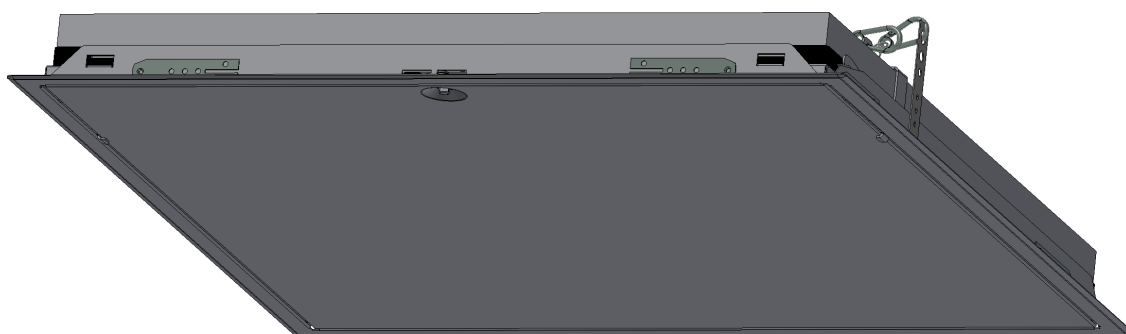


UPMANN



EN Assembly and usage instructions

Softline 60

- suspended ceiling construction

03.2023

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Assembly and usage instructions for the inspection covers:

- Softline 60 with square lock and swivel handles

Descriptions are identical for all models mentioned above. Differences are shown separately in the illustrations:

- Softline 60 with square lock and swivel handles
- DIN right/ DIN left installation must be mirror-inverted.
- Part of the product.
- Protected by copyright.
- Reproduction, reprinting and distribution only with permission.

Safety instructions

WARNING!

Notices with the word WARNING warn of a dangerous situation that can lead to death or serious injury.

CAUTION!

Notes with the word CAUTION warn against a situation that may result in minor or moderate injury.

ATTENTION!

Notes containing the word ATTENTION warn of a situation that may lead to damage to property or the environment.



Risk of crushing



Risk of falls



Risk of injury from sharp objects

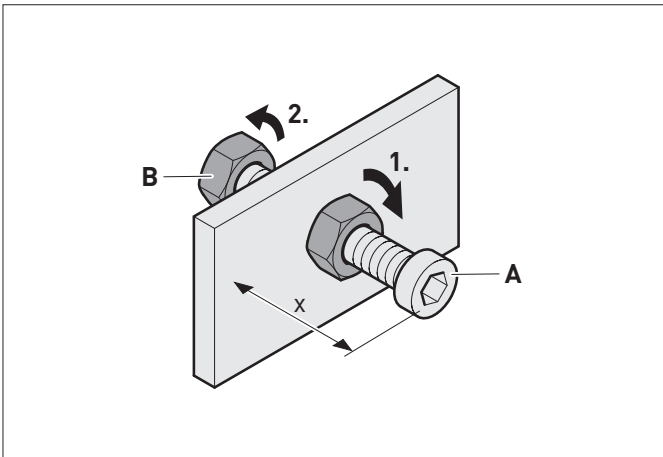


Risk of property damage

Explanation of symbols in text

- ▶ Call to action
- List
- ✓ Check
- 💡 Tip or recommendation
- ➔ Reference to other places in this document
- 📄 Reference to other sources to be considered

Explanation of symbols in images



- Highlighting the action parts with areas
- A** Part designations or dimensions
- x Dimensions in mm
- ↻ Movement and direction arrows
- 1.** Sequence of action steps

	Action step with number
	Correct
	Incorrect
	Optional
	Inform
	Check
	Clean
	Wait and see

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1. Safety information



Intended use

The inspection panel allows access to installations behind ceilings. In the event of fire, the closed inspection cover prevents the spread of fire.

The inspection cover is referred to as the unit in these installation and operating instructions.

Use of the unit is only permitted in the following cases:

- In technically perfect condition.
- After professional installation without impairing the statics and strength of the suspended ceiling.
- Taking into account the building inspection regulations for the suspended ceiling.
- At a normal ambient temperature from 0 C° to 60 C°.
- If the relative humidity of more than 80% is not exceeded permanently.
- The placement of several inspection cover must not impair the fire protection properties of the suspended ceiling.

Taking into account the specifications of the system manufacturer.

Intended use also includes reading and observing these instructions.

Any other use is considered improper use.

The manufacturer is not liable for damage caused by improper use.

Authorised target groups

Authorised target groups are divided into groups of people with different authorisations.

Manufacturer

The manufacturer and their authorised representatives have the following task:

- Delivery of the ready-to-install unit.

Building owner

The building owner is responsible for the construction or conversion of the building in which the unit is installed.

The building owner has the following task:

Submission of the declaration of conformity to the responsible building supervisory authority. (national requirements)

The building owner appoints a site supervisor who ensures:

- Fulfilment of the requirements for mounting.
- Briefing of the specialist staff.
- Compliance with building regulations and requirements.
- Provision and observance of these instructions.

Owner

The owner is responsible for the maintenance of the building in which the unit is installed.

The owner has the following tasks:

Ensuring that the unit is in a perfect condition.

- Compliance with cleaning and maintenance requirements.
- Instruction of the users.
- Provision and observance of these instructions.

Qualified personnel

Qualified personnel are responsible for assembly, commissioning, maintenance, dismantling and disposal.

Requirements for qualified personnel:

- Professional experience or training in drywall construction.
- Experience in assembly and maintenance of inspection covers.
- Instruction by the site manager.
- Experience in the use of electrical and mechanical tools.
- Knowledge of occupational safety regulations.
- Knowledge in reading technical drawings.
- Knowledge of these instructions.
- Documentation of the work carried out.
- Submission of the declaration of conformity and handover to the building owner.
- Provision and observance of these instructions.

User

Instructed users undertake work in use, cleaning and maintenance.

Requirements for instructed users:

- Instruction by the operator.
- Knowledge of these instructions.



General safety instructions

⚠ WARNING!

Danger due to non-observance of the instructions for use and assembly!

These instructions contain important information for the safe use of the unit. Special attention is drawn to potential hazards.

Failure to comply may result in death or serious injury.

- ▶ Read these instructions carefully.
- ▶ Follow the safety instructions in this manual.
- ▶ Keep the instructions accessible.

Use of the unit is prohibited in the following cases:

- Installation in non-approved ceilings.
- Outside.
- In damp rooms.
- With installations and conversions in suspended ceilings of the unit (e.g. lamps).
- With residues or residues of plaster, filler, paint, glue or other materials on the seals between the door and the frame.
- In the event of a series of inspection covers directly next to each other or on top of each other.

In the following cases, the manufacturer accepts no liability for damage:

- Failure to observe the assembly and operating instructions.
- Change in construction.
- Use in a non-described or approved area of application.

Depending on the activity, further safety instructions must be observed.

The safety instructions can be found in the corresponding chapter in this manual.

- ➔ **Safety instructions for ceiling mounting**
- ➔ **Safety instructions for use**
- ➔ **Safety instructions for cleaning**
- ➔ **Safety instructions for maintenance**
- ➔ **Safety instructions for disassembly**

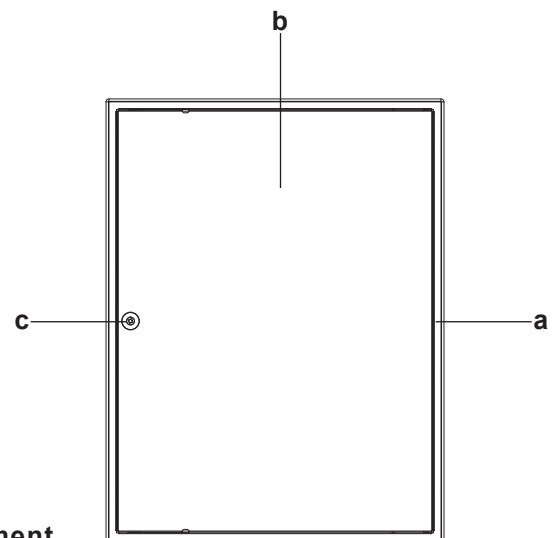
2. Product information



Operating principle

- Inspection openings in suspended ceilings are closed by the inspection cover.
- When closed, fire cannot penetrate the inspection cover according to the fire protection classification.

Product overview



Alignment



- a Locating side
- b Visible side
- c Cover side

Scope of delivery



- A Inspection cover
- B Square key
- C Assembly and usage instructions



Dimensions



IV

- h** Nominal height of the unit
h1 Installation height of the frame
h2 Height of the construction opening
 $\geq h2$ Height of the construction opening at least
 $\leq h2$ Height of the construction opening at most
h3 Unit height
h4 Height of the clear opening
h5 Door leaf height
- b** Nominal width of the unit
b1 Installation width of the frame
b2 Width of the construction opening
 $\geq b2$ Width of the construction opening at least
 $\leq b2$ Width of the construction opening at most
b3 Width of the unit
b4 Width of the clear opening
b5 Width of door leaf
- t1** Installation depth
t2 Structure

Installation variants

V

The unit is suitable for the following installation variants:

- B** Ceiling mounting in suspended ceilings

Marking/ Type plate

The type plate is located on the back of the door leaf with the following information:

- Type
- Manufacturer

Weight:

approx. 35 kg/ m²

h \ b	200 mm	250 mm	300 mm	350 mm	400 mm	450 mm	500 mm	550 mm	600 mm
200 mm	1	2	2	2	3	3	4	4	4
250 mm	2	2	3	3	4	4	4	4	5
300 mm	2	3	3	4	4	5	5	5	6
350 mm	2	3	4	4	5	6	6	6	7
400 mm	3	4	4	5	6	6	7	7	8
450 mm	3	4	5	6	6	7	8	8	9
500 mm	4	4	5	6	7	8	9	9	11
550 mm	4	5	6	7	8	9	10	10	12
600 mm	4	5	6	7	8	9	11	11	13
650 mm	5	6	7	8	9	10	11	11	14
700 mm	5	6	7	9	10	11	12	12	15
750 mm	5	7	8	9	11	12	13	13	16
800 mm	6	7	8	10	11	13	14	14	17

Figures in kg

h Unit height

b Unit width



1. Ceiling mounting



Safety instructions for ceiling mounting

WARNING!

Danger due to non-observance of the instructions for ceiling mounting!

Errors in the assembly of the unit can lead to serious injuries. This chapter contains important information for mounting the unit safely in a ceiling.

- ▶ Read this chapter carefully before assembly.
- ▶ Follow the safety instructions.
- ▶ Carry out the assembly as described.

The building owner is responsible for fulfilling the requirements for assembly.

⇒ **Building owner**

Assembly to be carried out only by qualified personnel.

