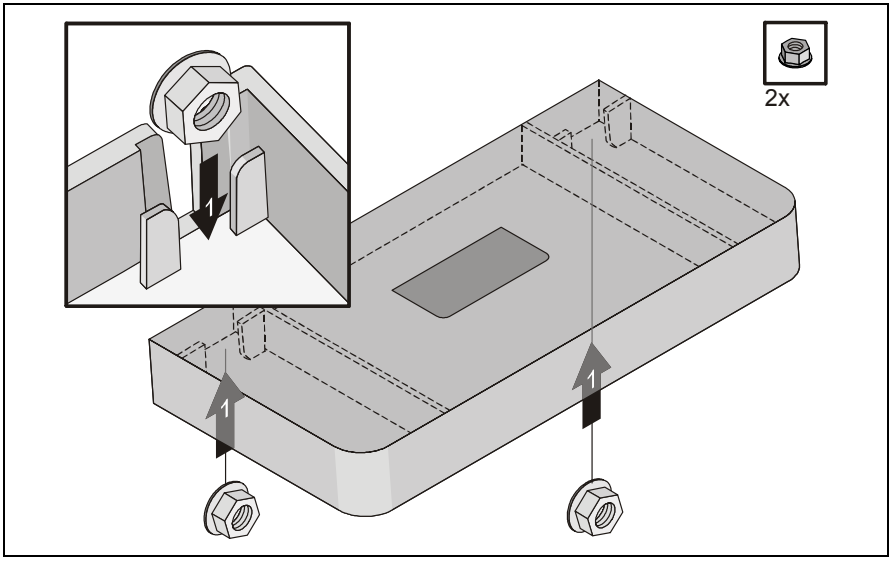
- Loosen screws (1) and (2).
- Move the two wall fixations as fas as possible outward (3).
- Fasten the screws (1) and (2) again.

Mounting the courtesy shelf

The installation procedure is described for a CINEO C4080 Rearload with design cover sheet as an example, the procedure is the same for a CINEO C4080 Frontload with design cover sheet. Any deviations are specifically described at the respective position.

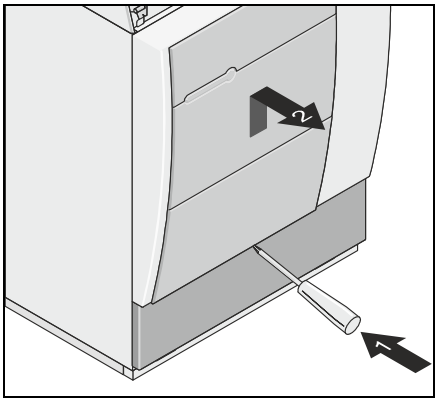
Preparatory work

Courtesy shelf plastic



- Slide the two hexagon serrated flange nuts M6 into the courtesy shelf plastic as shown above (1).

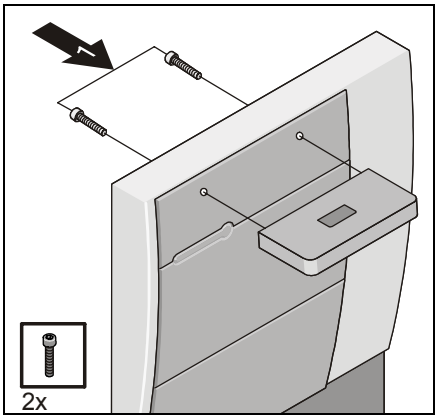
CINEO C4080 Rearload with design cover sheet



Remove the screw (1) from the protection plate.
Detach the front design cover sheet upwards (2).

Mounting the courtesy shelf

- Open the design door of the CINEO C4080 Frontload (see chapter "Basic Operation" in the operating manual) or detach the front cover sheet of the CINEO C4080 Rearload (see previous section).



Attach the courtesy shelf using two pan head screws M6x30 (1).

- Close the front door of the CINEO C4080 Frontload or replace the front cover sheet of the CINEO C4080 Rearload and fasten the screw in the protection plate.

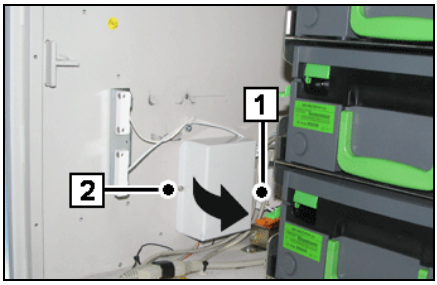
Start-up

The service technician will connect the power and data cables.

Seismic vibration detector installation

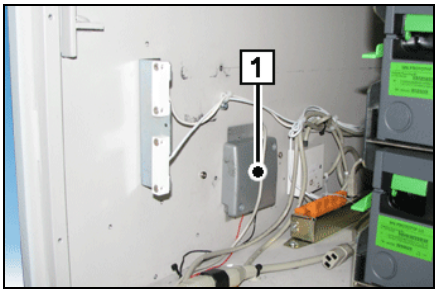
A certain preparation is mandatory for the installation for a seismic vibration detector into a CINEO C4080. This preparation can be deliviered from the factory as an option. Without this preparation is a correct functioning of the seismic vibration detector not given.

If the seismic vibration detector should be installed by an alarm technician, this information must be handed over to him.



Remove screws (1) and (2) on the cover.

Pull the cover in the direction shown by the arrow away from the safe wall and remove it.



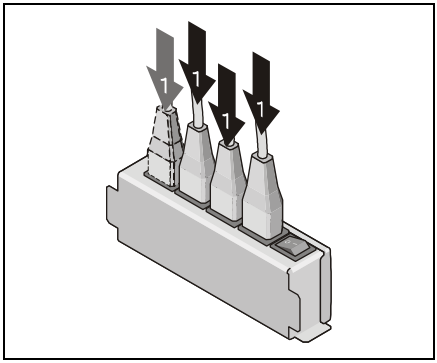
Install the seismic vibration detector (1) on the provided place according to the guidelines of the manufacturer.

