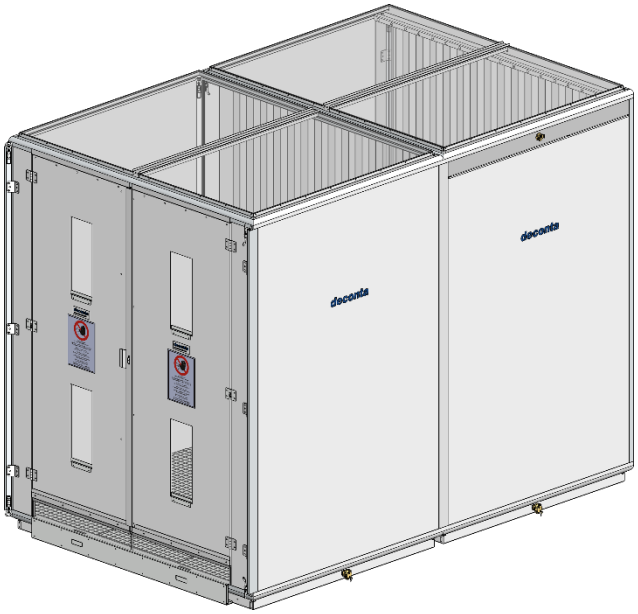
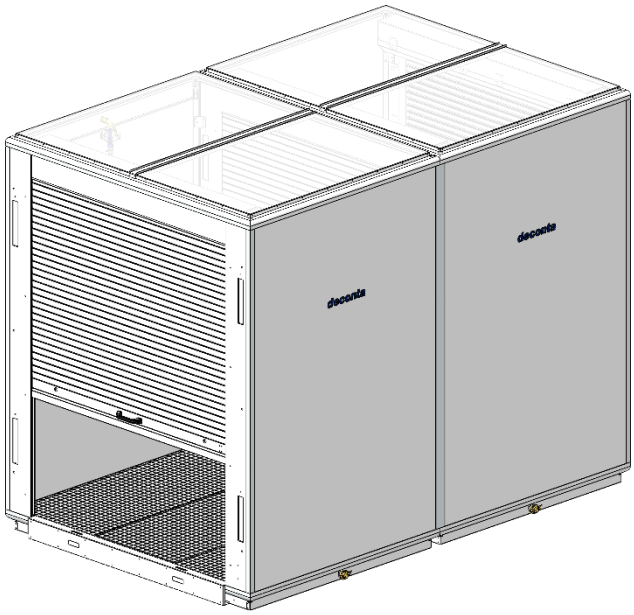
Operating Instructions (Original)
ECO-NEXT Material Lock





CE	deconta GmbH Im Geer 20 46419 Isselburg	Telephone: 02874/9156-0 Email: info@deconta.com Web: www.deconta.com	Language: DEU Version: 1 Release date: 06.10.2026

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1 Product and manufacturer

1.1 Product

This operating manual describes the following product:

ECO-NEXT material lock

1.2 Manufacturer

Name and address	deconta GmbH Im Geer 20 46419 Isselburg
Telephone	02874/9156-0
Email	info@deconta.com
Website	www.deconta.com

1.3 Change index

Date	Version	Change	Responsible
04/05/2026	1	Created	Thomas Boland

2 About this operating manual

To ensure the lock is used correctly and safely, follow the descriptions and recommendations in this operating manual.

Keep this operating manual for future reference until the lock has been disposed of.

2.1 Purpose

This operating manual contains information on the safe, trouble-free and economical use of the lock.

This information is intended for persons who carry out tasks with or in connection with the lock.

2.2 Availability

The operator shall make this operating manual or extracts thereof available to persons who carry out tasks with or in connection with the lock.

The operator shall keep this operating manual or extracts thereof readily available in the immediate vicinity of the lock.

When handing over the lock to another person, the operator shall pass these operating instructions on to that person.

2.3 Warnings

These operating instructions may contain warnings regarding residual hazards.

The classification of the warning notices is based on the severity of the damage that may occur if the warning notices are disregarded and the recommended actions are not followed.

2.3.1 Signal words and signal colours

Warnings are introduced with one of the following signal words and marked with a corresponding signal colour.

Signal word	Meaning	Signal colour
DANGER	Consequences of non-compliance: Death or serious injury.	⚠ GEFAHR
WARNING	Consequences of non-compliance: Death or serious injury possible.	⚠ WARNUNG
CAUTION	Consequences of non-compliance: Serious or minor injuries possible.	⚠ VORSICHT
NOTE	Consequences of non-compliance: Property damage or environmental damage possible.	HINWEIS
SAFE PROCEDURE	Follow the instructions below.	-

2.3.2 Structure

Warning notices are structured in accordance with the SAFE method:

S	Signal word (DANGER; WARNING, CAUTION or NOTE)
A	Type and source of the hazard Description of the hazard and its cause
F	Consequence Description of the potential consequences for humans, animals and the environment that may result from the hazard
E	Escape Recommendations on how to avoid hazards

2.4 Symbols

The following symbols are used in these operating instructions.

2.4.1 Warning symbol

The warning symbol is a safety symbol that warns of a risk or hazard.

The table below provides an overview of the warning symbols used and their meanings.

Symbol	Meaning	Symbol	Meaning
	General warning sign		

2.4.2 Instruction sign

An instruction sign is a safety sign that prescribes a specific behaviour.

The table below provides an overview of the instruction signs used and their meanings.

Symbol	Meaning	Symbol	Meaning
	Wear safety footwear		Use protective clothing

3 Description

This section contains information to help you understand the airlock.

3.1 General description

General description of the product

The airlock was designed and manufactured by deconta GmbH, Im Geer 20, 46419 Isselburg.

During remediation work in enclosed spaces, it is essential to prevent pollutants from leaving the remediation area uncontrolled and thus posing a risk to people and the environment.
For this reason, remediation areas are separated from the contaminant-free areas and maintained under dynamic negative pressure using negative pressure containment devices.
The ECO-NEXT material airlock enables materials to be brought in and out, as well as cleaned, without endangering the surrounding area.
The airlock is designed according to a modular system and can be adapted to almost any requirement. Interchangeable roof and floor elements also allow the existing system to be expanded at a later date and existing parts to continue to be used. Expansion with any number of chambers is possible at any time.

3.2 Scope of delivery

The scope of delivery for the airlock includes the following items:

- Material airlock, number and size of chambers depending on the model
- Operating instructions

3.3 Return of goods upon completion of a hire

To protect our customers and in accordance with dangerous goods transport regulations, we must insist on the following return conditions:

- As listed above
- Thoroughly cleaned (ready for use)
- Free from any adhesive residue
- No residual fibres
- Free from damage

3.4 Operating modes

3.4.1 Available operating modes

Type of use

The lock is intended exclusively for use in the following types of use.

Use for other purposes is not in accordance with the intended use.

User groups

- Commercial users

Environment

- Outdoors
- on covered areas
- in fully enclosed rooms

4 Technical data

4.1 Dimensions Model 900

	Length x Width x Height (mm)
2-chamber	1800 x 1800 x 2196

4.2 Dimensions Model 1400

	Length x width x height (mm)
2-compartment	2800 x 1800 x 2196

4.3 Weights Model 900 with hinged doors

	Weight (kg) without transport device
2-chamber	approx. 300

4.4 Weights for Model 1400 with hinged doors

	Weight (kg) without transport device
2-chamber	approx. 370

4.5 Weights for Model 900 with roller doors

	Weight (kg) without transport device
2-chamber	approx. 380

4.6 Weights for Model 1400 with roller doors

	Weight (kg) without transport device
2-chamber	approx. 430

4.7 Water connections

Fresh water connection (on wall unit) Geka ½”

Wastewater connection (on the floor unit) Geka ¾”

5 Safety

This section contains information on the protection of people, pets and livestock, and the environment.

5.1 Intended use

The airlock is intended exclusively for the following use:

Intended use

During remediation work in enclosed spaces, it is essential to prevent pollutants from leaving the remediation area uncontrolled and thus posing a risk to people and the environment.
For this reason, remediation areas are separated from contaminant-free areas and maintained under dynamic negative pressure using negative pressure containment devices. The ECO-NEXT material airlock enables the transfer of materials in and out, as well as their cleaning, without endangering the surrounding area.

The user must adhere to the specified operating parameters in the operating instructions.
The airlock must only be used for its intended purpose. Any other use beyond this is not in accordance with the intended purpose. The user is liable for any damage or injury of any kind resulting therefrom.

5.2 Misuse

Use of the airlock for the following purposes is not permitted:

Reasonably foreseeable misuse

- Any use other than that described in the operating instructions
- Any use other than that described under "Intended use" Use of the lock without the manufacturer’s written consent
- Operation outside the technical operating limits
- Unauthorised modifications, alterations or tampering
- Use, installation, operation, maintenance or repair in any manner other than that described
- Work carried out by unqualified personnel
- Use of unsuitable or incompatible materials, operating or auxiliary materials, or accessories
- Failure to comply with safety and operating instructions, occupational health and safety or accident prevention regulations, or relevant statutory provisions
- Failure to rectify faults that may compromise safety in a timely manner
- Use of spare parts or accessories other than original ones, which are not equivalent in quality and function
- Operating the airlock in a technically unsound condition, without due regard for safety and hazards, and without observing all instructions in the documentation
- The use of the airlock in potentially explosive atmospheres

5.3 Health and safety information

The operator of the airlock is responsible for fulfilling occupational health and safety obligations. The occupational health and safety regulations of the country in which the airlock is used apply.

These obligations include, among other things, the following points:

- Provide this operating manual or extracts from it to persons who carry out tasks involving or in connection with the airlock
- Provide these persons with the relevant documentation
- Instruct these persons on the intended use and misuse
- Instruct these persons on safety devices and supplementary safety devices
- Instruct these persons regarding residual risks

This list is not exhaustive and does not claim to be complete.

6 Transport

This section contains information on the transport of the airlock.

Transport refers to the movement of the airlock by manual or mechanical means.

6.1 Loss of warranty claims

The manufacturer's warranty shall lapse in the following cases:

- If modifications are made to the airlock without the manufacturer's consent
- If the transport is not carried out correctly

6.2 Transport

6.2.1 Transport

This involves transporting the airlock from one location to another.

6.2.2 Legal requirements

The airlock is transported in accordance with the legal regulations of the country in which it is being transported.

6.2.3 Staff qualifications

Persons transporting the airlock must meet the following requirements:

Person	Required qualification
Freight forwarder	Completed training in transport and experience in transport
Logistics specialist	Completed training and experience in transport

6.2.4 Warning of residual risks

Risk of crushing: Wear safety footwear to protect against limbs being run over.

6.2.5 Means of transport

For safe transport, a means of transport is required that meets the following requirements:

- The load capacity must be sufficient to safely support the weight of the airlock.
- The size of the loading area must be such that the airlock can be safely positioned on the loading area without falling off.

The airlock may fall due to unintended movement during loading and unloading onto or from a means of transport.

7 Installation

This section contains information on the safe installation of the airlock.

Do not put the airlock into operation if there is visible damage. Contact deconta GmbH immediately.