⇒ **Specialist staff**

To avoid hazards, it is essential to comply with the following requirements:

- The unit must be undamaged and in perfect condition for installation.
- The unit must be installed by two persons from a dimension of 500 x 500 mm.
- During installation, the surrounding area must be secured against falling objects.
- The installation must be carried out properly and professionally according to the generally recognised rules of technology.
- During assembly, the rules of occupational health and safety must be observed.

Requirements for ceiling mounting

The building regulations for the ceiling system must be observed (e.g. in Germany the general test certificate abP issued by the building authorities).

The unit can be installed in the following constructions:

- Suspended ceiling with metal construction, height offset, one-sided load from bottom to top(a–b)!

Retrofitting

Retrofitting of the unit in already planked ceilings is only possible in the following cases:

- If the construction opening is not larger than the grid dimension of the metal substructure.

The following must be ensured when retrofitting the unit:

- The static requirements are restored according to the building situation (e.g. in Germany specified in the general building inspection test certificate abP).
- The grid and lattice dimensions stipulated in the building regulations must be observed (e.g. in Germany stipulated in the general building inspection test certificate abP).
- The grid and lattice dimensions of the standard ceiling must be observed.

Permissible materials

All materials used during installation must comply with the building regulations of the ceiling system (e.g. in Germany the general building inspection test certificate abP).

Fixing material

Suspended ceiling construction	Drywall screws: DIN EN 14566 ≥ Ø 3.5 x 25 mm
--------------------------------	--

Filler

Non-combustible filler EN 13501-1 (A2)



Requirements for the mounting ceiling

Suspended ceiling construction

- Planked on one side.
- Height-shifted.
- Load from bottom to top (a←b).

Measure above all	min. 85 mm
Ceiling construction	planking on one side without insulation GKF/ GKFI/ DF/ DFI/ EN520/ t ≥ 2 x 15 mm

When installing the unit in a ceiling, the maximum specified ceiling load must not be exceeded.

- 📄 Approval of the ceiling system by the building authorities (e.g. in Germany the general test certificate abP).

In the following cases, a suitable replacement or surround must be created:

- If the construction opening is larger than the grid dimension of the ceiling system.
- If the building code approval of the ceiling system prescribes the creation of a replacement.
- If structural calculations in the individual installation situation require the creation of a replacement.

Suitable for making the replacement or border:

- CD profiles

Mounting preparation

1

- ▶ Familiarise yourself with the unit, the installation situation and the associated documents:
 - Assembly and usage instructions.
 - Building regulations of the ceiling system.
 - Mounting ceiling.

2

- ▶ Assemble the tools you need:
 - A** Spatula (wide)
 - B** Spatula (narrow)
 - C** at least 2 x screw clamps or spring clamps
 - D** Pen
 - E** Spirit level
 - F** Measuring tool (e.g. tape measure)
 - G** Tools for creating the construction opening (e.g. hammer drill, saw, angle grinder)
 - H** Cordless screwdriver with PH2 bit
- ▶ Put together the material you need:
 - Fixing material
 - Permissible filler
 - ➔ **Permitted materials**

3

- ▶ Assemble your personal protective equipment:
 - A** Ear protection
 - B** Safety goggles
 - C** Mouthguard
 - D** Work gloves
- ▶ Keep the installation site free of objects that could be damaged or destroyed during installation.



Unpacking the unit

4

- ▶ Check that the unit is complete.
 - ➔ **Scope of delivery**

Making the construction opening in ceiling systems

The construction opening (b2 x h2) must be created in such a way that the frame of the unit can be securely screwed to the metal suspended ceiling construction.

A frame or change of CD profiles must be created.

Installation of a replacement

The replacement must meet the following specifications:

- Requirements of the ceiling system manufacturer.
- Building regulations of the ceiling system.

5

Overview of the possible installation situations.

5A

If the construction opening is wider than the grid dimension of the ceiling system:

- ▶ Make a change according to the manufacturer's instructions for the suspended ceiling system. Clear dimension of CD profiles (changeable internal dimension) = frame external dimension (b3 x h3) + max. 10 mm (symmetrical).
- ▶ Screw the planking to the CD profiles from the visible side.
- ▶ If necessary, mount additional hangers centrally on the affected sides of the construction opening to the CD profiles of the ceiling construction.

5B

If the construction opening is the same size or narrower than the grid dimension of the ceiling system:

- ▶ Create a change with circumferential profiles.



Creating the construction opening

WARNING

Danger of falling during ceiling mounting!

Using ladders or steps while mounting the unit in a ceiling may cause falls. This may result in serious injuries.

- ▶ Ensure that the ladder or step is secure.
- ▶ Wear suitable footwear.
- ▶ Wear suitable personal protective equipment.

CAUTION

Danger of injury during ceiling mounting!

During ceiling mounting, falling parts can cause injuries or damage.

- ▶ Make sure that no parts can fall down during ceiling mounting.

6

- ▶ Determine the permissible dimensions of the construction opening.
➔ **Dimensions**

7

- ▶ Draw the construction opening (b2 x h2).
- ▶ Use a spirit level and tape measure to ensure the following:
 - The sides of the marked opening run parallel to each other.
 - The angles in the corners are 90°.
 - The diagonals are the same length.

8

CAUTION

Risk of injury from sharp-edged saw blade!

Contact with the saw blade can cause cuts or severance of body parts.

- ▶ Carefully create the construction opening.
- ▶ Wear suitable personal protective equipment.

- ▶ Make the construction opening with a suitable tool.

9

- ▶ Clean the construction opening.

Mounting additional hangers

10

Before mounting the unit, the load-bearing capacity of the ceiling construction must be increased by installing additional hangers if necessary.

Suspension requirements:

- Compressive stiffness.
- Bending stiffness.

The number of hangers (\perp) to be installed depends on the dimensions of the unit:

- 550 mm side length 1 additional hanger per side length (\perp ○).

The design and installation of the hangers must meet the following specifications:

- Requirements of the ceiling system manufacturer.
- Building regulations of the ceiling system.

11

- ▶ If necessary, mount additional hangers centrally on the affected sides of the construction opening to the CD profiles of the ceiling construction.



Preparing the unit

12

- ▶ Place the unit securely with the opening side facing upwards.

13

- ▶ Make sure that the unit is closed.

14

- ▶ Turn the unit to the opening side.

15

- ▶ Turn all wall anchors as follows:
 - at an angle of 90° to the frame edge.

16

- ▶ Apply the filler to the inside of the frame so that the building connection joint and the frame are completely filled.

NOTE

Non-approved or incorrectly processed filler may affect the fire resistance of the unit.

- ▶ Use only approved filler.
- ▶ Follow the manufacturer's instructions for use of the filler.

Mounting the unit in the ceiling

Positioning the unit

17

- ▶ Carefully insert the unit into the construction opening.
 - All wall anchors are at an angle of 90° aligned with the edge of the frame.
 - Pointing in the direction of the construction opening.
 - Open the lock with the square key.
 - Open the swivel handles.
 - Open the door leaf.
 - Unhook the snap hook from the eyelet on the back of the door leaf.

CAUTION

Risk of injury when inserting the frame!

Fingers can be crushed when positioning the unit.

Risk of injury when attaching the screw clamps or spring clamps!

Fingers can be pinched when attaching the screw clamps or spring clamps.

- ▶ Carefully insert the unit into the construction opening.

18

- ▶ Place the unit in the centre of the construction opening.

19

- ▶ Carefully attach the screw clamps or spring clamps.
-
- ▶ Secure the unit to the ceiling with two screw clamps or two spring clamps to prevent it from slipping.



Aligning the frame

20

- ▶ Make sure that all frame sides lie without gaps on the visible side of the ceiling planking.
- ▶ Screw down a wall anchor.
The rest will be screwed together in a later assembly step.

21

- ▶ Check that the following applies:
 - ✓ The frame sides are not bowed.
 - ✓ The distance between the diagonally opposite corners of the frame is identical ($a = b$).
 - ✓ The angles in each of the four corners of the frame are 90° .

22

If the points are met:

- ▶ Continue the assembly.
 - ➔ **Screwing the frame to the ceiling**

If the points are not met:

- ▶ Align the unit again.
 - ➔ Position the unit centrally.

Screwing the frame into the ceiling

23

- ▶ Screw the frame with drywall screws $\geq 3.5 \times 25$ through the wall anchors into the metal substructure.

24

- ▶ Loosen the screw clamps or spring clamps.

25

- ▶ Remove excess filler.

Checking the frame and door leaf

26

- ▶ Check that the following applies:
 - ✓ The door can be closed completely without resistance.
 - ✓ The lock and the swivel handles are easy to open and close.

27

If the points are met:

- ▶ Continue the assembly.
 - ➔ **Cleaning the frame**

If the points are not met:

- ▶ Align the unit again.
 - ➔ **Position the frame**

Cleaning the frame

28

- ▶ Remove any dirt on the frame thoroughly with a damp cloth.

Curing the construction connection joint

29

- ▶ Allow the filler to dry:
 - according to the manufacturer's specification.
 - If no information is available, for 24 hours.



Checking the door

30

- ▶ Check that the following applies:
 - ✓ The door can be closed completely without resistance.

If the points are met:

Continue the assembly:

- ➔ **Checking the lock**

31

If the points are not met:

- ▶ Repeat the following action steps
 - ➔ **Cleaning the frame**
 - ➔ **Checking the door**
- ▶ Check the door again.

Checking the lock

32

- ▶ Check that the following applies:
 - ✓ The lock can be opened and closed without any problems, the locking bolt does not block.
 - ✓ The swivel handles can be opened and closed.

33

If the points are not met:

- ▶ Carefully clean the recess for the locking bolt in the frame with a screwdriver.
- ▶ Check the function of the lock again.

Completing the ceiling mounting

34

- ▶ Open the door of the unit.
- ▶ Open the snap hook on the safety rope.
- ▶ Hook the snap hook into the eyelet on the back of the door leaf.

The safety rope prevents the unit from being accidentally opened too far.



2. Use



Safety instructions for use

WARNING!

Danger due to non-observance of the instructions for use!

Errors in the use of the unit can result in death or serious injury. This chapter contains important information for the safe use of the unit.

- ▶ Read this chapter carefully.
- ▶ Follow the safety instructions.
- ▶ Only use the unit as described here.

Use only by instructed users.

⇒ **User**

Proper fire protection is only guaranteed when the unit is closed.

- ▶ Only open the unit to carry out inspection work.
- ▶ Close the unit immediately after completing the inspection work.
- ▶ Lock the unit to prevent unauthorised opening.

Opening the unit

1^

- ▶ Open the lock with the square key.
- ▶ Open the swivel handles.
- ▶ Attention: The door leaf must not swing when opening.
- ▶ Do not hang on the door leaf when it is open.