Mount the cover following the steps in reverse order.

The cover is mandatory for the functioning of the seismic vibration detector.

Check power plugs on the power distributor

i You have to check that the power plugs are fitted correctly before using the power switch on the power distributor.



Plug all power plugs (1) in the power distributor.

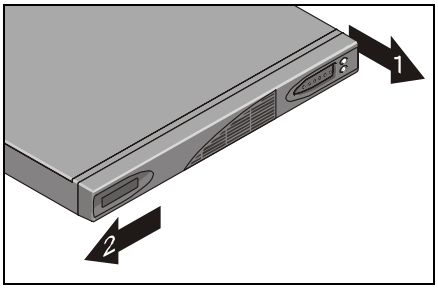
i The number of power plugs depends on the individual configuration.

Start-up UPS PW 5115 RM

⚠
- The power outputs could be still applied voltage, even if the UPS is not connected to an AC source.
- Because of the short circuit current batteries can cause electric shocks and burns. Therefore remove watches, rings and other metallic objects, before replacing the battery. Only use tools with insulated handles.
- Never combust a battery, because it may explode.
- Don't open or damage the battery; effluent electrolyte is harmful for skin and eyes.

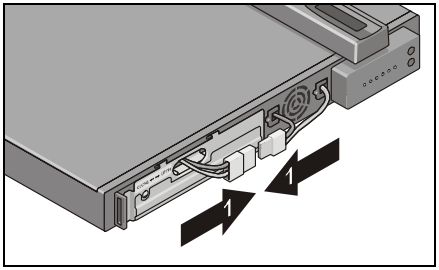
i Before the start-up of the CINEO C4080 there has to be a plug connection inside the UPS.
The mounting position of the UPS depends on the device and the actual positioning may be different.

- Open the CINEO C4080 and pull the printer carriage as far as possible out of the UPS (for its position in the CINEO C4080 please refer to the chapter "Device Overview", for its accessability to the chapter "Basic Operation" inside the operating manual).

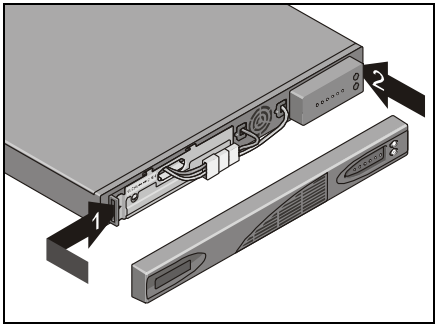


Pull the housing cover on the right forwards (1) until it is released of the right and the middle catches.

Remove the housing cover aside (2).



Connect the plug connection (1).

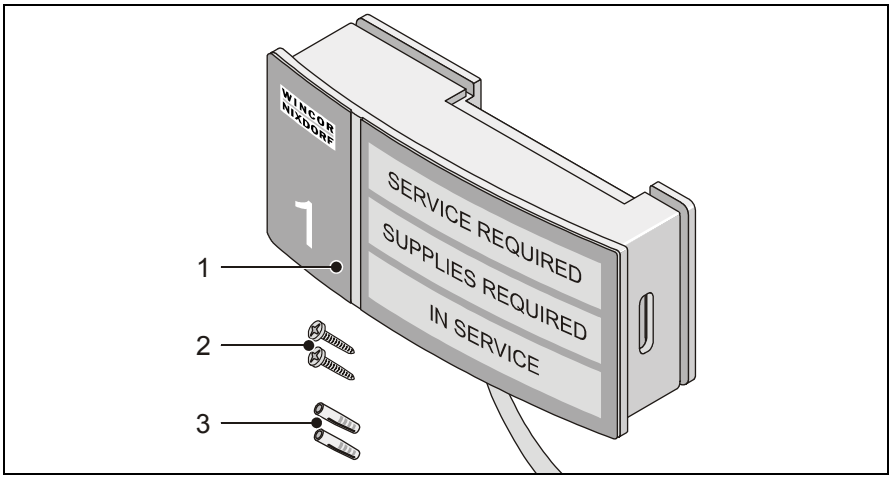


Reinstall the housing cover on the left (1) and press it against the UPS on the right until it locks into position.

Installing the Remote Status Indicator

Remote status indicator - standard

Delivery package

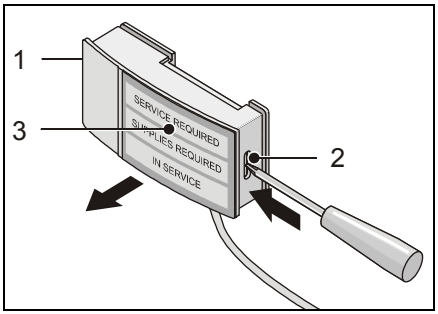


Pos.	Item	Quantity required
1	Remote Status Indicator - Standard (01750047663) with 50 m (164.1 ft) connecting cable (dimensions: 101.2 x 45.7 x 27 mm (3.98" x 1.8" x 1.06") (W x H x D))	1
2	Phillips screws SPAX 2.5 x 20 mm (0.098" x 0.787") (countersunk head)	2
3	Fixings Ø 4 mm (0.16")	2

i The enclosed mounting material is used to secure the indicator to masonry or wooden paneling.

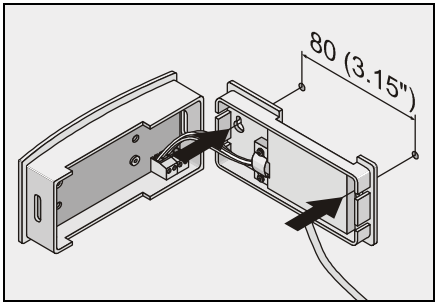
Installation

- Remove the standard remote status indicator from the packaging.