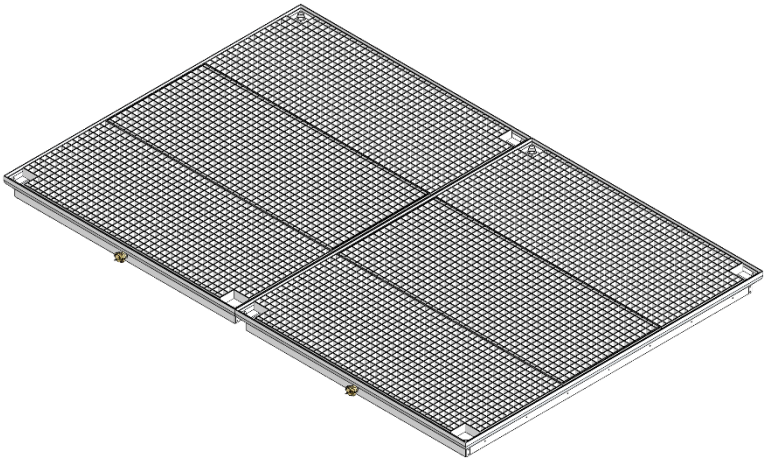
7.1 Preparation

Before installing the airlock:

- determine the exact location and floor plan
- The surface must be level and clean

7.2 Installation of a 2-chamber airlock with swing doors

Align the floor elements flat against one another.

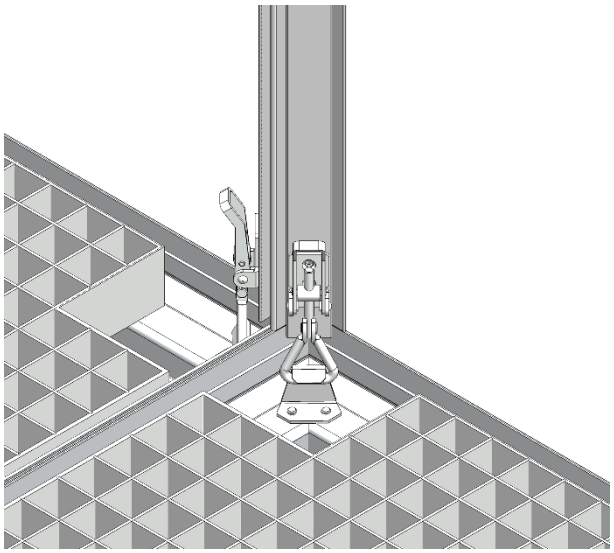


HINWEIS	The Geka wastewater connection on the base units should be routed along the shortest possible path to the wastewater filter system to avoid unnecessary hose lengths. The mounting brackets on the floor tray must be cleaned before inserting the door and side elements!

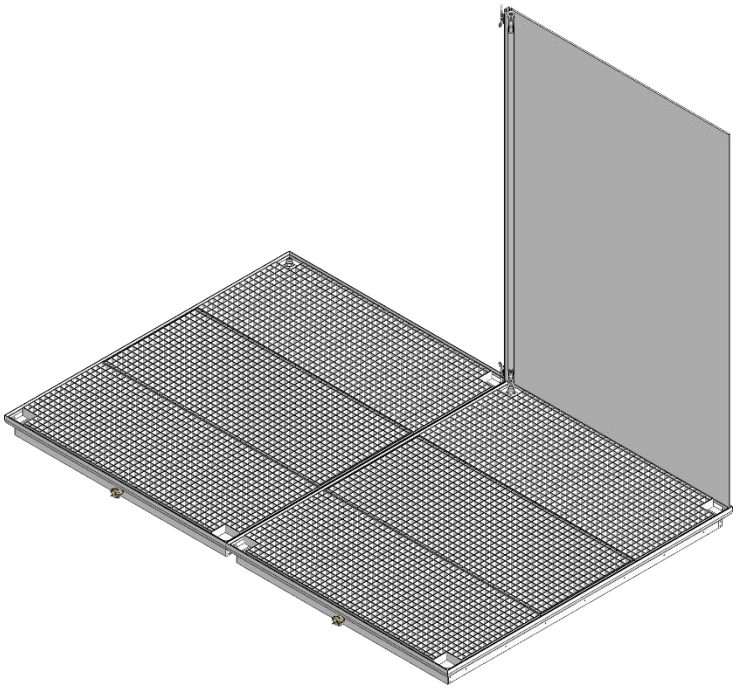
Load-bearing capacity of individual floor elements: max. 1000 kg

HINWEIS	Two different corner profiles are used in the ECO-NEXT airlock. A double corner profile at the junction of two floor or roof elements and a single corner profile at the corners.

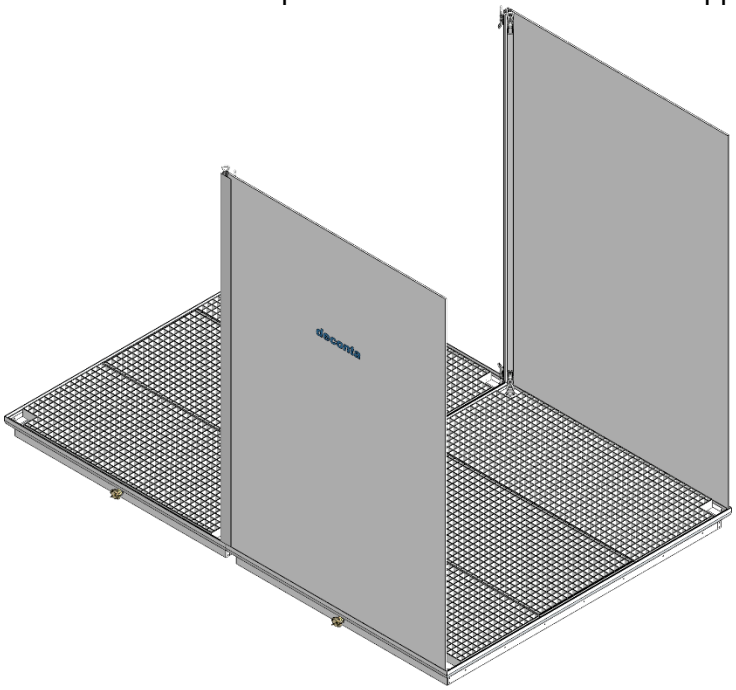
Insert a double corner profile into the mounting brackets at the junction of two floor elements and secure the quick-release fasteners attached to the ends of the corner profiles to the floor elements.



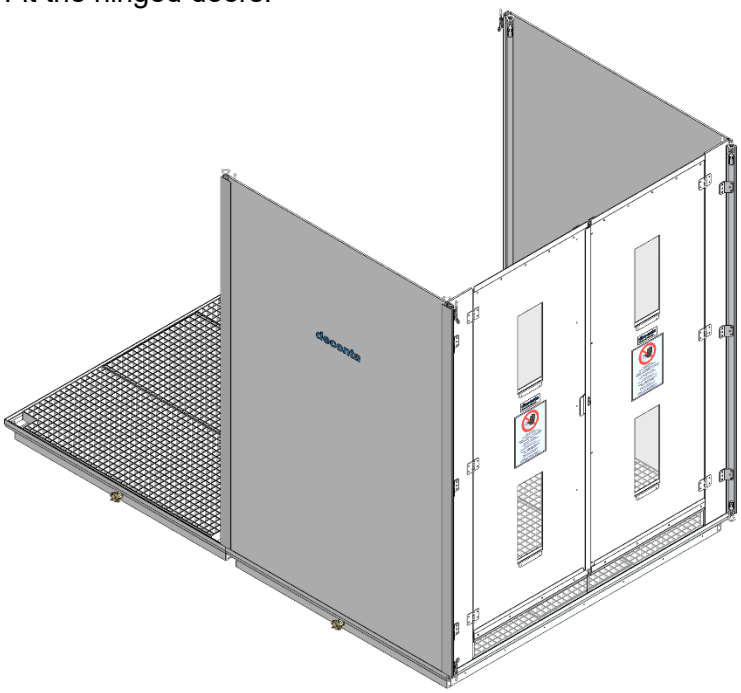
Insert the wall element into the mounting brackets of the floor element and the corner profile.



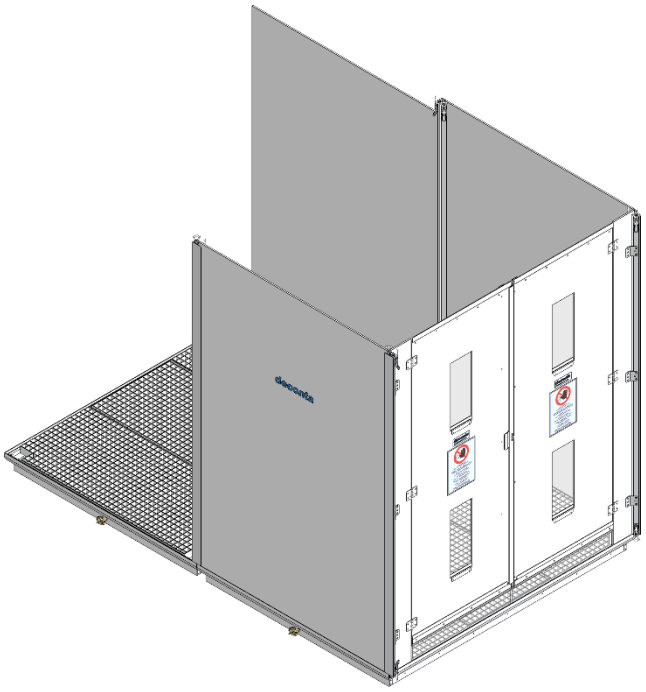
Fit the double corner profile and wall element on the opposite side.

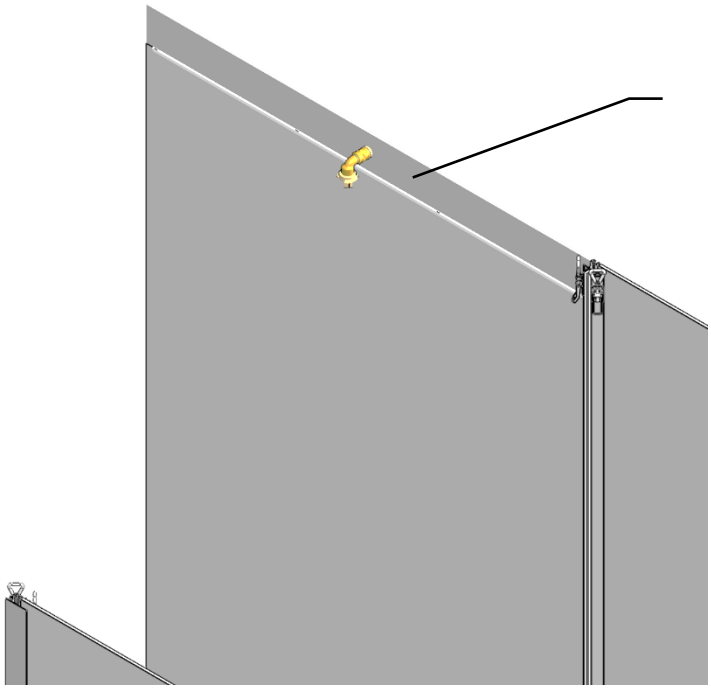


Fit the hinged doors.

