

AquaLOCK® Quickwall

Assembling guide

Version 04/2023

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1 About this Document

This operating manual contains all information for the intended use of the AquaLOCK® Quickwall.

Please note:

- The operating manual is an integral part of the product.
- The operating manual must be available to the operator at all times.
- Keep the operating manual accessible near the AquaLOCK® Quickwall throughout its entire lifespan.
- Pass the operating manual to a new operator or owner when transferring the AquaLOCK® Quickwall.

1.1 Validity

This operating manual applies to the AquaLOCK® Quickwall product series for protection against floods and heavy rain. It includes basic information on installation, operation, maintenance, and cleaning of the product.

Standardized Illustrations

The illustrations in this operating manual mostly correspond to the described product. Some images are standardized illustrations and may slightly differ from the actual product.

1.2 Target Audience

This operating manual is intended for all individuals handling the AquaLOCK® Quickwall, especially the end user.



Please note:

- The installation into prepared connection profiles and removal can be done by the end user.
- All other work on the product (e.g., installation of connection profiles and maintenance) must be performed exclusively by qualified personnel. Relevant rules for accident prevention and occupational and environmental safety must be observed.
- Use by children is not intended.

1.3 Conventions

Warning and Other Notices

The operating manual presents notices with different weights and is marked with a pictogram.

Symbol	Signalword	Indication
	DANGER	Immediate imminent danger. Death or serious injuries are the consequence.
	WARNING	Potentially dangerous situation. Death or serious injuries can be the consequence.
	CAUTION	Potentially dangerous situation. Minor or slight injuries can be the consequence.
	CONSEQUENCE	Absolutely essential information to ensure safe operation of the product.

Example of a Warning Notice:

	SIGNAL WORD Nature and source of Danger Consequence – Escape.
---	--

Signal Word

Indicates the severity of the danger.

Nature and Source of Danger


Describes the warned danger and where it can occur.

Consequences

Describes the impending effects if the notice is not heeded.

Escape

Describes how to prevent the danger or leads to safety measures when the danger occurs.

	WARNING Risk of injury if used improperly Improper use of AquaLOCK® Quickwall can pose dangers to individuals and property. – Use AquaLOCK® Quickwall only as intended as described below.
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Instructions

Instructions are numbered to indicate the sequence of individual steps. Results of the actions are provided directly underneath, if applicable.

Example:

- This is the first step.
 - This is the second step.
- This is the result of the second step.

1.4 Contacting the Manufacturer

Torbau Schwaben GmbH
Enzianstraße 14
88436 Oberessendorf
Tel.: +49 7355 9310 0
info@torbau-schwaben.de
www.aqualock.info

2 Safety Instructions

In this section, you will find all safety-related information. Read and follow all safety instructions thoroughly before handling the AquaLOCK® Quickwall.

The safety instructions draw attention to the risks of possible personal injury, property damage and environmental damage and contain information on how to avoid and prevent risks and damage to the product.

2.1 Intended Use

For the intended use of the AquaLOCK® Quickwall, knowledge of the operating manual and compliance with all included instructions, maintenance, and inspection requirements are necessary.



WARNING

Risk of injury if used improperly

Improper use of AquaLOCK® Quickwall can pose dangers to individuals and property.

- Use AquaLOCK® Quickwall only as intended, as described below.

The AquaLOCK® Quickwall is used for mechanical protection against floods¹ and heavy rain.

The following uses are intended:

- Use as a temporary mobile flood protection element for privately or commercially used buildings or properties.

Additional conditions for the intended use of the AquaLOCK® Quickwall:

- The product is only intended for the protection of building or wall openings, not for linear protection at bodies of water, etc.
- The intended service life of the AquaLOCK® Quickwall is approximately 5 years. Afterward, revision by the manufacturer or a specialized company is required.
- Repairs and maintenance work on the product must be carried out only by the manufacturer or by manufacturers authorized specialized companies.
- To ensure the proper functioning of the AquaLOCK® Quickwall, an annual inspection by the manufacturer or an authorized specialized company is recommended.

¹ Flood resistance according to IFT guideline FE-07/1, water ingress < 240 l / 24 h

2.2 Unintended Use

Unintended use occurs when the product is used for a purpose other than described in section 2.1 "Intended Use" on page 7.

Examples of unintended use include:

- Permanent use.
- Use as linear protection at flowing waters.
- Use of the product in an unsafe condition.
- Handling by children.



NOTE

The manufacturer assumes no liability for damages resulting from improper use. The operator of this product therefore bears sole responsibility.