Use a screwdriver to press carefully through openings (1) and (2) until the tabs behind them disengage.

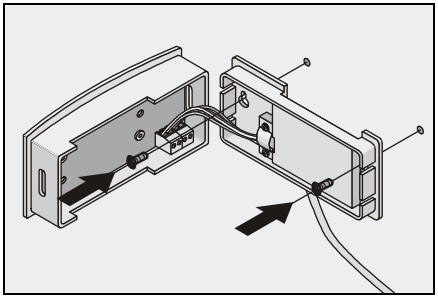
Remove the front cover (3) forwards.



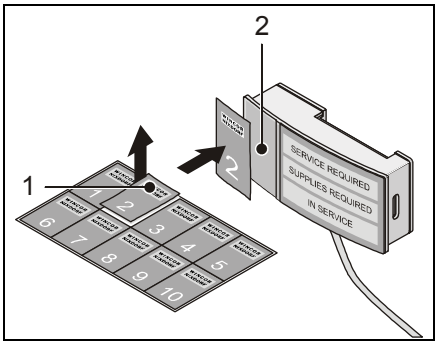
When drilling the mounting holes, take note of the constructional situation (energy, media line, etc.).

Position the lower section and mark the points where it is to be secured.

- **In masonry only:**
  Drill the necessary bores: drill depth: 20 mm (0.79"), drill diameter: 4 mm (0.16"), and insert the enclosed fixings in the holes.



Secure the lower section to the wall with the enclosed screws and press the front cover onto the lower section.



i An adhesive label with the number 1 is applied in the factory.

Remove the required label (1) and apply it to the space provided (2) on the standard remote status indicator.

- Lay the connecting cable of the standard remote status indicator to the appropriate device.

Connection to the relay panel for external features

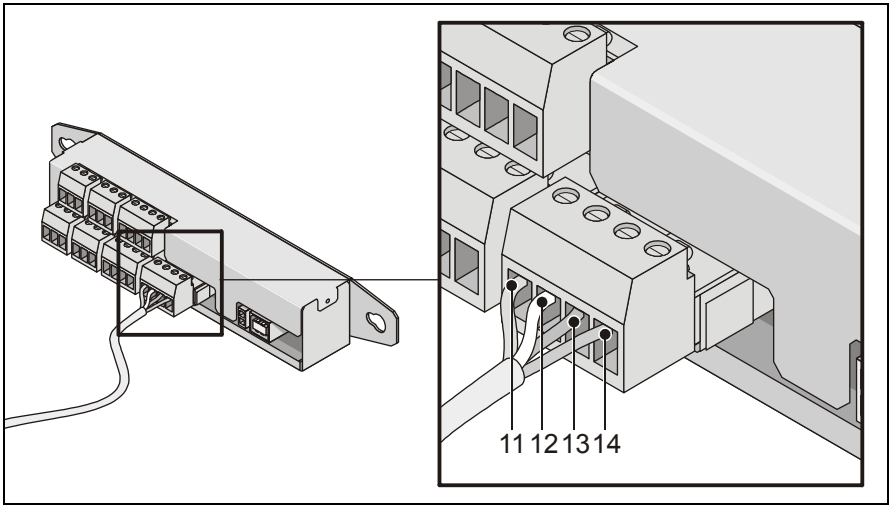
- Open the device (see the device's operating manual).
- Route the connecting cable through the cable feed openings or the lead-ins into the device (see the section for the appropriate installation version in the chapter "Installation").
- Lay the connecting cable in the device to the relay panel for external features so that it cannot be damaged when components are pulled out.
- Shorten the connecting cable if so required to the appropriate length (see section "Shortening the cable ends").

Marking on wires

i The wires are marked with an adhesive label at the end as follows:

RED	- 11 RED LIGHT
WHITE	- 12 YELLOW LIGHT
GREEN	- 13 GREEN LIGHT
BLACK	- 14 GND

- Connect the individual wires to the relay panel for external features as follows:

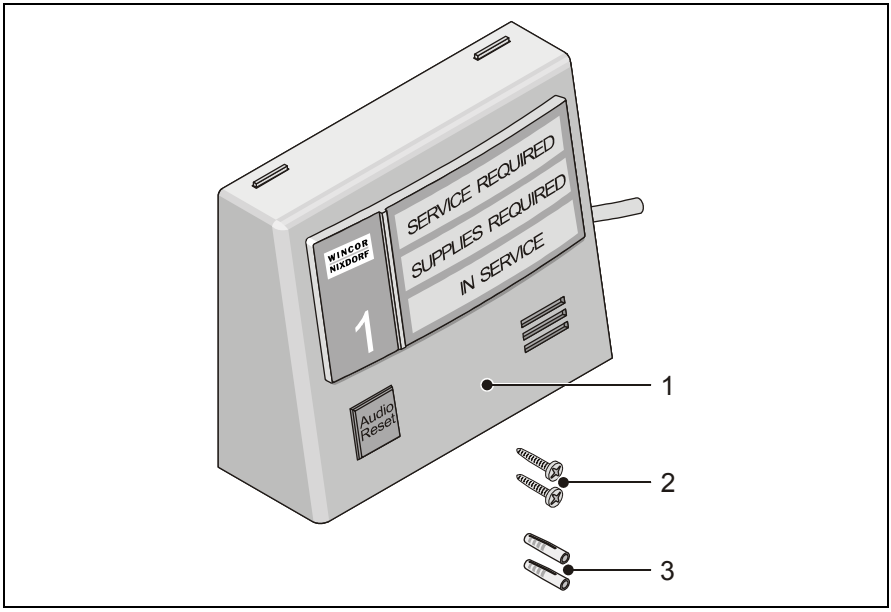


Pin	Name
11	Wire 'RED - 11 RED LIGHT'
12	Wire 'WHITE - 12 YELLOW LIGHT'
13	Wire 'GREEN - 13 GREEN LIGHT'
14	Wire 'BLACK - 14 GND'

- Close the device.