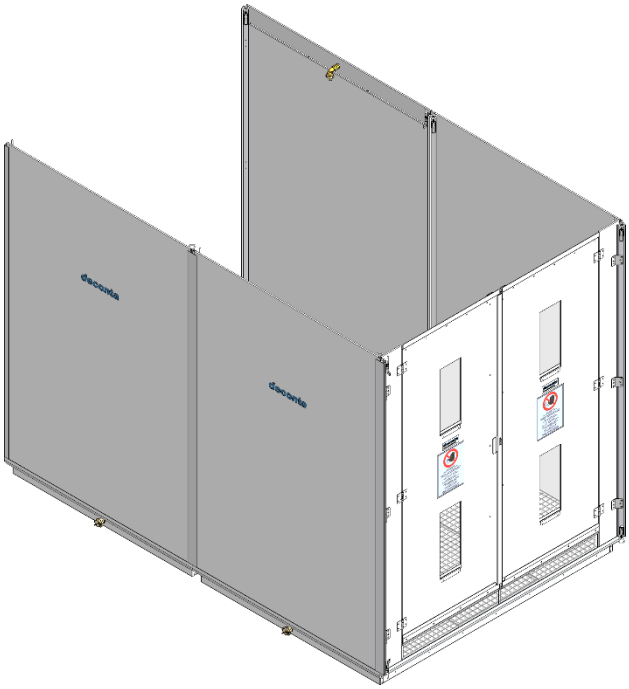


For the wet area, there is a lower wall element onto which the wall element with shower connection is fitted.

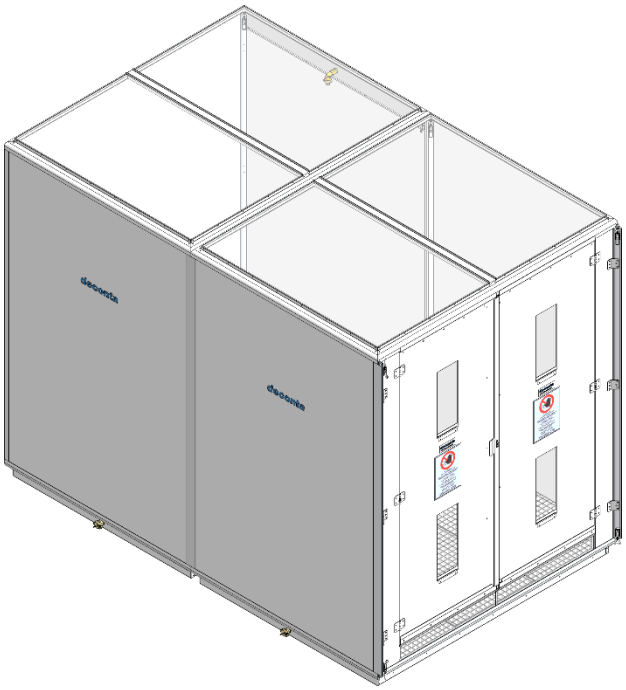




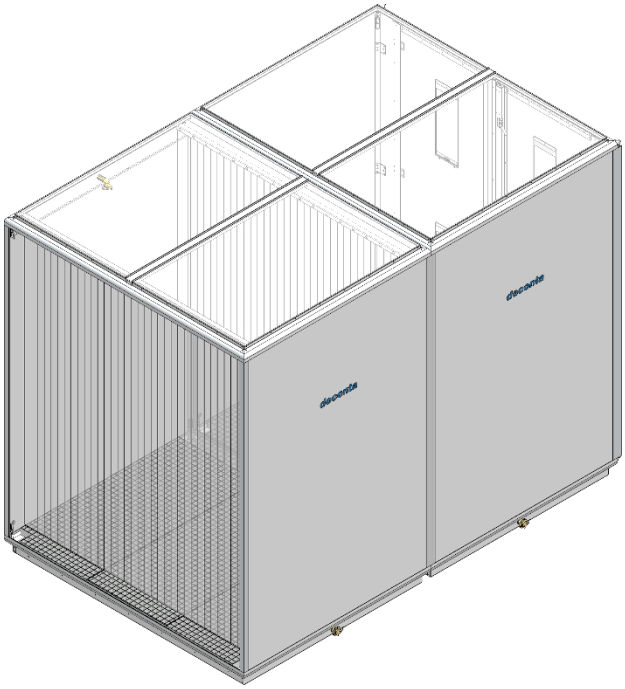
Install the remaining wall elements and corner profiles.



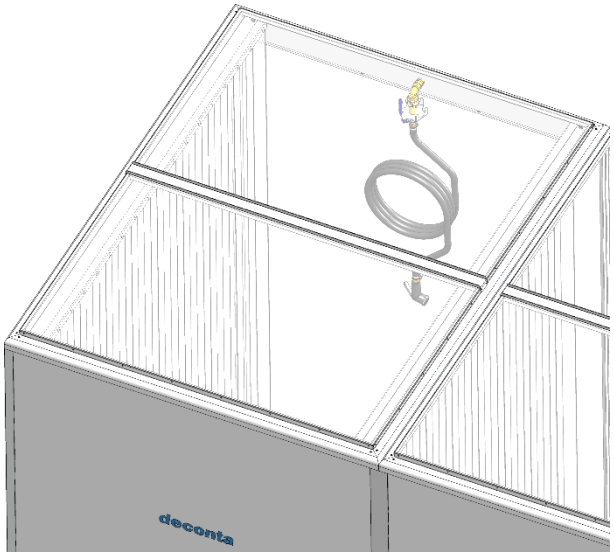
Place the roof elements in position and secure each one at the four corners using the tension fasteners.



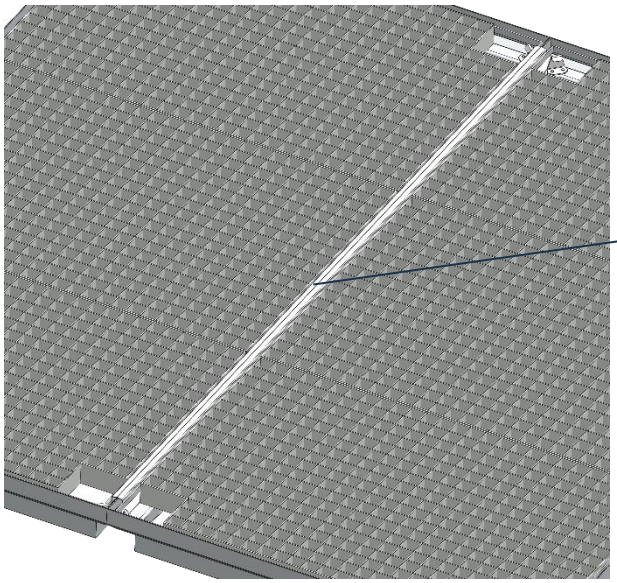
Fit the slatted curtains (‘flaps’). These are clamped in place using wing screws.



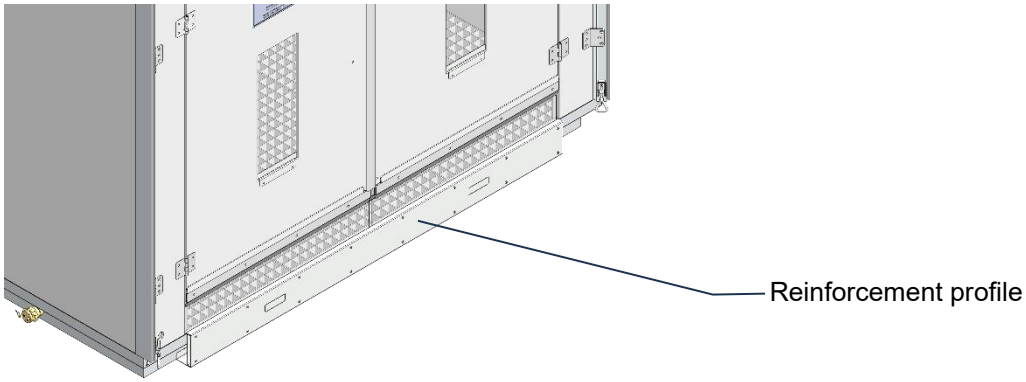
Fit the shower unit.



Place the connecting profile where two floor elements meet. This prevents water from leaking out of the airlock.

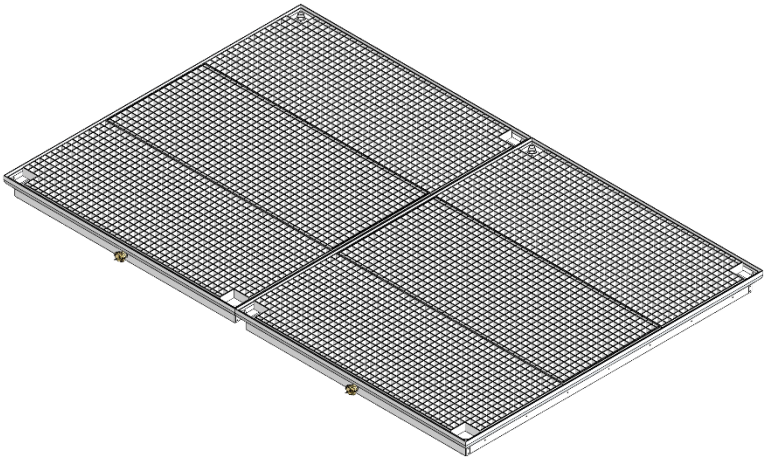


To prevent damage to the outer edge, fit the reinforcement profile.



7.3 Construction of a 2-chamber airlock with roller doors

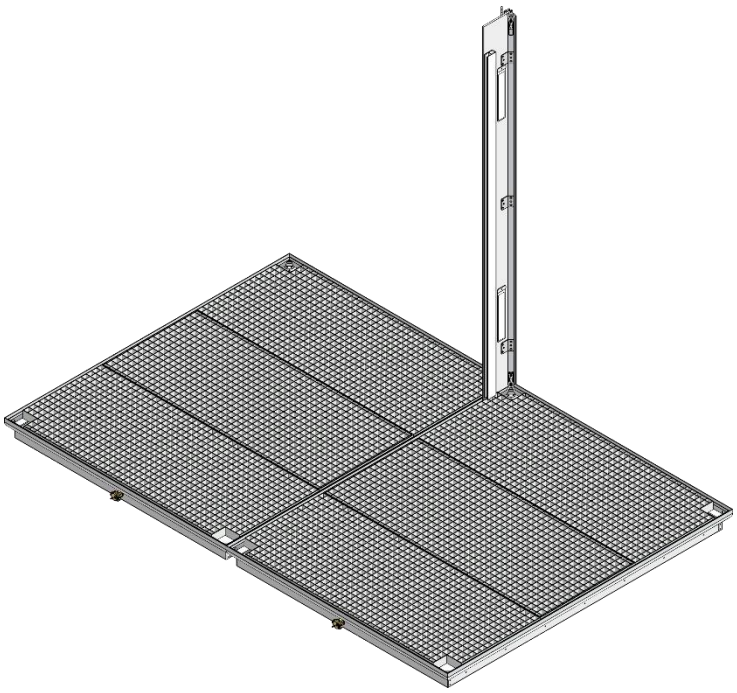
Align the floor elements flush with one another.



