

Assembly and operating instructions

Fire protection housing

PRIOELEC ESL92 BIG-Line

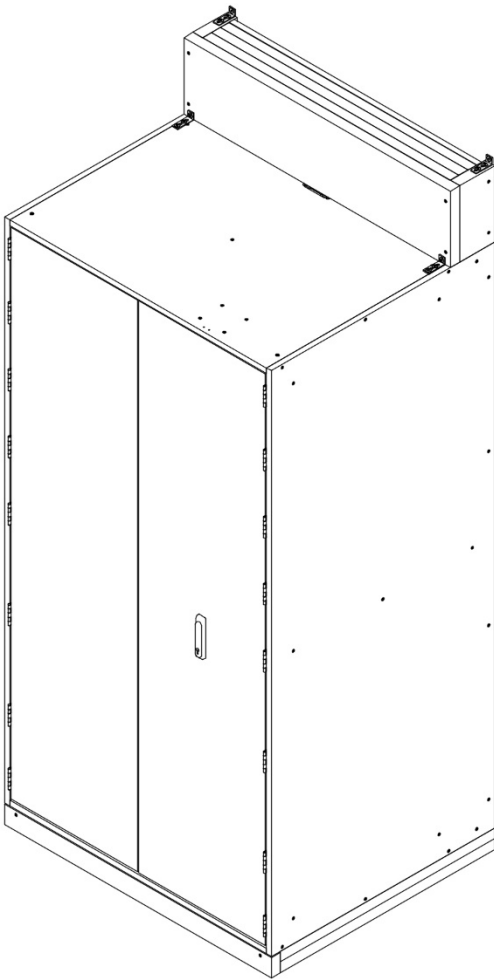


Figure 2, Isometry PRIOELEC ESL92 BIG-Line

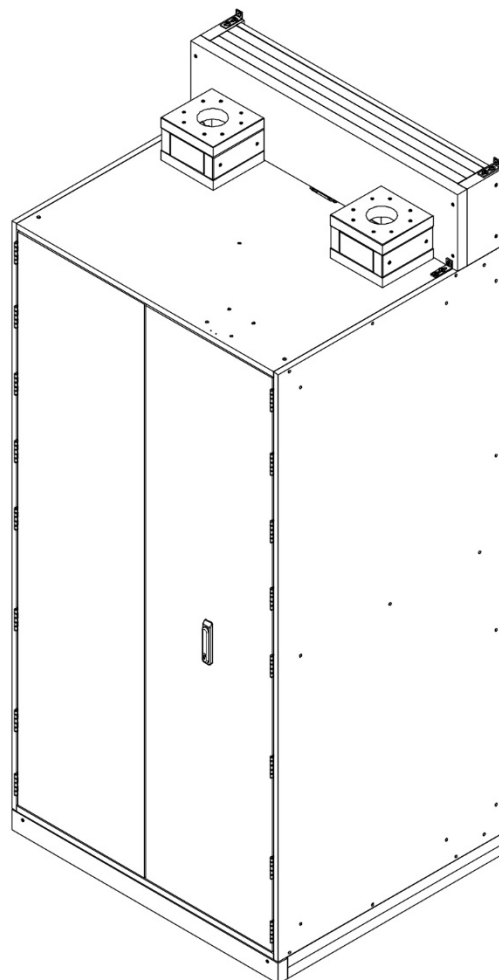


Figure 1, Isometry PRIOELEC ESL92 BIG-Line with BSK-100

EP.A.10975-2
As at: 7/2023

Dear customer,

You have chosen a high-quality PRIORIT product with this purchase.

Many thanks.

In order for us to be able to guarantee perfect functioning of the entire system, please observe the following operating instructions carefully.

We cannot accept any guarantee in the event of non-observance.

We expressly reserve the right to make technical changes that serve to improve our product or that are caused by legal changes – even without separate notification.

These operating/assembly instructions may only be reprinted or reproduced – even in part – with the written permission of PRIORIT AG.

PRIORIT AG

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2. General information

2.1 Information in these instructions

- These instructions are neither a manufacturer's declaration nor a building authority certificate of usability.
- The information in these instructions applies to a wide range of products. Binding technical information, and information related to technical certifications, is only provided on the proof of usability under building approval law, the manufacturers' declarations submitted by the constructing company, and/or our order confirmation, which is considered part of the purchasing agreement upon signing by our contractual partner.

2.2 Important instructions

- The product must be fitted flush and level!
- When storing individual parts, do not place them on the corners and cover the storage area with soft material beforehand, e.g. with a packing blanket!
- The product may only be installed by trained fitters who have received product training!

Warning 230 V AC



- Dangerous voltage may cause death, serious physical injury or considerable damage to property. Disconnect all poles of the unit from the power supply before disassembling/assembling or changing the setup. Observe VDE 0100 for 230 V mains connection.

2.3 General safety instructions

- The operating/assembly instructions can be accessed online via the QR code on the type plate
- Safety instructions required by law must be displayed in a visible place for the user.
- All safety and danger notices as well as the type plate must be kept in a legible condition.
- Observe the relevant VDE regulations.
- Only use products that are in proper working order. Damaged parts must not be used.
- Ensure that the required safety checks are carried out by personnel authorised by us.
- Damage and malfunctions caused by improper transport and installation can only be safely avoided by specialist personnel trained and authorised by PRIORIT AG.
- The swivel range of the door must always be kept clear.
- Observe the technical information in our catalogue or data sheet for the respective product.
- Note the sum of the power losses of the installed devices and wiring compared to the specified power loss of the enclosure. The specified power losses are idealised values; they are based on average ambient values such as temperature, humidity, assembly substrate, uniform arrangement of the switching elements, etc.
- Furthermore, please note that depending on the placement of the installed elements, so-called "heat pockets" can form. So ensure that the installations are distributed as evenly as possible; if necessary, this should be checked by means of a control measurement in the interior.
- Unauthorised persons must not be allowed access to the enclosures.
- The doors of the enclosures must be kept closed during operation.
- Improper installation can impair the protective function.
- Observe all instructions in these operating and maintenance instructions.
- The enclosures must not be glued, painted or otherwise coated.
- The enclosures must not be damaged on the body (e.g. holes, screws).

- The locking systems must not be changed or replaced.

2.4 Intended use

- The products described in these operating/assembly instructions are built according to the state of the art and the recognised safety rules.
- They may only be used in accordance with their intended purpose and in a safe and proper condition.
- When handling the products and for the correct handling of the cable entry, please follow these operating instructions precisely.
- Any other use is not deemed proper use. PRIORIT AG is not liable for any damage or consequential damage resulting from this

2.5 Transport

- The enclosures are shipped packed upright on the pallet. Partially assembled enclosures are also delivered on a pallet.
- If the packaging is damaged, then the freight carrier must be notified of this in writing on the delivery slip – a “simple acknowledgement” provided to the delivering freight company will exclude recognition of damage in transit. The same applies to missing packages according to the delivery note.
- The pallet must always be picked up from the narrow side with forks inserted fully to the end of the pallet.
- Only open the pallet at the installation site so that no damage occurs during transport to the installation site.
- Do not use pointed or sharp objects such as knives when opening the pallet, as they may damage the enclosure.
- Dispose of or reuse packaging material in an environmentally friendly manner
- If the fire protection enclosure is not used or installed immediately, it must be stored in a suitable location
- do not store outdoors and protect against moisture ingress
- the fire protection enclosure has a base that can be lifted underneath. For use, the front fascia must be unscrewed.
- Transport must be carried out in compliance with the safety regulations.
- Do not remove the strapping, foils and transport protection strips until at the installation site.
- When delivered assembled, the doors must be locked.
- Please keep in mind that the fire protection enclosure is very heavy.
- Transport and assembly work must generally be carried by at least 3 people.
- The outer edges must be protected accordingly.
- Follow the accident prevention regulations!
- The enclosure must be secured accordingly.



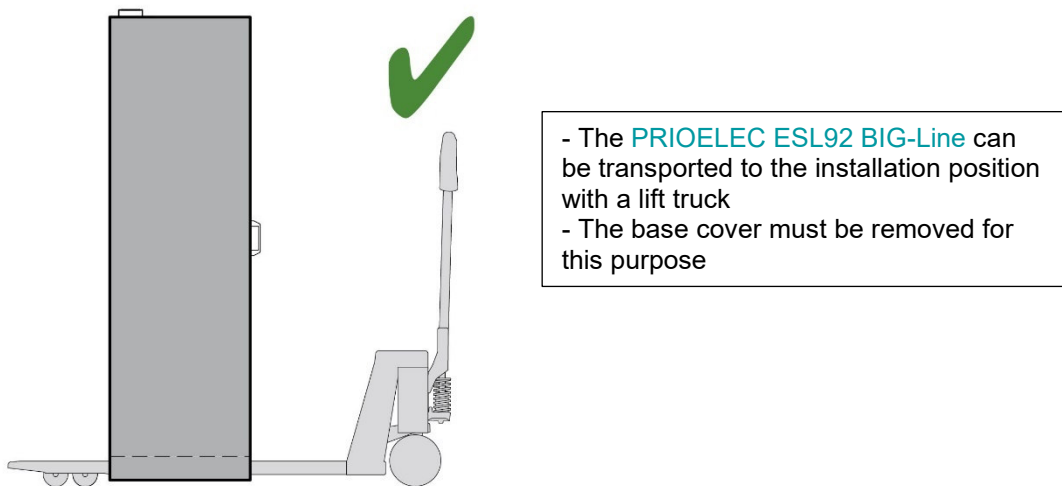


Figure 3, Using a pallet truck

2.6 Principles

- Do not install any damaged parts, as this will immediately void the warranty and the proof of usability.
- Unless it is fitted fully and appropriately, the enclosure does not bear the required usability certificate under building approval regulations.
- As the installing technician, you should only issue an unrestricted manufacturer's declaration of compliance with the building approval if installation was completed in a compliant manner.
- An insignificant deviation shall not result in nonconformity.

2.7 Installation conditions of fire protection enclosures

- The surface must be level.
- Only suitable for indoor installation
- The installation site must be frost-free and dry, ambient temperature +5°C to +30°C
- Surface/wall must be suitable (load-bearing capacity, classification)
- Observe the power loss of the installed devices and wiring compared to the specified power loss of the distribution board (VDE 0660, part 500/504).
- The enclosure must be aligned at the final installation site. For this purpose, the enclosure can be lifted with suitable lifting equipment and height compensation can be made with non-combustible shims. The enclosure must then stand horizontally.
- Check that the fire protection seals and smoke seals are undamaged.
- Check that the door is properly locked when closing the enclosure.

2.8 Scope of delivery

- Floor-standing enclosure PRIOELEC ESL92 BIG-Line
- Doors; detachable
- Door locking in the active leaf via pivoted lever with double bit actuation
- Cable entry from above and below through a cable bulkhead suitable for individual entry
- Door opens into the enclosure, 180° opening angle.
- Ventilation unit with smoke detector and fusible link. Smoke detector switches off ventilation in case of smoke development inside the enclosure.
- C-rails for direct assembly of assembly plates or equipment supports.
- The scope of delivery includes all necessary connecting means required for assembly.
- All necessary fasteners are included in the delivery.