Remote status indicator - audio

Delivery package

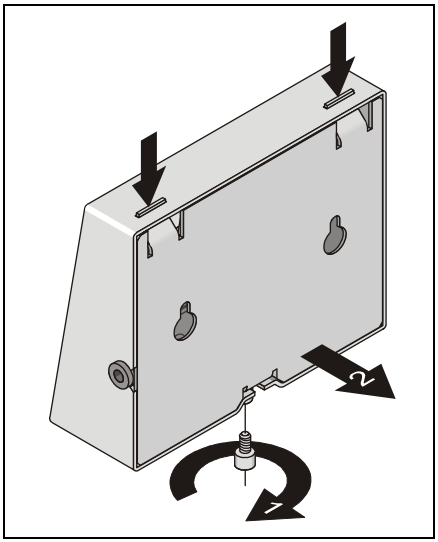


Pos.	Item	Quantity required
1	Remote Status Indicator - Audio (01750069332) with 50 m (164.1 ft) connecting cable (dimensions: 118 x 96.5 x 40.5 mm (4.65" x 3.8" x 1.59") (W x H x D))	1
2	Phillips screws SPAX 4 x 40 mm (0.157" x 1.575") (half-round screws)	2
3	Fixings Ø 6 mm (0.24")	2

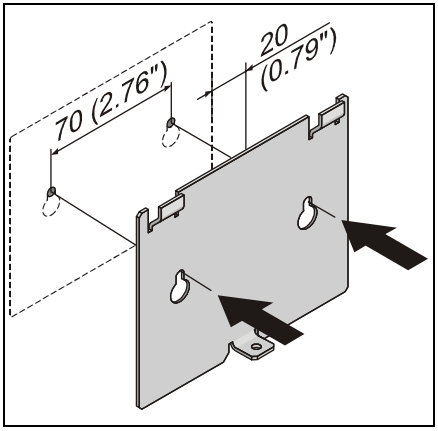
i The enclosed mounting material is used to secure the indicator to masonry or wooden paneling.

Installation

- Remove the audio remote status indicator from the packaging.



Loosen screw (1). Move the back panel (2) to one side at the bottom and pull the panel downwards out of the front cover.

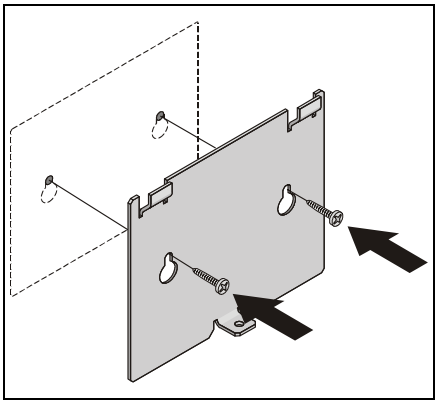


When drilling the mounting holes, take note of the constructional situation (energy, media line, etc.).

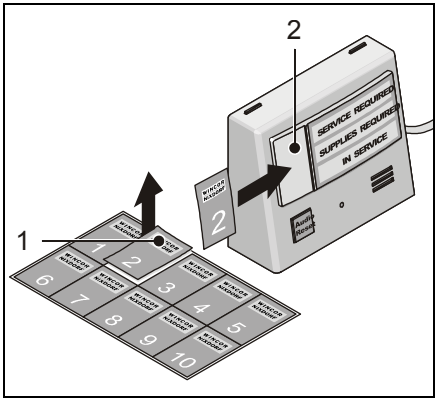
Position the back panel and mark the points where it is to be secured.

Allow sufficient space to install the connecting cable on the right (approx. 20 mm (0.79")).

- **In masonry only:**
  Drill the necessary bores: drill depth: 40 mm (1.57"), drill diameter: 6 mm (0.24"), and insert the enclosed fixings in the holes.



Secure the lower part to the wall with the screws supplied and mount the front cover on the back panel as described above under removal.



An adhesive label with the number 1 is applied in the factory.

Remove the required label (1) and apply it to the space provided (2) on the audio remote status indicator.

- Lay the connecting cable of the audio Remote Status Indicator to the appropriate device.

Connection to the relay panel for external features

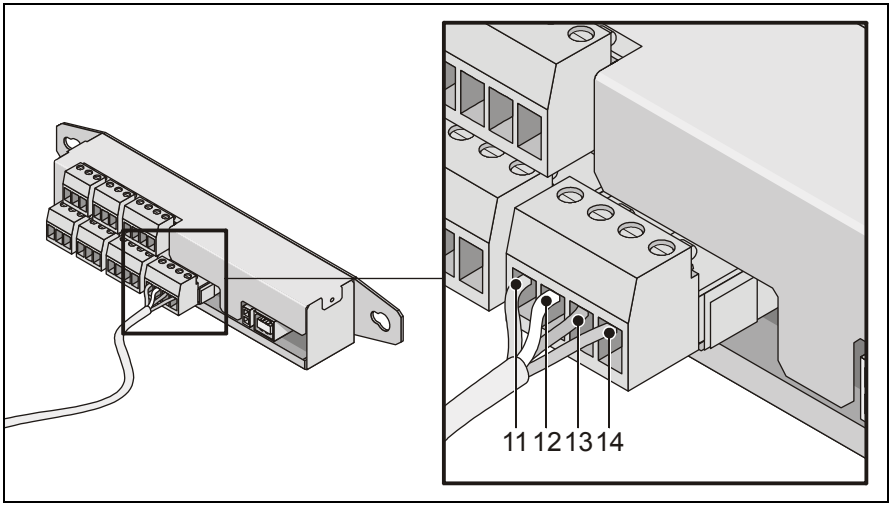
- Open the device (see the device's operating manual).
- Route the connecting cable through the cable feed openings or the lead-ins into the device (see the section for the appropriate installation version in the chapter "Installation").
- Lay the connecting cable in the device so that it cannot be damaged when components are pulled out.
- Shorten the connecting cable if so required to the appropriate length (see section "Shortening the cable ends").

