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Let's learn about docks and ramps

Common terminology

Dock - floating platform

Pier - a platform suspended on pilings or concrete legs

Walkway - the wooden or aluminum walking area leading to the ramp or walkway

Gangway - a plank or trussed Aluminum Bridge leading usually for shore or walkway down to the dock.

Sona column - a concrete column that is used to support walkways and/or piers

Pilings - steel pipe or wooden logs driven into the bottom of a leg of ocean that is used to suspend decks, house for secure dock in the place

Ramp - the trussed aluminum bridge between the shore or Pier head and the floating dock

Pier head - the wooden, steel or concrete embedment at the farthest point from land where the ramp usually attaches.

Mezzanine deck - a decks usually at the end of the Pier used for storage off dolleys, wheelbarrow or for taking afternoon tea in the sun

Counter balanced ramps - a system using concrete weights to raise the ramp of the dock in the horizontal position when not in use

Gantry - a series of tall poles on either side of the ramp and cable running over the poles from the far end of the ramp to a winch to raise the end lower the ramp

Anatomy of a dock.

Tie Rails - 4x4 or 4x6 railing running lengthwise for boat tie-ups.

Cleat - a steel mooring fastener.

Decking

Radius edge pressure treated

2x6 pressure treated

Concrete panel

Non-slip aluminum

Plywood

Skirt board - a 2x12 skirting around the dock

Sub frame - 6x6 / 4x6 / 6x8 Depending on model, the frame immediately below the decking.

Flotation billets - the modular devices used to float the dock or structure.

(rotary molded plastic billets foam filled)



Marine Construction Process

The marine construction process involves various steps to ensure your structure is completed on time and within budget. Stiles Bee not only gets the project started through proper permitting, but we work with architects, engineers, developers, other contractors and required officials throughout the building of your dock, seawall, or other marine construction need. In addition, you can rest assured that on-site supervision will be available for the duration of the construction project.

Overview of the Marine Construction Process

1. Project design
2. Permitting
3. Ordering materials
4. Site management and supervision
5. Coordinate inspections
6. Project Completion and Clean-Up
7. Post Project Service

Eco Friendly Marine Construction

It is the mission of Dale's Marine Construction, Inc. (DMC) to provide eco friendly marine construction services to all of our clients. We strongly advocate the use of installation techniques that provide minimal or no impact to the environment and complete every job with respect to the surrounding landscape and marine wildlife.

Our mission includes the use of recycled and special composites that will not deteriorate or bleed into the environment. Adherence to this mission enables us to protect the shoreline, shield the environment and consistently abide by federal, state and local environmental protection guidelines.

- We aim to defend against beach erosion, protect natural habitats and remain a leader in the use and installation of environmentally friendly marine construction services.
- We encourage the installation of vinyl seawalls over conventional materials for increased longevity and environmental protection.
- Whenever possible, we use non-metal parts, recycled products, and alternate decking materials such as Choice-Dek©, a composite of recycled cedar wood and plastic polyethylene.
- We encourage the use of stainless steel/aluminum/hot dipped galvanized boatlifts that have no metal parts in contact with the water.
- We promote ½" spacing between all deck boards to insure sunlight will radiate to under water growth communities.



- We work with permitting agencies to ensure all work is in accordance with the strict environmental rules and regulations that govern the marine construction industry.
- We advocate the use of PVC pole liners to limit the potential for leaching treatment compounds into the surrounding waters. Pole liners also reduce the likelihood that woodborers will attach to the poles and destroy them.
- We deploy turbidity curtains when disturbances are created while jetting.
- We believe that being environmentally friendly is more than a current fad, it is a responsibility.