- The fire protection enclosures are delivered as described in the brochure, please refer to the brochure for optional ordering options.

2.9 Warranty, declaration of surrender

- In order to guarantee an optimal function of our products, the installation instructions must be strictly observed.
- PRIORIT's warranty extends to the delivered products.
- Any modifications or changes to the design are permitted only following prior consultation with PRIORIT; otherwise the approval/guarantee will be null and void.
- The warranty for installation services is to be assumed by the installer.
- Any warranty or liability claims for personal injury or property damage are excluded if they were caused by one or more of the following:
 - 1) Improper assembly, commissioning, operation, and maintenance,
 - 2) Failure to observe the instructions on transportation, storage, operation, and assembly,
 - 3) Improper repairs or catastrophes caused by third parties or force majeure.

2.10 Industrial property rights

To safeguard innovation and design, utility model certificates have been filed with the German Patent Office.

3. PRIOELEC ESL92 BIG-Line, without fire dampers
- Partially assembled delivery

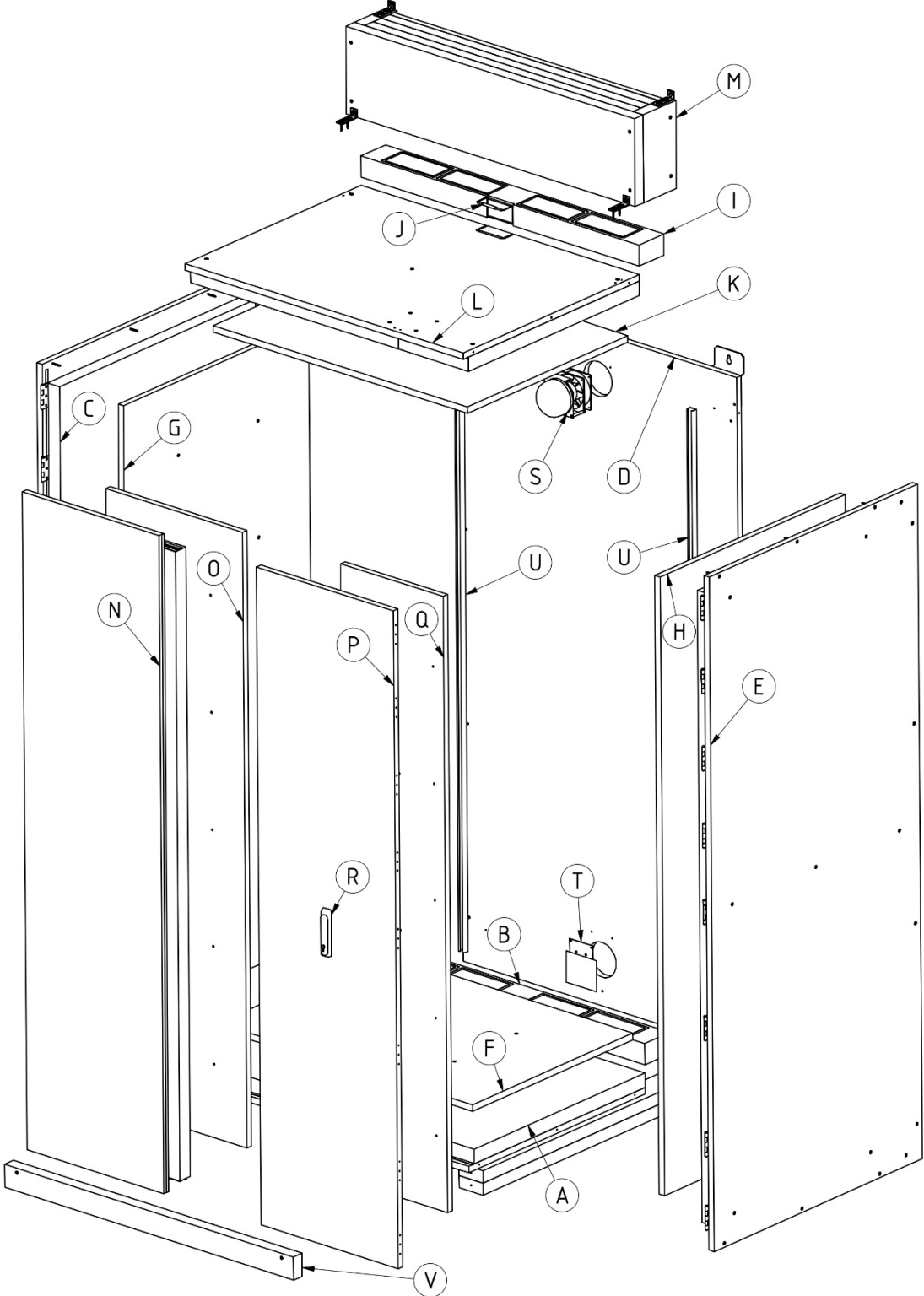



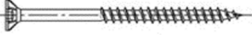
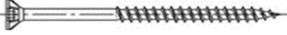
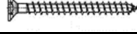



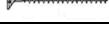
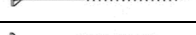
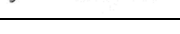
Figure 4, Exploded view of ESL92 PRIOELEC BIG-Line

3.1 Table of components PRIOELEC ESL92 BIG-Line

Position	Name	Position	Name
A	Floor element	L	Cover element
B	Cable feed-through	M	Cable cooling duct
C	Side element left	N	Inactive leaf right
D	Rear wall	O	Inner layer inactive leaf left
E	Side element right	P	Inactive leaf right
F	Inner layer floor element	Q	Inner layer moving leaf right
G	Inner layer side element right	R	Pivot lever
H	Inner layer side element left	S	Fan unit
I	Cable feed-through	T	Ventilation flap
Y	Thermal fuse	U	C-rail
K	Inner layer cover element	V	Base cover

Figure 5, component list PRIOELEC ESL92 BIG-Line

3.2 Overview of individual parts of accessory packs PRIOELEC ESL92 BIG-Line

Position	Name	Graphical representation	Number
A	4.5 x 60		2
B	6 x 120		14
C	6 x 200		2
D	4.5 x 55		40
E	4.5 x 20		10
F	4.5 x 35		12
G	4.5 x 20		12
H	4.5 x 35		48
I	5 x 90		24
Y	4.5 x 70		2
M	Washers 5.3/15/1.2		8
N	Sealing tape 150 x 25 x 10		2
O	C assembly rail		2
P	Fan unit		1
Q	Support plate for ventilation flap		2
R	Ventilation flap		2
S	Washers 6.4/18/1.6		12
T	Varifix bracket		4
U	Key double bit		1
V	Fitherm strips 10 x 1.5		6
W	Hanging brackets		2
X	Frame anchor 10 x 140-90		4
Y	Filter foam		1
Z	Neutral silicone 310 ml		1

3.2 Overview of ancillary packs PRIOELEC ESL92 BIG-Line

Position	Description	
Accessories kit 1	RM x fan	1 x P , 2 x A
Accessories kit 2	ESG91 Rear wall	8 x B , 2 x C
Accessories kit 3	ESL92 Assembly/body	4 x B , 38 x D , 1 x Y , 1 x Z , 1 x U
Accessories kit 4	ESG91 flaps	2 x R , 2 x Q , 4 x G , 1 x N
Accessories kit 5	ESG91 Hinges	48 x H
Accessories kit 6	ESL92 Inner carcass	24 x I
Accessories kit 7	ESL92 Base	2 x J
Accessories kit 8	ESL91/92 Lugs	2 x X , 2 x W , 10 x E , 2 x B , 6 x V
Accessories kit 9	ESL91/92 Cable cooling attachment	4 x T , 12 x F , 12 x S , 2 x X
Accessories kit 10	C assembly rail	4 x G , 4 x M

4. Assembly PRIOELEC ESL92 BIG-Line - Partially assembled delivery

4.1 Aligning the floor element

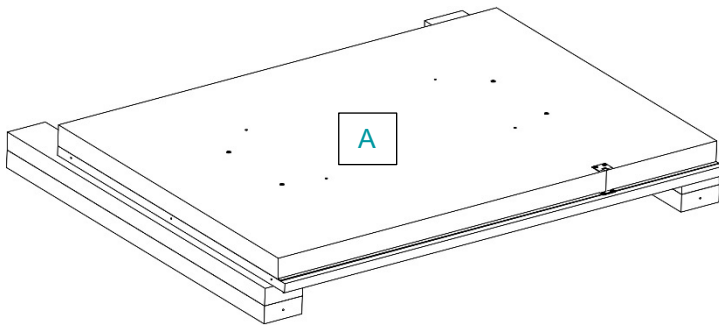


Figure 6, Aligning the floor element



- Position the floor element (A) at the installation position and align it
- The floor element can be shimmed under the skirting boards
- Correct levelling is imperative, otherwise the function of the fire protection housing is not ensured and damage may occur

4.2 Installing the cable feed-through in the floor element

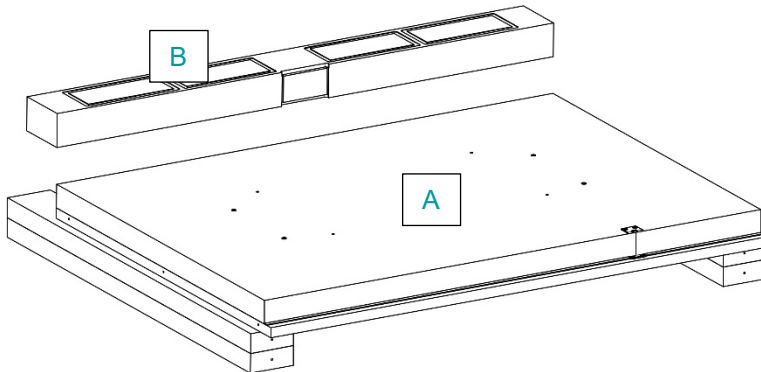
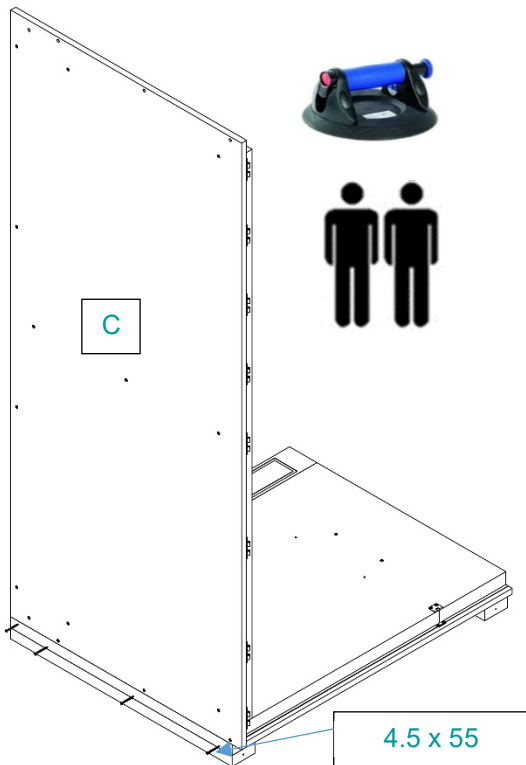