2.3 General Rules of Conduct

Follow these rules when handling the AquaLOCK® Quickwall:

- Use the AquaLOCK® Quickwall only for its intended purpose.
- Always consider the safety of yourself and others.
- Do not use the AquaLOCK® Quickwall if damages or obstacles are apparent. Inform the manufacturer or an authorized specialized company if necessary.

2.4 Personnel Qualification – Who Does What?

The following chapters explain the different groups of people handling the AquaLOCK® Quickwall.

2.4.1 Operator

As an operator, any person in full possession of their mental and physical abilities is eligible.

Operator's Duties

- Read and follow the operating and safety information in this operating manual completely.
- Use the AquaLOCK® Quickwall only when no damages are apparent.
- In case of errors, malfunctions, or visible damages, inform the operator or contact the manufacturer's customer service.
- Keep the AquaLOCK® Quickwall in a clean condition (see section 7 "Maintenance and Service" on page 22).

2.4.2 Assembly and Maintenance Personnel



NOTE

All activities related to the assembly and disassembly of the connection profiles, as well as inspection and maintenance, must be exclusively carried out by the manufacturer or authorized specialized companies.

The assembly and maintenance personnel are defined as follows:

- Trained professional.
- Knowledge of the installed technology.
- Certification by the manufacturer.
- Knowledge of relevant occupational safety and accident prevention regulations.

2.4.3 Overview – Who Does What?

The following table assigns the corresponding activities to the individual person groups mentioned above:

Activity	Operator	Assembly/ Maintenance personnel
Operation	Yes	
Cleaning, Care	Yes	
Physical inspection for external damage	Yes	
Fault and Troubleshooting		Yes
Maintenance		Yes
Repair		Yes
Montage, Modification, Transport, Dismantling and disposal		in coordination with the manufacturer

2.5 Residual Risks

The AquaLOCK® Quickwall consists of movable and heavy components. To prevent personal or property damage, please observe the following safety instructions:

Risks during transport, assembly, and maintenance work:

- Assembly and maintenance work may only be carried out by authorized professionals or by the manufacturer.
- Use suitable and tested lifting equipment as necessary for handling heavy parts. Consider the dimensions and weight of each element when making your selection. If required, perform transport and assembly work with two people.
- Do not stay beneath suspended loads, and maintain a sufficient safety distance.
- Wear appropriate personal protective equipment during work (see *Section 2.6 "Personal Protective Equipment" on page 10*).
- Do not make unauthorized modifications to the AquaLOCK® Quickwall.

Risks during use:

- When installing the AquaLOCK® Quickwall, pay attention to people, pets, or objects nearby. Ensure that no individuals or objects can be trapped.
- Never reach between stationary and moving parts.
- Have the AquaLOCK® Quickwall inspected by the manufacturer or an authorized service provider if external damage is visible or if the locking or sealing mechanism is not functioning properly.
- After each use in the case of a flood, a qualified inspection of the AquaLOCK® Quickwall must be carried out.

2.6 Personal Protective Equipment

To ensure safe transport, assembly, and maintenance work on the AquaLOCK® Quickwall, you and, if necessary, all assisting personnel must wear personal protective equipment. The following table lists the minimum personal protective equipment required for various activities:

Personal Protective Equipment	Required Type / Protection Class	Activity
Work Clothing	Long, close-fitting work clothing	All activities
Safety Shoes	Slip-resistant safety shoes with toe protection according to EN ISO 20345	All activities
Protective Gloves	As needed	As needed

3 Technical Data

Parameters	Value
Flood resistance	Flood resistance as per IFT FE-07/1 Water inlet < 240 l / 24 h
Dimensions	Width up to 250 cm Height up to 120 cm (Special sizes upon request)
Weight	max. 25 kg
Possible installation methods	Between reveal Before reveals on exterior wall
Locking Lever position	Left or Right

4 Construction and Function

This chapter gives an overview of the construction and function of the AquaLOCK® Quickwall.