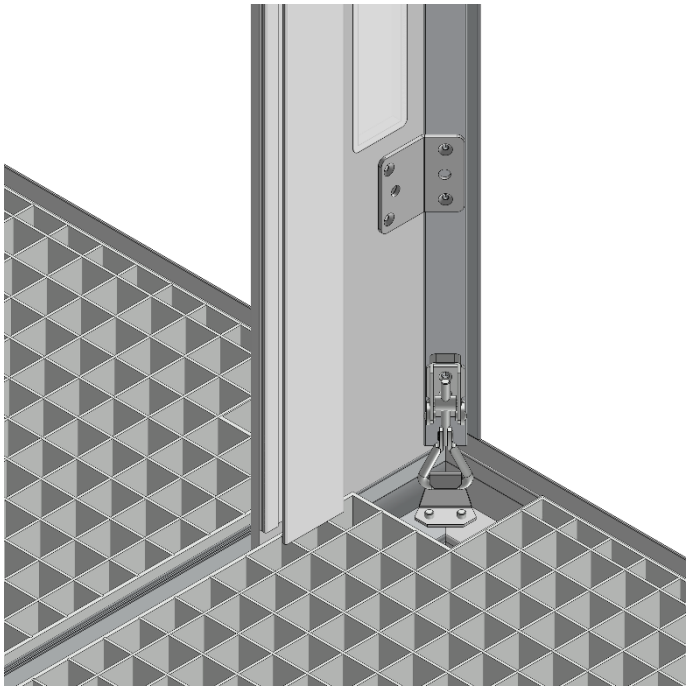
HINWEIS	The Geka wastewater connection on the floor elements should be routed via the shortest route to the wastewater filter system to avoid unnecessary hoses. Clean the mounting brackets on the floor pan before inserting the door and side elements!

Load-bearing capacity of the individual floor elements: max. 1000 kg

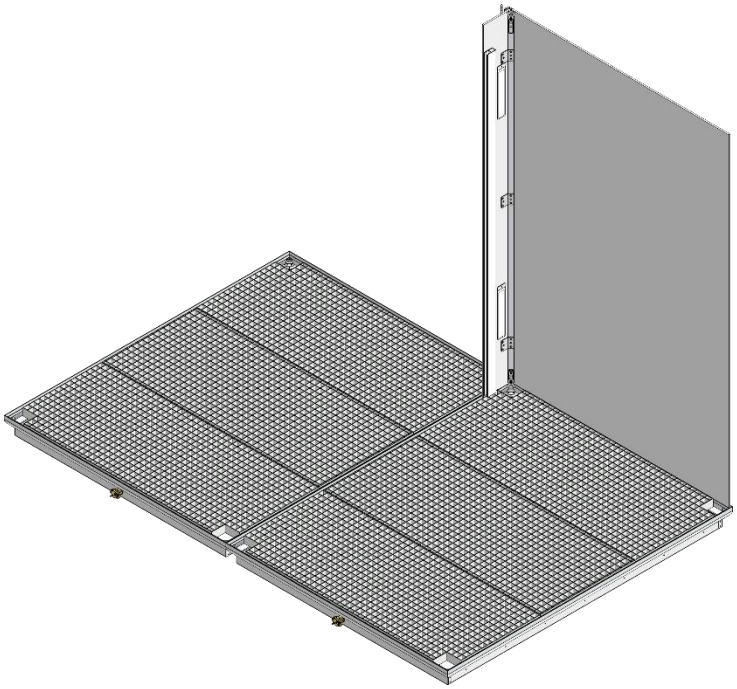
HINWEIS	Two different corner profiles are used in the ECO-NEXT airlock. A double corner profile at the junction of two floor or roof elements and a single corner profile at the corners.



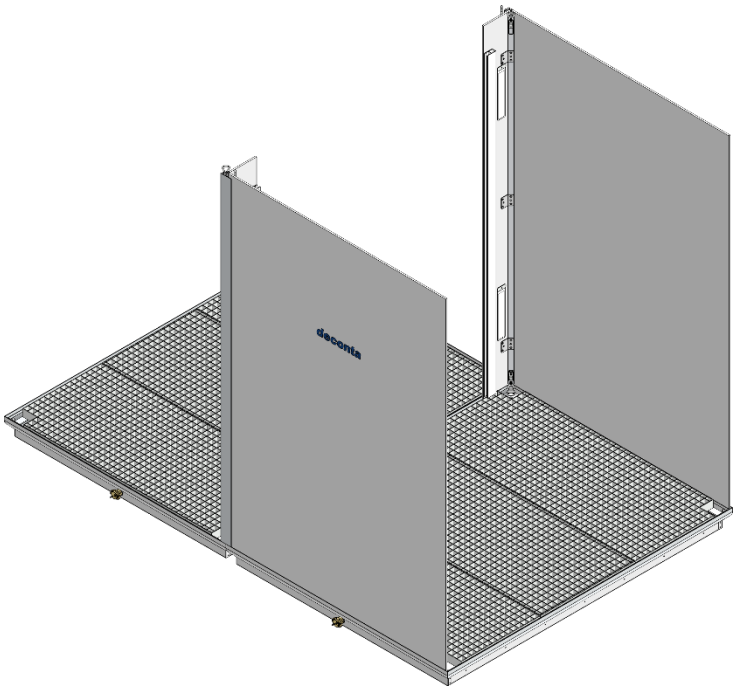
Insert a double corner profile with pre-mounted roller door guide into the mounting brackets at the junction of two floor elements and secure the quick-release fasteners attached to the ends of the corner profiles to the floor elements.



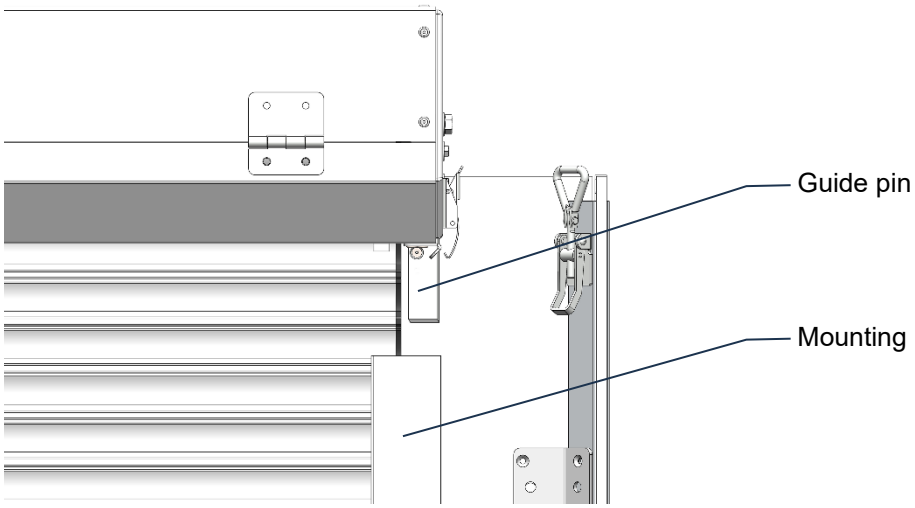
Insert the wall element into the mounting brackets of the floor element and the corner profile.

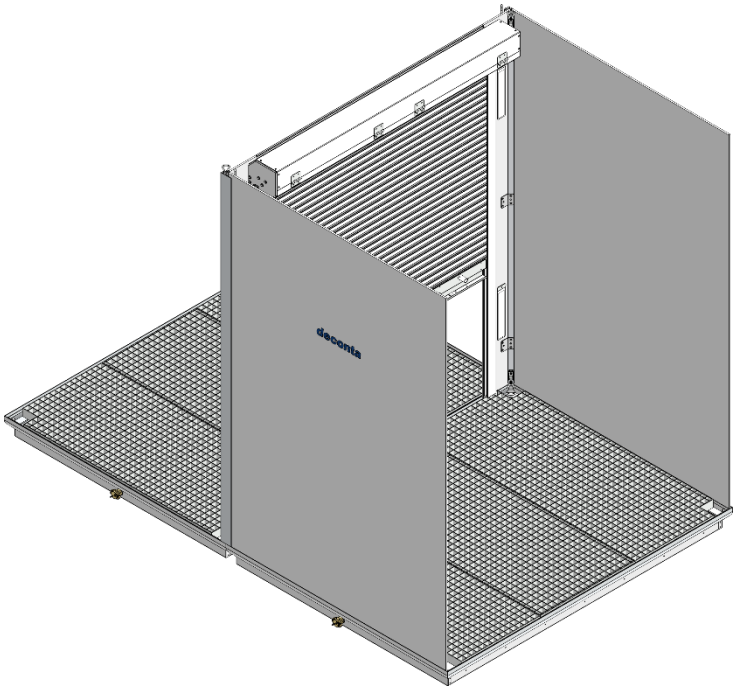


Fit the corner profile with pre-assembled roller door guide and the wall element on the opposite side.

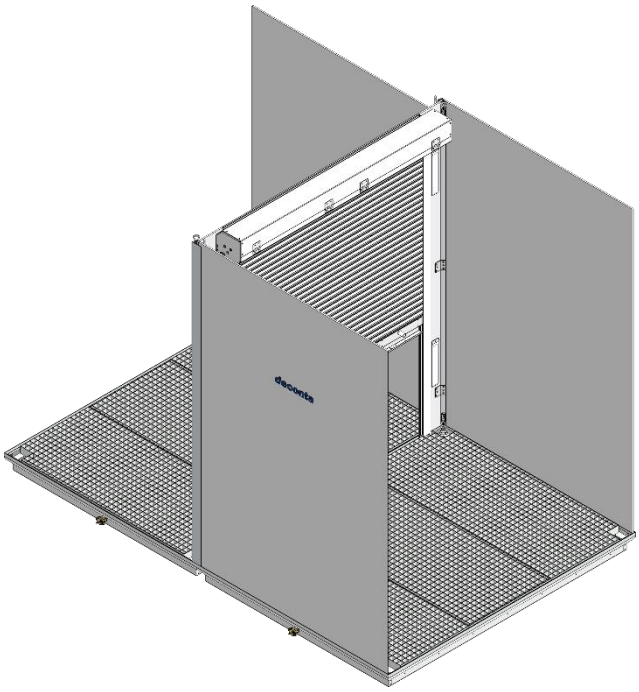


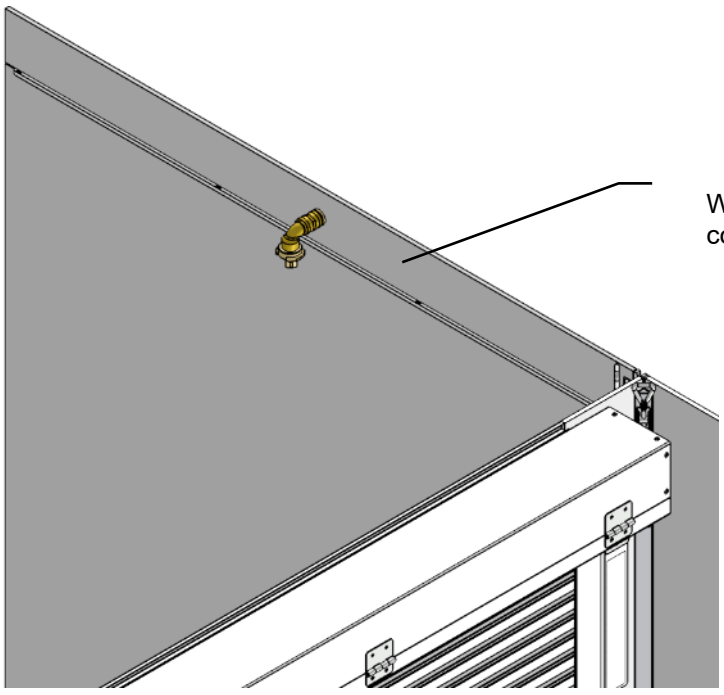
Insert the guide pins of the roller door into the guides.



