



Marine Fenders International, Inc.

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Ocean Guard™ Fenders Chosen for the Harshest Marine Environment.

Marine Fenders International, Inc., a leading manufacturer of marine fendering systems was selected to supply our *Ocean Guard™* Netless foam filled marine fender system for the one of the harshest marine environments in the world, the DeLong Pier at the Thule Air Base in Greenland.

The Maintain DeLong Pier project is located at the DeLong Pier along the Waterfront. The maximum mean daily temperature is 7° C (44° F) in the month of July, with a minimum mean daily temperature of -29°C (-20° F) in the month of March.

The DeLong Pier was constructed circa 1950 and is a prefabricated steel structure 1,000 ft long by 50 ft wide oriented in the west-east direction. The pier consists of four (4) steel barge units, each with overall dimensions of 250 ft long by 50 ft wide by 10 ft deep, aligned end to end. The barges are supported by two rows and twenty-four bents of steel pipe caissons. Each barge is supported by two rows of six caissons.

The project work consists of jacketing deteriorated north row caissons, installation of a galvanic cathodic protection system, coating of the south row caisson to barge interface, the installation of a *Ocean Guard™* Netless foam filled marine fender system and the repair of a damaged barge unit.

The replacement fender system consists of the installation of 20 *Ocean Guard™* Netless foam filled fenders measuring 4 ft diameter by 12 ft long each. These tough fenders are constructed with a heat laminated energy absorbing resilient foam core; a thick tough filament nylon tire cord reinforced non-marking urethane skin; and heavy duty integral swivel end fittings internally connected with a stud-link chain.

These *Ocean Guard™* Netless foam filled fenders are designed to absorb 146 ft-kips (20 ton-m) of energy when 60 percent compressed with a corresponding load of 136 kips (62 tons).

Marine Fenders International, Inc.'s *Ocean Guard™* & *Ocean Cushion™* foam filled fenders are constructed and designed for the worlds toughest environments.

ENGINEERED FOR EXCELLENCE.