4.1 Overview

The AquaLOCK® Quickwall consists of the following components:

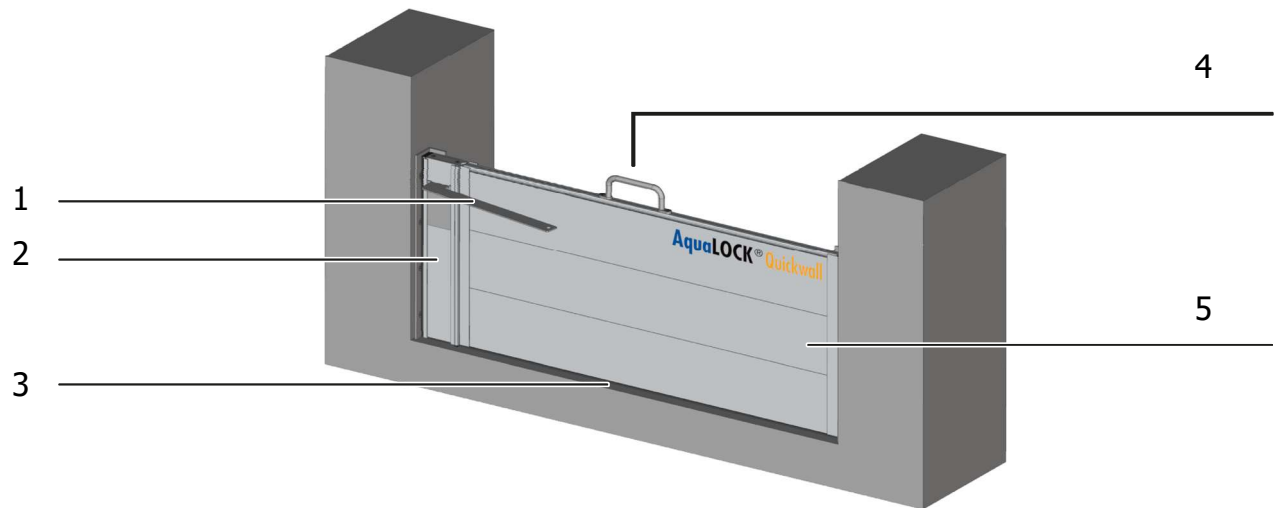


Fig. 1: Product Overview

- 1 - Locking lever
- 2 - Folding element
- 3 - Seals (bottom and on the sides)
- 4 - Carrying handle
- 5 - Aluminium profiles"

4.2 Construction Variants



NOTE

You will receive further information about the various construction variants from the manufacturer (see *section 1.4 “Contacting the Manufacturer” on page 6*).

Long versions with latch.

Construction variants with long elements are delivered with a latch that supports itself in a hole drilled into the ground, preventing the bending of the element."

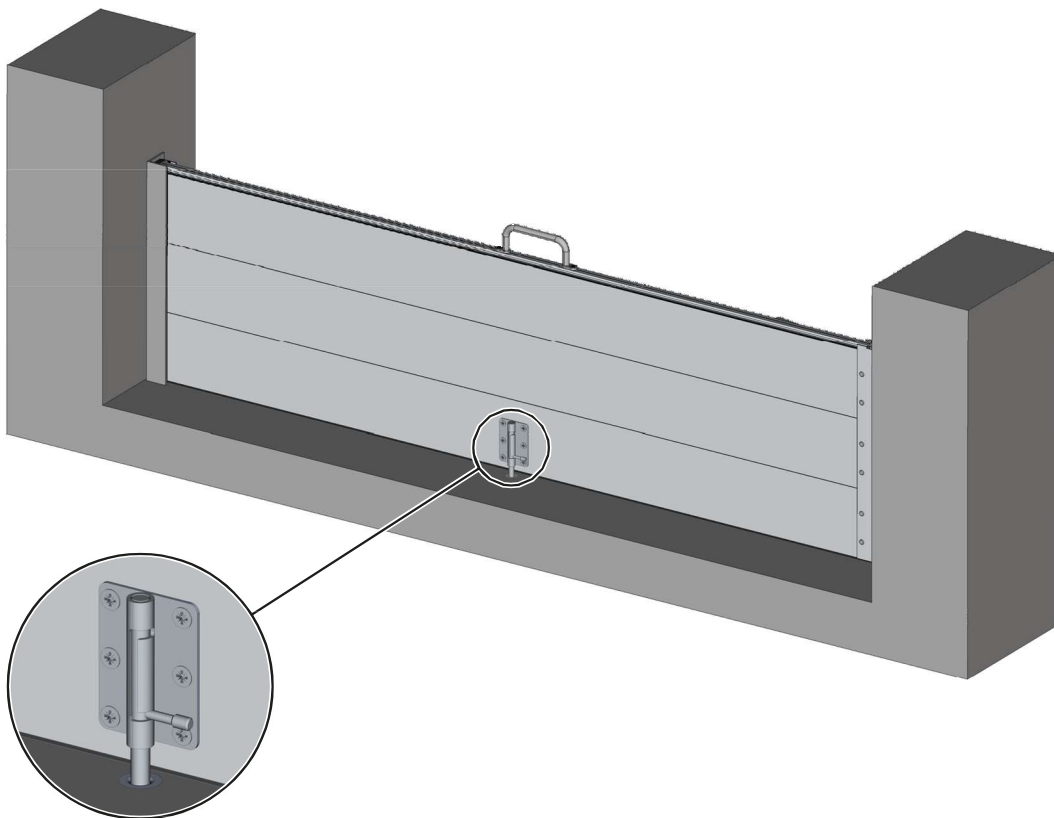


Fig. 2: Long Quickwall Element with Latch

Multi-part configurations with intermediate posts

For large building or wall openings, a multi-part configuration is possible. For this, an intermediate post is securely anchored in the ground.