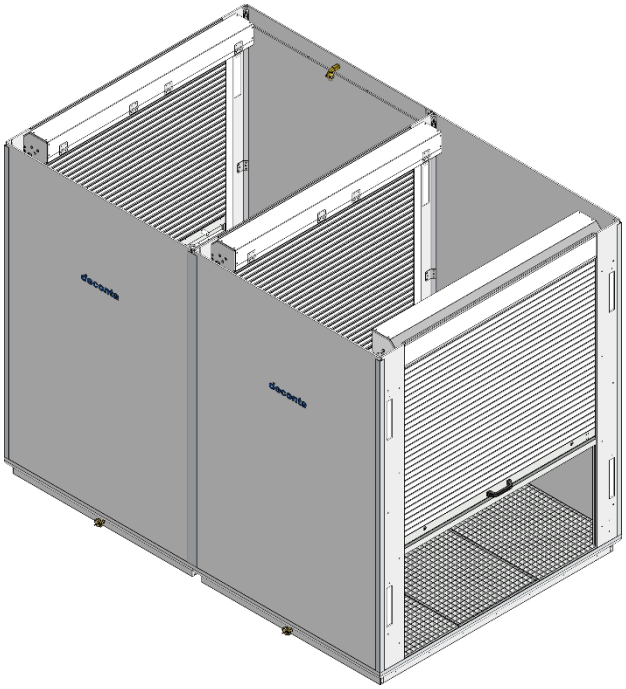


For wet areas, there is a lower wall element onto which the wall element with the shower connection is fitted.

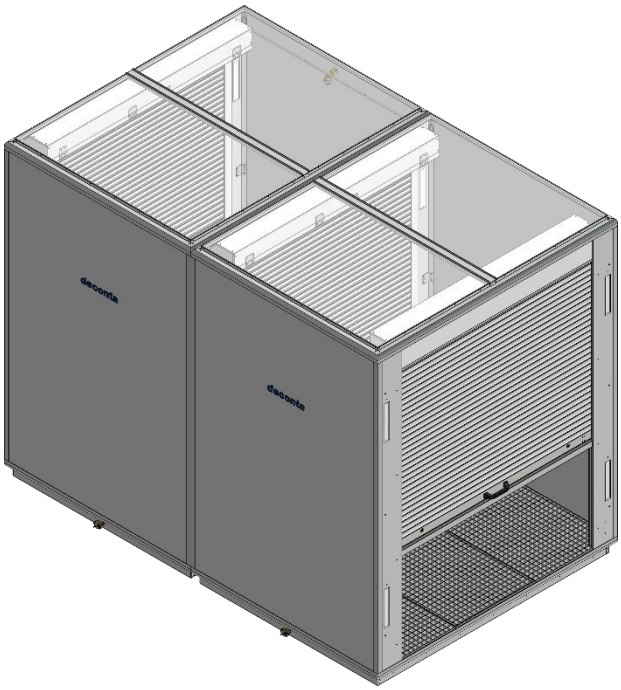




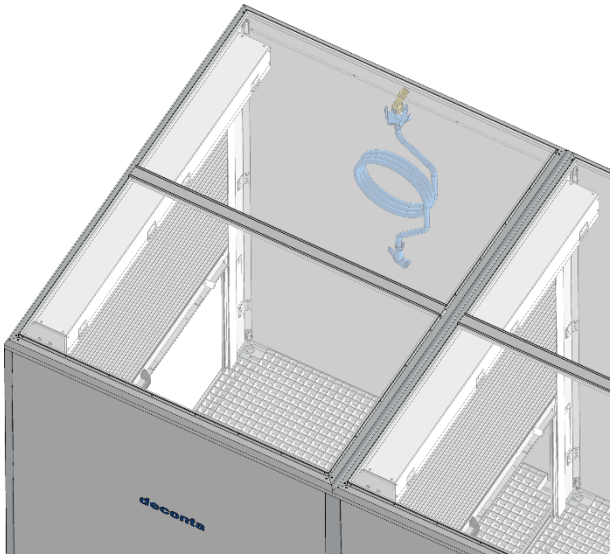
Fit the remaining wall elements and the pre-assembled roller door guides.



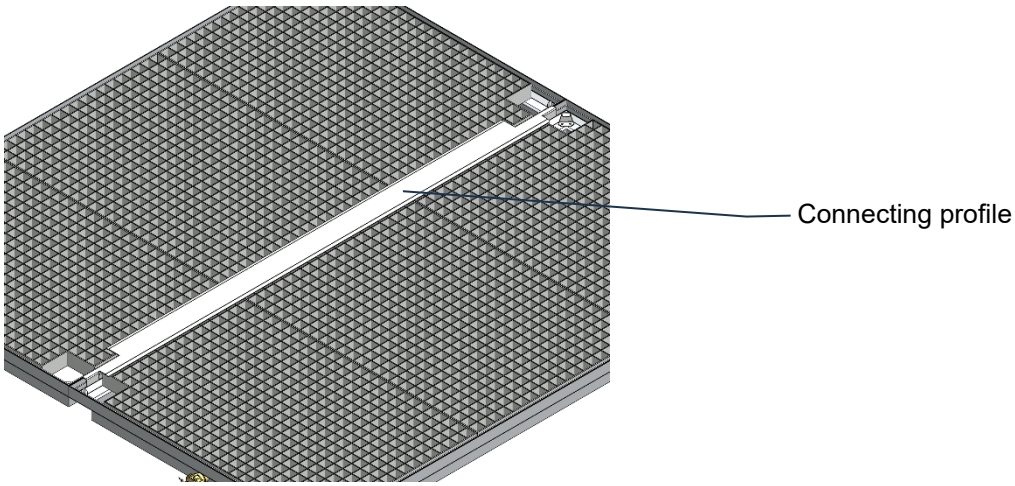
Place the roof elements in position and secure each one at the four corners using the clamping fasteners.



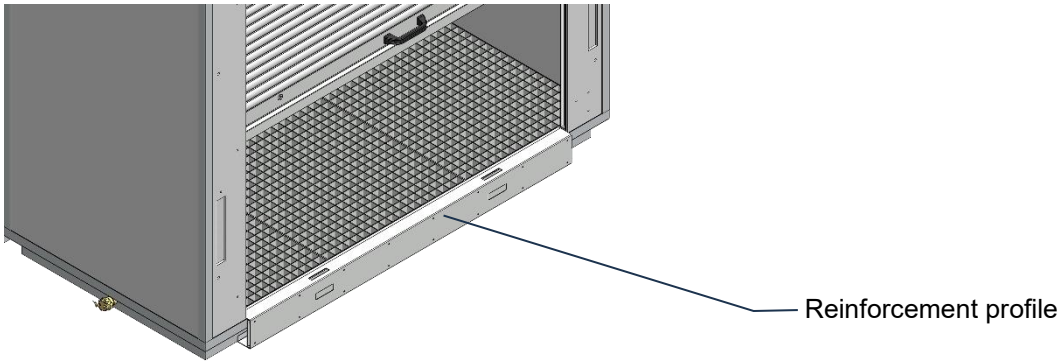
Fit the shower unit.



Where two floor panels meet, place a connecting profile over the joint. This prevents water from leaking out of the shower enclosure.



To prevent damage to the outer edge, fit the reinforcement profile.

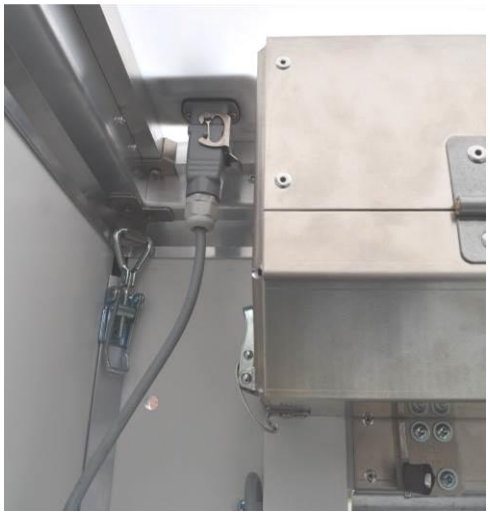


8 Commissioning with forced interlock (optional)

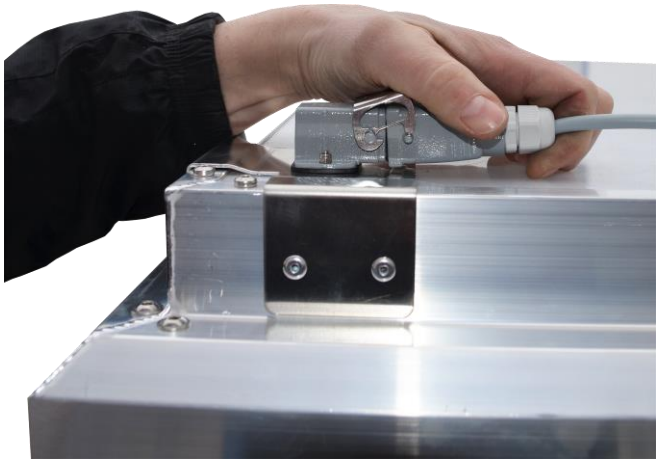
The control system for the optional forced interlock ensures that two roller doors can never be opened at the same time.

Assemble the interlock as described in point 7.

Connect the cables from the three roller door guides to the connectors in the roof element from the inside.



Connect the supplied electrical cables to the three terminals on the outside of the roof (where the plugs are also connected from the inside) and connect them to the interlock control unit. It does not matter in which order the three plugs are connected to the control unit.



Set the key switch on the front of the control unit to position “I”. The interlock control is now active.

The roller shutters are fitted with an emergency stop switch. In an emergency, pressing this switch unlocks the roller shutters. An audible signal sounds.

9 Commissioning with MZA 30 (optional)

See the separate operating instructions for the MZA 30 material airlock control unit.

I

10 Commissioning with electric roller doors (optional)

The ECO-NEXT material airlock can be optionally fitted with electric roller doors. Special roller doors and guides are used for this purpose. Otherwise, the installation is identical to that described in Chapter 7.

Connect the plug between the roller door and the up/down switch (on the roller door guide).

Connect the supply cable of the up and down switch to the mains supply.

The roller door can be opened or closed by pressing the up and down switch.