Closing the unit

2^

- ▶ Close the door of the unit.
- ▶ Close the swivel handles.
- ▶ Lock the lock with the square key.

3. Cleaning



Safety instructions for cleaning

ATTENTION!

Risk of property damage due to improper cleaning!

Errors during cleaning can damage the unit. This chapter contains important information for cleaning the unit.

- ▶ Read this chapter carefully.
- ▶ Follow the safety instructions.
- ▶ Carry out the cleaning as described.

Clean only by instructed users.

⇒ **User**

The unit must not be cleaned with the following liquids:

- Running water.
- Dry cleaning agents.
- Thinner (e.g. acetone, nitro thinner, universal thinner).
- Alcohols.

Cleaning

- ▶ Open the unit.
- ▶ Clean all metal and plaster surfaces of the unit with a damp cloth.
- ▶ Close the unit.



6. Maintenance



Safety instructions for use

⚠ WARNING!

Danger due to non-observance of the maintenance instructions!

Errors in the maintenance of the unit can lead to serious injuries. This chapter contains important information for the safe maintenance of the unit.

- ▶ Read this chapter carefully.
- ▶ Follow the safety instructions.
- ▶ Carry out maintenance as described.

Maintenance and repair work may only be carried out by qualified personnel.

⇒ **Qualified personnel**

Troubleshooting measures are permissible by instructed users.

⇒ **User**

To avoid hazards, it is essential to comply with the following requirements:

Maintenance intervals

Maintenance of the unit must be carried out regularly and at least once a year.

Maintenance measures

- ▶ Check the following functions of the unit:
 - The door can be opened and closed without any problems.
 - The swivel handles can be closed.
 - The lock works.
 - The closed door seals completely.
- ▶ Check the following components of the unit for damage or soiling:
 - Insulating layer forming elements (e.g. loosened adhesions/fastenings)
 - Door leaf (e.g. severe damage such as breaks)

If there is damage or soiling:

- ▶ Clean dirty components.
- ▶ Replace damaged or destroyed components.
- ▶ Only use spare parts that comply with the regulations of the building authority approval.

Installation of spare parts only in accordance with these instructions.

Installation of spare parts only by qualified personnel

⇒ **Specialist staff**

Troubleshooting

Possible faults are described as follows:

What is the fault?

- Cause of the fault?
 - ▶ Remedy the fault.
 - ➔ Refer to the corresponding chapter.

The door leaf cannot be closed.

- The insulating layer forming elements have come loose.
 - ▶ Have the insulating layer forming elements replaced by qualified personnel.
- The insulating layer forming element on the frame is defective.
 - ▶ Have the insulating layer forming elements replaced by qualified personnel.
- The door leaf stops when closing.
 - ▶ Check the hinges.
 - ▶ If the hinges are bent, or have become loose, have the unit checked by qualified personnel renew.

The lock will not close.

- The recess for the locking latch in the frame is dirty.
 - ▶ Clean the recess carefully with a screwdriver.
- The lock is defective.
 - ▶ Check the function of the lock with the door leaf open.
- If the locking bolt does not move:
 - ▶ Have the unit replaced by qualified personnel.
- The swivel handles cannot be closed.
 - ▶ Check the position of the locking tabs.

If a fault cannot be rectified:

- ▶ Contact the manufacturer or a specialist company.



7. Disassembly



Safety instructions for disassembly

⚠ WARNING!

Danger due to non-observance of the disassembly instructions!

Errors during disassembly of the unit can lead to serious injuries. This chapter contains important information for the safe disassembly of the unit.

- ▶ Read this chapter carefully before disassembly.
- ▶ Follow the safety instructions.
- ▶ Carry out disassembly as described.

Disassembly only by qualified personnel.

⇒ **Qualified personnel**

Dismantle the unit

⚠ CAUTION!

Risk of injury when dismantling the unit!

Fingers can be crushed when loosening the unit.

Disassembly is carried out in reverse order to the installation of the unit.

8. Disposal



Disposal of the packaging

⚠ ATTENTION!

Danger of environmental damage due to improper proper disposal of the packaging!

- ▶ Do not put the packaging in normal domestic waste.
- ▶ Recycle the packaging in an environmentally and friendly manner.

The packaging is used to protect the product from damage during transport. The packaging materials are selected according to environmentally compatible aspects and are made of recyclable materials. The packaging materials can be returned to the raw material cycle after use.

- ▶ Dispose of the packaging in an environmentally friendly way separated according to materials.

Disposal of the unit

⚠ ATTENTION!

Danger of environmental damage due to improper proper disposal of the unit!

- ▶ Do not put the unit in normal domestic waste.
- ▶ Recycle the unit in an environmentally and friendly manner.
- ▶ Dispose of the unit in accordance with the legal requirements via a specialist disposal company or your municipal waste disposal facility.



9. Appendix



Accessories

- Assembly and usage instructions
- Square key

If required and for further information (e.g. brochures, spare parts, price lists):

- ▶ Contact the manufacturer or a specialist.
 - 📄 www.upmann.eu

Standards and regulations

Relevant regulations - without claim to completeness:

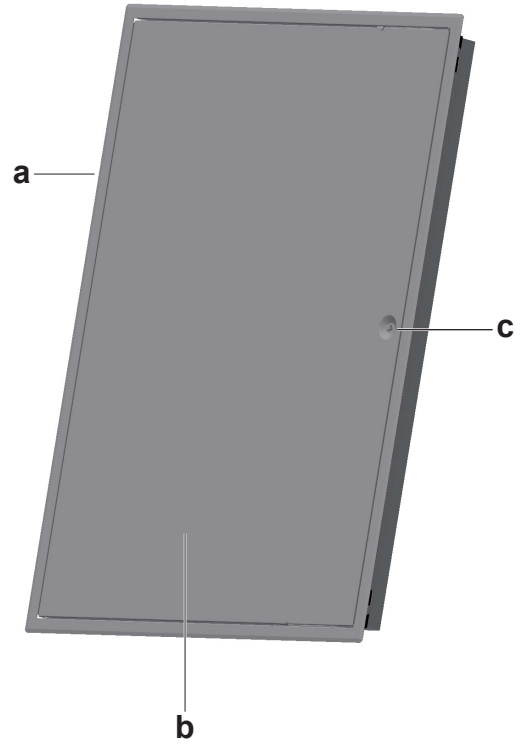
- Fire protection test standard EN 1634-1
- Classification standard EN 13501-1/-2
- Classification report



Product information

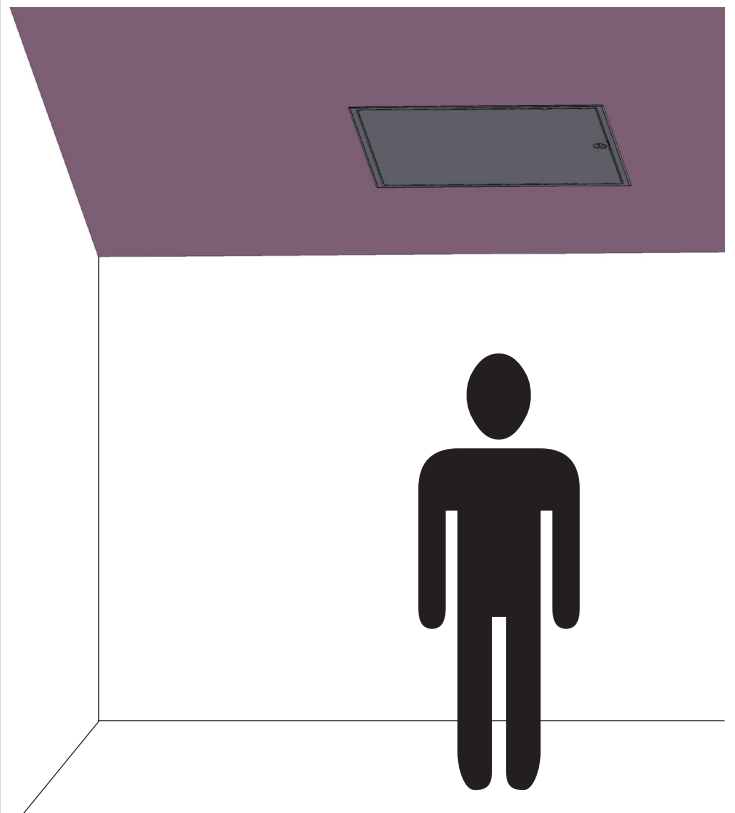
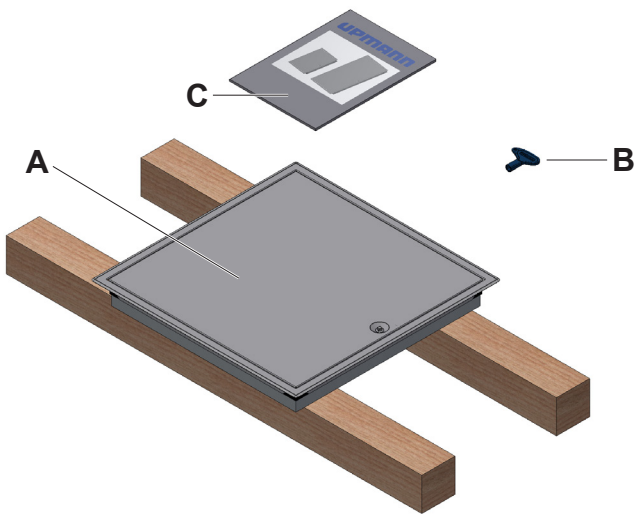
II