For large building or wall openings, a multi-part configuration is possible. For this, an intermediate post is securely anchored in the ground.

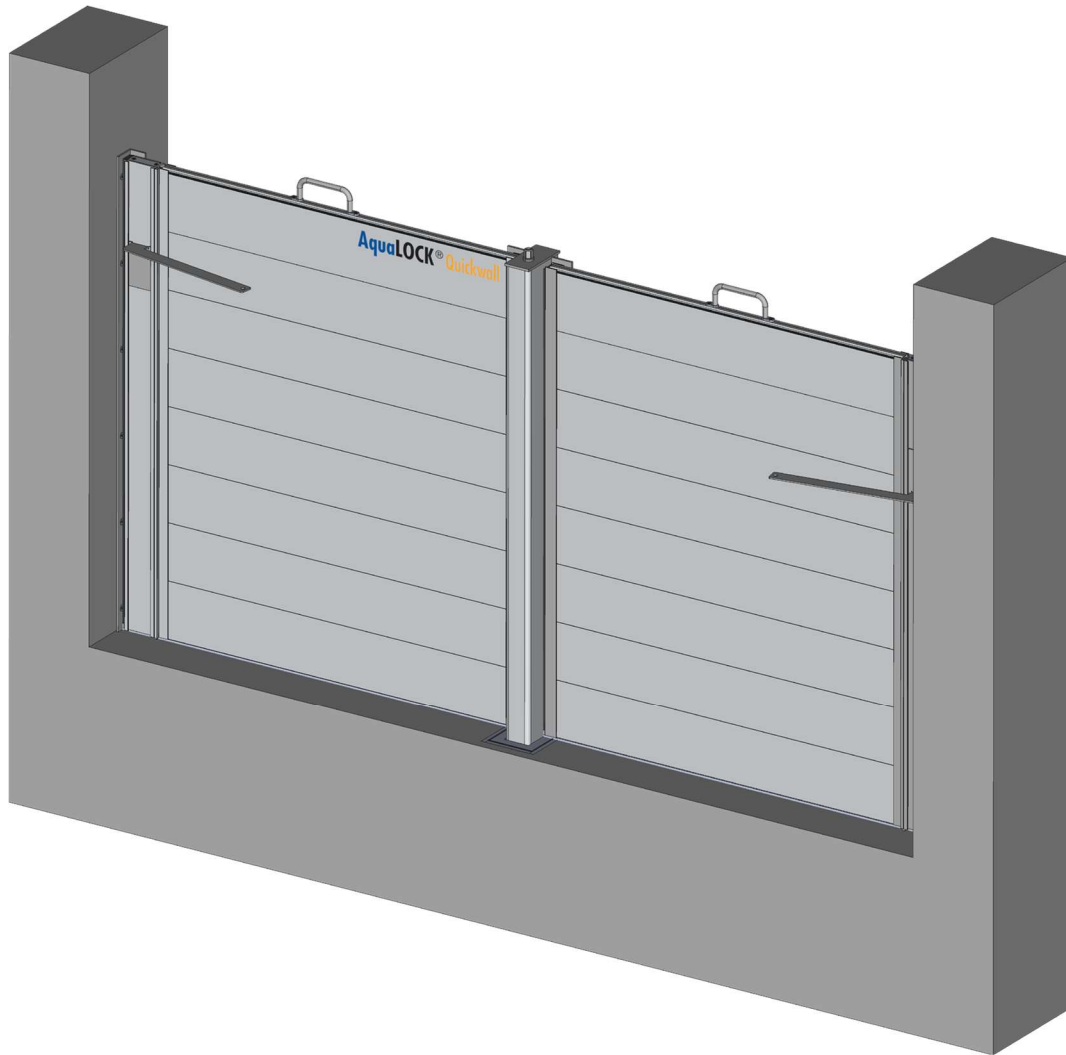


Fig. 3: Multi-part configuration with intermediate post

Corner Execution with Corner Post

A corner execution can also be realized with an intermediate post firmly anchored in the ground.