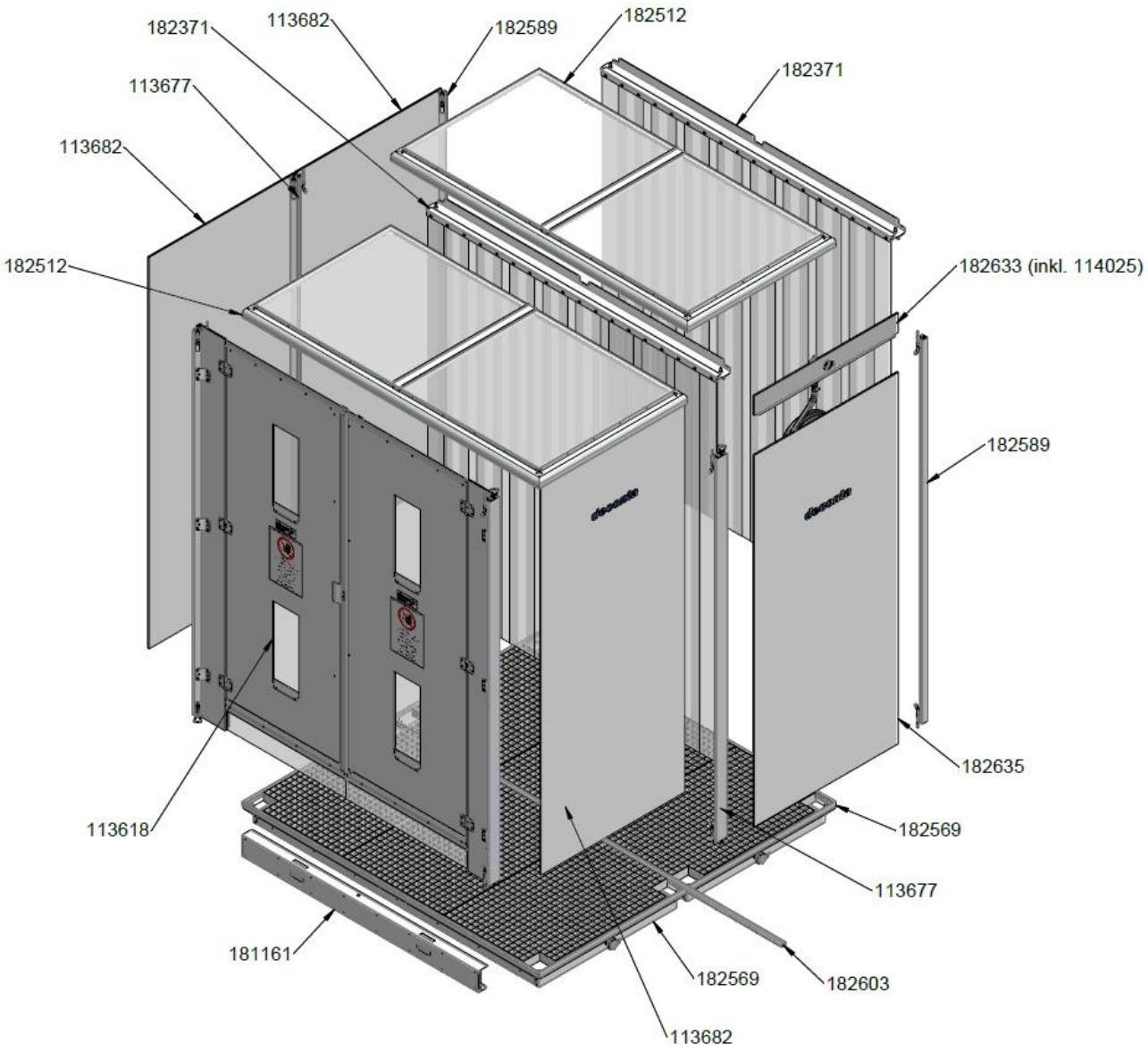
In the event of a power cut, the roller door can be opened using a hand crank.

Further manufacturer information, such as how to set the limit switch positions, can be accessed via the QR code on the roller door box.

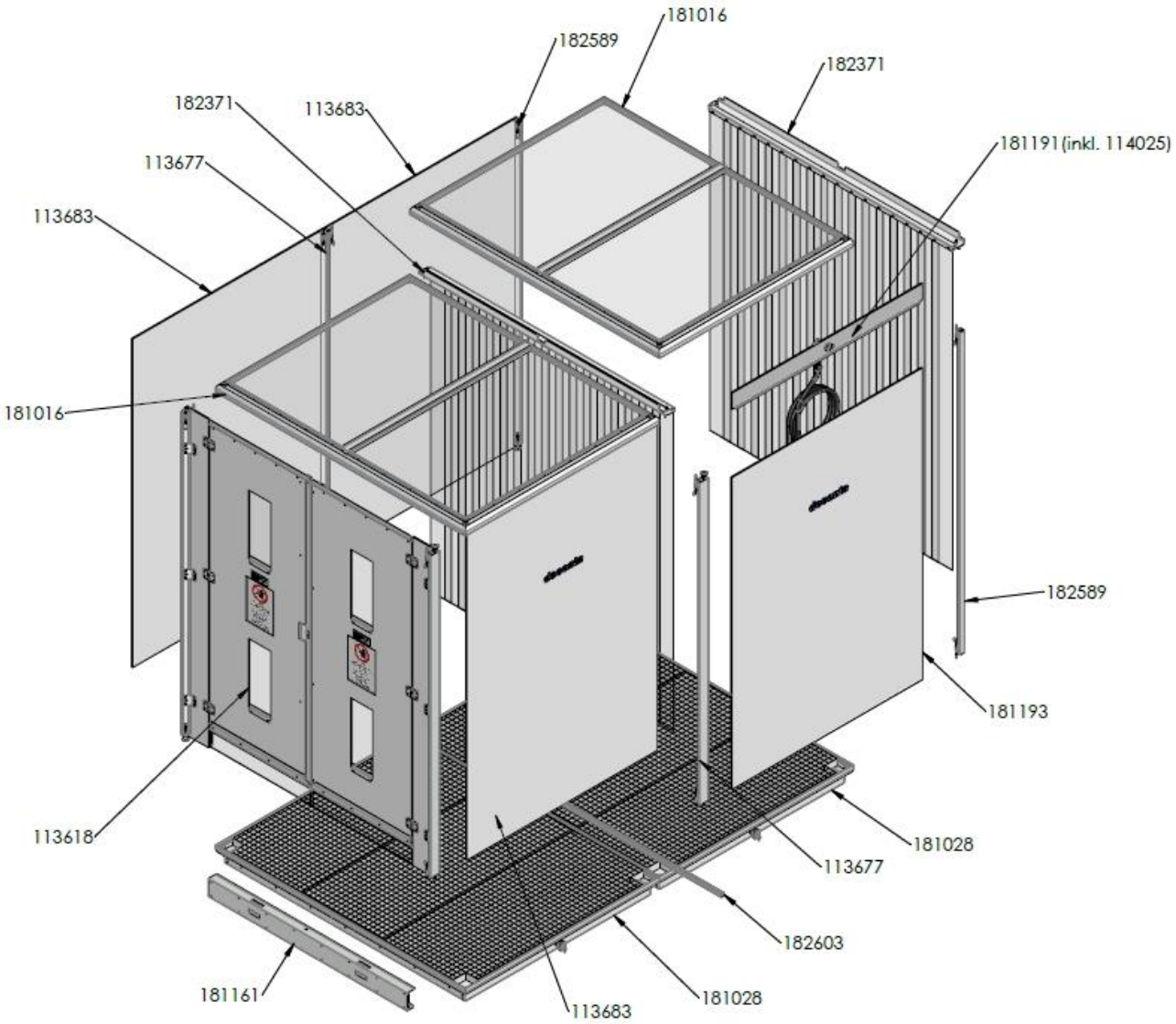
11 Spare parts

To ensure safe, trouble-free and economical use of the gates, original spare parts should be used.