I

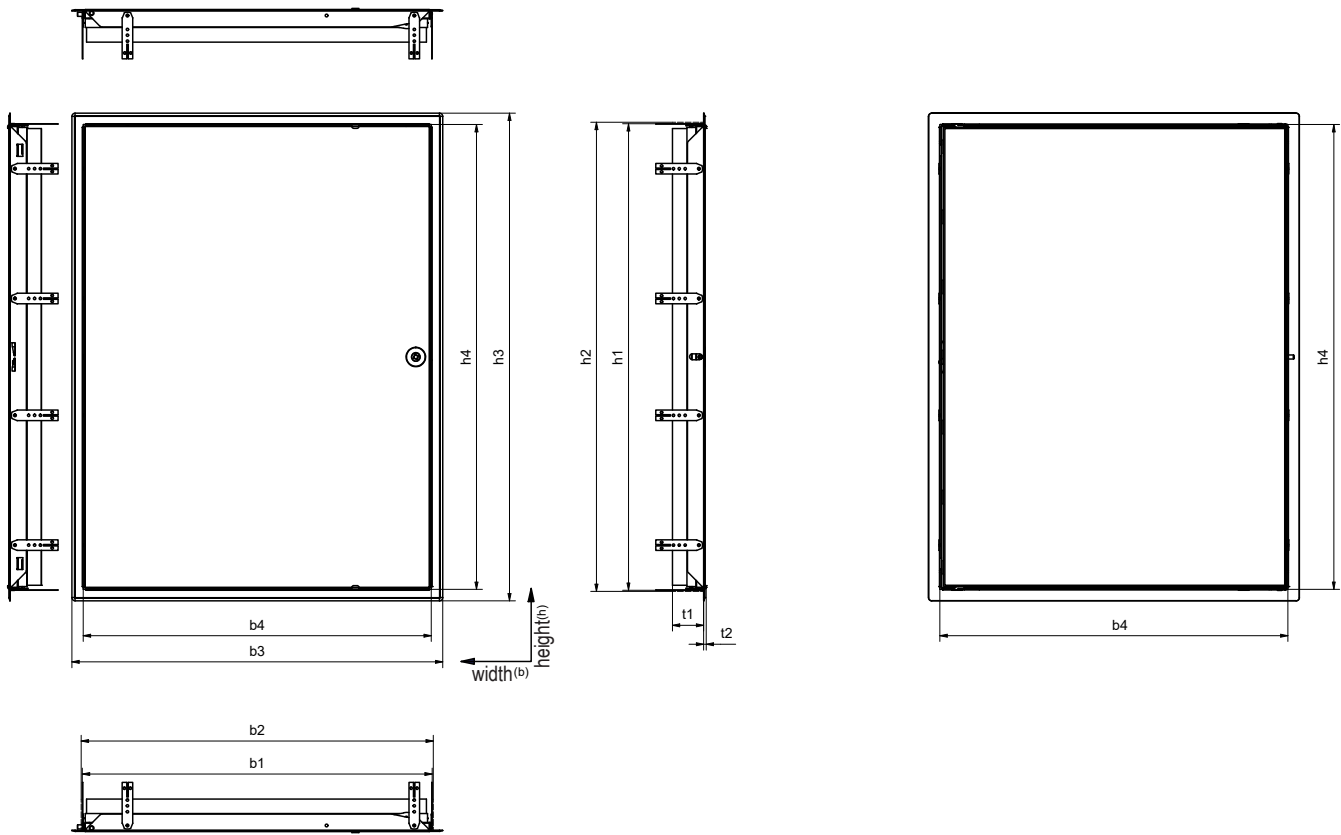


III

V



Nominal size (b x h): up to 600 x 800 mm with swivel handles

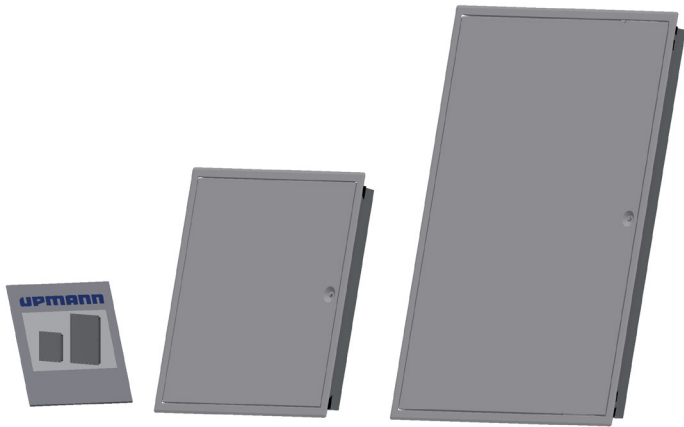


Nominal width (b)	Nominal height (h)	Installation dimension (b1)	Installation dimension (h1)	Construction opening dimension min. - max. (b2)	Construction opening dimension min. - max. (h2)	Frame outer dimension (b3)	Frame outer dimension (h3)	left opening dimension 120° open (b4)	left opening dimension (h4)	Installation depth (t1)	Body height (t2)
200	200	199	199	203 - 210	203 - 210	235	235	133	145	54	3
300	300	299	299	303 - 310	303 - 310	335	335	233	295	54	3
400	400	399	399	403 - 410	403 - 410	435	435	333	345	54	3
400	600	399	599	403 - 410	603 - 610	435	635	333	595	54	3
500	500	499	499	503 - 510	503 - 510	535	535	433	495	54	3
600	600	599	599	603 - 610	603 - 610	635	635	533	595	54	3
600	650	599	649	603 - 610	653 - 660	635	685	596	646	54	3
600	700	599	699	603 - 610	703 - 710	635	735	596	696	54	3
600	750	599	749	603 - 610	753 - 760	635	785	596	746	54	3
600	800	599	799	603 - 610	803 - 810	635	835	596	796	54	3

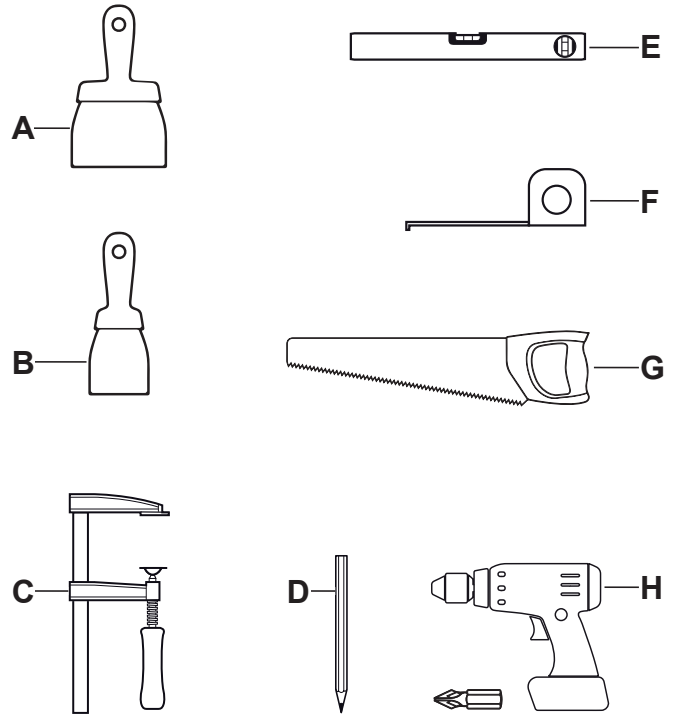


Ceiling mounting

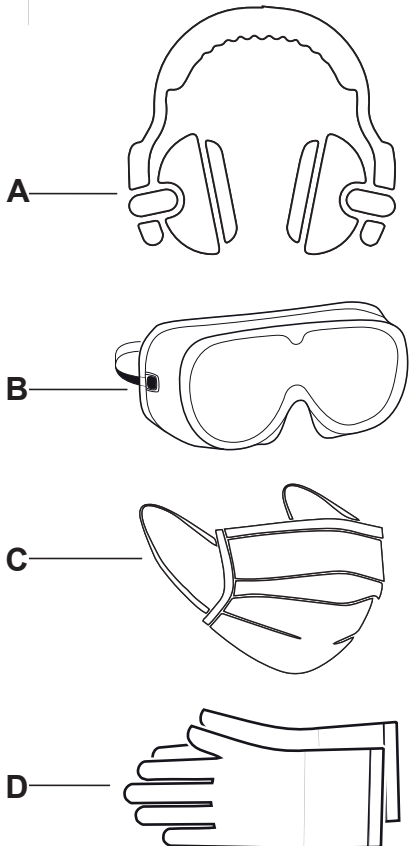
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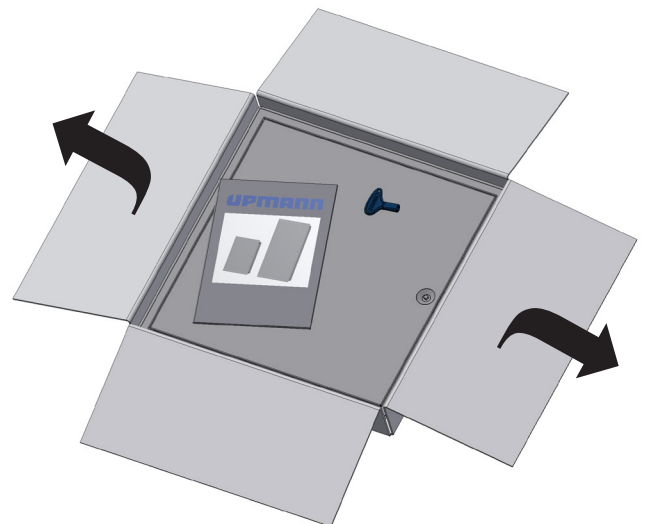
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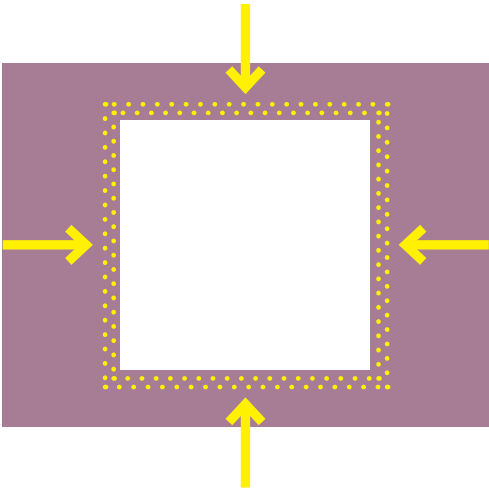
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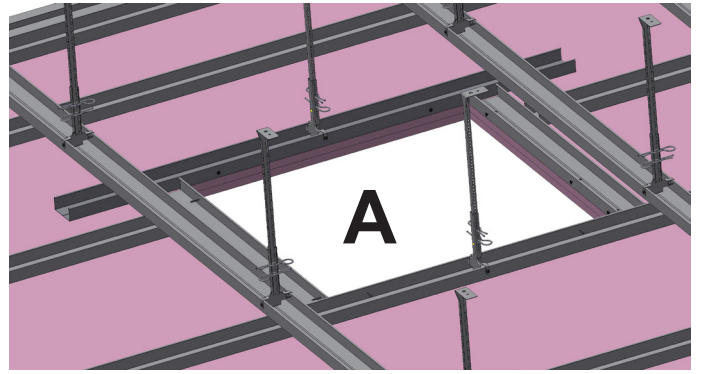
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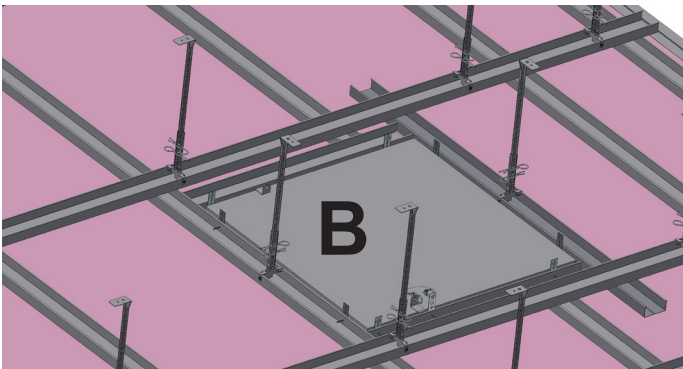
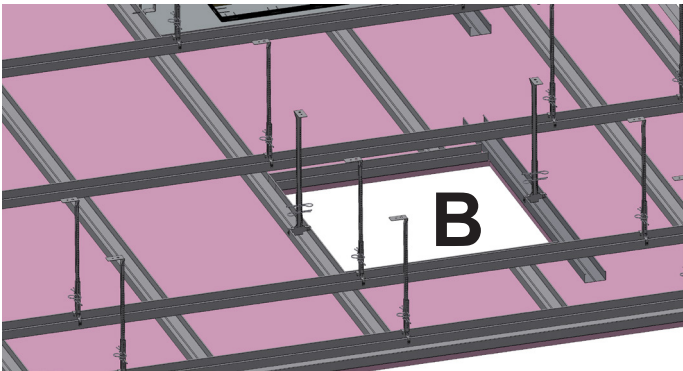
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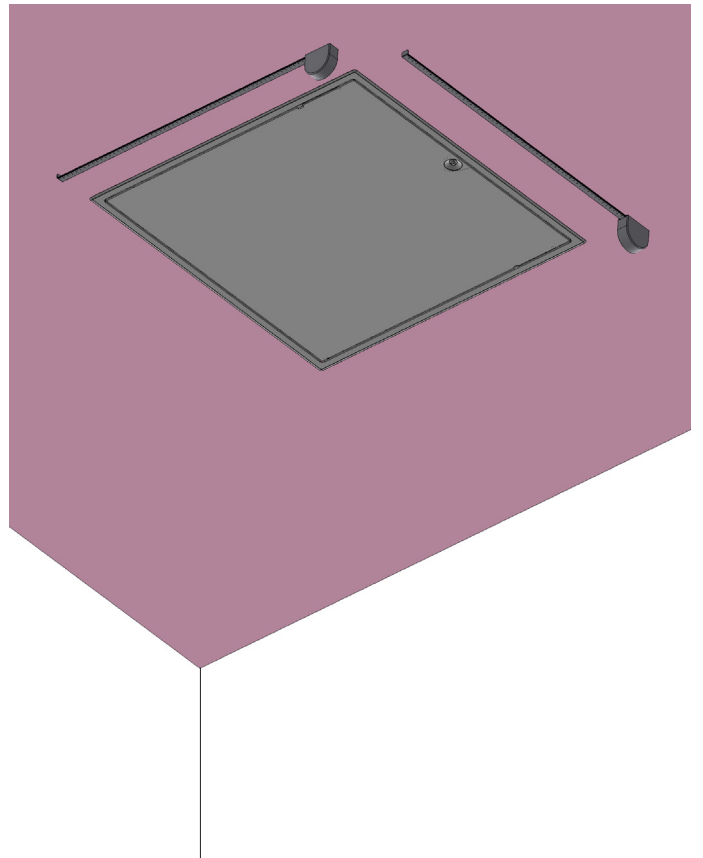
5 A