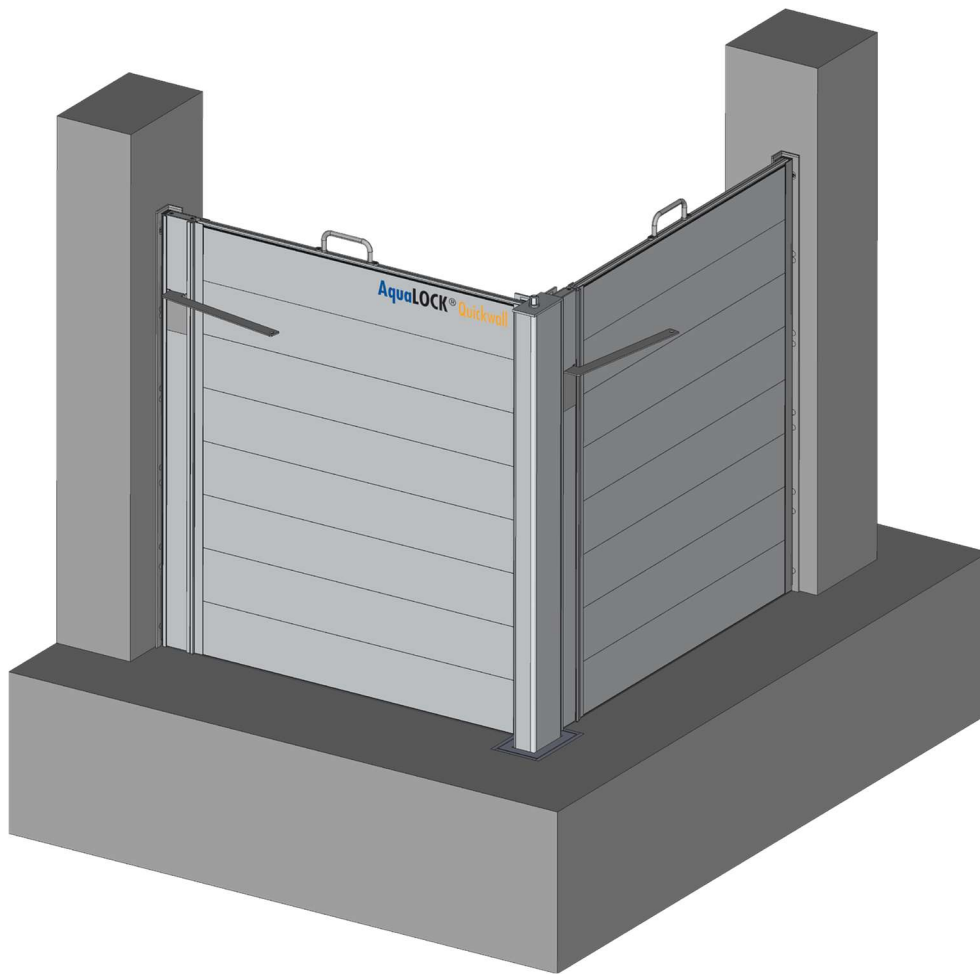


Fig . 4: Multi-part Execution with Corner Post

4.3 Operation

To quickly seal building and wall openings during floods and heavy rain, the Quickwall element is snapped into place via the integrated folding mechanism. This ensures a high pressure on the seals and guarantees flood resistance. When the AquaLOCK® Quickwall is no longer needed, it can be removed and stored in a space-saving manner by hanging it on the handle.

**NOTE**

After the Quick wall has been used for flooding case, a professional inspection of the AquaLOCK® Quickwall should be conducted to ensure proper functionality and flood resistance.

5 Storage, Transport, and Assembly

WARNING



Risk of injury from heavy components

During the transportation and installation of AquaLOCK® Quickwall, hazards may arise from heavy and tipping parts.

Please observe the instructions in *section 2.5 "Remaining Hazards" on page 9*, as well as *section 2.6 "Personal Protective Equipment" on page 10*.