Marking on wires

i The wires are marked with an adhesive label at the end as follows:

RED	- 11 RED LIGHT
WHITE	- 12 YELLOW LIGHT
GREEN	- 13 GREEN LIGHT
BLACK	- 14 GND

- Connect the individual wires to the relay panel for external features as follows:



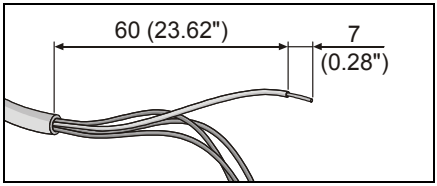
Pin	Name
11	Wire 'RED - 11 RED LIGHT'
12	Wire 'WHITE - 12 YELLOW LIGHT'
13	Wire 'GREEN - 13 GREEN LIGHT'
14	Wire 'BLACK - 14 GND'

- Close the device.

Shortening the cables

Adapting the cable length at the relay panel end

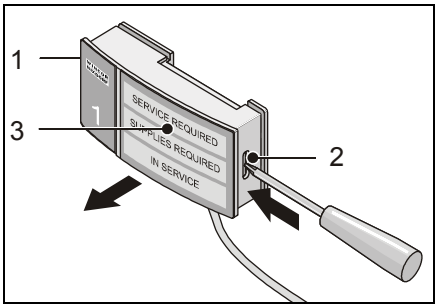
- Shorten the cable end as shown in the following diagram.



You must strip 60 mm (2.36") of the cable insulation and 7 mm (0.28") of the individual wire insulation. The individual wire ends must be twisted.

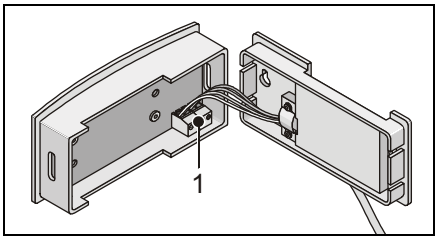
- Connect the cable as described in the section "Installation".

Adapting the cable length at the standard remote status indicator end

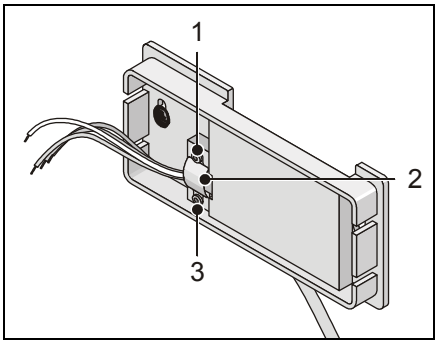


Use a screwdriver to press carefully through openings (1) and (2) until the tabs behind them disengage.

Remove the front cover (3) forwards.



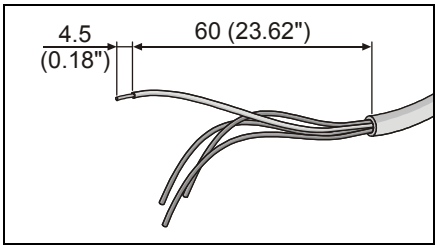
Release the four terminals of the terminal strip (1) and remove the front cover.



Remove screws (1) and (3) and the strain relief (2).

Remove the connecting cable.

- Shorten the connecting cable to the desired length.
- Shorten the cable end as shown in the following diagram.



You must strip 60 mm (2.36") of the cable insulation and 4.5 mm (0.18") of the individual wire insulation. The individual wire ends must be twisted.

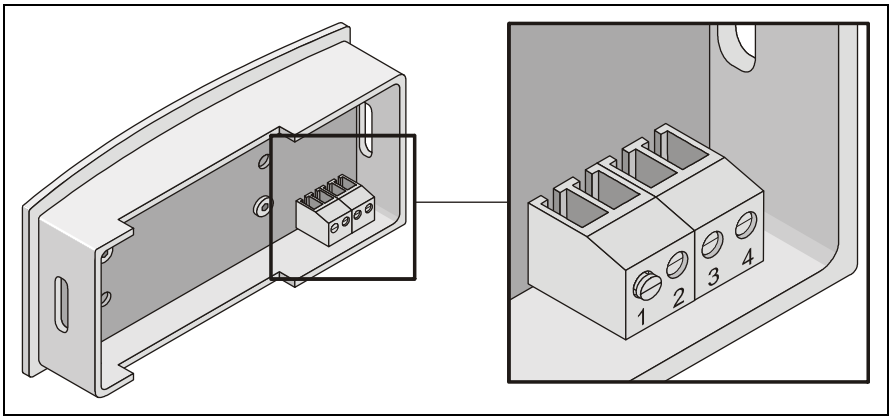
- Lead the connecting cable through the opening in the lower section and secure it with the strain relief.

Marking on wires

i The wires are marked with an adhesive label at the end as follows:

RED	- RED LIGHT
WHITE	- YELLOW LIGHT
GREEN	- GREEN LIGHT
BLACK	- GND

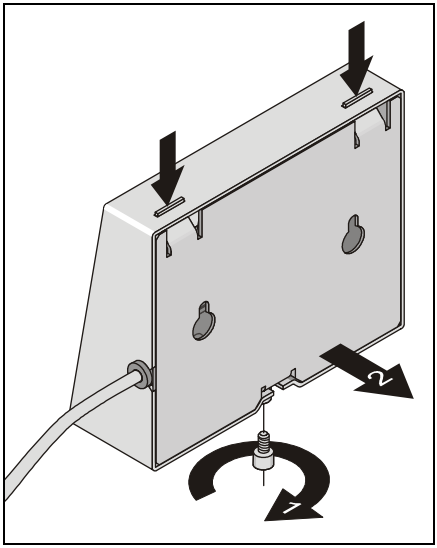
- Connect the individual wires as follows:



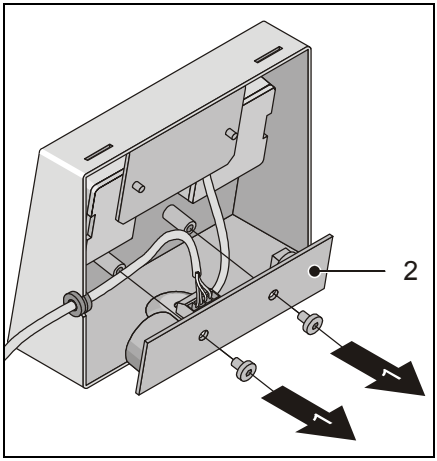
Pin	Name
1	Wire 'RED - RED LIGHT'
2	Wire 'WHITE - YELLOW LIGHT'
3	Wire 'GREEN - GREEN LIGHT'
4	Wire 'BLACK - GND'

- Press the front cover onto the lower section. Ensure that no wires are damaged in the process.

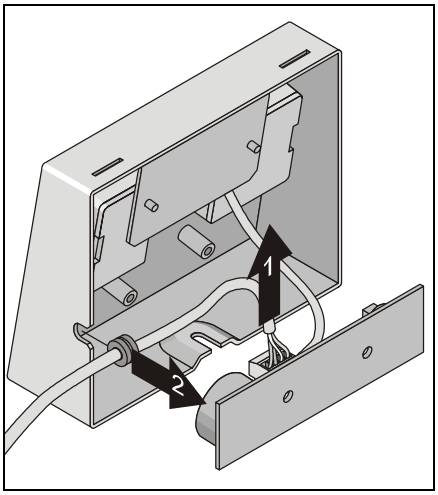
Adapting the cable length at the remote status indicator (audio)



Loosen screw (1). Move the back panel (2) to one side at the bottom and pull the panel downwards out of the front cover.

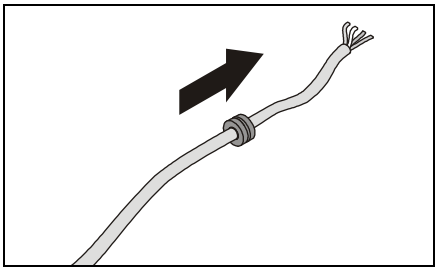


Remove the two screws (1) and move the board (2) to one side.



Release the four terminals of the terminal strip and disconnect the cable from the terminal strip (1).

Remove the connecting cable with the spacer from cable guide (2).

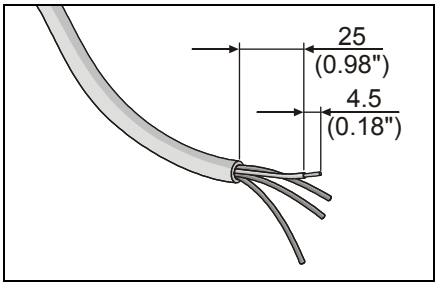


Remove the spacer from the connecting cable (see arrow).

Shorten the connecting cable to the desired length.

Push the spacer back on the cable.

- Shorten the cable end as shown in the following diagram.



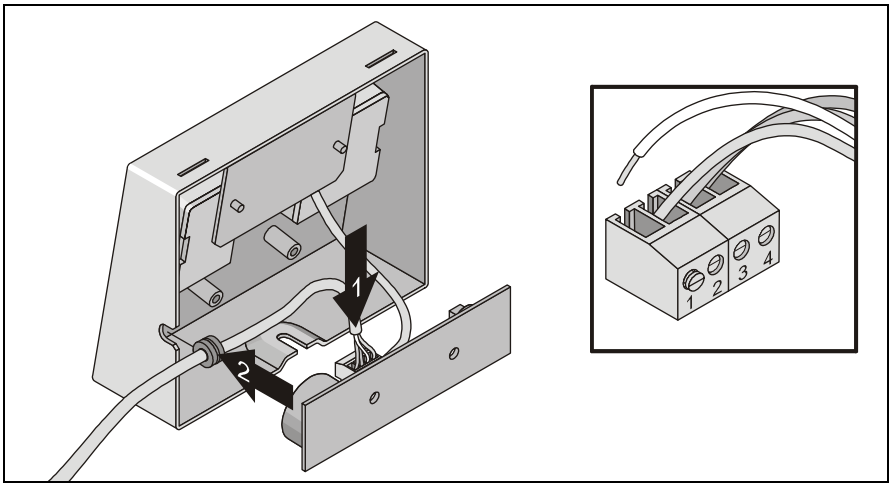
You must strip approx. 25 mm (0.98") of the cable insulation and 4.5 mm (0.18") of the individual wire insulation. The individual wire ends must be twisted.

Marking on wires

i The wires are marked with an adhesive label at the end as follows:

RED	- RED LIGHT
WHITE	- YELLOW LIGHT
GREEN	- GREEN LIGHT
BLACK	- GND

- Connect the individual wires as follows (1):



Pin	Name
1	Wire 'RED - RED LIGHT'
2	Wire 'WHITE - YELLOW LIGHT'
3	Wire 'GREEN - GREEN LIGHT'
4	Wire 'BLACK - GND'

- Press the connecting cable with the spacer into the cable guide (2).
- Mount the board and the back panel as described above under removal.

Appendix

Check list for installation preparations for self-service systems

KS number *	Order number
Device type	
Customer address	**Delivery address/location**
Name	
Street	
Town	
Telephone	
Contact	

* Customer number or system's serial number

This check list has been created for all self-service systems. Most questions can be answered yes or no. Some empty space is provided in the section "Notes concerning installation preparation" for your convenience if you want to note any questions or drafts.

After checking off all items, copy this list, send it to your head of operations and make arrangements for an installation date.