Figure 7, Assembly of the cable feed-through floor element

- Position the cable feed-through (B)

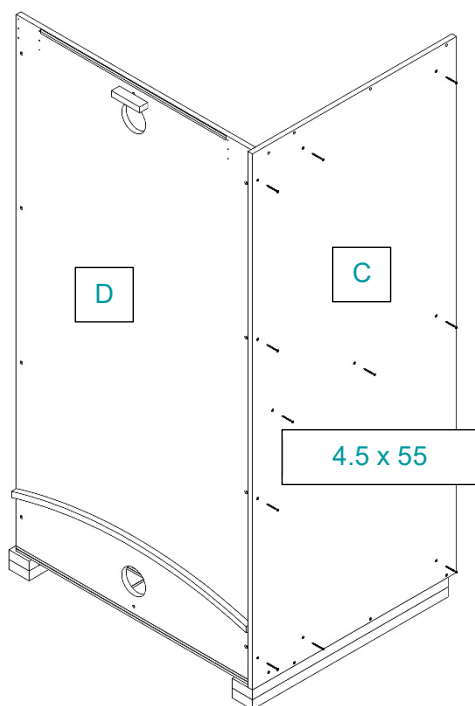
4.3 Assembling the side element on the left



- Position the left side element (C) and bolt it to the floor element with the 4.5 x 55 mm screws
 - The side element must be held in position
- Accessories kit 3

Figure 8, Assembling the left side element

4.4 Assembling the rear wall

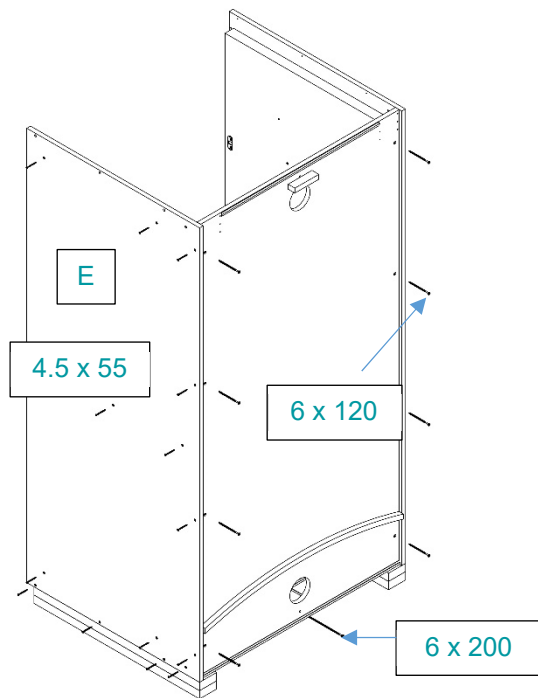


- Position the rear wall (D) and bolt it to the side element left with the 4.5 x 55 mm screws
- Accessories kit 3

Figure 9, Rear wall assembly

4.5 Assembly of the side element right

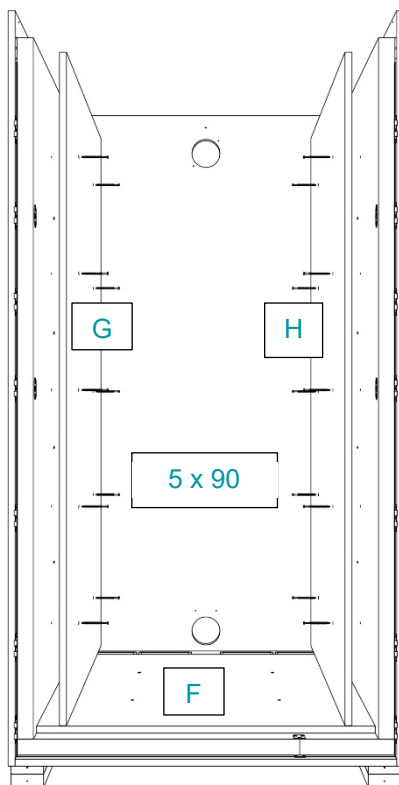
- Additional bolting of the side elements to the back wall



- Position the side element right (E) and bolt it to the floor element with 4.5 x 55 mm screws
Accessories kit 3
- Connect side elements through the rear wall with screws 6 x 120 mm
Accessories kit 2
- Fix the cable feed-through with screws 6 x 200 mm
Accessories kit 2

Figure 10, Assembly side element right

4.6 Assembly of inner layers of side elements



- Position the inner layer of the floor element (F) and bolt it to the floor element
- Position the left and right inner layers (G) + (H) and screw them to the side elements
- 5 x 90 mm screws
Accessories kit 6

