



# Quick Reference Installation Guide

[www.AquaDam.net](http://www.AquaDam.net) – 800.682.9283

**Task:** Tie the starting end of the AquaDam to an anchor-point (Deadman dam, ecology block, tree, or equipment). Black seatbelt is used to tie the AquaDam to the excavator in the picture at right. Larger dams should be tied down to a more permanent structure.

**Consequence of Failure:** Open starting end of the AquaDam slips down the bank, allowing water to escape, reducing achievable height of the main body of the unit.

**Task:** Control Lines (white rope in picture) are laid beneath the AquaDam, then back over the AquaDam. The control lines are then tied to the anchor point at the start end, with the other end of the rope held by a person to control the rate that the AquaDam unrolls.

**Consequence of Failure:** AquaDam unrolls in an uncontrolled manner, subject to influence from surrounding water flow.



8ft tall, 100ft long AquaDam sits at the top of the starting bank

**Task:** Identify high and low ground – Start the dam at high ground. Avoid low ground where possible.

**Consequence of Failure:** Possible reduction in achievable AquaDam height, controllable water depth, or both.

**Task:** Elevate the open end of the outer sleeve of the AquaDam higher than the filled elevation of the main body of the AquaDam, using berm, bank, or “Starter AquaDam”.

**Consequence of Failure:** Reduction in achievable AquaDam height, controllable water depth, or both.



8'x100' long AquaDam has been unrolled down the starting bank.

**Task:** Use 2”x 6” boards, 1-3ft in length, to form temporary bracing along the downhill side of the AquaDam, prior to and during filling. The dam will resist down-slope movement when full, but may require the bracing support during the filling process.

**Consequence of Failure:** Unintended lateral/downhill movement of the AquaDam during installation process.



Many 2-board braces are in place along the side of the partially filled AquaDam, in the area it is running parallel to the bank.

This is not intended to be a full installation guide. Please refer to the full installation guide available at <https://www.aquadam.net/resources/downloads/> for more details. Your site conditions may vary from those depicted, and may require different installation techniques. No guarantees are offered or implied.

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**Task:** Fill both sides of the AquaDam at the same time and rate – the stability of the AquaDam depends on (2) equalized internal columns of water.

**Consequence of Failure:** Unintended movement (leaning/rolling) or in extreme cases, may burst inner tubing.



Two blue-color hoses are used to fill the two AquaDam inner tubes

**Task:** Make a Turn – The AquaDam must not be filled above surrounding water level. Pull the material of the AquaDam on the inside edge of the turn to get slack into the inside of the turn, re-orienting the AquaDam roll. Turn down the pump(s), filling the side of the AquaDam along the inside of the turn to help form this turn.

**Consequence of Failure:** AquaDam installation along unintended/undesired alignment.



One turn has been made, and another is about to be made

**Task:** Stop pumping when AquaDam is full. AquaDam is full when design height is achieved at lowest point along path of dam.

**Consequence of Failure:** AquaDam will fill to design height, at the lowest spot along its path. If it is over-filled, sections of the AquaDam on elevated ground will continue to fill, exerting additional pressure on the AquaDam at the lowest point along its path. The structural integrity of the AquaDam may be compromised not long after exceeding its design height. Over-filling is not an option.



6ft tall men standing by 10ft, 16ft, and 21ft tall AquaDams (foreground to background)

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