

The Unideck® system

Bellingham Marine offers an aluminum jetty system, fixed or floating, as part of the engineered tradition of our products. The Unideck® system offers a wide range of standard or custom products to supply both fresh water lakes and waterways or protected marine areas.

Bellingham Marine has its own dies for a selection of extruded aluminum profiles and is always working with its suppliers to develop new profiles to meet the needs of customers whilst continuing to remain competitive. All the pontoons are fabricated in our own manufacturing plants.

The Unideck® system has proven its durability for nearly 25 years. The system is lightweight, easy to transport and install, and has a lifetime of about 15-20 years of regular maintenance and site exposure.



UNIDECK®

Inland water flotation systems

Innovative solutions for the development of ports and coasts



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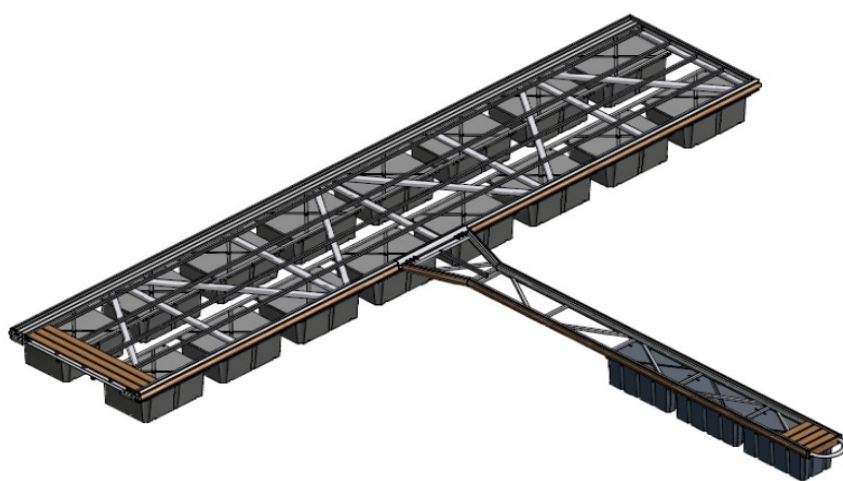
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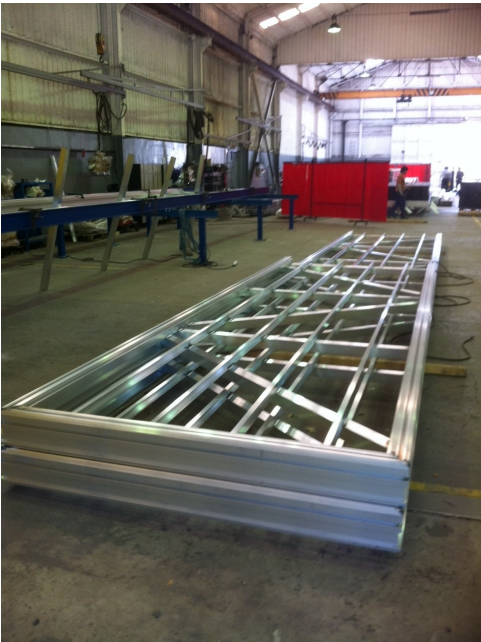
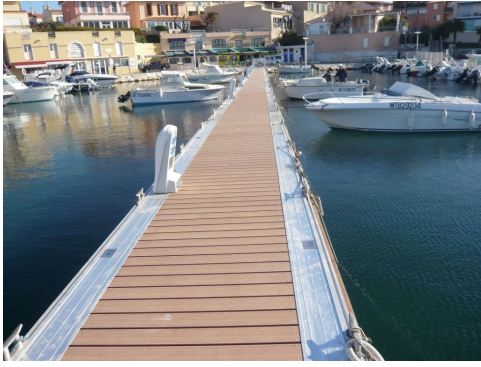
Technical Details of Unideck® floating systems: The Unideck® system consists of structures made from corrosion resistant aluminum, covered with various decking options and connected together by silent block composite rubber hinges.

Specific features of the Unideck® system: The edge profiles we use are made in aluminum alloy 6106 T5 and have an excellent balance between dimension / weight / inertia. These profiles allow for pontoons supporting vertical loads up to 300 kg / m². The profiles have a top guide rail and up to two side rails which allow a slide mounting for mooring cleats, anchoring chain plates and other accessories.

Freeboard: The freeboard height of the pontoon is calculated for a single module free of anchoring and all ancillary equipment and is generally 550mm.