Name:

Telephone number:

Fax number:

General information

Installation

☐ in front of a wall ☐ through a wall ☐ free-standing ☐ encased

	yes	no	OK
Is the load carrying capacity of the floor sufficient according to the installation documentation?			
Is there floor heating in the installation area?			
Are there cavities in the installation area (cable duct, raised floor)?			
Is the operation and maintenance space sufficient?			
Is the equipment screened from external light (sunlight)?			
Is a video surveillance system to be installed?			
Is a door opener system to be installed?			

Preparations

Construction work

	yes	no	OK
Is the securing of cash-dispensers in the raw concrete ensured (CEN standard)?			
Is the frame aligned and fastened in accordance with the installation instructions?			
Has a wall cutout that may be required been completed?			
Are the ambient conditions met?			

Power and data cables

	yes	no	OK
Are the AC power outlets available in accordance with the installation instructions?			
Are the data cables available?			
Is the alarm connection prepared?			
Have the camera connection and the door opener been provided?			

Organizational preparations

	yes	no	OK
Is the generation prepared on the host?			
Has the MM module or CIM06 been ordered and is it available?			
Have the encryption/decryption or EPP keys been prepared?			
Is the paper and money ready for start-up?			
Have you discussed the diameter of the hole that is to be drilled and the fixing to be used for the tear-off sensor with the local alarm provider?			
Diameter?	_____		
Fixing to be used?	_____		

Delivery and installation

	yes	no	OK
Can a truck drive up to the installation location?	☐	☐	☐
Are there steps or obstacles in front of the building?	☐	☐	☐
If so, how many?	_____		
Are there steps or obstacles inside the building?	☐	☐	☐
If so, how many?	_____		
Are there mats or grates at the entrance?	☐	☐	☐

Flooring materials on the path of transport

(please check off)

☐ Screed/concrete ☐ Carpet ☐ Raised floor

☐ Marble floor ☐ Tiles ☐ Others

Please enter the width of the most narrow door _____ ☐

Please enter the width of the most narrow hallway _____ ☐

Checked by customer: Checked by installation technician:

Notes concerning installation preparation

Technical data

General installation conditions

Electrical characteristics of the supply network

Line voltage range:	110 - 120 V	220 - 240 V
Rated frequency:	50/60 Hz	50/60 Hz
Network type:	TN (network with PE conductor)	TN (network with PE conductor)
Permissible tolerance for rated voltage:	-10 % to +6%	-10 % to +6%
Permissible tolerance for rated frequency:	±1 %	±1 %

Device conditions with 4-cassette/5-cassette RM3

	110 - 120 V		220 - 240 V	
	Idle mode	**Operation (maximum)**	**Idle mode**	**Operation (maximum)**
without UPS				
Nominal current consumption:	2.3 A	7 A	1.2 A	3.2 A
Apparent power input:	230 VA	670 VA	260 VA	670 VA
Real power:	220 W	630 W	210 W	610 W
Power factor:	0.96	0.98	0.79	0.92
Leakage current:	<3.5 mA	<3.5 mA	<3.5 mA	<3.5 mA
with UPS				
Nominal current consumption:	2.9 A	7.6 A	1.6 A	3.6 A
Apparent power input:	300 VA	740 VA	330 VA	740 VA
Real power:	280 W	690 W	270 W	670 W
Power factor:		0.76		0.84
Leakage current:	<3.5 mA	<3.5 mA	<3.5 mA	<3.5 mA

Protection class:	I	I
Type of system connection (wall outlet)*:	Country-specific protective contact plug or CEE plug pursuant to IEC 60309	Country-specific protective contact plug or CEE plug pursuant to IEC 60309
Fuse	Protection against melting 10 A inert or circuit breaker 16 A	Protection against melting 10 A inert or circuit breaker 16 A
Degree of protection in acc. with EN 60529:	IP20	IP20

* If a UPS is used and generally if the device is delivered with sidecar, the CINEO C4080 must be connected with a CEE plug only.

Installations specifications with 4-cassette RM3

CINEO C4080	**Frontload**	**Rearload**
Dimensions:		
Height:	1556 mm (61.26")	1556 mm (61.26")
Width:	790 mm (31.1")	790 mm (31.1")
Depth:	1022 mm (40.24")	1022 mm (40.24")
Operation and maintenance space:	2.3 m² (24.76 ft²)	5.7 m² (61.35 ft²)
Weight *:		
UL safe:		
Device weight:	999 kg (2202.5 lb)	999 kg (2202.5 lb)
Surface load:	14.3 kN/m² (2.1 lbf/in²)	14.3 kN/m² (2.1 lbf/in²)
CEN L4 safe:		
Device weight:	1129 kg (2489 lb)	1129 kg (2489 lb)
Surface load:	16,2 kN/m² (2.4 lbf/in²)	16,2 kN/m² (2.4 lbf/in²)
CEN III safe:		
Device weight:	1199 kg (2643.4 lb)	1199 kg (2643.4 lb)
Surface load:	17,2 kN/m² (2.5 lbf/in²)	17,2 kN/m² (2.5 lbf/in²)
CEN IV safe:		
Device weight:	1229 kg (2709.5 lb)	1229 kg (2709.5 lb)
Surface load:	17,6 kN/m² (2.6 lbf/in²)	17,6 kN/m² (2.6 lbf/in²)

* Weight figures refer to the empty weight of the device and the free-standing installation type.

i Detailed information regarding the dimensions can be found in the "Installation Planning" chapter, under "Machine dimensions".