Figure 11, Assembly of inner layers of side elements

4.7 Overview of accessories, rear wall, with fan unit

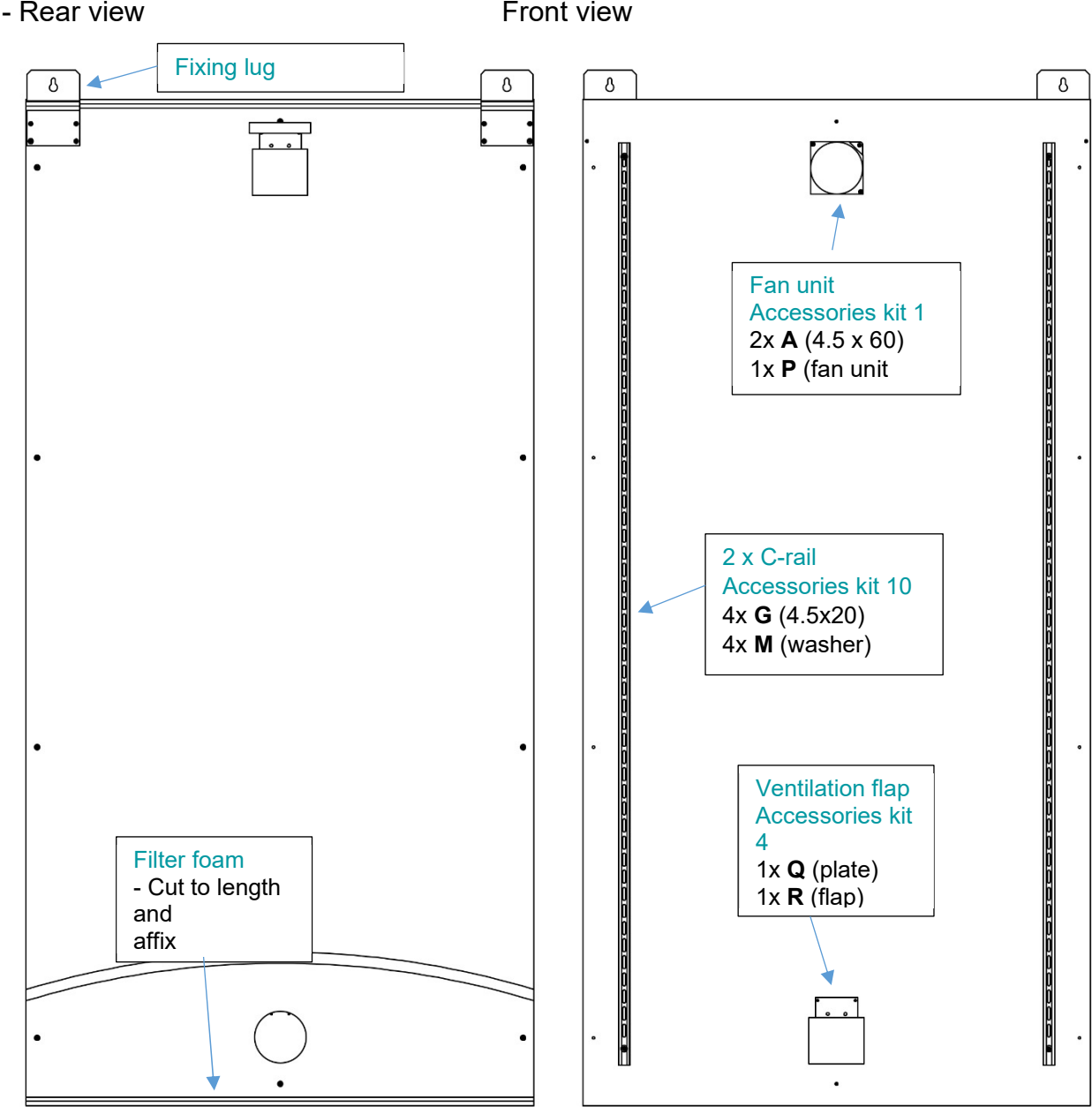


Figure 12, Overview of rear wall accessories

4.8 Suspension lugs assembly

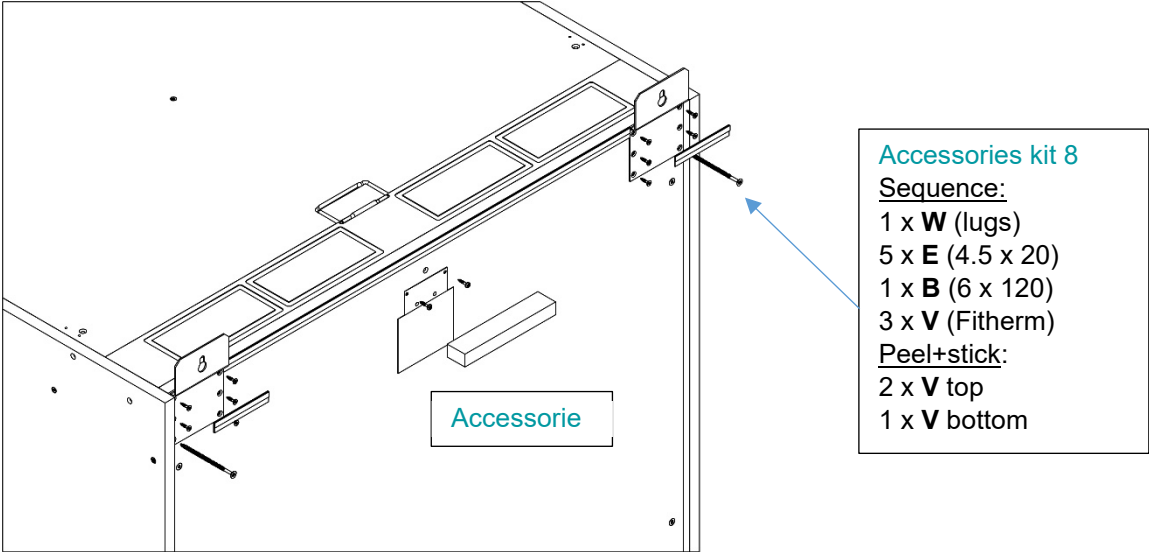


Figure 13, Assembling suspension brackets

4.9 Assembling ventilation flap on top

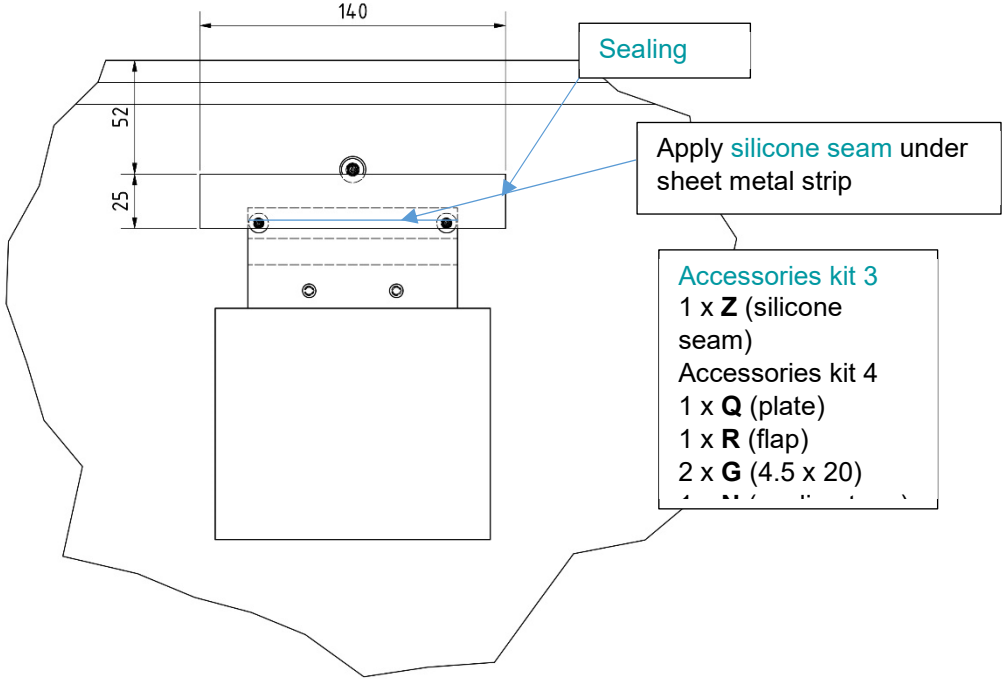
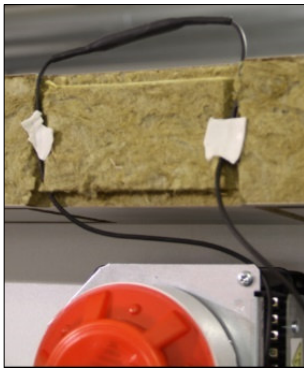


Figure 14, Detail ventilation flap top

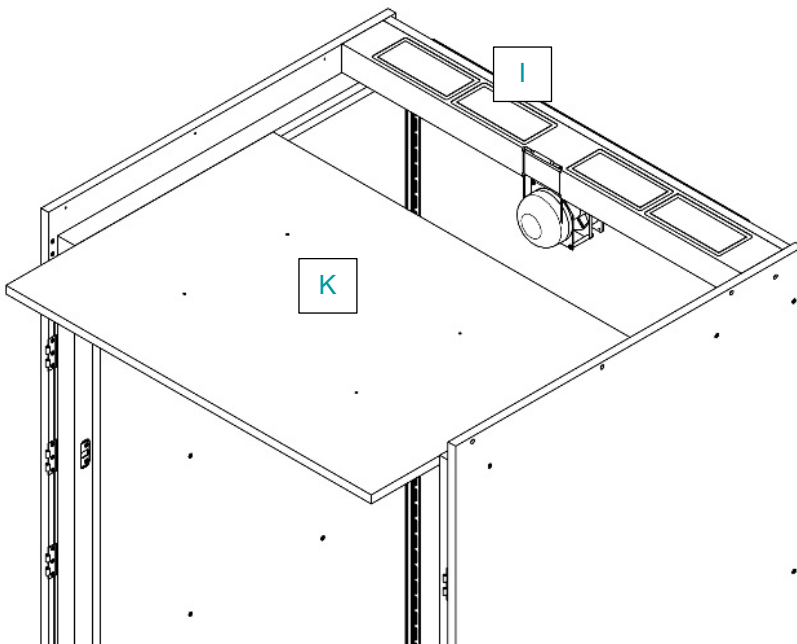
4.10 Assembling cable entry cover element



- Fix the temperature sensor (J) to the cable entry (I) with adhesive tape

Figure 15, Fixing the temperature sensor

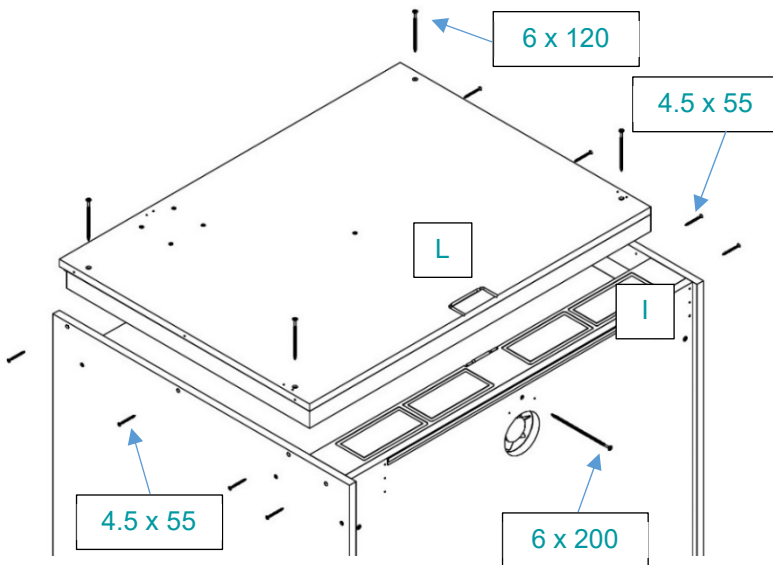
4.11 Assembling inner layer cover element



- Position the cable entry (I)
- the inner layer
Apply cover element(K)
and position on the Cable feed-through (I)

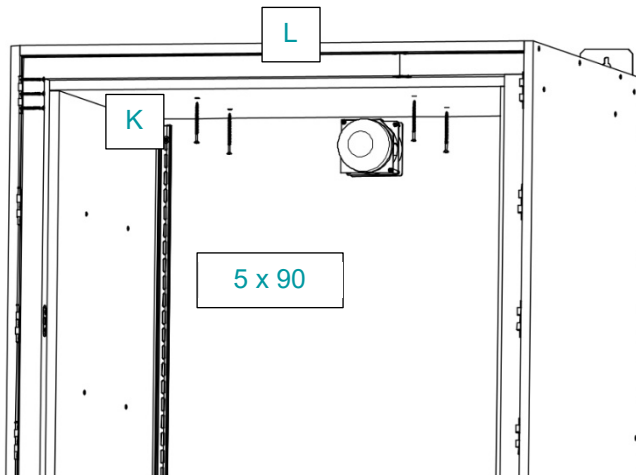
Figure 16, Assembling inner layer cover element

4.12 Assembling cover element



- Apply cover element (L) and position on the cable feed-through (I) and bolt it to the side elements
- 4.5 x 55 mm screws
- 6 x 120 mm screws
- Accessories kit 3
- Screw the cable feed-through (I) through the rear wall
- Screw 6 x 200 mm
- Accessories kit 2

Figure 17, Cover element assembly



- Bolt the inner layer of the cover element (K) to the cover element
- 5 x 90 mm screws
- Accessories kit 6

Figure 18, Bolting inner layer cover element

4.13 Assembling temperature sensor cover element

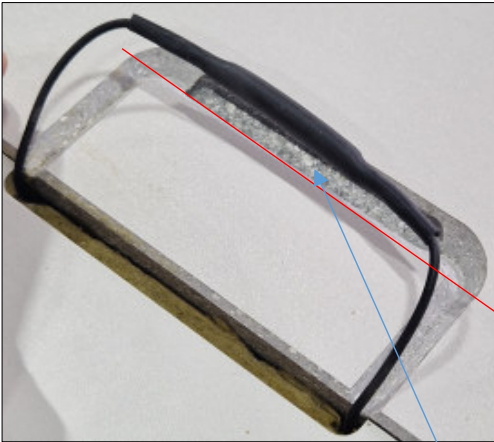


Figure 19, Assembling the temperature sensor on the cover element

- Insert the temperature sensor into the groove and glue it in the front area of the groove with silicone
- Installation must be flush with the



Figure 20, Sealing temperature sensor cover element

- Attach the sticker to the temperature sensor
- The sticker must not be damaged

4.14 Positioning at the installation site

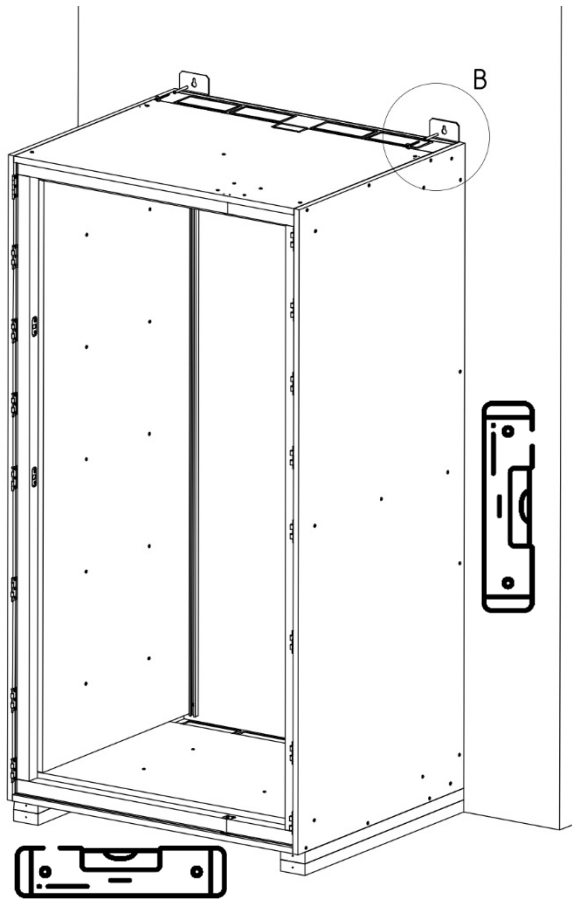
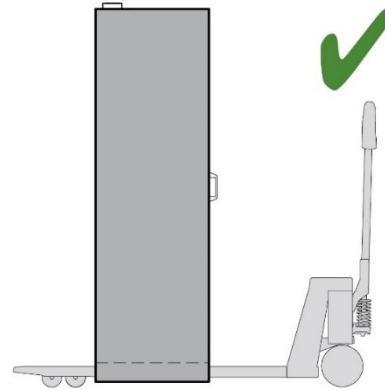


Figure 21, Positioning at the installation site



- Position and align the ESL92 BIG-Line at the installation site
- The floor element can be shimmed under the skirting boards
- Correct levelling is imperative, otherwise the function of the fire protection housing is not ensured and damage may occur