5.1 Storage and Transport

Storage

When storing AquaLOCK® Quickwall, adhere to the following environmental conditions:

Parameters	Value
Storage Temperature	-10 bis +30 °C
Storage environment	Dry and frost-free conditions.
Storage position	Hanging or lying, do not unload the seals

For optimal storage of AquaLOCK® Quickwall, you can use the optionally available suspension tab:

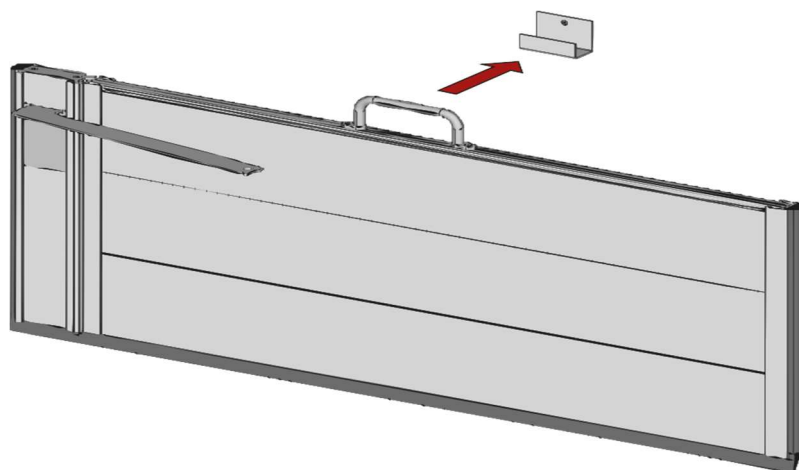


Fig. 5: Suspension of AquaLOCK® Quickwall on the suspension tab

Transport

The AquaLOCK® Quickwall is operated manually. The following steps must be followed for proper operation:

- Open the AquaLOCK® Quickwall by unlocking and folding the closing elements.
- Place the AquaLOCK® Quickwall into the prepared connection profiles.
- Secure the AquaLOCK® Quickwall in the connection profiles.
- Check the proper fit and function of the AquaLOCK® Quickwall.

5.2 Assembly of the Floor Plate and Connecting Profiles




NOTE

If the structural requirements are met (smooth and level floor and walls), the AquaLOCK® Quickwall can be installed directly into the wall opening without the need for connecting profiles and floor plate. Follow the instructions in *section 6 "Installation and Removal" on page 21* for this purpose.

5.2.1 Prepare for Assembly

Follow these steps to prepare for the assembly of the connecting profiles and the floor plate:

1. Upon delivery, check the goods for completeness and any damages.
2. If damages are identified:
 - Note the type of damages on the carrier's delivery documents.
 -  **WARNING !** Danger of personal and property damage. Do not assemble the connecting profiles and the floor plate with damaged components. Ensure the replacement of damaged components before starting the assembly or contact the manufacturer.
3. Remove the transport packaging and dispose of it in an environmentally friendly manner according to local regulations. The packaging material can be 100% recycled.
4. Have the necessary tools, equipment, and fastening materials ready:

- Hammer
- Spirit level
- Screw/anchor system suitable for the wall material
- Appropriate screwdriver/bits
- Cordless drill
- Floor covering sheet

- Masking tape for masking during the creation of the seal joint
- Shimming material for aligning the connecting profiles
- Tool for smoothing the joints
- Spray bottle for lubricant
- Paper towels

- Knife for opening the sealing adhesive
- Caulking gun for applying the sealing adhesive into the joint
- Suitable drills for the screw/anchor system
- Drill machine
- Vacuum cleaner
- Trash bags



NOTE

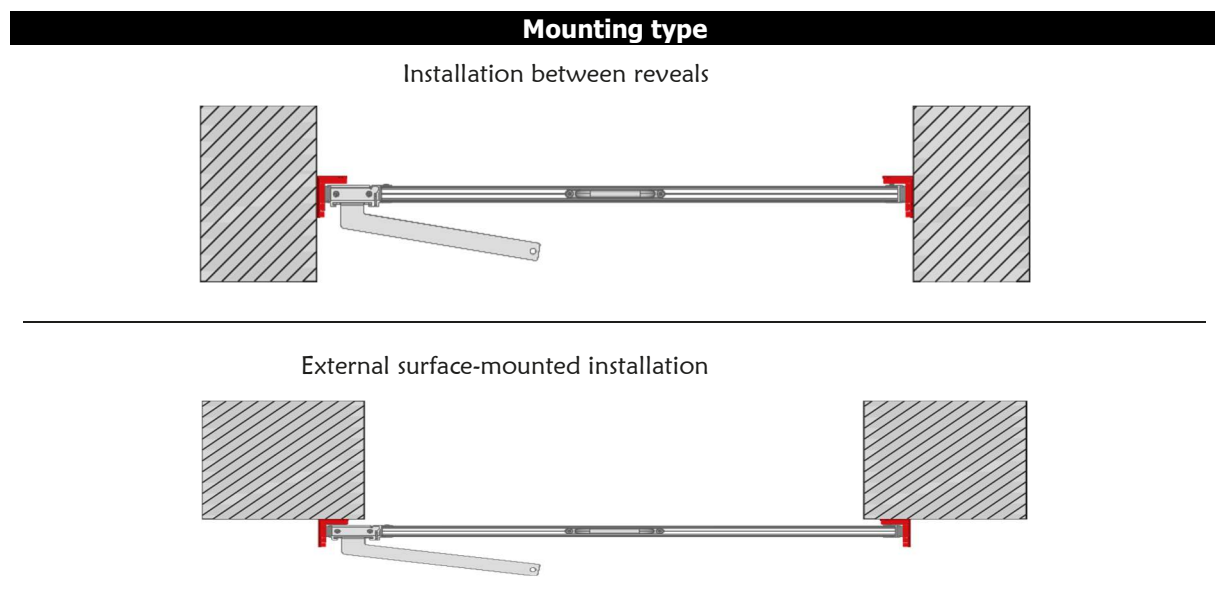
Make sure that the chosen screw/plug system is suitable for the wall material.

