



BEDFORD
TECHNOLOGY
SMARTER LUMBER

Santa Cruz Harbor

CASE STUDY



»»» The Story

The Santa Cruz Harbor is a full-service marina in mooring and berthing. This bustling harbor offers charters for sailing, fishing, whale watching, eco-tours, kayaking and more. There are also many activities available out of the water as well, including restaurants, an RV park, beaches and retail shops, the Santa Cruz Harbor is a destination spot for both locals and tourists. When a Tsunami hit Japan in 2011, the effects reached the Santa Cruz Harbor 5 hours later. With massive amounts of damage to boats and the harbor itself, it was crucial for the Harbor to be rebuilt quickly and use material that could stand the test of time and wavering weather conditions.



“FiberForce® by Bedford Technology has exceeded expectations.”

»»» The Challenge

The damage from the tsunami, according to city officials, cost over \$22M. Due to the devastating damage and the amount of traffic the Harbor receives, a quick turn-around, durable and cost-effective solution was needed.

»»» The Solution

Schrader Co. Sales, LLC, a Bedford Technology manufacturing representative, partnered with Bellingham Marine, a premier marina contractor and shortly after included FEMA in on the project. Together they set out to find the right product for the reconstruction of the Harbor.

The project itself had many requirements; the material needed to perform exceptionally well in extreme environments and have a low life-cycle cost. Another requirement was a quick turnaround time because of the heavy traffic the Harbor receives on a daily basis.

The engineering team had used plastic composite lumber in previous projects and was aware of its benefits, including longevity, durability in harsh environments and low-maintenance costs.

FiberForce® was chosen because the product was reinforced with fiberglass strands for added rigidity and strength. By partnering with Bedford Technology, Schrader Co. Sales, LLC and Bellingham Marine were able to use structural reinforced HDPE plastic lumber to rebuild over 20 docks and 470 berths of the Harbor.

»»» The Results

FiberForce® by Bedford Technology has exceeded expectations. Over 6,000 ft. of docks and finger piers have been rebuilt using this product. Since initial installation in 2011, the Harbor still looks brand new. The docks and piers are still fully intact and have proven to last through all of the busy traffic and weather conditions.

Project Date:

2011

Customer Overview:

The Santa Cruz Harbor, completed in 1964, acts as a community resource, serves as a marine rescue and offers educational opportunities. The harbor provides permanent mooring for approximately 1,200 wet-berthed and 275 dry-stored vessels to both residents and tourists.