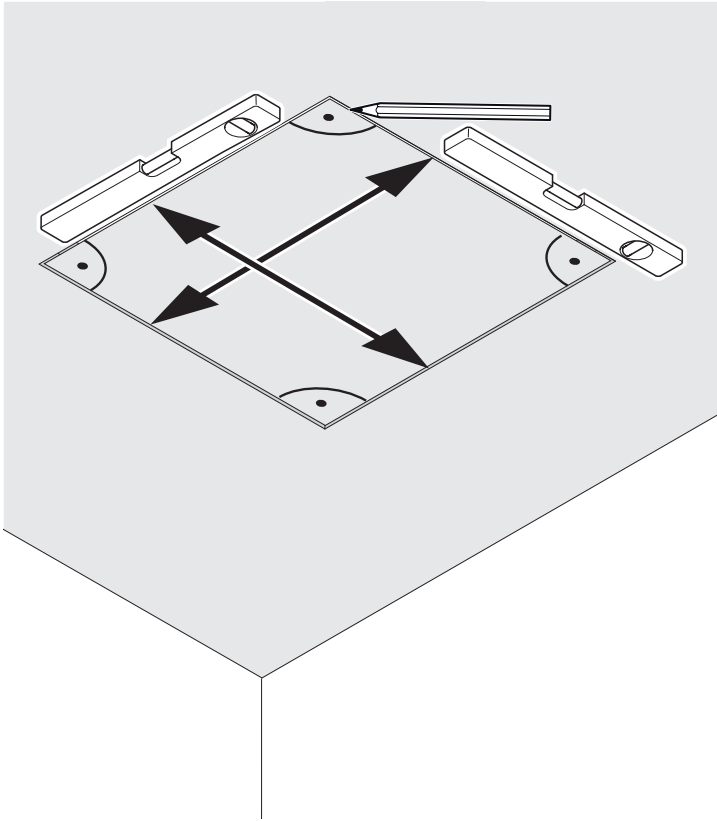
5 B



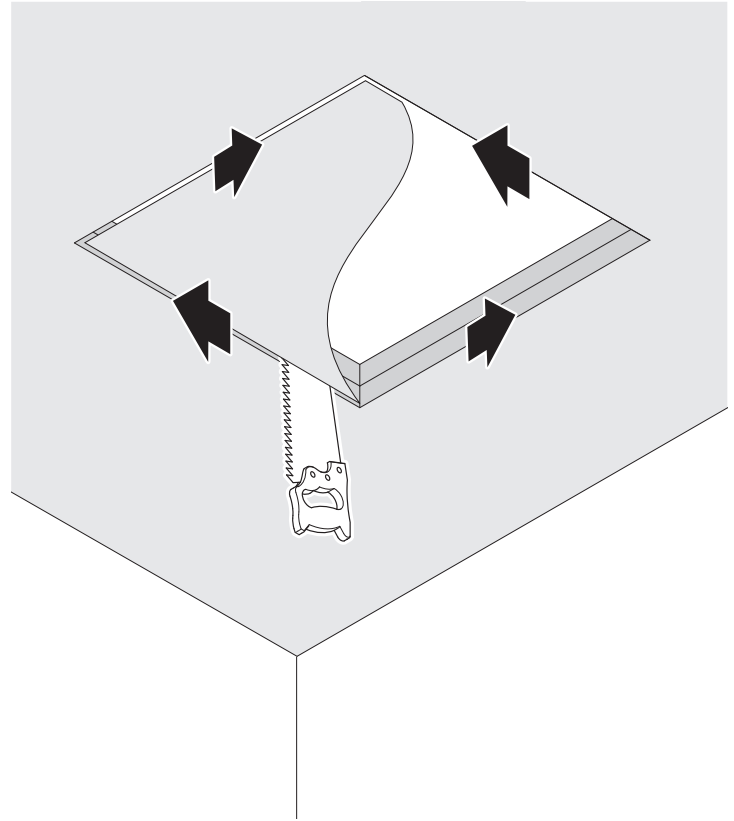
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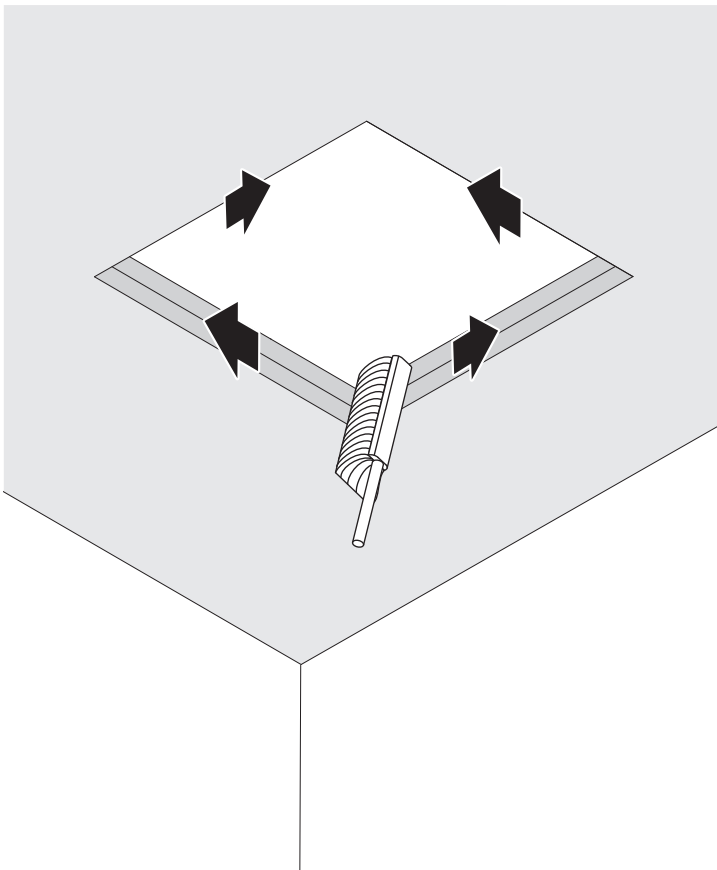
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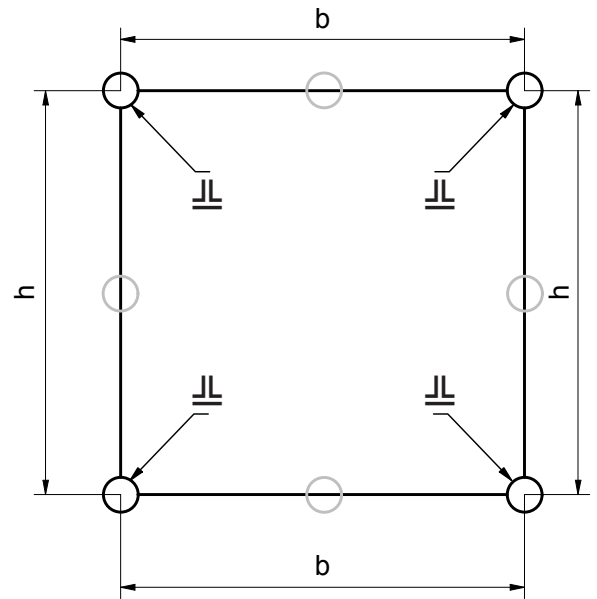
8