4.15 Wall assembly

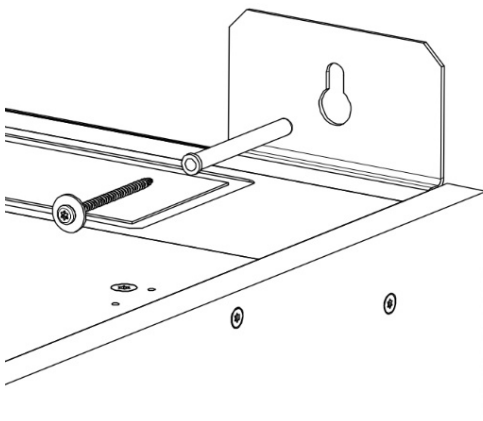
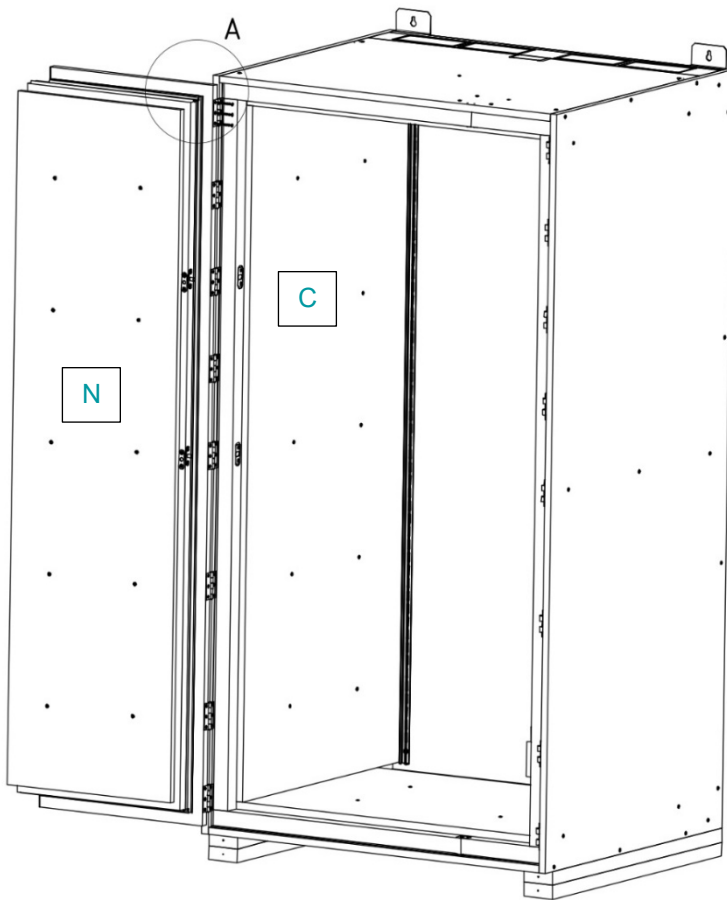


Figure 22; Detailed view of bracket fastening

- Drill the holes and insert a suitable anchor for the connecting wall
[Accessories kit 8](#)

4.16 Assembly of the passive leaf



- Position the inactive leaf (N) against the side element (C)
 - The bottom edge of the door has a height of 114 mm
 - e.g. a lifting truck can be used
 - The hinges must be at the same height as the holes
 - Assemble the hinges from top to bottom
- [Accessories kit 5](#)
4.5 x 35 mm screws

Figure 23, Assembly of inactive leaf

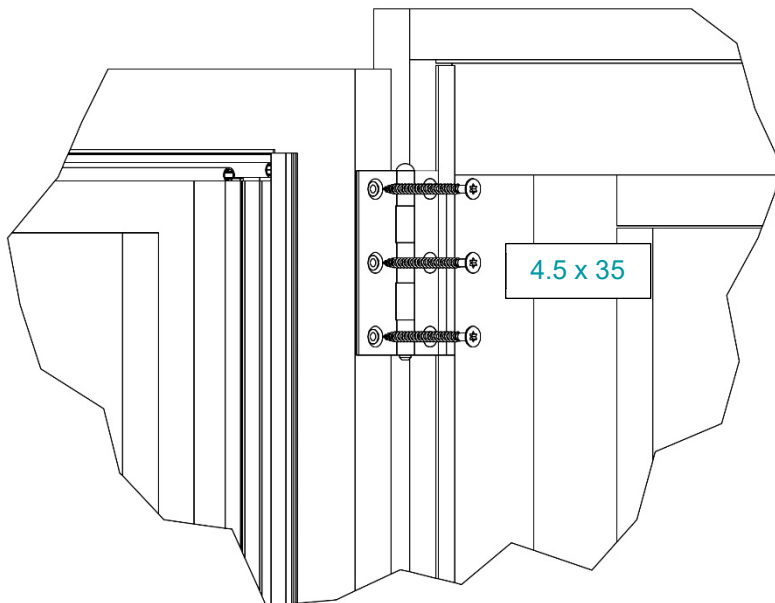
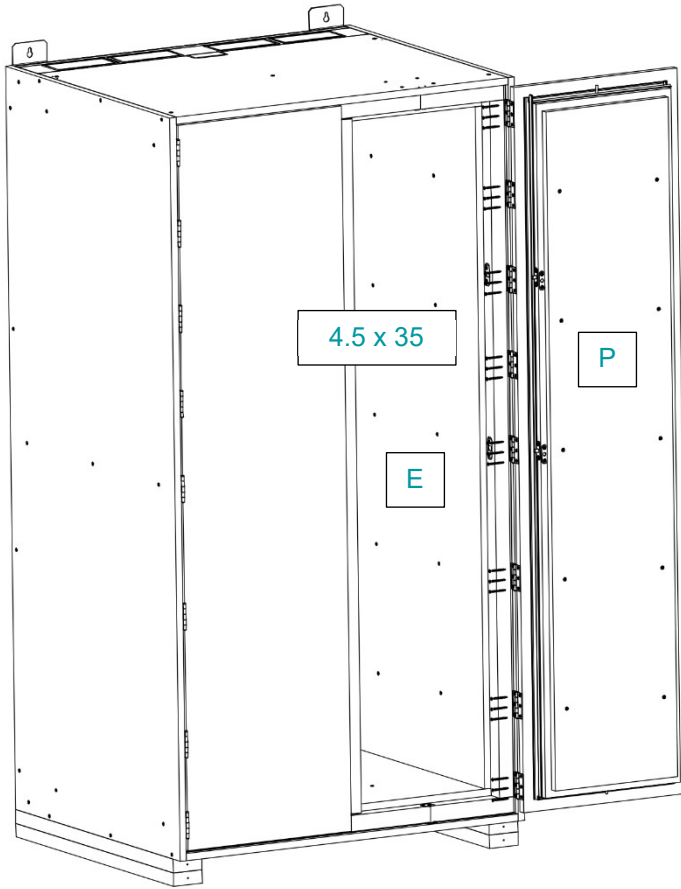


Figure 24, Bolting the hinges

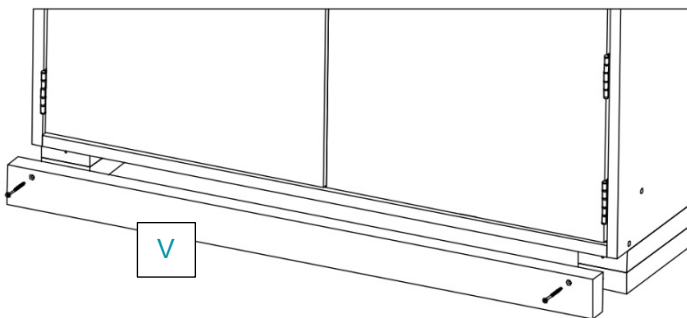
4.17 Assembly of the passive leaf



- Position the active leaf (P) against the side element (E)
- The bottom edge of the door has a height of 114 mm
- e.g. a lifting truck can be used
- The hinges must be at the same height as the holes
- Assemble the hinges from top to bottom
- Accessories kit 5
- 4.5 x 35 mm screws

Figure 25, Assembling the moving leaf

4.18 Assembling the base panel



- Position and assemble the base cover (V)
- Accessories kit 7
- 4.5 x 70 screw

Figure 26, Assembling the base cover

4.19 Assembling the cable cooling duct; EABK a)

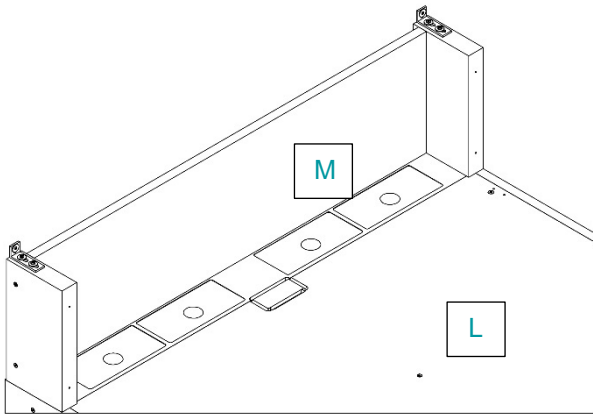


Figure 27, Assembling the cable cooling duct; step a)

- Dismantle the front panel of the EABK and remove the insulation strips
 - Position the rear wall with the side elements on the cover element
 - Drill the required holes in the cable duct
 - Screw the **Varifix brackets** to the installation wall using suitable fasteners
- Accessories kit 9**

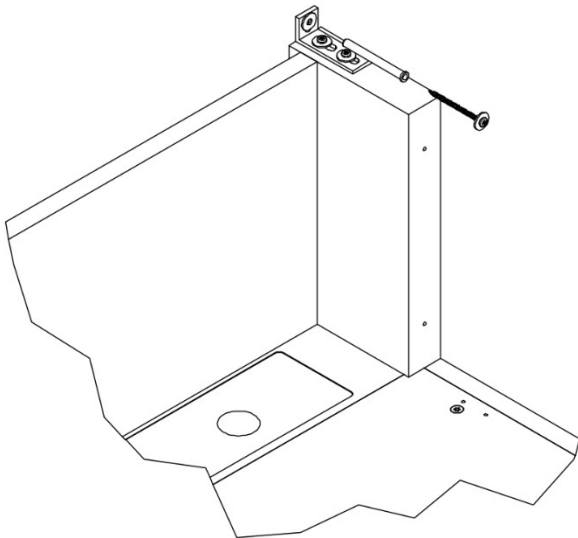


Figure 28, Detail wall assembly cable cooling duct; EABK

- Dismantle the front panel of the EABK (**M**) and remove the insulation strips
 - Position the rear wall with the side elements on the cover element
 - Drill the required holes in the cable duct
 - Drill the wall assembly holes in the installation wall and screw through the **Varifix brackets** with suitable fasteners
- Accessories kit 9**

b)

