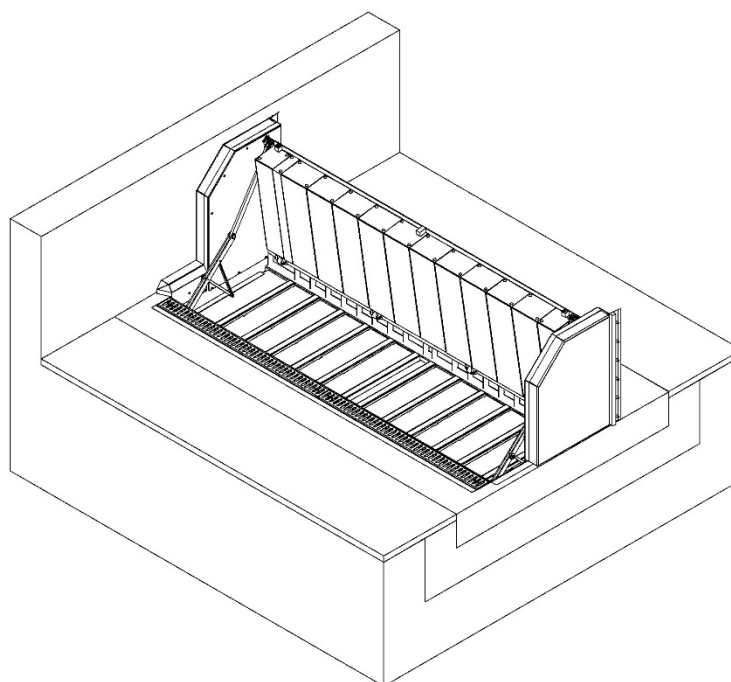




Flood protection barriers

PASSIVE DAM



Assembly instructions

Version: 032022.0222EN

Content

1	Introduction	4
2	Product description	4
2.1	Technical parameters	4
2.2	Description of the finished barrier	5
2.3	Cutting through the barrier before final potting	6
3	Preparing for installation	6
3.1	Special equipment or tools	6
4	Mounting	7
4.1	Setting the base frame	7
4.2	Anchoring the base frame	7
4.3	Mounting the winch	7
4.4	Sidewall mounting	8
4.5	Inspection before pouring with pouring concrete	9
4.6	Concreting	9
5	Functionality check	9
6	Notes and additions	9

1 Introduction

The flood barrier installation instructions contain basic product and installation information. Please read the instructions carefully and follow all instructions given.

The information in this manual may refer to instructions in the Use and Maintenance Manual, Installation Drawing and other documents (see accompanying documentation). Also follow the instructions in these documents during installation.

Only trained persons, the manufacturer or service by authorized companies may install or assemble the fixed elements.

The manufacturer reserves the right to make technical changes and innovations to the product that do not affect function and safety. These changes may not be included in this manual. All illustrations in this manual are for illustrative purposes only.



For safety reasons, the assembly and installation of the system must not be carried out by small children, minors, persons with mental or psychiatric disorders, persons under the influence of alcohol, addictive or narcotic substances and persons who are not instructed in the assembly and use.



The manufacturer/supplier is not liable for damages resulting from non-observance of the information and instructions in the manual and from incorrect and unprofessional assembly and installation of the product!



It is forbidden to make any structural modifications to the product that are not approved by the manufacturer!

2 Product description

A flood barrier is used to protect buildings and structures against water inundation due to floods, flash floods, torrential rains, etc. The fixed parts are mounted and concreted at the construction site.