9

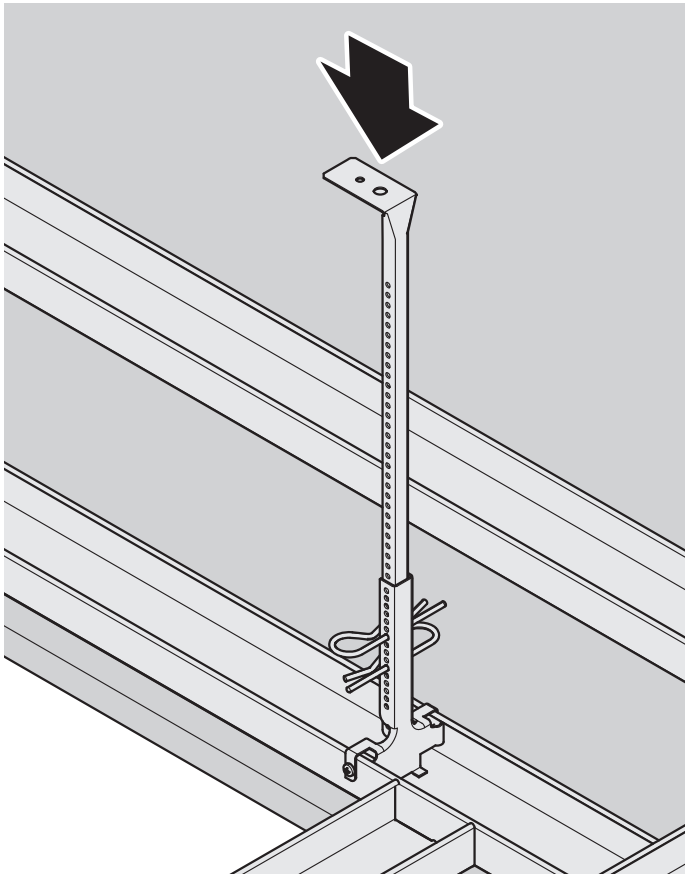


10



	b / h	⊥ b	⊥ h
1	≤ 400	-	-
2	> 400	+2	+2
3	> 500	+3	+3

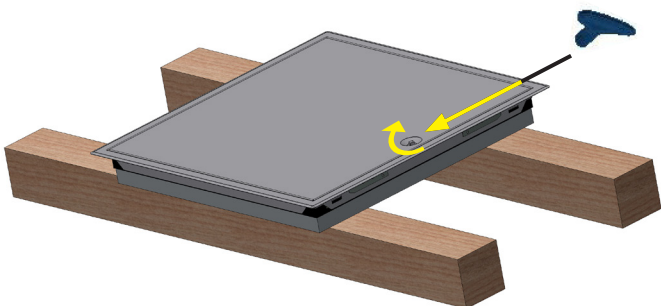
11



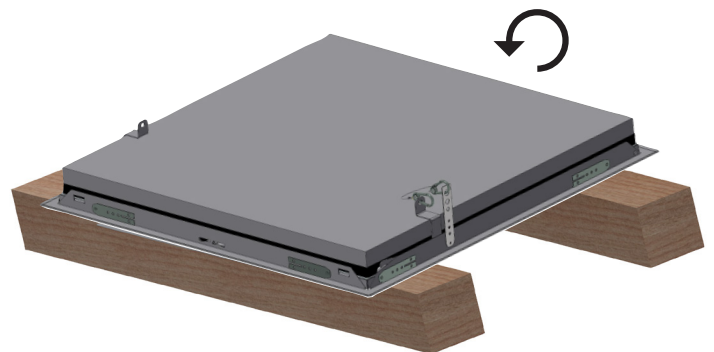
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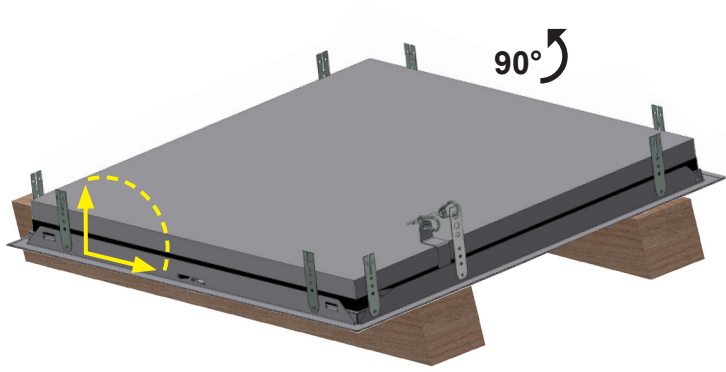
13



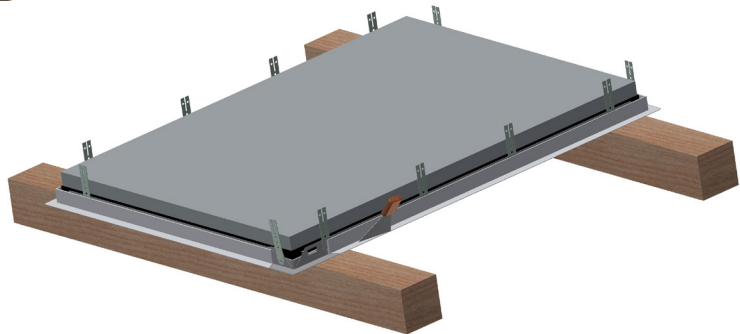
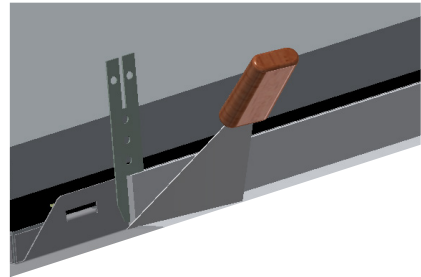
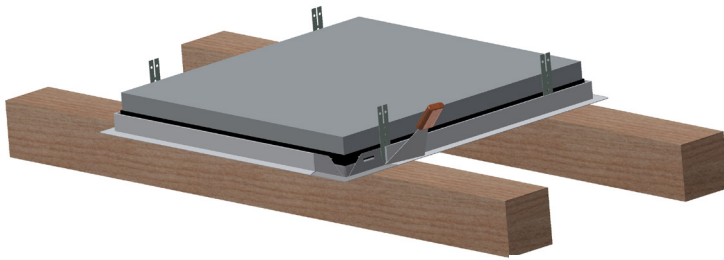
14



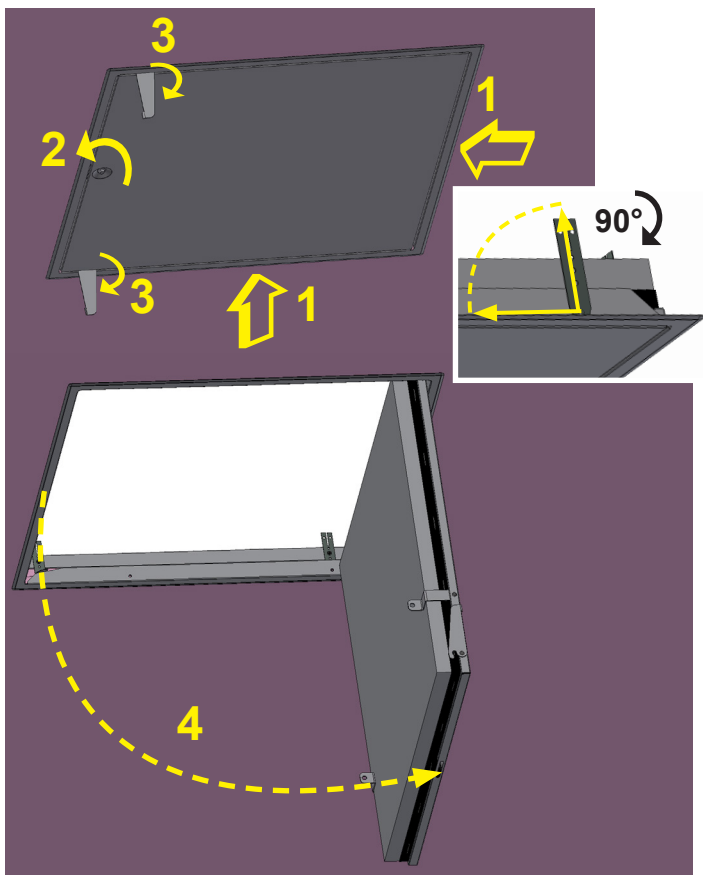
15



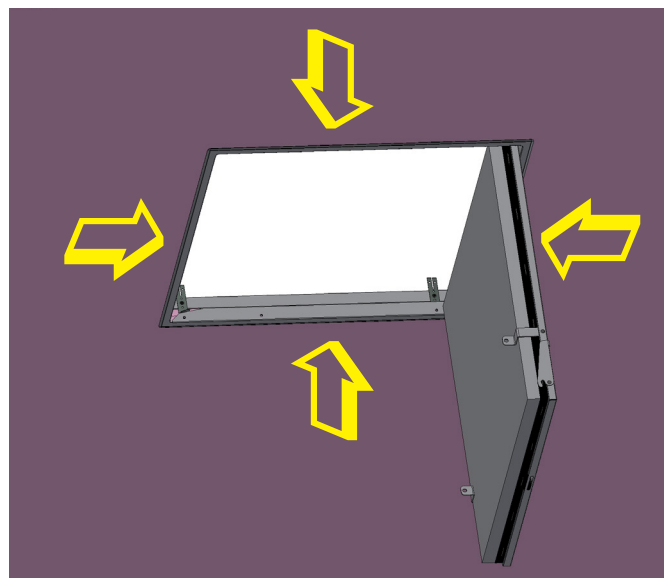
16



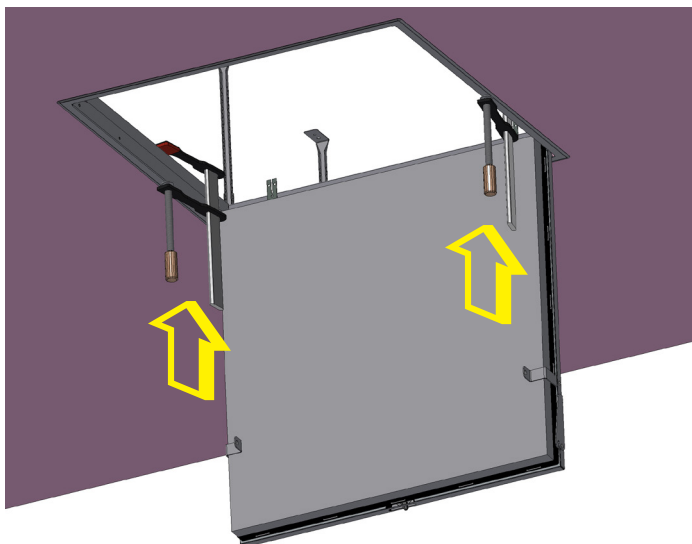
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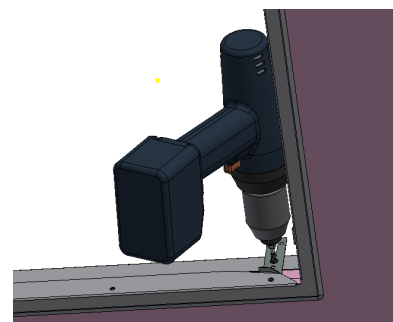
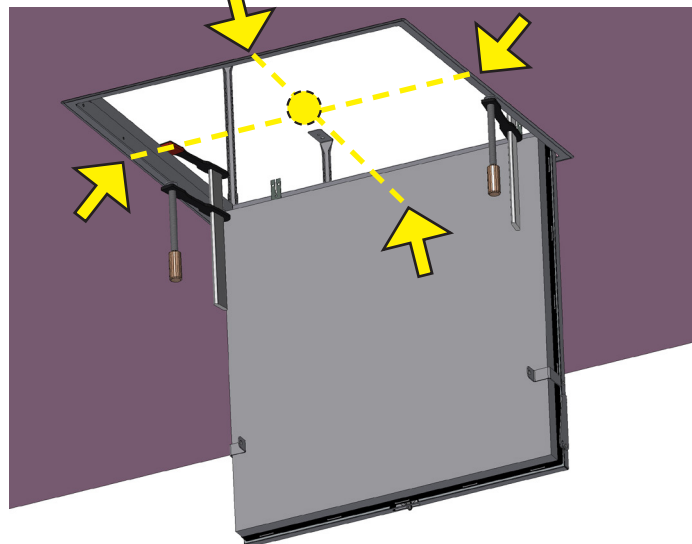
18