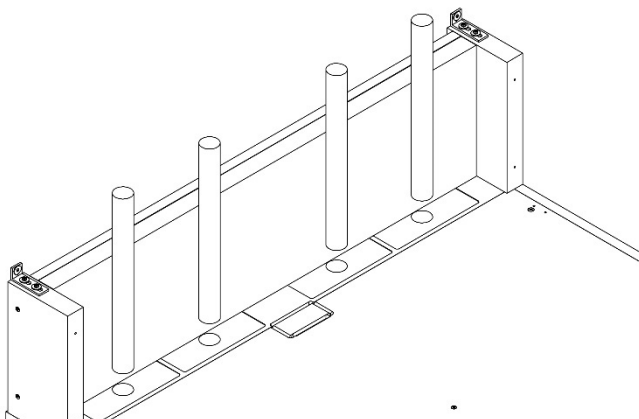
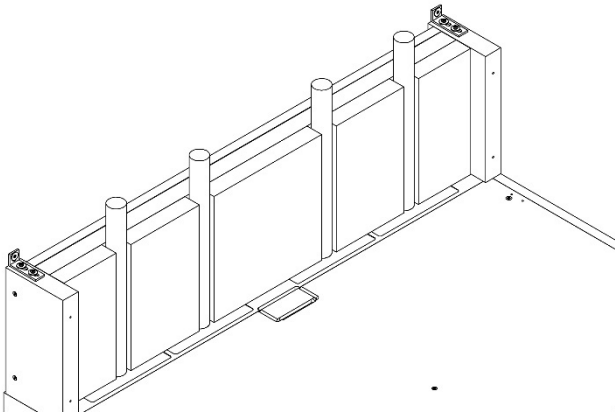


Figure 29, Assembly of cable cooling duct; step b

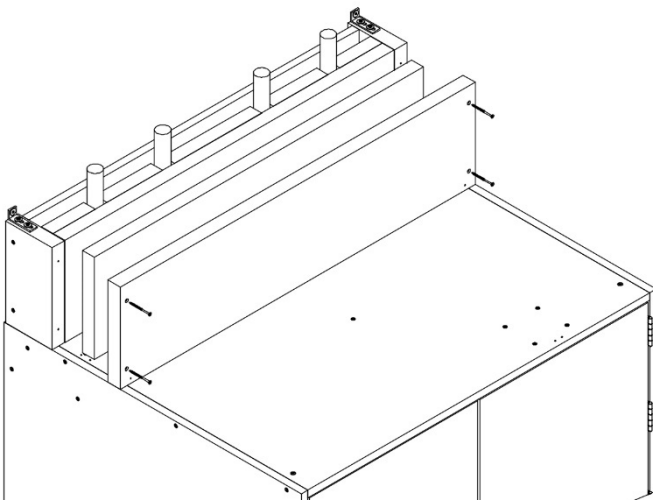
- Insert the required cables and fill them tightly with the cut-to-size **insulation material**

c)



- Fill all gaps tightly with the cut insulation material

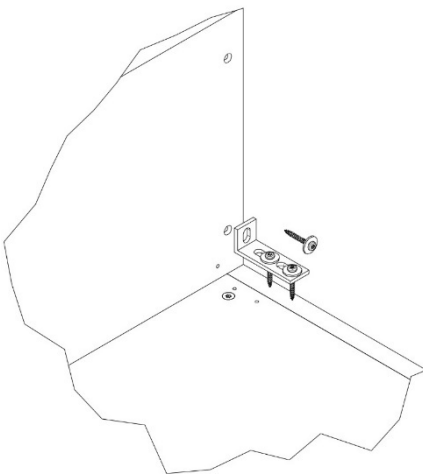
Figure 30, Assembling the cable cooling duct; step c
d



- Screw the front plate of the cable cooling duct into the sides with 45 x 70 mm screws
- The insulating material must be pressed firmly against the inserted cables
- Bolt the Varifix brackets into the cover element and the front plate
Accessories kit 9
-Panhead 4.5 x 35 mm screws with the washers Ø 6.4

Figure 31, Assembling the cable cooling duct; step d

e)

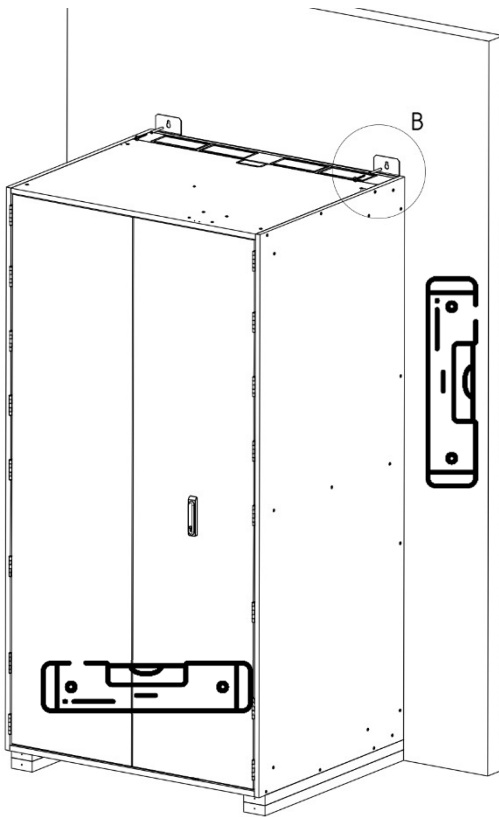


- Assemble the front panel on the cover element with the Varifix brackets
Accessories kit 9
-Panhead 4.5 x 35 mm screws with washers Ø 6.4

Figure 32, Assembling the cable cooling duct; step e

5. PRIOELEC ESL92 BIG-Line, assembled delivery

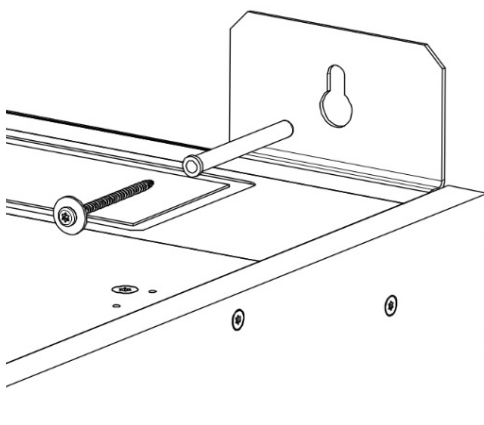
5.1 Aligning on the wall



- Position and align the **PRIOELEC ESL92 BIG-Line** at the installation position
- The floor element can be shimmed under the skirting boards
- Correct levelling is imperative, otherwise the function of the fire protection housing is not ensured and damage may occur

Figure 33, Aligning to the wall

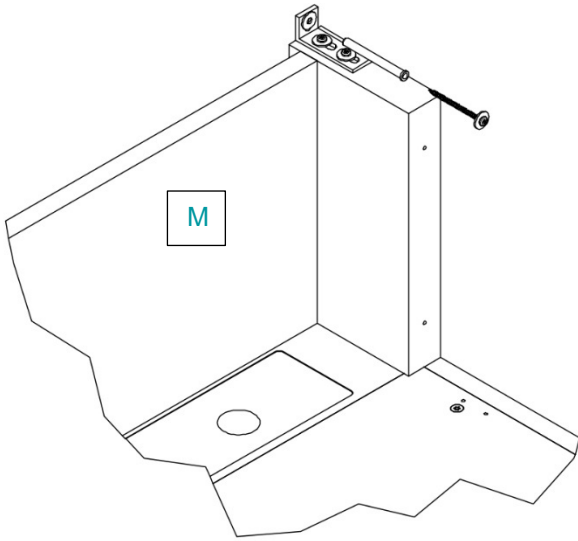
5.2 Wall assembly, assembled delivery



- Drill the holes and insert a dowel suitable for the connecting wall and screw through the suspension brackets **Accessories kit 8**

Figure 34, Wall assembly, assembled delivery

5.3 Wall assembly of cable cooling duct; EABK



- Dismantle the front panel of the EABK (M) and remove the insulation strips
 - Position the rear wall with the side elements on the cover element
 - Drill the required holes in the cable duct
 - Drill the wall assembly holes in the installation wall and screw through the [Varifix](#) brackets with suitable fasteners
- [Accessories kit 9](#)

Figure 35, Detail wall assembly cable cooling duct; EABK

- Observe the further installation steps from point [4.19](#), from page 24 onwards

6. PRIOELEC ESL92 BIG-Line, with fire dampers
 - Partially assembled delivery

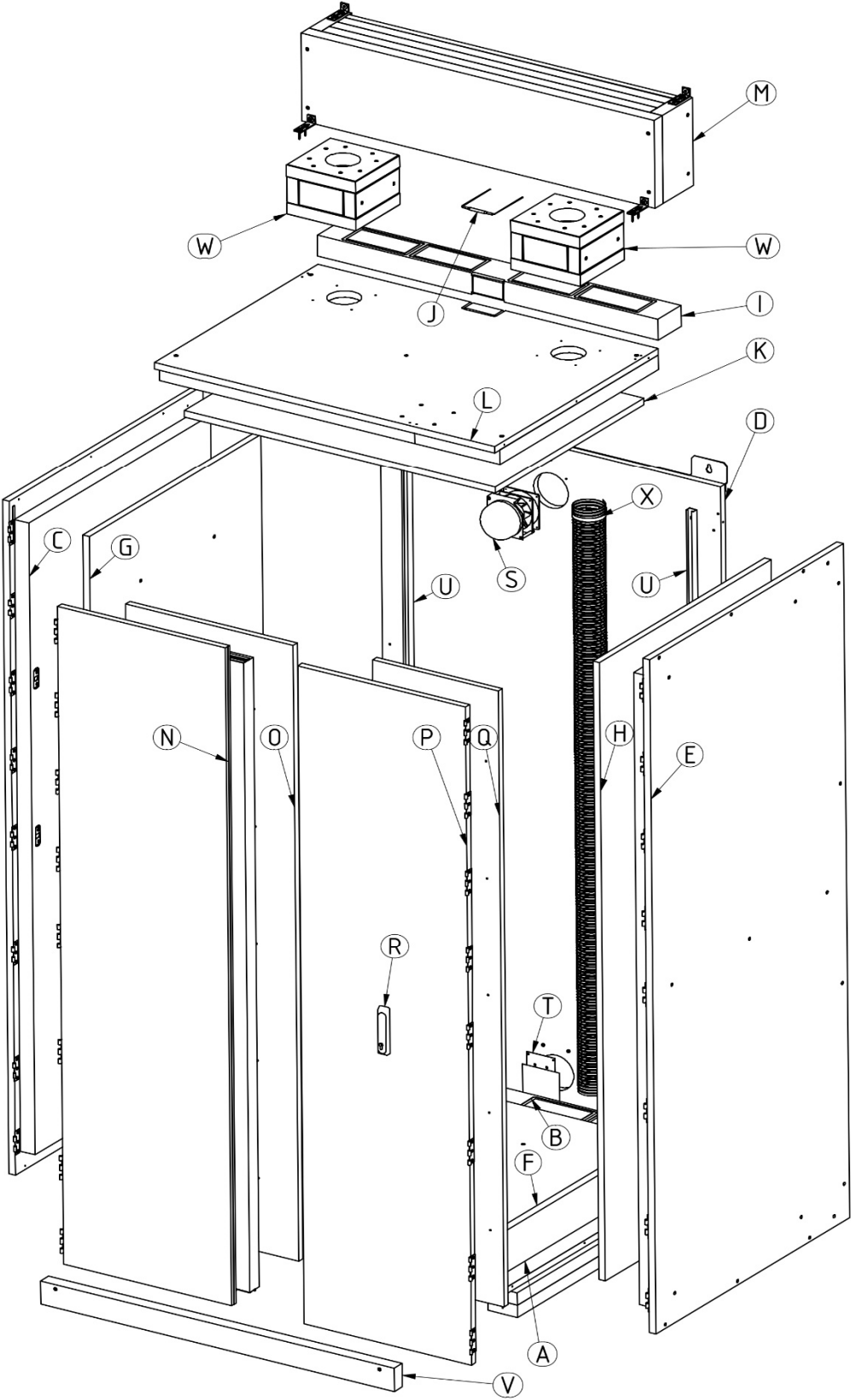


Figure 36., PRIOELEC ESL92 BIG-Line, with fire dampers, BSK-100

6.1 Table of components PRIOELEC ESL92 BIG-Line with BSK-100
- Partially assembled delivery

Position	Name	Position	Name
A	Floor element	O	Inner layer inactive leaf left
B	Cable feed-through	P	Inactive leaf right
C	Side element left	Q	Inner layer moving leaf right
D	Rear wall	R	Pivot lever
E	Side element right	S	Fan unit
F	Inner layer floor element	T	Ventilation flap
G	Inner layer side element right	U	C-rail
H	Inner layer side element left	V	Base cover
I	Cable feed-through	W	BSK-100
Y	Thermal fuse	X	Alu-Flex tube
K	Inner layer cover element		
L	Cover element		
M	Cable cooling duct		
N	Inactive leaf left		