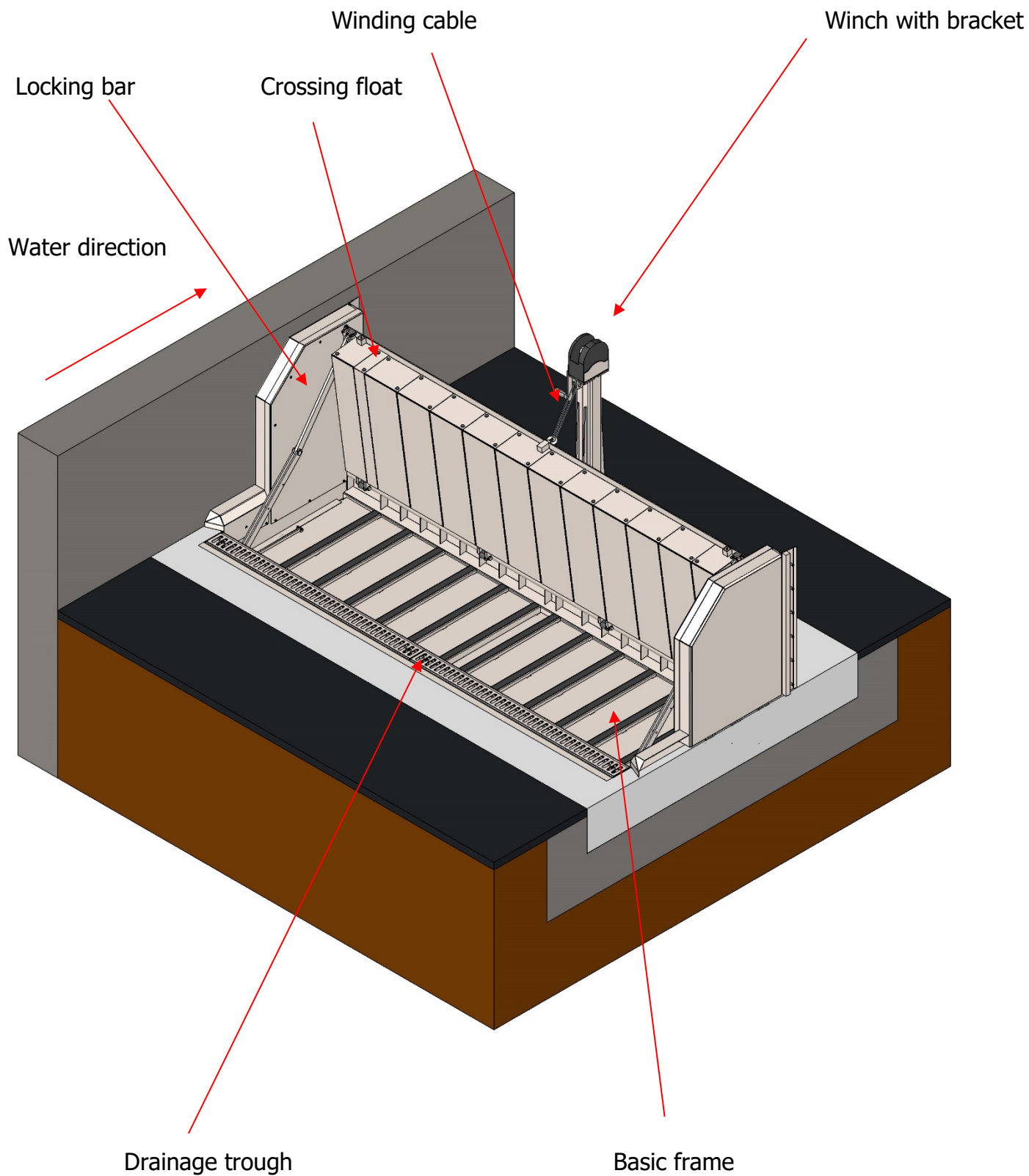
2.1 Technical parameters

Load capacity: <i>(segment can be freely connected)</i>	12 tons on barrier area
Maximum slope of the barrier placement:	18%
Drainage pipe diameter:	100 mm
Flatness:	In both axes +- 1 cm



Technical modifications to the product according to specific customer requirements are not included in these Installation Instructions. If technical modifications require special instructions, they are listed in a separate appendix to the accompanying documentation. These modifications must be approved or carried out by the manufacturer.

2.2 Description of the finished barrier



2.3 Cutting through the barrier before final potting

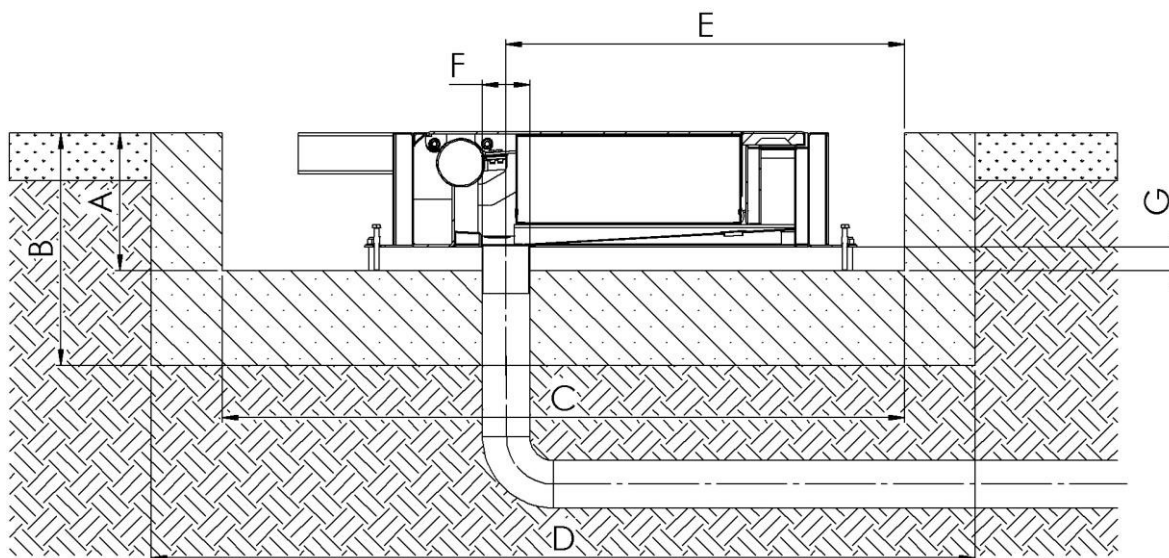
Description of the single quotations:

A/C - internal dimensions for barrier mounting

B/D - external dimensions of the concrete bed for the barrier

E/F - distance of the drainage pipe / diameter of the hole for the pipe

G - Gap for the barrier under the concrete



3 Preparing for installation

It is necessary to check the construction readiness according to the assembly drawing, especially the location and dimension of the drainage pipe in relation to the base concrete.



Follow the relevant safety instructions for working and moving around the installation site.

Observe safety instructions when working with chemical products.

Maintain cleanliness at the installation site to prevent damage to e.g. seals.

Wear the protective work equipment recommended for working with each product, tool or apparatus.

3.1 Special equipment or tools

- MS polymer AR521 (watertight connection of parts)
- Lubricant (moving mechanisms)
- Un Lok anti-seize lubricant (anti-seize stainless steel bolts)

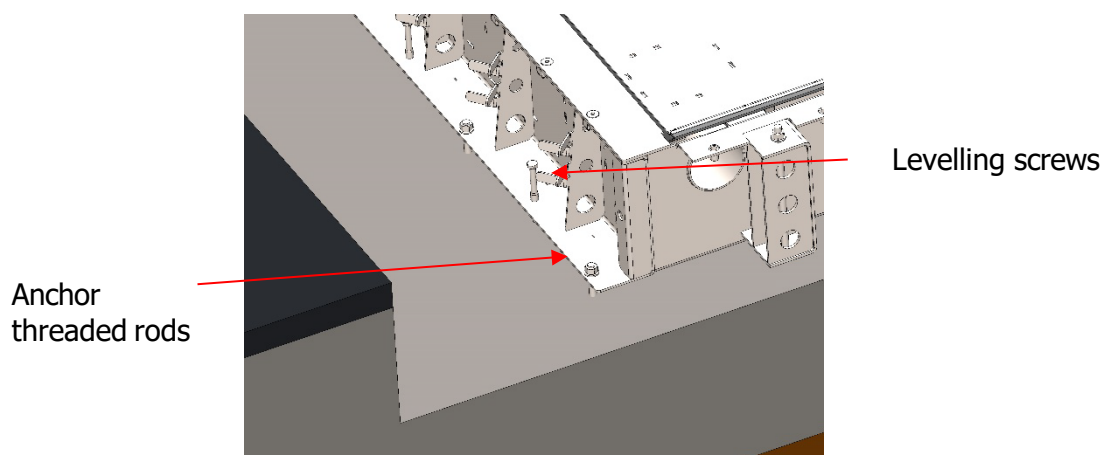
4 Mounting

4.1 Setting the base frame

- When setting the base frame, care must be taken to fit the drainage section of the barrier to the drainage pipe of the concrete bed.
- It must also be parallel to the concrete sides.
- At the same time it is necessary that the distance from both concrete sidewalls is the same so that the sidewall frame can be mounted.

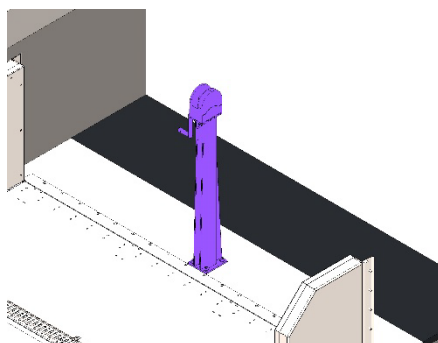
4.2 Anchoring the base frame

- Drill holes for anchor threaded rods
- Using the levelling screws, approximately level the top of the crossing float so that it is flush with the final surface.
- Anchor the threaded rods according to the chemical mortar manufacturer's instructions, **it is absolutely essential to allow the chemical to set before tightening the nuts before further work.**
- Using the leveling bolts and anchor nuts, level the final crossing float so that it is flush with the final surface.



