GESELLSCHAFT FÜR OPERATIVEN HOCHWASSERSCHUTZ MBH

Mobile flood defence

Innovative and tested

DPS 2000® – safety with scheme
DPS TDB – high-resistance supports
SERIES 250 – Large-scale aluminium dam beam

"The extreme rain falls of the last years provide a forecast of what will be entirely common in the future." (Climate scientist Mojib Latif)

Climate conditions are getting worsein near future and will lead to flood disasters in shorter periods of time.

Dams, constructed years ago, cannot provide sufficient protection anymore due to all-time-high water levels.

Periodical flooding may lead to the total loss of buildings and homes, but will certainly result in the continuous destruction the building fabric and fixtures, which are commonly uninsurable.

Do you belong to one of these groups?

- Communities: general security of the population, respectively protection of historic premises. Increasing the protection height of existing dams, quay walls, etc.
- Trade and industry: prevention of loss of profi t due to business interruption. Protection against escape of water and chemicals.
- Homeowners, restaurants and hotels: protection against the loss of one´s livelihood and property.
- Army, emergency rescue and fi re fi ghters: ensure operational readiness.

We provide the following services:

- GOH in Cologne offers assistance in term of planning and short term supply of our mobile flood-defence-system DPS 2000® and its additional components DPS TDB. Our services include all necessary static stability calculations in cooperation with civil engineering companies.
- DPS 2000® equates to the guidelines of the "Merkblatt 6/BWK: Mobile Hochwasserschutzsysteme" (Technical bulletin no. 6: mobile flood-protection systems), published by the German "Bund der Ingenieure für Wasserwirtschaft, Abfallwirtschaft und Kulturbau e. V." (Association of Engineers for Water Management, Waste Management and Land Improvement). Furthermore, we can fi t our system to your personal special needs.
- We advice you on effi cient storage of the system elements and carry out plans for action and train the people charged with mounting the elements.
- Since 1995 GOH turned out to be one of the most innovating manufacturer of mobile flood-defence walls, DPS 2000® nowadays is one of the leading mobile floodprotection walls worldwide

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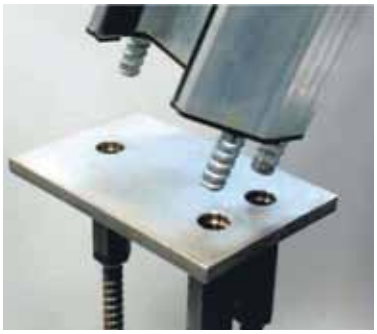
DPS 2000® - System specification

- Patented flood-defence-barrier made of aluminium dam beams which can easily be mounted between aluminum supports.
- The interlocking aluminium dam beams fill up with water during rising waterlevel and thereby increase the stability and tightness of the wall.
- The wall connected profi les and ground plates are made of stainless steal
- Heights of more than 4 meters are already realized.
- No limitation on the system length
- Increase of concrete flood-defence walls
- Optimized for community projects
- Customized solutions can be applied to any special situation.

DPS 2000® in use

- Fast protection due to easy handling:
- First, the supports are erected, and then loaded with the dam beams – thus the construction can be initiated at several places at the same time at the same wall
- A 100m long and 2m high wall can be mounted by 5 untrained people in roughly 3 hours.
- Erection of the dam beams to their total protection height is possible even while the water level is on the rise, inlay of the first base dams already ensures protection.
- The flood-defence walls can be optimized for the use of free standing supports without back supports



DPS 2000® after the flooding

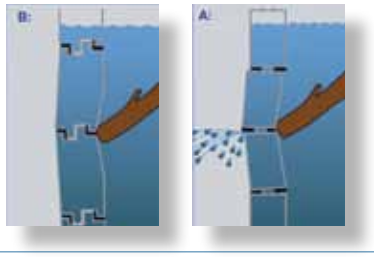
- Aluminium dam beams and supports can be dismantled completely.
- All system elements are easy to clean, to store and may be exchanged individually if needed.
- Under normal circumstances and low water level, there is no visible affect of the natural scenery.

Aluminium dam beam

- The standard dam beam weighs merely 7 kg per running meter and measures 100 x 200 mm.
- The large-scale aluminum dam beam SERIES 250 measures 100 x 250 mm.
- It allows to erase the system even more quickly and to save purchase costs.
- Continuous cellular rubber-seals, kept up with EPDM ensure tightness and insensitiveness against dirt.
- Caused by the s-shaped contour of the single dam beams, the interlocked profiles increase the stability of a total flood-protection wall, but not only single tubes.
- The seals are placed in protective spaces between the dam beams, so that they cannot be overstrained.

Aluminium-support

- In standard the aluminium support weighs merely 17 kg per running meter, the high-resistance aluminium-supports DPS TDB merely 24 kg per running meter, can therefore be handled in without a crane in most cases.
- Free-standing supports up until 4 meter and more are possible, caused by the capability of unlimited combination single aluminium-supports to one.
- Long out-sticking and insensitiveness prestressing steel anchors through the aluminium profiles alleviate the centered positioning of the supports and protects the bottom gasket.
- Removable back supports of galvanized steel can be attached if required.



A: systems using simple profiled dam beams bear the risk of bursting on the first impact and therefore the breakdown of the whole flood-defence barrier.

B: interlocked DPS 2000® dam beams provide a maximal stability and protect against the breakdown of the flood-protection wall even by mechanical damages caused by driftwood.

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