



Waterfront Barrier Model 2001XL

**Intent:** The intent of this specification is to describe the Yodock Floating Waterfront Barrier (YFWB) Model 2001XL. The YFWB Model 2001XL has been designed and developed by the Yodock Wall Company as a relatively large, yet portable, waterfront floating security barrier for application as a floating protective barrier for ports, harbors, marine terminals, shipyards, and other high value or security sensitive waterfront structures and vessels. The design of the 2001XL is based on years of experience and testing of Yodock landside traffic barriers and Yodock waterfront security barriers including the mid-sized YFWB 2001BB waterfront barrier. The larger sized 2001XL waterfront barrier described herein is directly applicable to the following security and related requirements:

- Providing a clear line of demarcation on the water
- Providing an impediment to swimmers attempting to cross into a security area
- Providing a substantial impediment to small vessels attempting to penetrate a security area
- Providing substantial capability in the disablement of small vessels attempting to penetrate a security area
- Assisting in providing wave and wind protection by providing a protective lee
- Providing a floating platform for installation of other detection or monitoring equipment

**Description:** The YFWB Model 2001XL is comprised of an external shell of extremely durable 8mm polyethylene plastic. The interior of the barrier unit is fitted with a longitudinal structural steel strength member with a shackle connection or attachment point at each end. The strength member provides the longitudinal or tensile strength for the purpose of connecting units together. The strength member also has two sleeves that extend upward through the main cavity to the top of the unit. These sleeves are designed to accommodate options such as lifting eyes, fencing, and sign posting. The tension member also has steel bars that extend downward through the lower cavity of the unit to the concrete ballast insuring that the internal structure remains securely intact. The internal ballast, which is positioned in the lower portion of the unit cavity, has been designed to ensure that the unit will remain stable and vertical under normal current, wave, and wind conditions. The remaining interior void space of the unit is filled with polyurethane (floatation) foam. Galvanized safety shackles are used to connect the waterfront barrier units together.

**Tests:** All Yodock waterfront floating security barriers have gone through a series of rigorous structural, corrosion, and survival tests in the laboratory and during field tests in high energy and environmentally harsh locations. Test results are available upon request.

**Construction: Specifications For The Yodock Floating Waterfront barrier Model 2001XL (Note: Waterfront barrier Dimensions and Weights are approximate)**

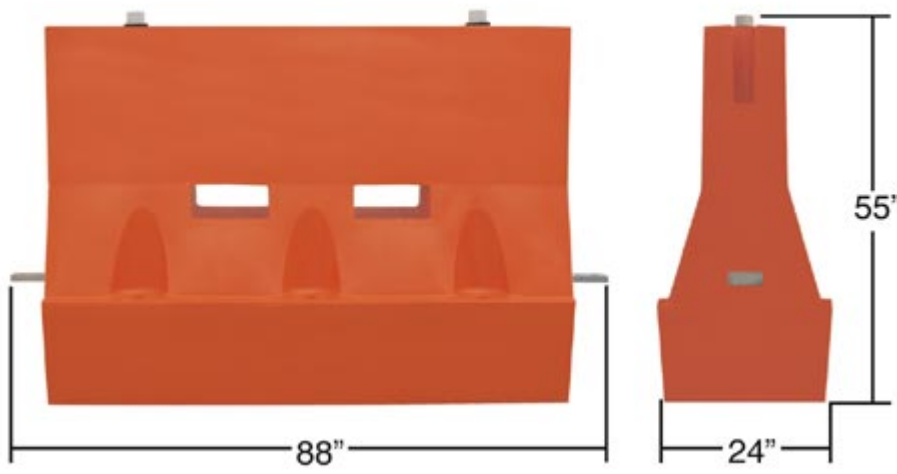
**Manufacturer: Yodock Wall Company, Inc.**

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- Strength Member:** Galvanized Structural Steel Channel (C4 x 5.4)
- End Eyes:** Galvanized 1" x 3" steel plate, drilled with two 7/8" holes
- Interior Foam Fill:** Polyurethane Closed Cell Foam
- Weight (In Air):** 800 pounds
- Reserve Buoyancy:** 1300 pounds
- Shackle Connector:** 3/4 inch (5 ton working load) Galvanized Safety Shackles & Rings (Connection hardware as required by individual site conditions)
- Operating Air Temperature Range:** 0° to 140° F (-18° to 60° C)
- Conditions & Water Temperature Range:** 32° to 110° F (0° to 43° C)
- Limitations Salinity Range:** Fresh Water To Ocean Water (Up to 35 ppt)

- Model: YWFB 2001XL**
- Shell Material:** Recyclable Polyethylene (Rotationally Molded - 8mm thickness), U.V. Inhibited
- Colors:** Standard colors available are Natural (Opaque Ivory), Safety Orange , and Black. Other colors are available upon request
- Length (Molded):** 72 inches (6.00 feet) (1.83 meters)
- Length (Overall):** 88 inches (7.33 feet) (2.24 meters)
- Width (Beam):** 52.0 inches (4.33 feet) (1.32 meters)
- Height (Overall):** 47.5 inches (3.96 feet) (1.21 meters)
- Draft:** 15.0 inches (1.25 feet) (0.38 meters)
- Freeboard:** 37.0 inches (3.08 feet) (0.94 meters)
- Ballast:** Fiber Reinforced Concrete

88" Length x 24" Width x 55" Height



**Options:**

- Topside:** Chain link fencing, Barb wire / Concertina wire, Marine lighting, Reflective Tape, Signposts, Lifting eyes, Stainless Steel structural members and shackles/hardware
- Below:** Silt curtain, Anti-swimmer / anti-diver netting
- Hardening Options:** Welded shackle connections, Wire rope for moorings

**Note: Yodock Wall Company, Inc. reserves the right to modify or substitute barrier components, parts, and fittings with items, which will meet or exceed the stated specifications.**