4.3 Mounting the winch

- For easy and safe mounting of the side rails, a winch with bracket is required
- Remove the cover screws
- Place the winch and use the same screws to screw

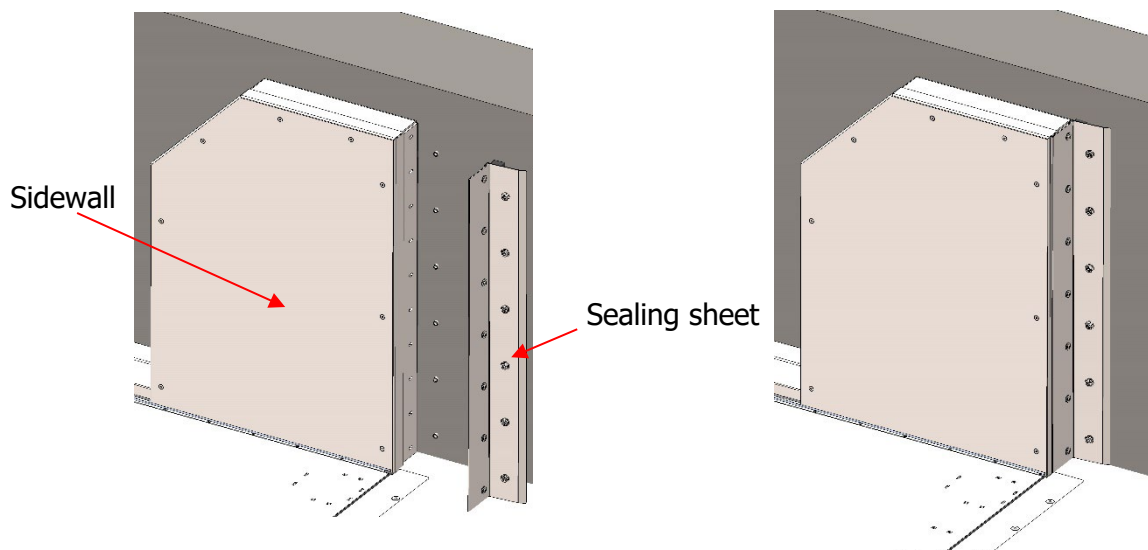




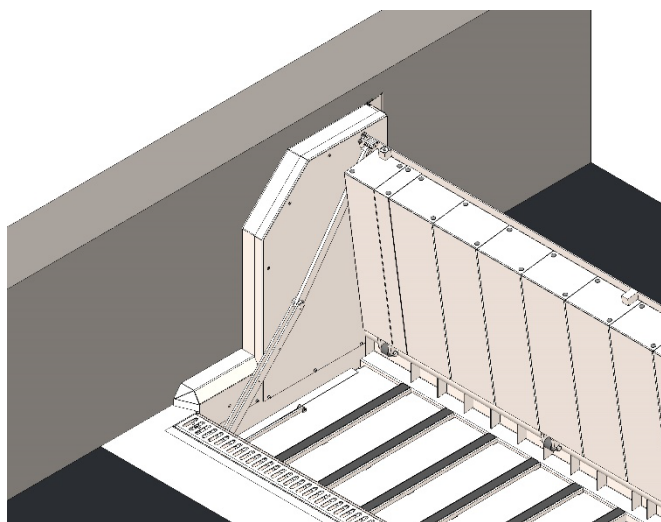
It is necessary to check that the base frame is in the correct position before the side panels can be used. Once the side rails are installed, this position cannot be changed.

4.4 Sidewall mounting

Sidewall consists of 2 parts: sidewall itself and sealing sheet.



- Mount the sealing sheet and mark the holes for installing hammer anchors.
- If the sealing sheet does not fit closely to the wall, the sheet can be adjusted
- Install the hammer anchors
- Fit all parts into place and mount it
- If there is any unevenness in pouring concrete, sealant can be used.



4.5 Inspection before pouring with pouring concrete

- Before the actual watering is necessary:
 - Check that the barrier is correctly rotated to perform its function
 - Check that the sidewalls are correctly fitted and sealed
 - Check that all anchors are tightened
 - Remove any plugs or protect any parts that could be damaged during the pouring of the concrete
 - Correct adhesion of the sealing rubber to the sidewall cover plate
 - Disassemble the winch with bracket

4.6 Concreting

- The concreting must be compared with the crossing float closed and the sidewall cover plates covered.

5 Functionality check

- After concreting, the following must be done:
 - Cleanliness and flexibility of the seal.
 - Clean all areas contaminated with concrete.
 - Check the patency of the drainage pipe.
 - Check lubrication of sheet metal moving parts.
 - Checking the anchoring bolts for the bracket, if any, for removal.

6 Notes and additions

- All information in these installation instructions refers to the date of issue.
- There may be variations during installation. Therefore, it is necessary to follow the actual assembly drawing!
- The assembly drawing always takes precedence over the general instructions for use, maintenance and assembly.

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**FLOOD
CONTROL**



**FIRE-PROOF
GATES**



**ANTICONTAMINATION
BARRIERS**



**GATES
AND ATYPICAL**



**LOADING
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**STANDARD AND
OVERHEAD GATES**