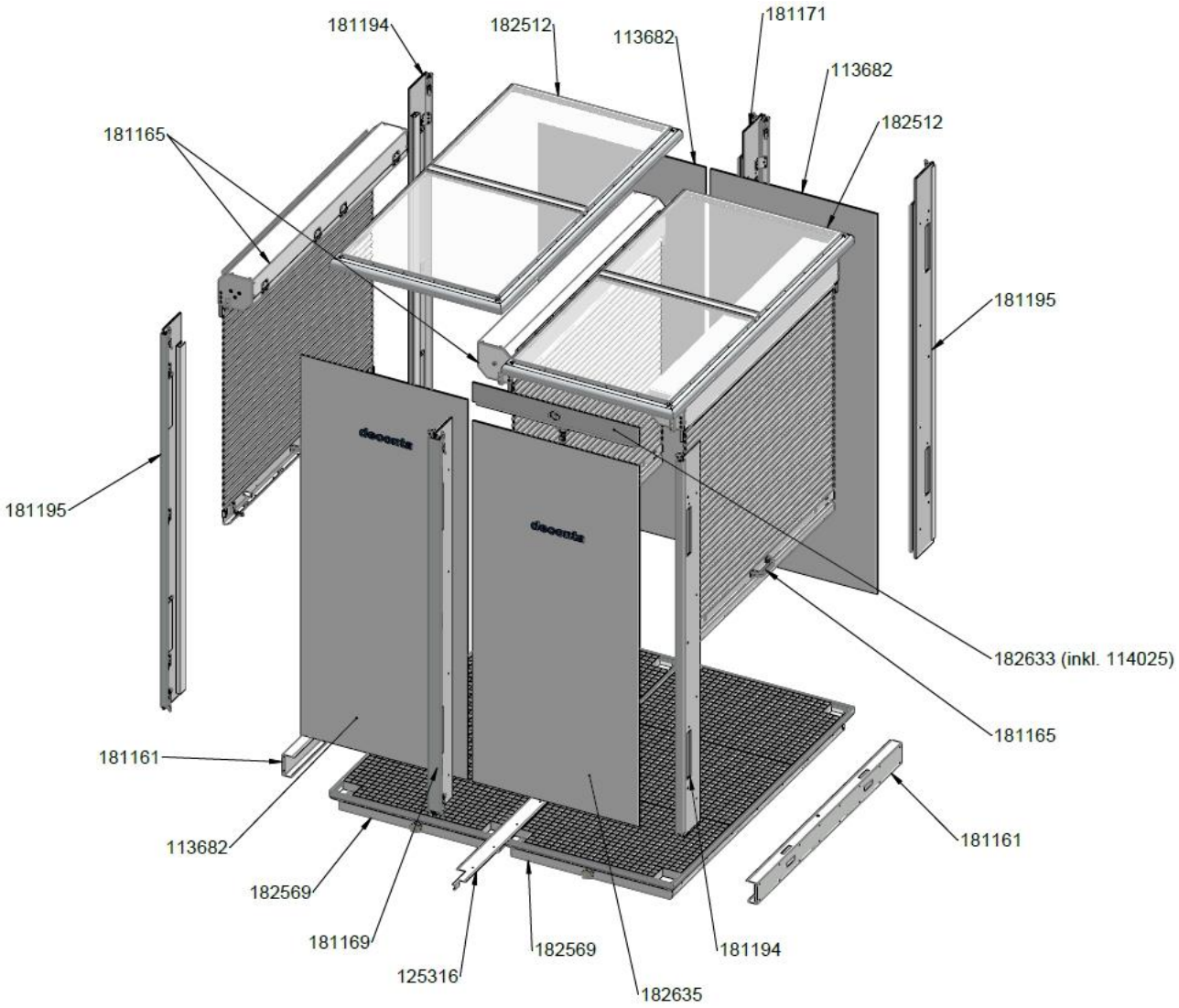
11.1 Model 900 with double-leaf door



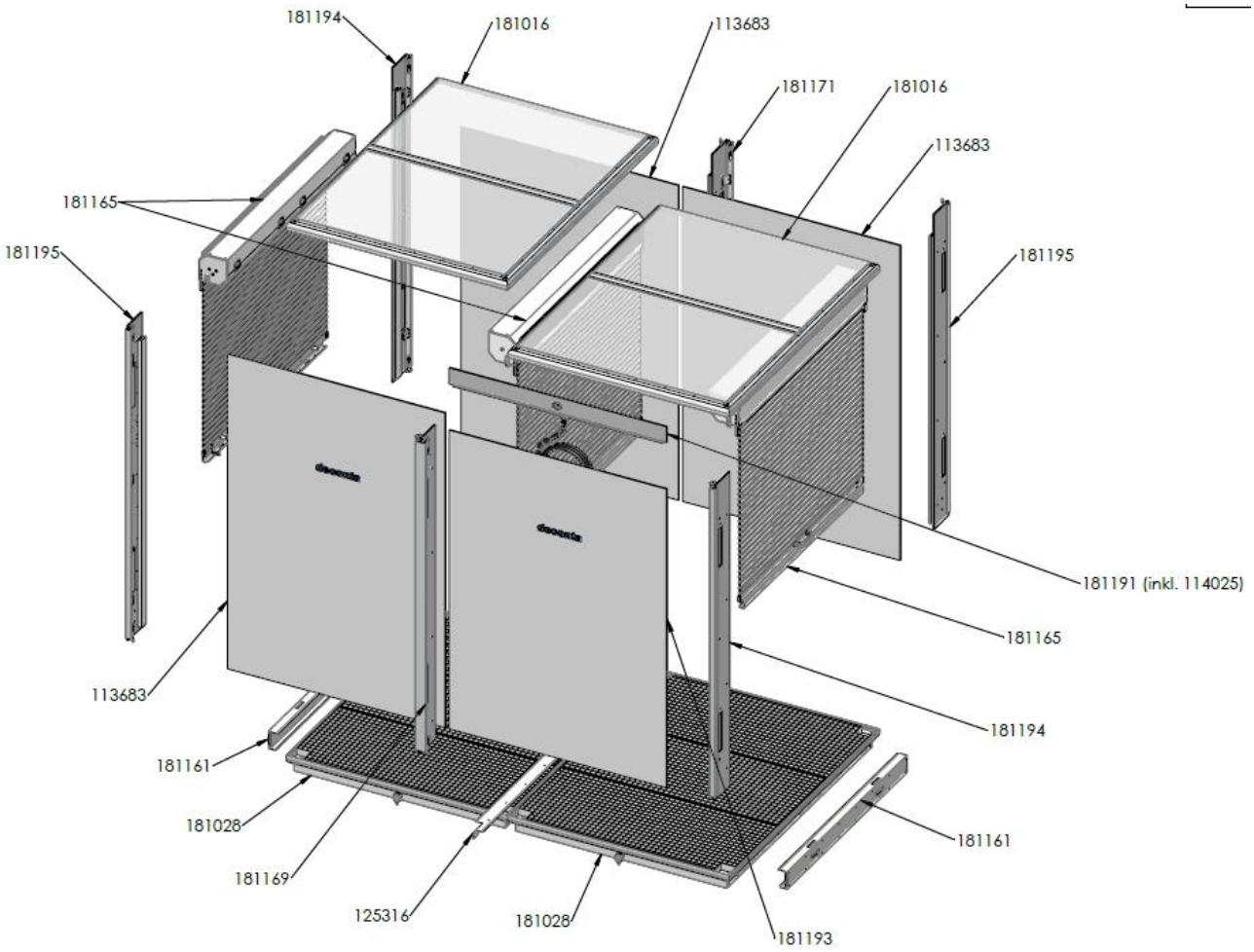
11.2 Model 1400 with double-leaf door



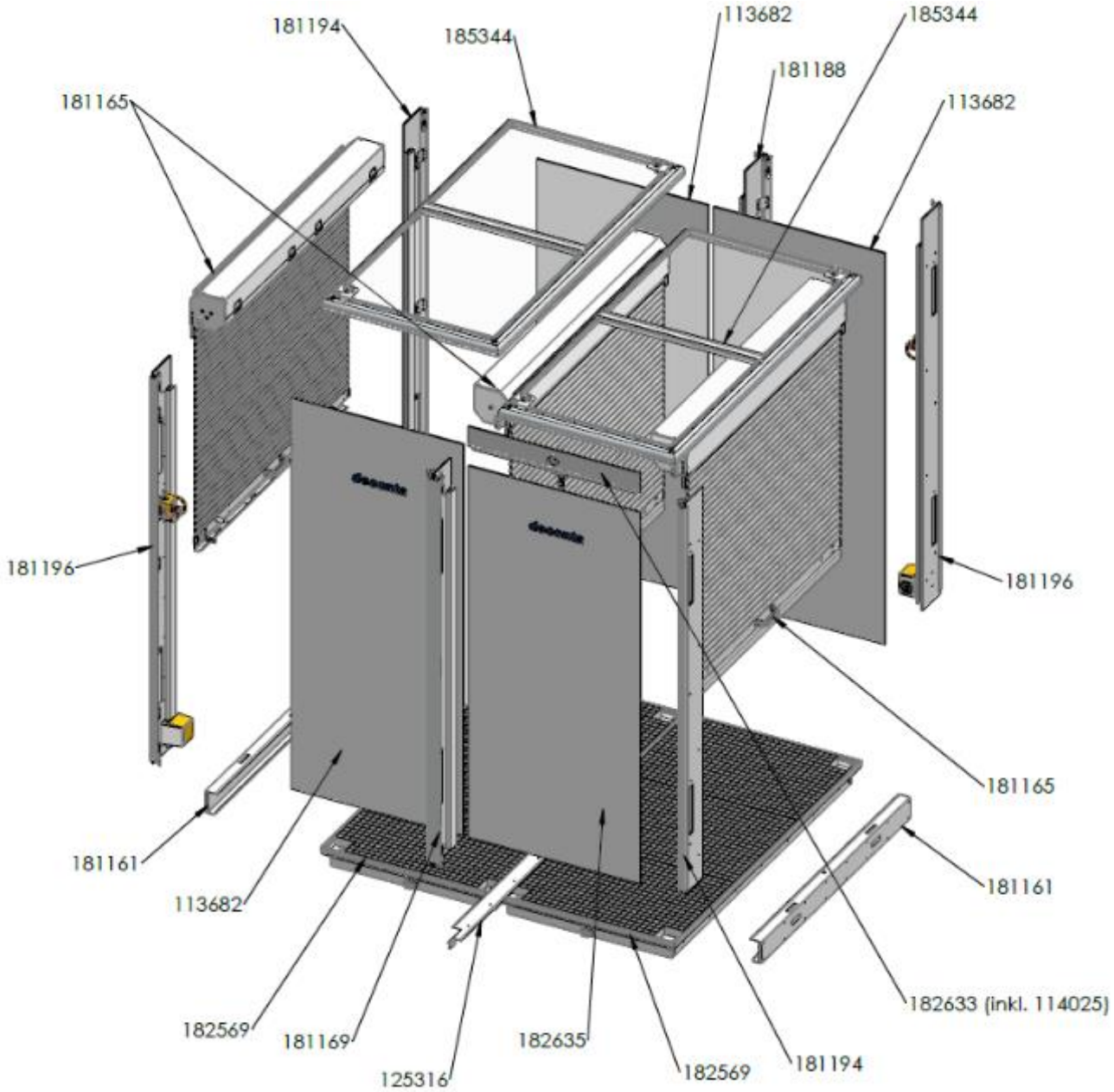
11.3 Model 900 with roller door



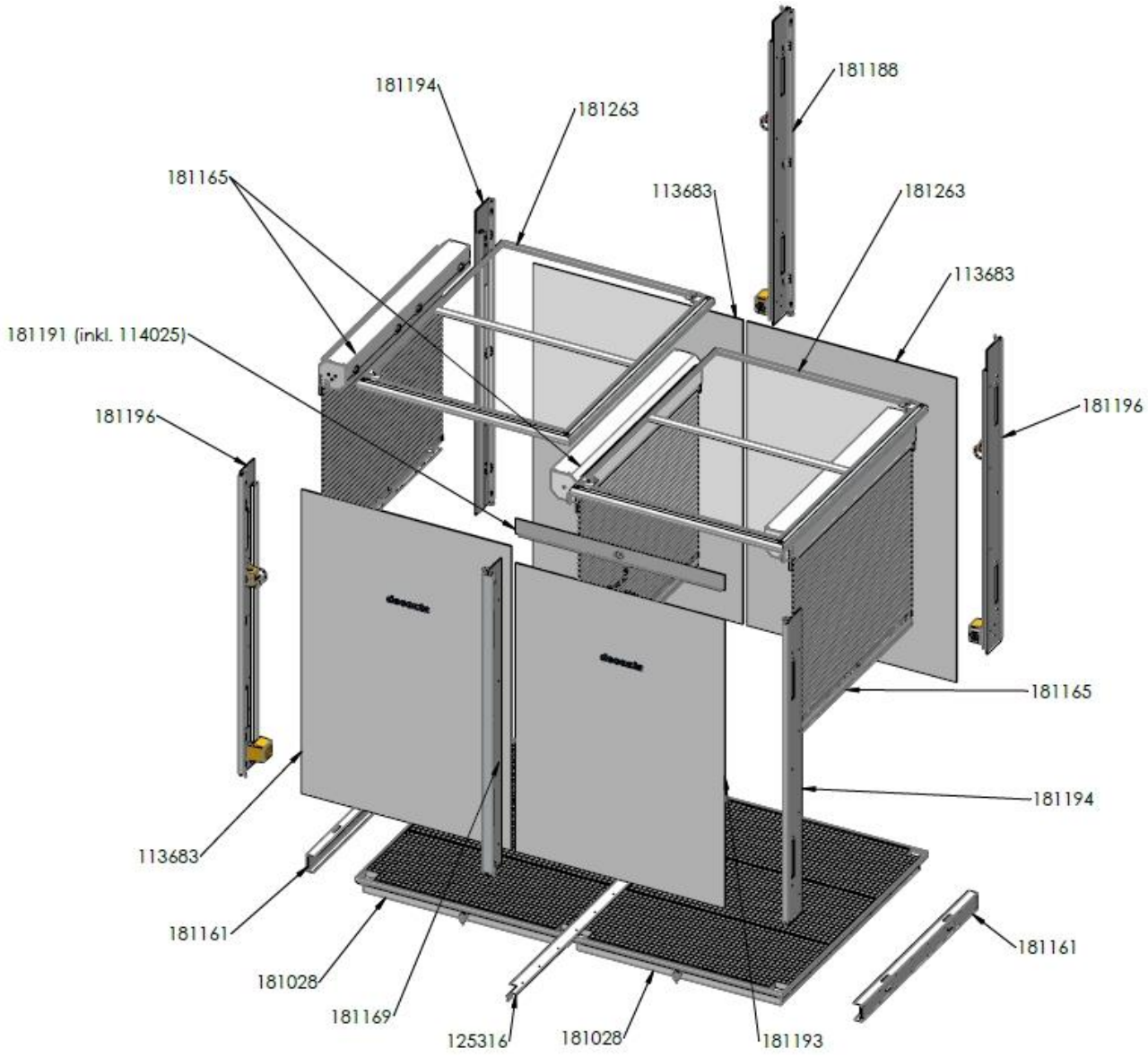
11.4 Model 1400 with roller door



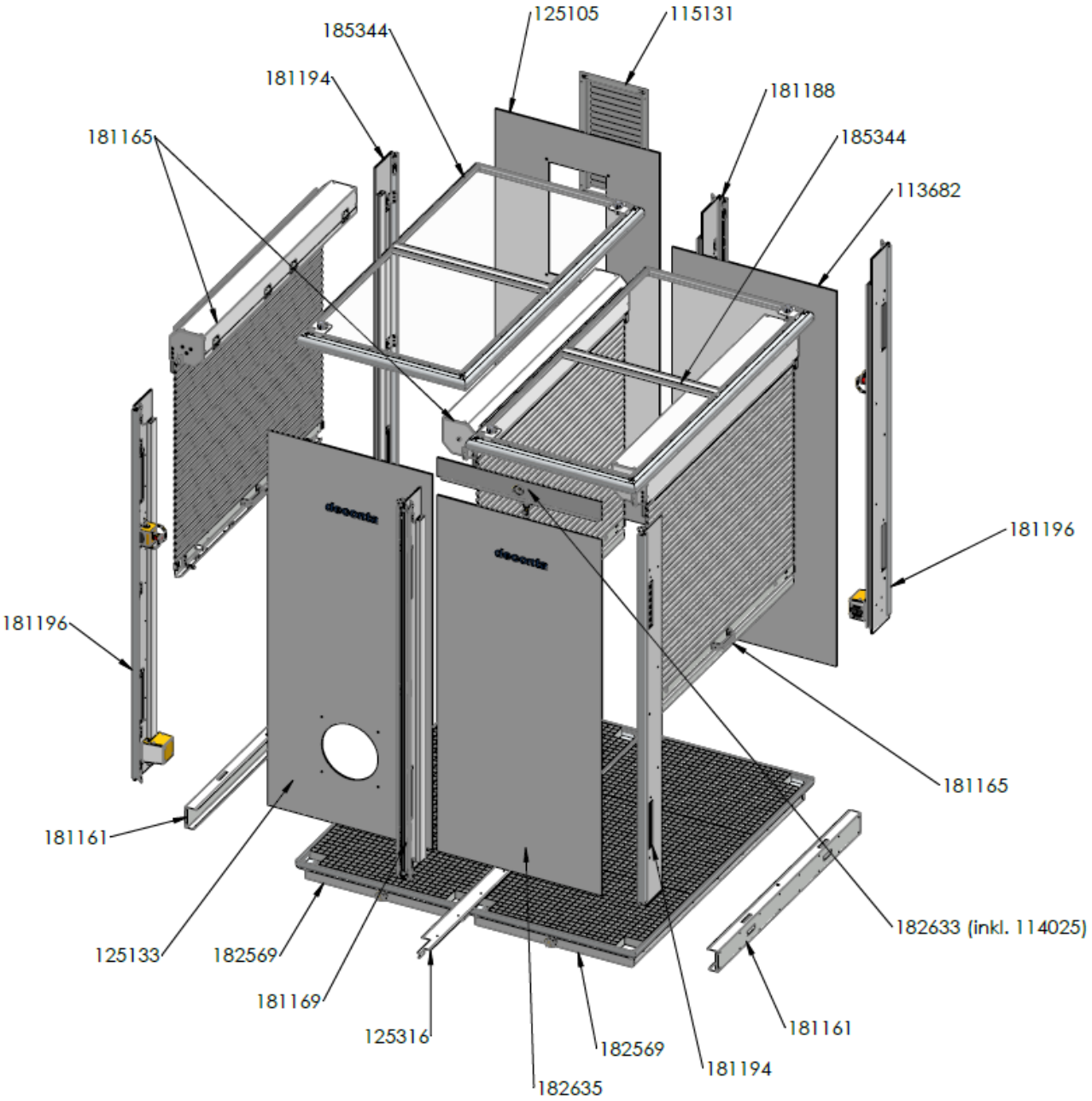
11.5 Model 900 with roller door and forced locking



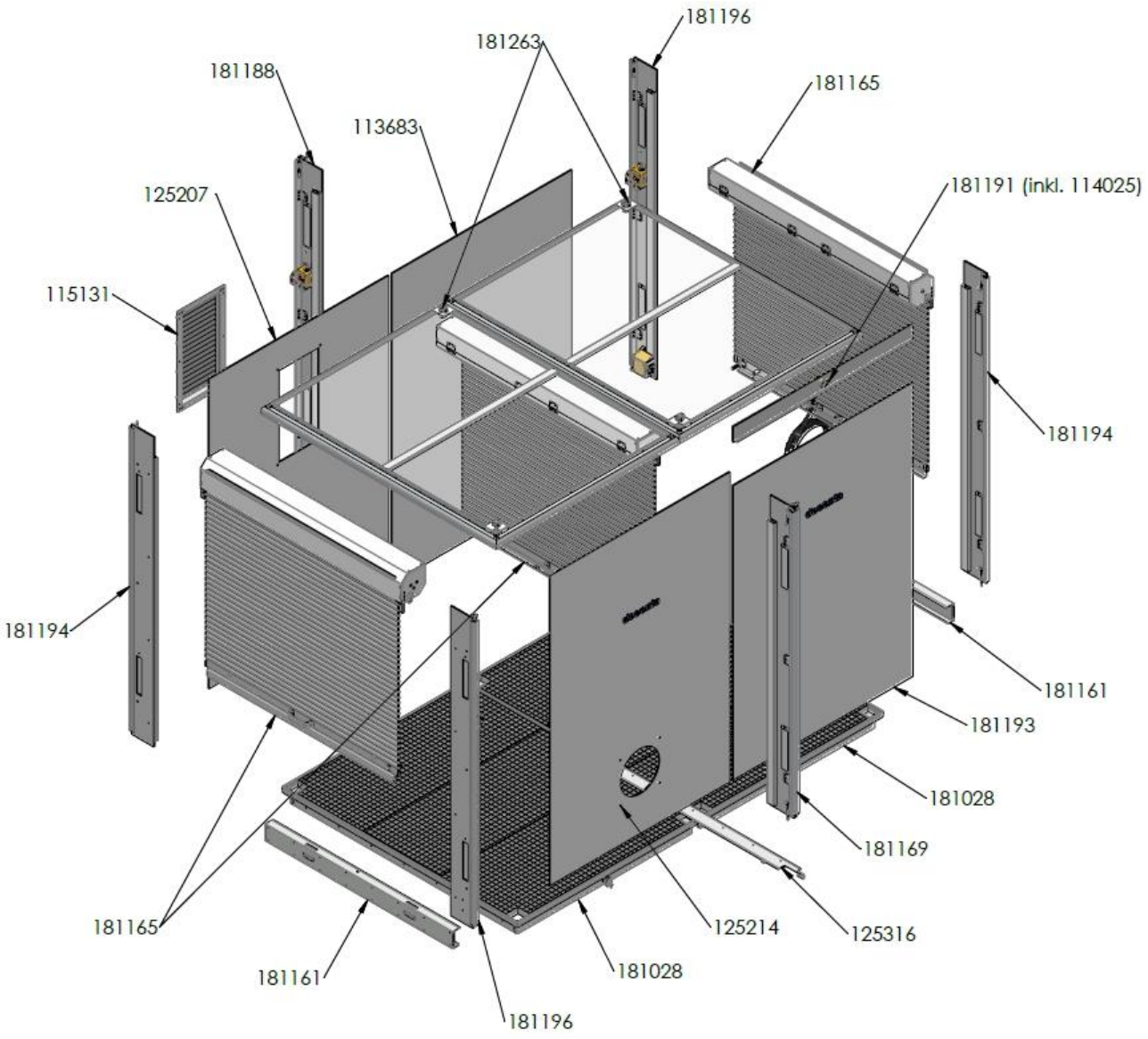
11.6 Model 1400 with roller door and forced locking



11.7 Model 900 with MZA 30



11.8 Model 1400 with MZA 30



12 Maintenance

Daily maintenance

- Checking the water pipes for unobstructed flow
- Clean the airlock area daily
- Carefully wipe down the airlock gates with a damp cloth at the end of each shift
- Check the floor elements for unobstructed flow

Standard household cleaning products can be used for cleaning and maintenance.

13 Possible faults and how to rectify them

Fault	Possible cause	Solution
Difficulties when installing wall and floor elements	Mounting brackets are dirty	Clean the mounting brackets
	Mounting brackets are bent	Straighten mounting brackets
Clamping fasteners are too loose	Clamping length incorrectly adjusted	Adjust
Clamping fasteners too tight	Clamping length incorrectly set	Adjust

14 Storage

This section contains information on the safe storage of the airlock.

The airlock is stored in the following cases:

- After being taken out of service for a prolonged period of non-use
- After taking the airlock out of service for relocation

14.1 Requirements

The following requirements must be met for the storage of the airlock:

- Thoroughly cleaned (decontaminated)
- to prevent damage, the airlock must only be stored in dry rooms that are inaccessible to unauthorised persons

We expressly draw your attention to any additional regional and national regulations regarding the storage of the equipment.

15 Disposal