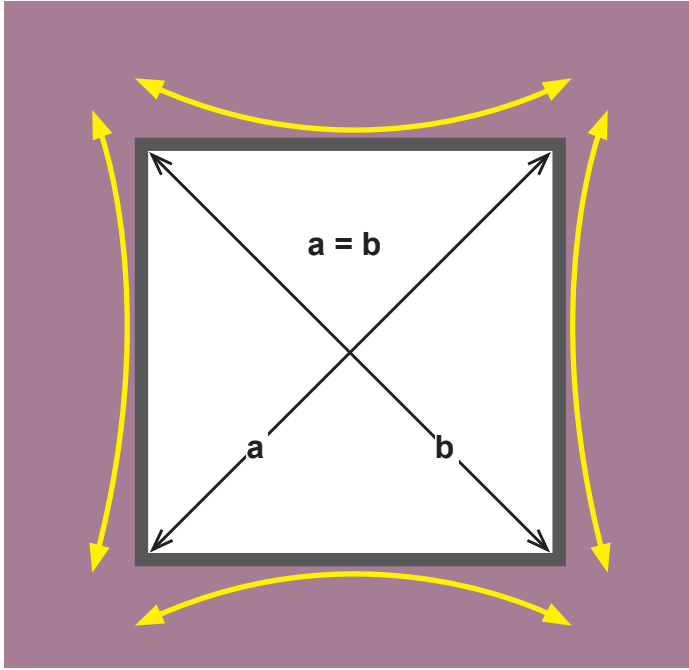
19



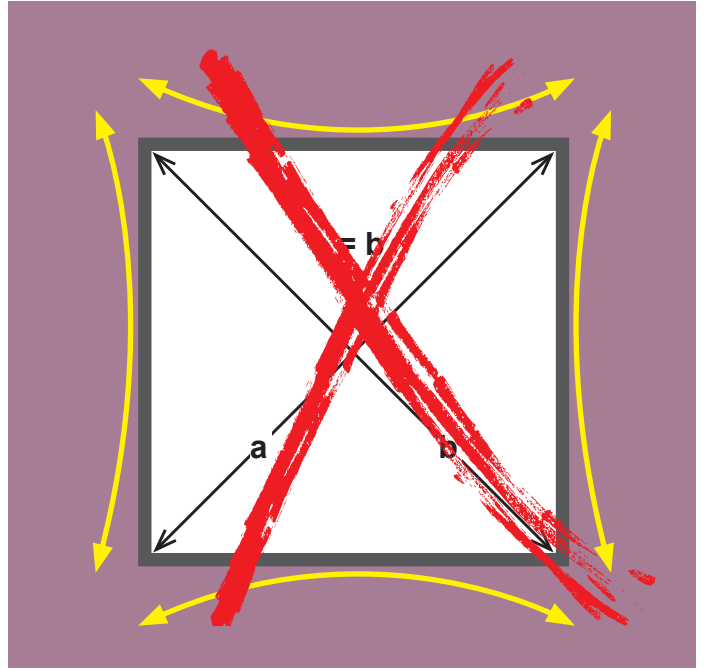
20



21



22





23
 $a = b$
 $= 90^\circ$

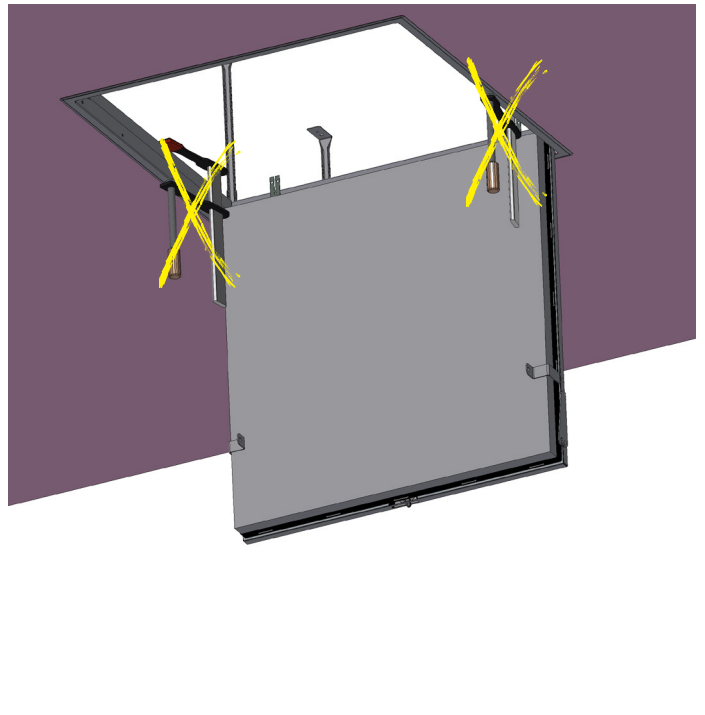


17
 $a \neq b$
 $\neq 90^\circ$

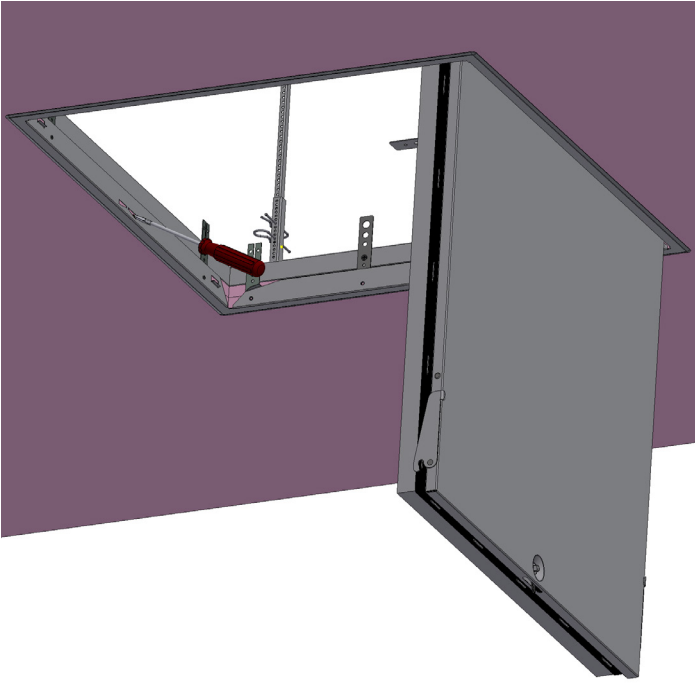
23



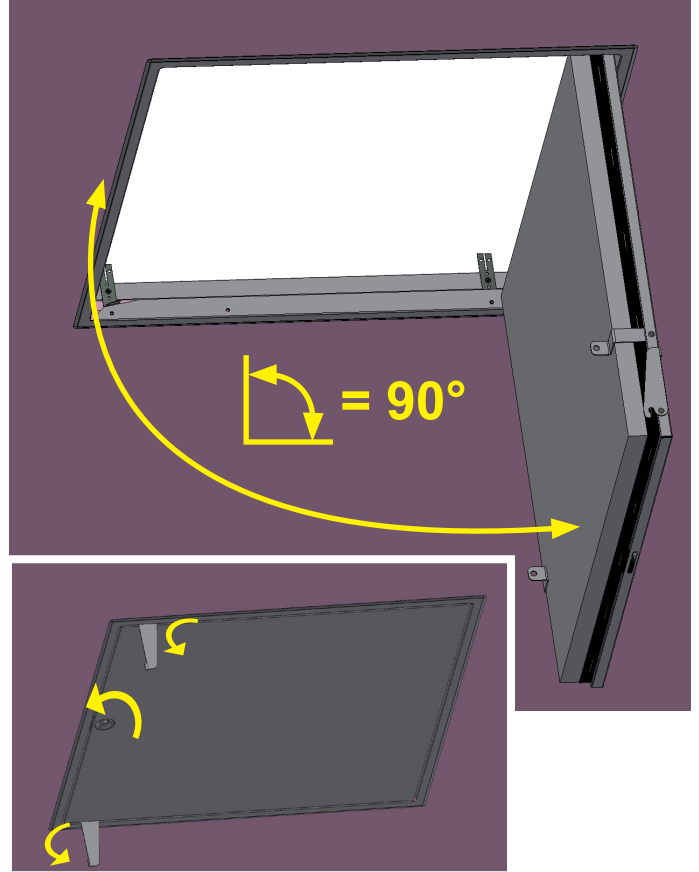
24



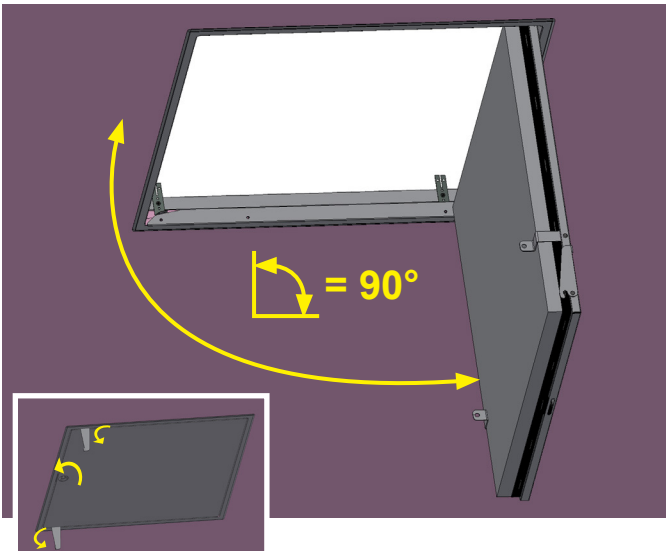
25



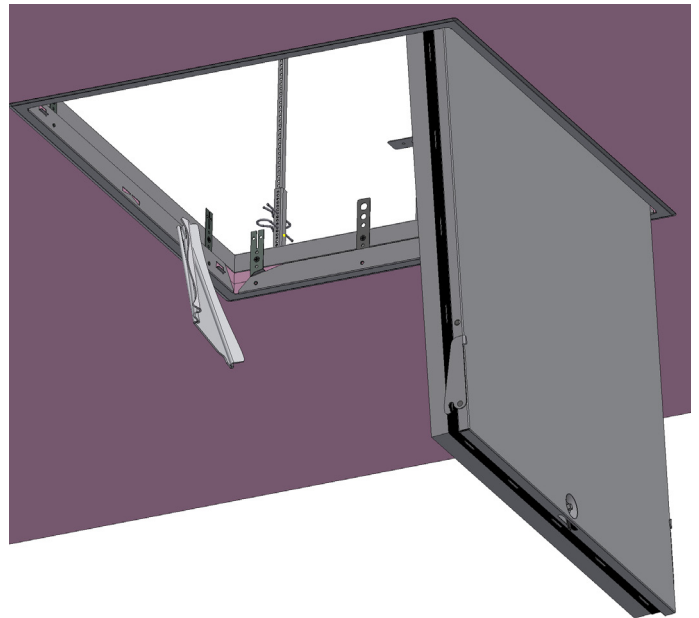
26



27



28



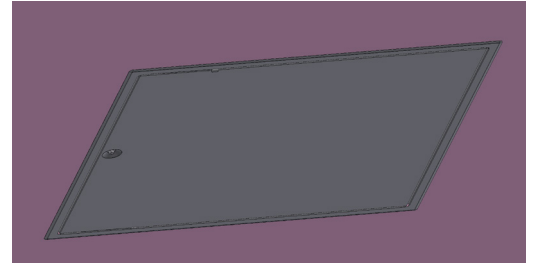
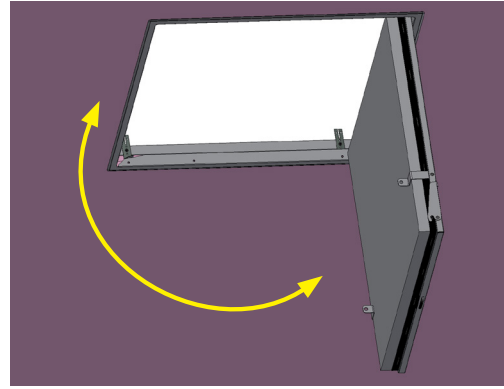
	➔	28
	➔	17

