



SLAMDAM

Dutch easy movable dam.

VERSION 4.3

SLAMDAM® USER MANUAL

MAY 2016

	USER MANUAL	
	for SLAMDAM®, a water-filled flood defence system	by SLAMDAM® B.V.
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1. INTRODUCTION SLAMDAM®

The SLAMDAM® is a water-filled flood defence system, which can be used in flood risk situations. The SLAMDAM® is composed of flexible material (i.e. EPDM), creating a sufficient seal at all subsoils, whether it is asphalt or pastureland. The SLAMDAM® can be installed without difficulty.

This user manual contains photos describing the following:

1. The box set with SLAMDAM®
2. Rolling out the SLAMDAM®
3. Turning and removing wrinkles
4. Pairing a next SLAMDAM®
5. Placing the caps and hoses.
6. Filling the SLAMDAM® with water.
7. Sealing the plugs of the SLAMDAM®

This user manual explains in 7 plain steps how to install the SLAMDAM®. It also explains how to store it/ put it away. The SLAMDAM® has a minimum length of 3 m, 67 cms high and 1.32 m width. The flood defence level is 50 cm.

2. HOW TO INSTALL THE SLAMDAM® IN 7 STEPS

The packing material is removed and the SLAMDAM® is rolled out at the location, this requires a flat, stable surface (**Warning! Make sure it concerns a supporting subsoil that resists the SLAMDAM® weight**). After that, you fill it with water with the pump, and accordingly the SLAMDAM® is sealed by placing the plugs on the valves. Below, you find a step-wise explanation.

INSTALLATION DESCRIPTION OF THE SLAMDAM®



Remove the SLAMDAM® from the transportbox.



This photo shows how the SLAMDAM® is rolled out.



The SLAMDAM® is still upside down.



Turn the SLAMDAM® over and place in position.



Fold the SLAMDAM® along its longitudinal axis after rolling it out.



Remove every fold on the bottom. Then fold it back.



Also remove every fold on the bottom on the other side of SLAMDAM®.



4. Place the next empty SLAMDAM® and follow the line of the first SLAMDAM®.



Place the one SLAMDAM® 2 cm over the other for good closure and watertightness.



Make sure the weld on the bottom of the first SLAMDAM® follows the line of the next SLAMDAM®.



5. The SLAMDAM® now lies empty in the longitudinal direction.



Place the filler caps.



Click the hoses on the plugs.



6. Place the water pump.



Connect the hoses with the joints.



The SLAMDAM® is now ready to be filled with water. Both SLAMDAM® compartments must be filled simultaneously.



7. Fill the SLAMDAM® to a height of about 67 cm.



While disconnecting the hose, let some air escape.



By repeating this steps, length is created by placing several SLAMDAMS in a row like a chain.



The flood defence system is ready.

3. THE CLEARING OF THE SLAMDAM® IN 4 STEPS:



Place the plugs again.



First connect to the diaphragm pump.



Connect the hoses with the joints again.



Start pumping to remove the water.

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3. Turn over the empty SLAMDAM® again.



Fold back a quarter of the SLAMDAM® on the left side.



Also fold back a quarter of the SLAMDAM® on the right side.



Then fold the SLAMDAM® back half.



Make sure the filler caps remain free, so as much water as possible will be removed.



Roll in accurately from both sides towards the filling points.



4. When the SLAMDAM® is rolled up ...



... it can be stored in the box again.



The SLAMDAM® is ready for reuse.

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4. DURING AND AFTER USAGE



PLEASE NOTE THE FOLLOWING DURING AND AFTER USING THE SLAMDAM[®]:

- **Check the subsoil** and remove any sharp items, like rocks, before you install the SLAMDAM[®].
- Make sure that the bottom of the SLAMDAM[®] contains **as less folds as possible**, so the SLAMDAM[®] can shift into the right shape which leads to maximum stability and water content in the SLAMDAM[®]. If the bottom does contain folds, the SLAMDAM[®] will not be able to shift into its optimal shape on the subsoil. When this occurs, there will be unnecessary water leakage and the SLAMDAM[®] will offer insufficient protection; the functionality of the SLAMDAM[®] might be at risk, as regards to stability as well, filling the SLAMDAM[®] plus water leakage.
- **Sharp objects** might bring damage to the SLAMDAM[®], which makes the SLAMDAM[®] inoperative. The functionality of the SLAMDAM[®] might be at risk, as regards to stability as well, filling the SLAMDAM[®] plus water leakage.
- It is **important** that the SLAMDAMS[®] follow each others lines exactly, in order to guarantee stability.
- It is of utmost importance **to make a 2 to max 4 cm overlap**. You place the one SLAMDAM[®] 2 cm over the other for good closure and watertightness. The first SLAMDAM[®] you fill, must be placed with an overlap of 2 cm on the following SLAMDAM[®].
- Do not refill the SLAMDAM[®] when using! As soon as the plugs are loosened and removed, the SLAMDAM[®] deflates under great pressure and the SLAMDAM[®] fails, because the flood water exercises an enormous pressure on the SLAMDAM[®].
- The SLAMDAM[®] should **not** be moved during use.
- **No** external forces may, unlike the flooding itself, be exerted on the SLAMDAM[®]. No vehicles (such as cars or tractors) may bump into or push against the SLAMDAM[®], to change the position.
- The SLAMDAM[®] is tested according the PAS1188:2-2009 method.
The SLAMDAM[®] may **only** be used in the following situations:
 - The water level to be defended rises to a maximum of 50 cm in stagnant water.
 - The maximum current of the water parallel to the SLAMDAM[®] is 1 meter per second, of which the maximum water level is 41.6 cm.
 - The wave action has a maximum height of 0.2 meter and the water level to be defended is 50 cm.
- The SLAMDAM[®] is composed of sustainable material and is UV, rain and water resistant. The SLAMDAM[®] can be stored at any location. Despite the UV resistance, storage in direct sunlight is not recommended. A storage building in which the SLAMDAM[®] does not come into contact with sharp items is preferred.
- The SLAMDAM[®] **cannot** be exposed to fire.

5. GUIDELINES FOR USING SLAMDAM®

- The SLAMDAM® is a sustainable product and is composed of EPDM. EPDM is a material with an expected lifetime of more than 40 years. The rubbers of the SLAMDAM® sealing plugs have to be replaced after 10 years. These can be ordered at SLAMDAM® B.V. Welds of SLAMDAM® also have a firm capacity of 5 years.
- Regular checks on the SLAMDAM® are recommended when in use. The frequency of the checks has to be consulted with the emergency services (such as the fire department), since it is dependent of the risk level, the situation and the environment.
- Make sure you check the SLAMDAM® for damage before and after every use. In case of any damage, please contact SLAMDAM® BV.
- The SLAMDAM® height is 67 cm and offers protection against a flood level of 50 cm. In case the water still rises (the so-called 'overtopping'), please put a second SLAMDAM® stretcher bond behind every installed SLAMDAM®, preventing displacement.
- The SLAMDAM® withstands salt water and polluted water.
- If one or both compartments burst(s) during use, it will lose shape, leading to failure of the SLAMDAM®. Therefore, two SLAMDAMS® are placed stretcher bond behind the leaking SLAMDAM®, to guarantee the stability of the flood defence of the SLAMDAMS®.
- The SLAMDAM® is tested according the PAS1188:2-2009 method. The test results were positive up to a maximum of 50 cm water pressure, under surveillance of TÜV Nederland. The test results and the aspects examined have been included in a TÜV Nederland Test report (2013-A-322 : reference).
- Consumer(s) of the SLAMDAM® have to ensure the use of the correct personal protection aids and instruct any bystanders as appropriate. SLAMDAM® cannot be used for any other purposes.



TIPS


- It is easy to recognize the upper side of the SLAMDAM® by its filler plugs (the bottom does not contain filler plugs).
- Should the SLAMDAM® structure does not completely fit seal, than if it can be folded back in order, to make a good seal. One can also create an angle of 90 degrees or an angle of 45 degrees. Place one SLAMDAM® perpendicular to the other SLAMDAM®, in which an overlap is created up to the total length, with a minimum of 50%. Other angles are also possible, e.g. 60 degrees.

- If, during use, small holes appear in the SLAMDAM®, an emergency repair immediately can be carried out by using the repair kit (A). This repair kit is available from SLAMDAM®. In this case the SLAMDAM® must be treated with a special primer (B) after use. More information on the website: www.slamd.com



- It is recommended to clean the SLAMDAM® after use. Fill the SLAMDAM® with air and clean with a household detergent. It is important though to leave the plugs from the SLAMDAM® so that the SLAMDAM® can 'breathe', making evaporation possible. The rubber plugs must be greased with Vaseline. This is to prevent desiccation of the rubbers.



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6. IN CASE OF QUESTIONS, PLEASE CONTACT:

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Mandatory additional information coming from the PAS1188:2-2009, see attachment C.

This product has been tested against the standard set of tests as defined in PAS 1188-2:2009 which represent typical conditions that may be experienced during a flood in the UK. This includes testing the product for leakage under static water [state the DMWD] high, waves approximately 0.1 m high, and parallel currents up to 1.0 m/s. The testing undertaken under this PAS excludes all other components of the flood protection system. Conformance of the product to PAS 1188-2:2009 does not mean it is suitable for all buildings or locations. If the user is in any doubt as to the suitability of a product they should seek further guidance as set out in "Temporary and demountable flood protection: Guidance on use (The Environment Agency, 2009 2)", or from the Flood Protection Association (www.floodprotectionassociation.org) or other professional advisers.