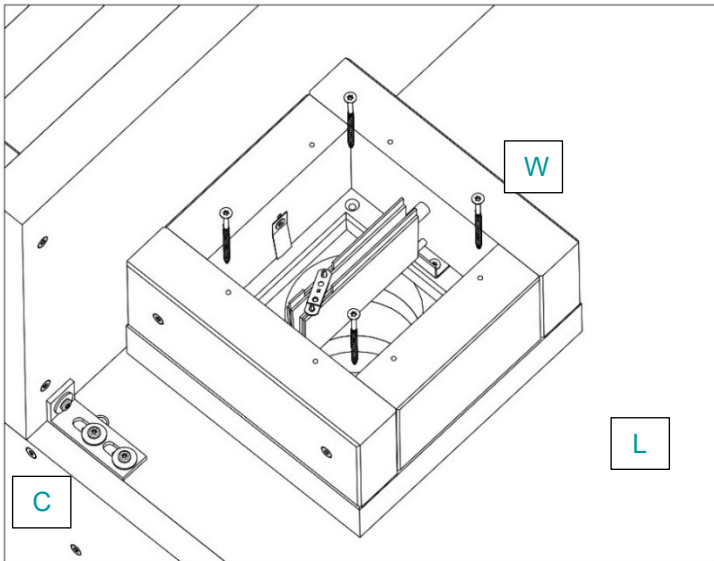
Figure 37, component list PRIOELEC ESL92 BIG-Line with BSK-100

7. Assembly ESL92 BIG-Line with BSK-100
- Partially assembled delivery

Installation steps 4.1 – 4.15 must be followed / Page 13

7.1 Installation of fire dampers; BSK-100

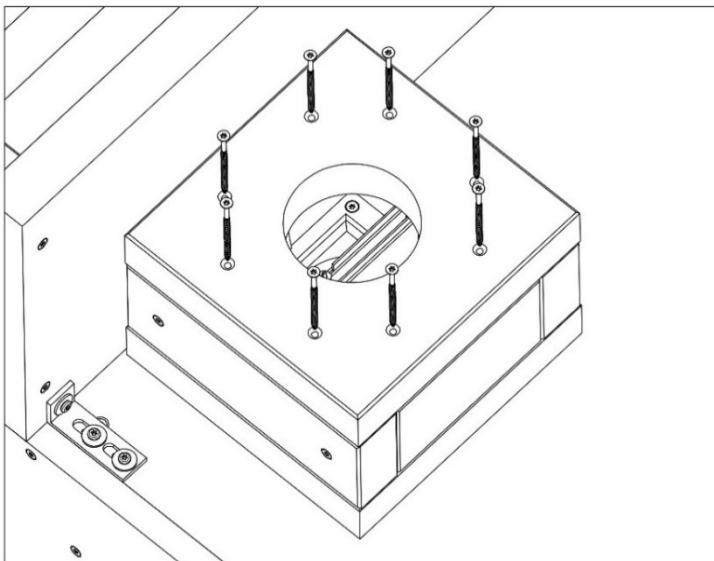
a)



- Position the BSK-100 (W) without the top cover on the cover element (L)
- the fusible link must not be damaged
- distance to the outer edge of the side element is 102 mm
- with 4.5 x 70 mm screws Bolt

Figure 38, Assembly of fire dampers; BSK-100; step a

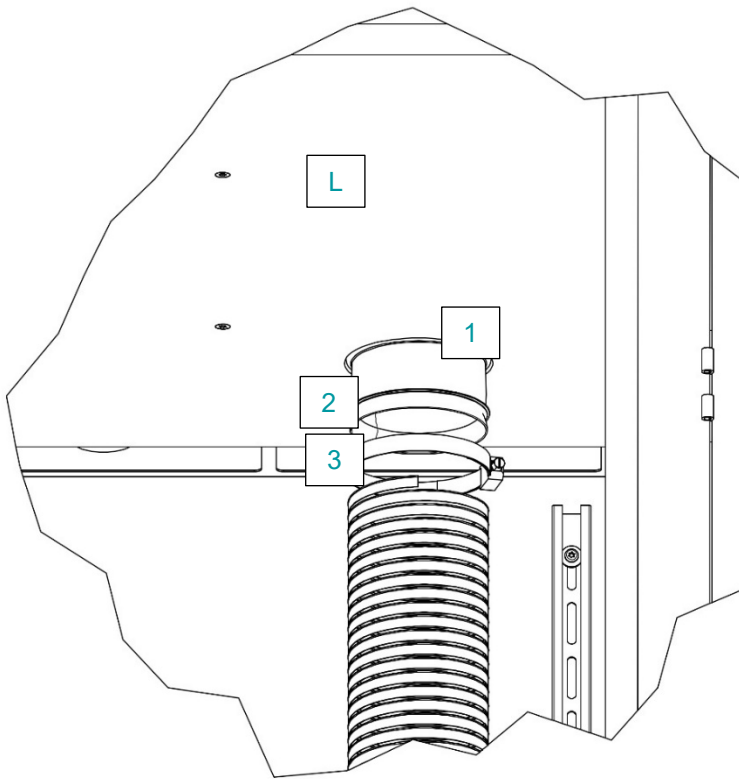
b)



- place the top cover and with 4.5 x 80 mm screws bolt

Figure 39, Assembly of fire dampers; BSK-100; step b

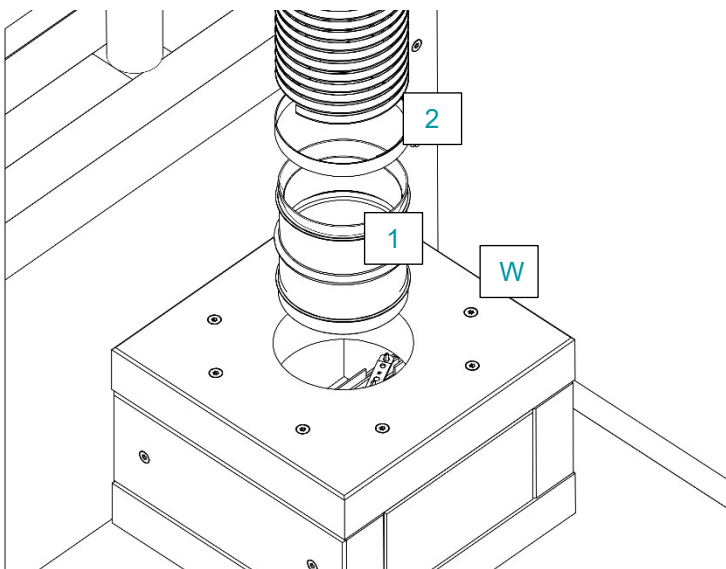
c)



- In the interior of the cabinet, insert the pipe connector (1) into the opening right of the top cover element (L)
- Push the pipe clip (2) onto the Alu-Flex pipe (3) and push it onto the pipe connector (1)
- Bolt the pipe clamp

Figure 40, Assembly of fire dampers; BSK-100; step c

7.2 Connecting the BSK-100 to an external ventilation system

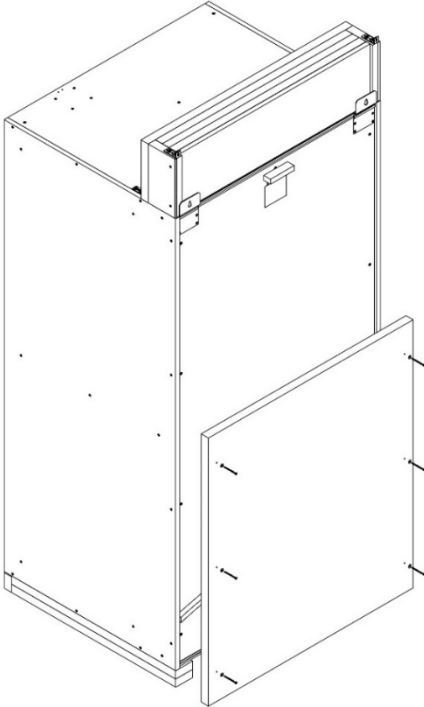


- Insert the pipe connector (1) into the opening of the BSK.-100 (W)
- Connect the external connection pipe D= 100 mm with a pipe clamp (2)

Figure 41, BSK-100 to an external ventilation system

8. PRIOELEC ESL92 BIG-Line, free-standing version - Delivery; with additional rear wall

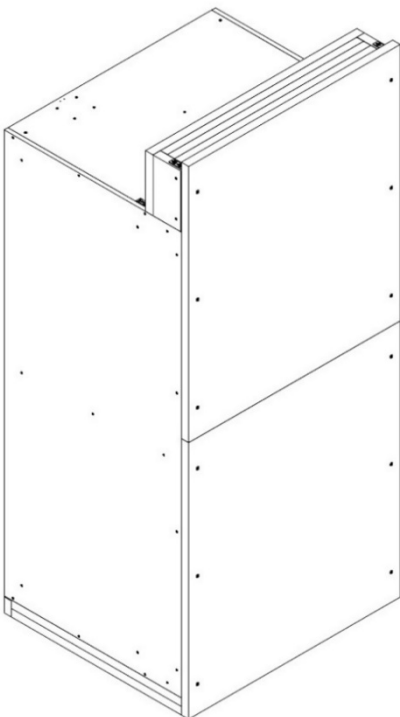
a)



- Position the bottom rear wall
- using a drill $D=3.5\text{ mm}$
- drill through the holes in the back wall
- Drilling depth max. 18 mm
- with $4.5 \times 55\text{ mm}$ screws bolt