5. Before starting the assembly, check whether the dimensions of the AquaLOCK® Quickwall are suitable for the wall opening and the chosen installation type:

- For versions with a floor plate: Verify if the floor plate fits the wall opening.
- For versions without a floor plate: Check the correct dimensions of the wall opening. This information is available on the purchase documents (order confirmation, invoice, delivery note).

5.2.2 Install Floor Plate and Connection Profiles

Depending on the desired installation type, position the AquaLOCK® Quickwall either within the wall opening or externally onto the wall opening.



The connection profiles and/or the floor plate are glued with sealing adhesive, screwed to the substrate (optional for the floor plate), and sealed for waterproofing. Follow the steps described in the following sections for this purpose.

Securing the floor plate

1. Apply the sealing adhesive in two lines on the floor plate.
2. Position the floor plate



NOTE

- For heavy loads on the floor plate, in addition to adhesive bonding, it is recommended to secure it with screws near the building connection profiles.
- Ensure that the drill holes are positioned in a way that the seals of the Quickwall element do not rest on the screws.

→ The floor plate is fully assembled.

Fastening the connecting profiles

1. Position the connection profiles in the subsequent installation position for verification purposes using a spirit level to ascertain whether vertical installation is achievable.
2. Mark all the intended drill holes.
3. Drill the top hole for both connection profiles and fasten the connecting profiles.
4. Re-check the vertical positioning of the connection profiles in all directions.
5. Drill the remaining holes.
6. Re-install the connection profiles for a test prior to using the sealing adhesive in order to align the profiles correctly.
 - Make sure that the specified dimensions of the top and the bottom surfaces are adhered to the connection profiles.
 - If there are any deviations, remove or add underlay material to adjust the spacing and alignment.
7. Apply the sealant adhesive to the connection profiles in pairs. While doing so, make ensure that the fixing holes are between the tracks.
8. Position the connection profiles and fasten them.
9. Use a spirit level to check if a perfect alignment has been achieved.
 - The connection profiles are fully assembled.

Sealing joints

1. Glue the outward-facing sides of the base plate and the connecting profiles as follows; with masking tape:
 - Underneath the connecting profiles: at a distance of 10-12 mm
 - Remaining sides of the connection profiles and base plate: at a distance of 6-8 mm
2. Apply the sealing adhesive and create the joints with a scraper tool as follows:
 - Underneath the connection profiles: Joint width 10 mm
 - Remaining sides of the connection profiles and base plate: joint width 6 mm
3. Remove the masking tape.



NOTE

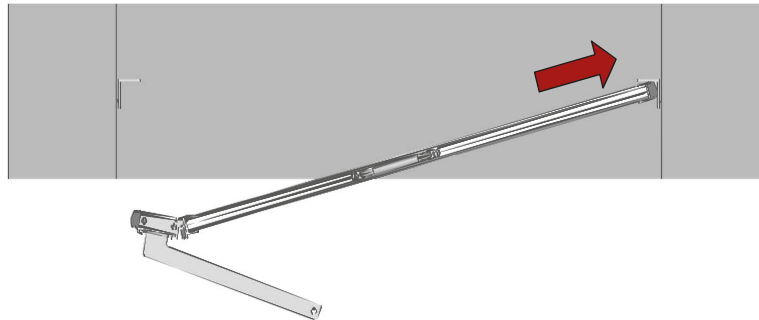
The curing time for the sealant adhesive is approx. 24 hours at 20 °C. The AquaLOCK® Quickwall must not be used during this time. Otherwise the joints will be damaged and the flood resistance of the system will be impaired.