Installations specifications with 5-cassette RM3

CINEO C4080	**Frontload**	**Rearload**
Dimensions:		
Height:	1696 mm (66.77")	1696 mm (66.77")
Width:	790 mm (31.1")	790 mm (31.1")
Depth:	1022 mm (40.24")	1022 mm (40.24")
Operation and maintenance space:	2.3 m² (24.76 ft²)	5.7 m² (61.35 ft²)
Weight *:		
UL safe:		
Device weight:	1066 kg (2350.2 lb)	1066 kg (2350.2 lb)
Surface load:	15,2 kN/m² (2.2 lbf/in²)	15,2 kN/m² (2.2 lbf/in²)
CEN L4 safe:		
Device weight:	1189 kg (2621.3 lb)	1189 kg (2621.3 lb)
Surface load:	16,97 kN/m² (2.5 lbf/in²)	16,97 kN/m² (2.5 lbf/in²)
CEN III safe:		
Device weight:	1309 kg (2885.9 lb)	1309 kg (2885.9 lb)
Surface load:	18,7 kN/m² (2.8 lbf/in²)	18,7 kN/m² (2.8 lbf/in²)
CEN III Gas safe:		
Device weight:		1409 kg (3106.3 lb)
Surface load:		20,2 kN/m² (3 lbf/in²)
CEN IV safe:		
Device weight:	1339 kg (2952 lb)	1339 kg (2952 lb)
Surface load:	19,2 kN/m² (2.8 lbf/in²)	19,2 kN/m² (2.8 lbf/in²)

* Weight figures refer to the empty weight of the device and the free-standing installation type.

i Detailed information regarding the dimensions can be found in the "Installation Planning" chapter, under "Machine dimensions".

Environmental conditions

i This product is designed for use in a Pollution Degree 2 environment.

Max. ventilation capacity *: 184 m³/h (6497 ft³/h)

Heat emission: 265 W (905 BTU/hour)

* dependent on temperature

Climatic environmental conditions pursuant to EN 60721

	Air temperature °C (°F)	**Relative humidity % r.h.**
Operation (indoors):	+5 to +40 (41 to 104)	5 to 85
Transport:	-25 to +60 (-13 to 140)	15 to 98
Storage:	+5 to +40 (41 to 140)	15 to 98

Mechanical environmental conditions pursuant to EN 60721

	Class	**Comments**
Operation	3M2	Building without significant vibrations caused by other objects
Transport (in original packaging)	2M2	All types of commercial vehicles and trailers as well as rail and air transport
Storage (in original packaging)	1M3	Noticeable vibration and shocks, e.g. by machines or passing vehicles

Noise emission in acc. with EN 27779

	Idle mode	Operation *
Workplace-based sound pressure controls LpAm (at neighbouring workplace)	35 dB	53 dB

* typical operating cycle

i Noise emissions should be taken into account when selecting the installation location.

Fans or the noise volume associated with a transaction can be perceived as disruptive when standing directly near the device; these noises may have to be reduced through sound protection measures (e.g. sound protection walls etc.).

They must comply with the environmental conditions that apply to the specific device (see above) and the maintenance areas (see chapter "Planning the Installation", section "Space required for operation and maintenance").

Compliance with standards and certifications

Standards met

Safety standards:	IEC 60950, EN 60950, CSA C22.2-60950, UL 60950
EMC standards:	EN 55022 / B, EN 55024, FCC CFR 47, part 15, subpart B, class A, ICES-003 (CSA 108.8)

Conformity

The CE mark of conformity attached to the product or its package indicates that the product complies with the requirements of the following EC directives:

- EMC Directive 2004/108/EC
- Low Voltage Directive 2006/95/EC
- RoHS Directive 2011/65/EC

The corresponding statement of compliance has been issued by:

WINCOR NIXDORF International GmbH
Heinz-Nixdorf-Ring 1

33106 Paderborn

Germany

Notes concerning radio interference suppression and electrical safety

All other devices connected to this product must comply with the EMC Directive 89/336/EEC including amending directive 93/68/EEC (as of

7/20/2009 EMC Directive 2004/108/EC) and the Low Voltage Directive 73/23/EEC including amending directive 93/68/EEC (as of 1/16/2007 Low Voltage Directive 2006/95/EC).

Certification for data transmission

The certification number or CE mark of the data transmission module (if available) is attached to the DT card or to the housing of the system unit.

FCC rules and Canadian Standard ICES - 003

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules and Canadian Standard ICES - 003. These limits are designed to provide reasonable protection against harmful interference when the equipment is operating in a commercial environment. The equipment generates, uses and can radiate high frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

UL 291, Level 1 (security Container)

In order to meet guideline UL 291, ensure the following during installation:

- The unit must be connected to a grounded receptacle.
- For a free-standing installation the security container of the ATM shall be anchored in accordance with this instruction, either using the listed anchoring devices or using similar devices. Each anchoring device shall withstand a 22,000 pound (97,861 N) vertical or horizontal force applied in an attempt to remove the security container from its location.

If the free-standing installation is inside a building and the anchoring devices cannot be secured to the building structure, the unit shall be attached to a steel plate at least 4 feet by 8 feet by ½ inch thick (1.22 m by 2.44 m by

12.7 mm thick) or an equivalent structure so as to restrict the removal of the teller machine from the building. The release mechanism of the attachment devices shall only be accessible when the door of the security container is open.

Environmental protection

Environmentally and recycling-friendly product development

This product has been designed according to our corporate guideline 'Environmentally and recycling-friendly product development'.

This means that crucial criteria such as long life, choice of material and its labeling, emissions, packaging, ease of disassembly and recyclability have been taken into account. This saves resources and relieves the strain on the environment.

Saving energy

Please switch on devices that need not be constantly running only when they are actually needed. They should also be turned off when they are not needed for longer periods of time.

Disposing of used consumables

Please dispose of printer consumables, batteries and cleaning and maintenance materials according to national regulations (where relevant complying with vendor specifications).

Labels on plastic case parts

Please do not stick any labels on plastic case parts since that would make recycling more difficult.

Returning, recycling and disposing of used units and consumables

Details regarding the return and recycling of used units and consumables can be obtained from your local branch office.

Notes

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