Disposal refers to the collection, sorting, processing, recycling, regeneration, destruction, recovery and sale of the materials to be disposed of that are incorporated into the airlock.

This section contains information on the proper and professional disposal of the airlock.

15.1 Staff qualifications

Persons disposing of the airlock must meet the following requirements:

Person	Required qualification
Disposal contractor	Qualified waste disposal company for the legally compliant, proper and professional disposal of the lock

15.2 Legal requirements

Disposal of the lock must be carried out in accordance with the legal regulations of the country in which the lock is disposed of.

Compliance with these legal requirements is generally the responsibility of the operator of the lock or the person commissioned to carry out the disposal.

16 EC Declaration of Conformity

The manufacturer

deconta GmbH
Im Geer 20
46419 Isselburg

hereby declares that the following product

Product name:	ECO-NEXT material transfer unit, model 900 / 1400
Trade name:	ECO-NEXT material lock

Description:

Modular material airlock for separating the clean and contaminated areas. Any number of chambers can be connected to one another without special components or tools.

complies with all relevant provisions of the applicable legislation (listed below), including any amendments in force at the time of this declaration. The manufacturer bears sole responsibility for issuing this declaration of conformity.

The following legislation has been applied:

RoHS Directive 2011/65/EU

The following harmonised standards have been applied:

EN IEC 63000:2018	Technical documentation for the assessment of electrical and electronic equipment regarding the restriction of hazardous substances (IEC 63000:2016)

Location: Isselburg

Date: 31 March 2026

Leiter Konstruktion / head of construction

Leiter Elektro / head of electro