29



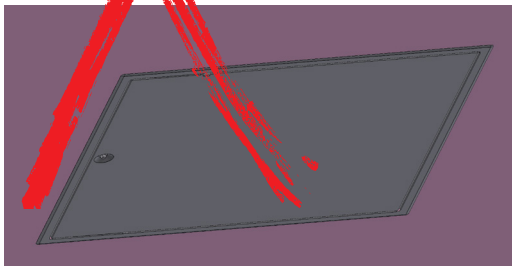
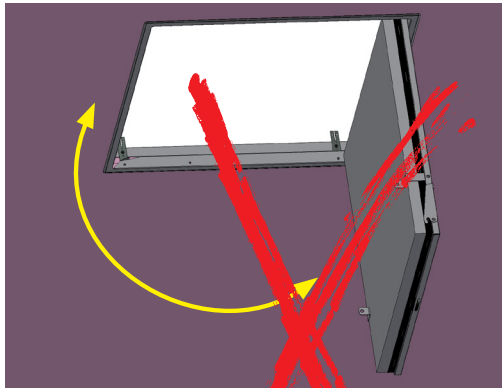
 / 24 h

30



32

31

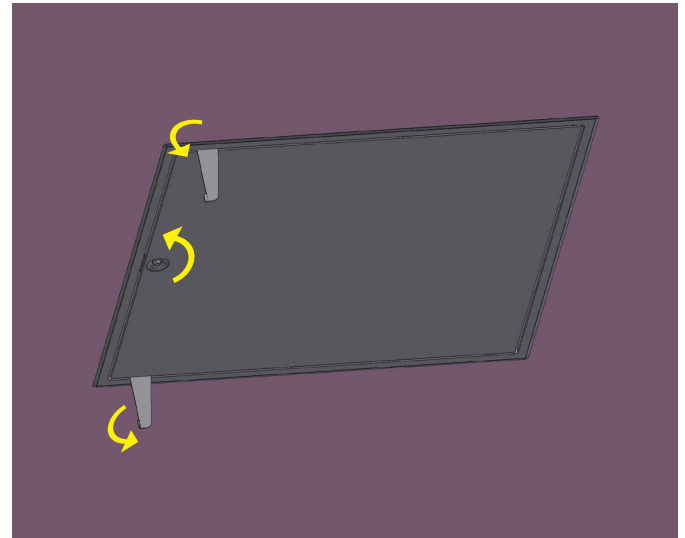


28

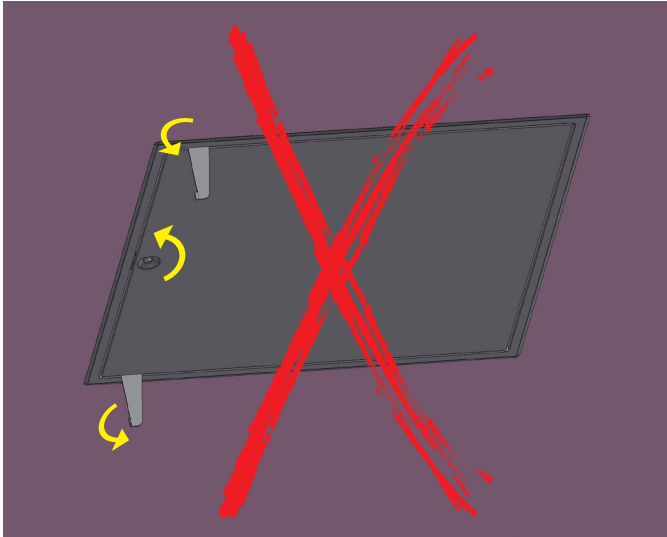
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32

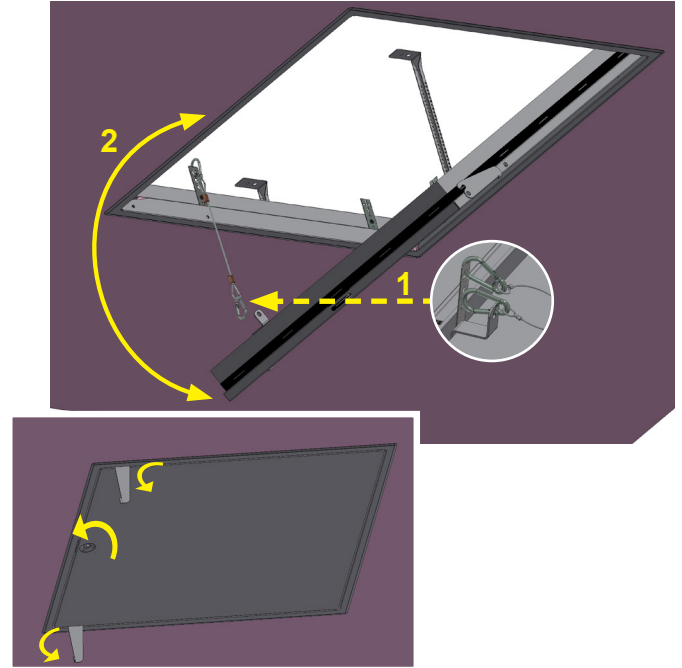
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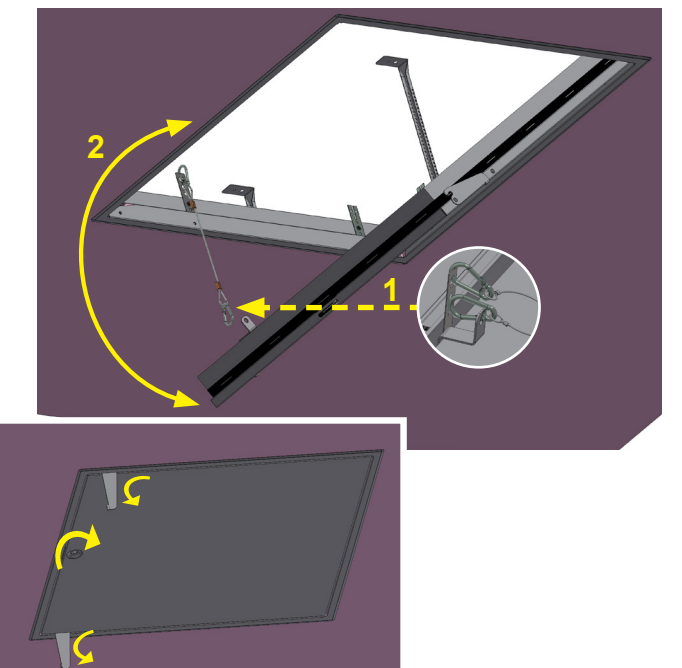
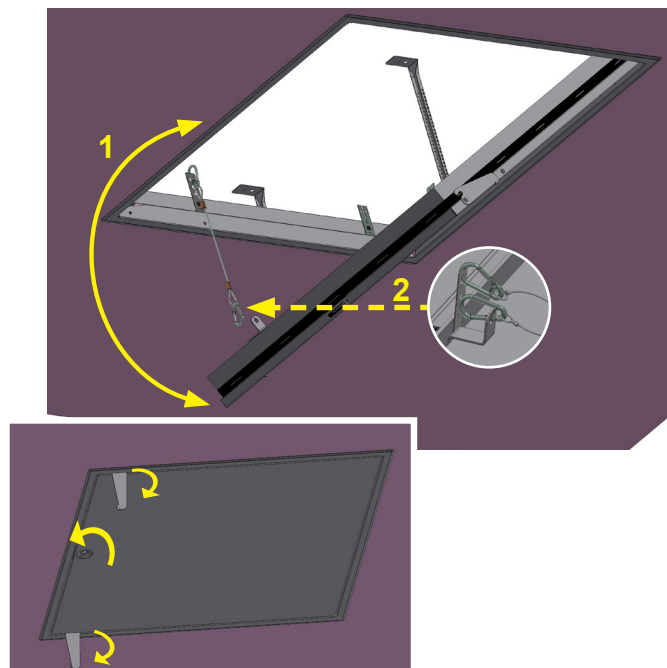
33



34



2^



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