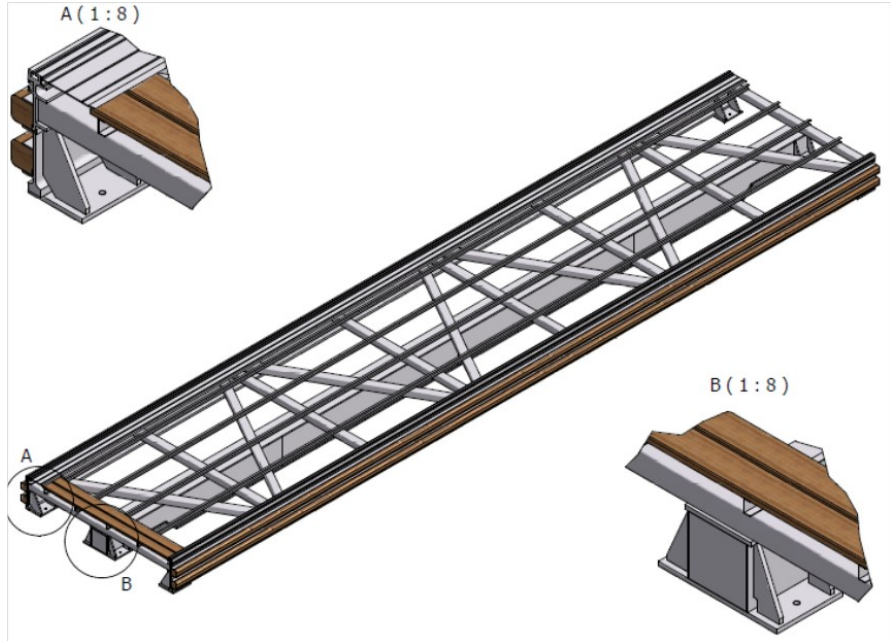
Buoyancy: The number of floats required to take the loading is calculated for a single module, free of anchoring and all ancillary equipment loaded equal to the width of the deck visible to maintain the decking out of the water under a uniformly distributed load of 250 Kg / m² on the pontoon module.

Stability: This value is determined under the same conditions as the freeboard with loading for a live load applied over a half-width of the dock under a uniformly distributed load of 250 Kg / m².



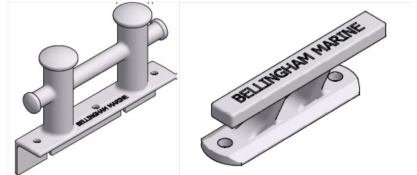
Heeling angle: This value is determined in the same conditions as the freeboard and load-bearing for an overload applied uniformly over a half-width of the dock. Maximum angle of heel of 15 °.

Specific features of the Unideck® fixed piers: Bellingham Marine uses a unique construction principle for the fixed pier construction that enables us to offer a distance between supports up to 16m. The edge profiles we use are made of aluminum alloy 6106 T5. With our central beam system, we can take live-loads up to 500 Kg / m².

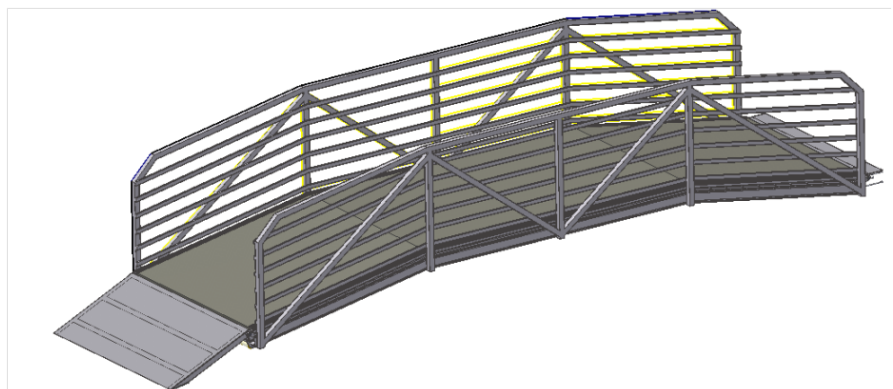


The profiles have a top guide rail and two side rails which allow a slide mounting for mooring cleats and other accessories.

Mooring elements: We have a full range of mooring cleats and rings designed and sized by computerized numerical calculations.



We produce gangways of all sizes in accordance with building codes in force. Our gangways can be equipped with gates, and other security features to prevent unauthorized access



Regarded as the world leader in the design and construction of marinas, Bellingham Marine develops Unifloat® and Unideck® solutions for facilities saltwater and fresh water, and Unistack® system for dry marinas. Bellingham Marine is present on all continents