Figure 42, Assembly of additional rear wall, step a

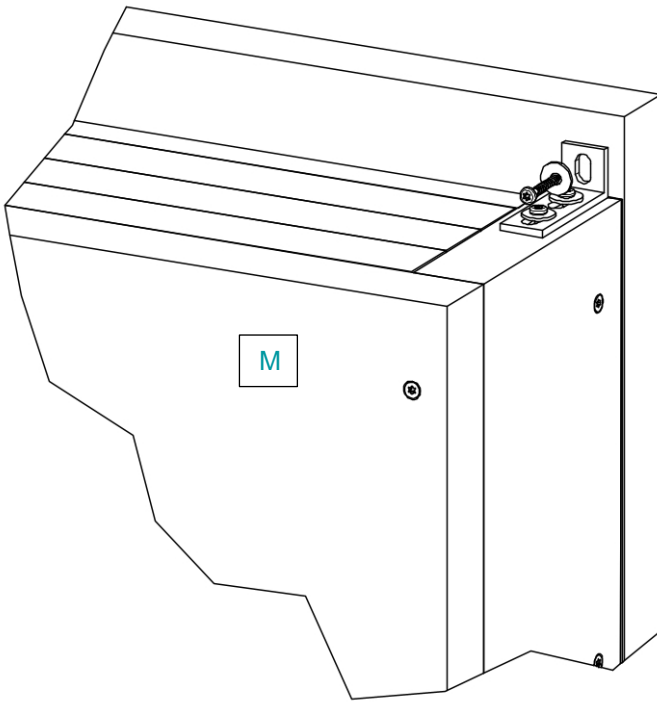
b)



- Position the top rear wall
- using a drill $D=3.5\text{ mm}$
- drill through the holes in the back wall
- Drilling depth max. 18 mm
- with $4.5 \times 55\text{ mm}$ screws bolt

Figure 43, Assembly of additional rear wall, step b

c)



- The EABK is screwed to the top rear wall through the Varifix bracket
- Panhead 4.5 x 35 mm screws with washers \varnothing 6.4
- Pre-drill the holes in the rear wall with a $D=35$ mm drill bit
- Drilling depth max. 30 mm

Figure 44, Assembly of additional rear wall, step c

9. Operation and maintenance PRIOELEC ESL92 BIG-Line

9.1 Opening and closing the door(s)

Open:

- Insert the key into the lock.
- Turn the key a quarter turn clockwise and pull out the swivelling lever.
- Turn the swivelling lever 180° anticlockwise upwards.
- Open the door.

Close:

- Close the door, making sure that the swivelling lever is in the open position.
- Press the door slightly and turn the swivelling lever 180° clockwise downwards.
- Allow the swivelling lever to audibly engage in the swivelling lever holder again.
- Remove the key.

9.2 Note on unhooking the doors

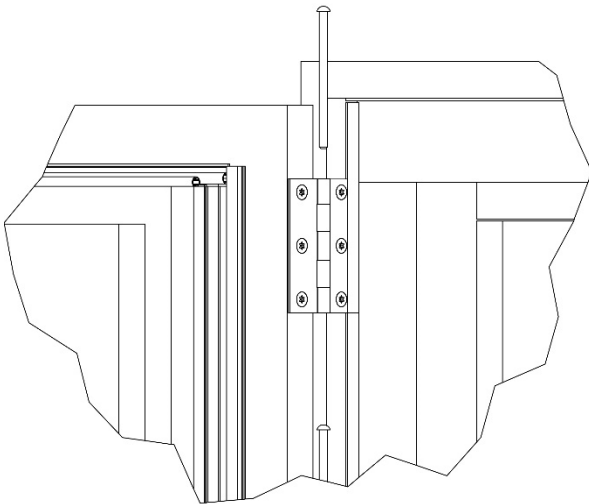


Figure 45, Note on unhooking the doors

- To unhook the doors, push the pin out of the hinges!
- For safety reasons, the door leaves should always be unhooked by at least 2-3 people. The weight of the door leaf can be up to 120 kg

9.3 Ventilation unit: EBEL-VENT-L230R2; technical specifications

Power supply	
Operating voltage	20...24...30 Vdc
Power consumption (operation / alarm)	0.44 A/0.014 A
Output	Max 11 W
Fan	
Speed	3100 rpm
Air flow	234 m ³ /h
Static pressure	9.14 mm H ₂ O
Noise level	48 dB(A)
Operating temperature	-10...70 °C
Thermal fuse	
Security level	77 °C
Output relay	
Contact load	Max 230 Vac /1 A 24 V/ 3 A

Smoke detector	
Type	SPD-3.1 M
Manufacturer	Arton UA
Light signalling	Red LED
Connection method	2-wire line
Power supply	10...30 Vdc
Monitoring current	95 uA
Electricity for alarm	6...30 mA
Average life	10 years
Degree of protection	IP32
Operating temperature	-30...+55 °C
Compliance with standards	EN 54-7

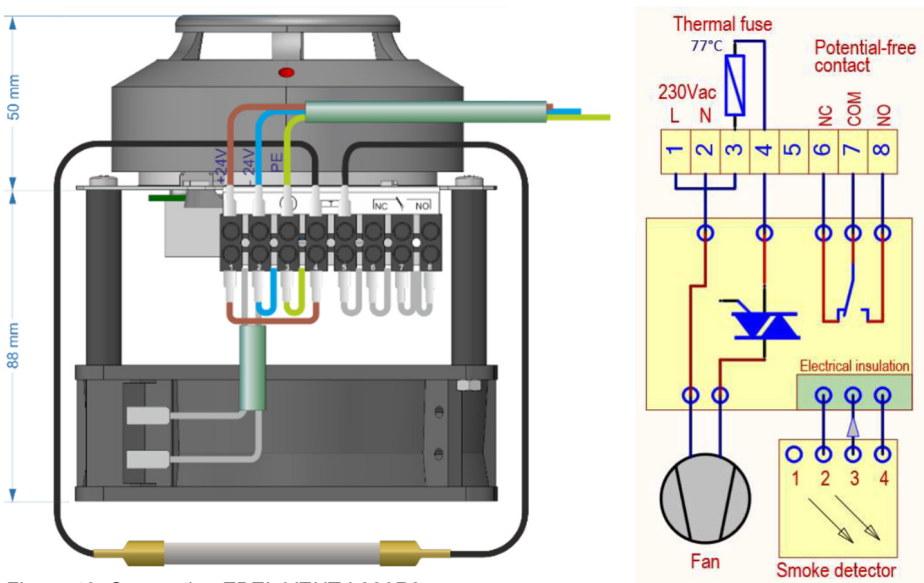


Figure 46, Connection EBEL-VENT-L230R2

9.4 Wiring diagram EBEL-VENT-L230R2

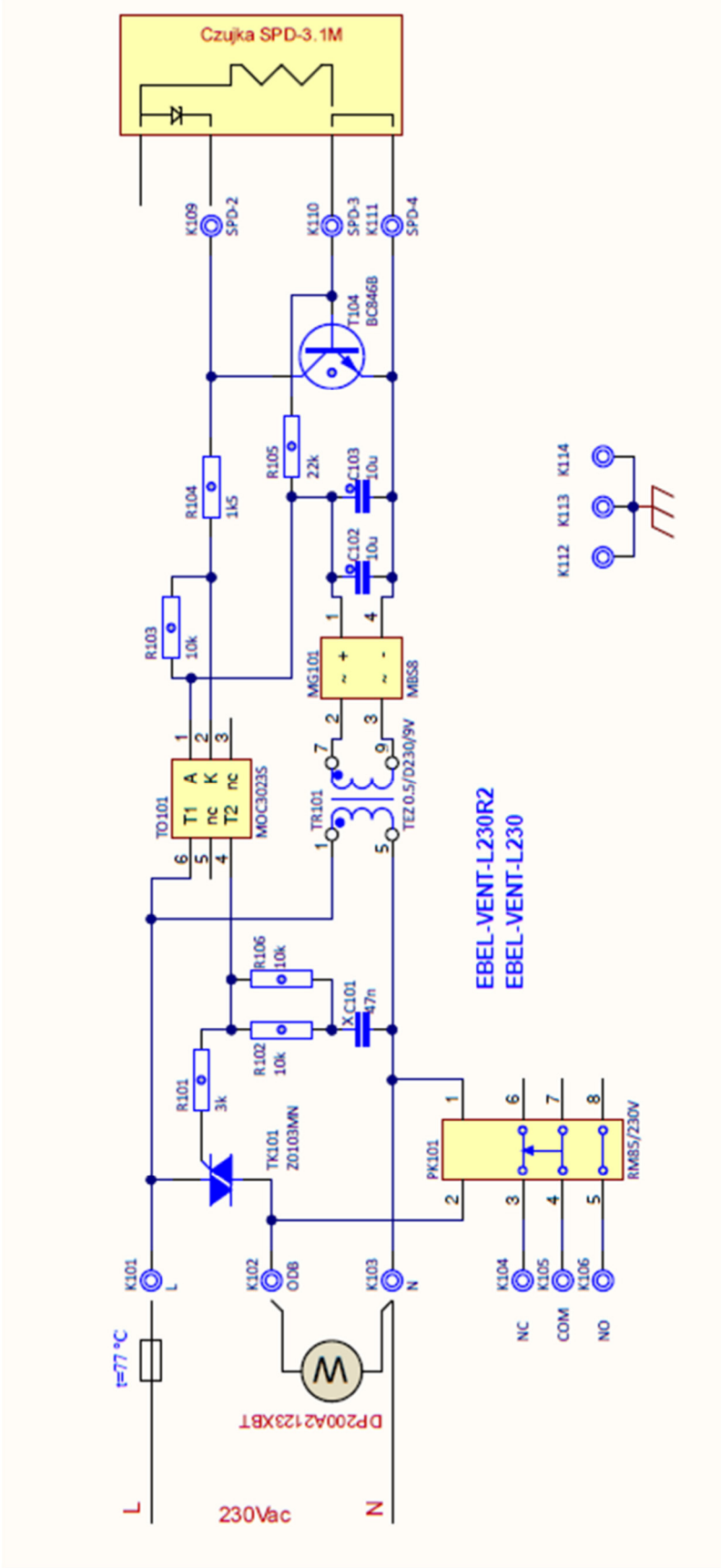


Figure 47, Wiring diagram EBEL-VENT-L230R2

9.5 Functional test, safety check, care and maintenance

- The fire protection enclosure should be maintained at least once annually and checked for proper function. We recommend that you complete a functional check (visual inspection). The safety check can only be carried out with the necessary level of care and attention by a qualified employee, as sufficient experience and a comprehensive level of knowledge are indispensable for this.
- Commonly available, mild household cleaners can be used for external cleaning of the fire protection enclosure.
- The door locking mechanism should be oiled 2 x per year.
- The fire protection enclosure must be protected against water, moisture penetration, or water spray.
- The smoke detector has to be checked at least once a year
- If safety-relevant damage is detected, the fire protection enclosures must be repaired with original parts before further use.
- The function of the ventilation system must be checked at least twice a year.

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