→ Once the curing time of the sealing adhesive has lapsed, the installation is complete and the AquaLOCK® Quickwall can be used.

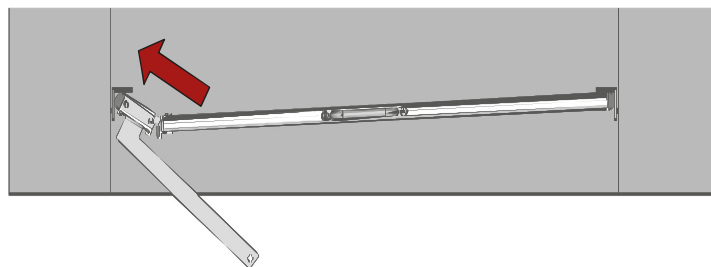
6 Installation and Removal

Proceed as follows to install the Quickwall element in the event of imminent flooding:

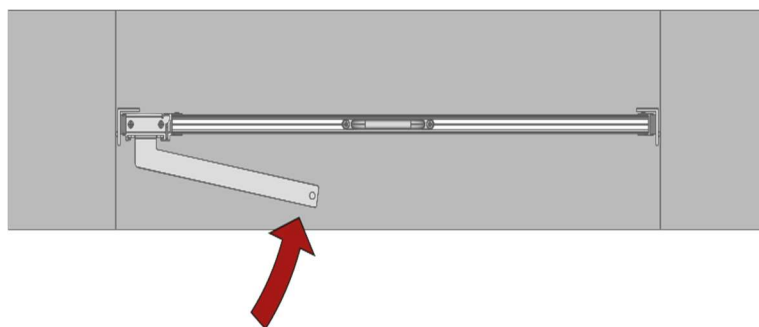
1. Insert the long side of the Quickwall element into the connection profile or against the wall opening.



2. Press the folding element in slightly.
3. Insert the kinked element into the connector profile or wall opening on the opposite side.



4. Lock the Quickwall element with the locking lever.



NOTE

Once the Quickwall element has been installed, remove the locking lever to prevent unintended operation.

→ The system is now flood-resistant.

5. To uninstall the Quickwall element from the wall, open the Quickwall element with the locking lever then pull it out of the wall opening.
6. Observe the instructions for transportation and storage of the Quickwall element in *section 5.1 "Storage and transportation" on page 17.*

7 Maintenance and Service

This section covers cleaning, care, regular maintenance, and information on spare parts and accessories for the AquaLOCK® Quickwall.

**WARNING****Risk of personal injury and property damage due to improper maintenance**

Improper maintenance of the AquaLOCK® Quickwall can lead to risks for individuals and objects.

- Maintenance and repair work may only be carried out by trained specialist personnel certified by the manufacturer.
- Wear suitable personal protective equipment.

7.1 Cleaning and Care

To ensure the proper functioning and a long service life of the AquaLOCK® Quickwall, follow these cleaning and care instructions:

- Use warm water and a mild detergent for cleaning.
- Wipe the surfaces of the Quickwall element with a clean, soft cloth.
- Treat all metal surfaces with suitable care products.
- Never use aggressive cleaning agents such as alkalis, acids or abrasive cleaners.
- Do not use any mechanical aids such as scrapers, spatulas etc. or high-pressure cleaners.

**NOTE**

Regularly check wear on the aluminum drive bolts to ensure consistent tightness.

7.2 Regular maintenance

Seals

Maintain the seals with a suitable care product for EPDM seals.

Annual expert inspection

An annual expert inspection is recommended to ensure flood resistance. If these tests are not carried out and documented properly, the manufacturer's warranty will be void.

7.3 Spare Parts and Accessories

Only use the manufacturer's original spare parts and accessories. For damage caused by third-party spare parts, the manufacturer is not responsible.

8 Disassembly and Disposal

This chapter provides information on the disassembly and disposal of the AquaLOCK® Quickwall.

WARNING

Potential risk of injury due to improper deinstallation



Improper deinstallation can lead to injuries, e.g. as a result of heavy parts tipping over.

- Disassembly work should only be carried out by trained specialist personnel.
- Wear suitable personal protective equipment.
- Use only suitable and approved lifting equipment.
- Keep transport routes free.

1. Professionally disassemble the product into its individual parts using suitable tools.
2. Properly dispose of the components in an eco-friendly manner while observing all applicable legal regulations. Disposal of dismantled components for recycling:
 - Scrap metallic residual components.
 - Send plastic parts for recycling.
 - Dispose of the remaining components according to their material properties and separate them by type if possible.

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