

XPS Steel Sheet Piling: Going to depths that synthetics only dream of!

Marine Contracting Group in Punta Gorda, Florida was the contractor chosen to build a seawall for Sarasota Yacht Club in Sarasota, Florida. Their field experience immediately identified the problems with driving synthetic sheeting in these soils. The specified sheet piles just weren't strong enough for this job. They contacted the original site engineer who turned to Skyline Steel Sheeting Solutions for guidance.



Coated sheet pile staged for delivery



XPS replacing failed composite sheet pile



Concrete structural cap and tie-back nearing wall construction completion

► Problem

The specified sheet pile, a synthetic fiberglass, failed during installation. Numerous test piles were driven at various locations and all failed. The project was at a standstill and the developer and contractor were losing money with each passing day.

Skyline Steel created Sheeting Solutions to focus on light marine seawall and bulkhead applications. Marine Contracting Group called upon Skyline's engineering and sales professionals to analyze the site and scope. It was quickly determined that a combination of inadequate soil analysis and an overextended seawall design of synthetic sheets led to an inferior specification.

► Solution

The strength, stiffness and drivability of steel, coupled with the availability and speed of installation were the obvious

solution. The only issues to overcome for the Owner and Designer were aesthetics and durability. That is until Sheeting Solutions introduced The XPS system (X-treme Performance Steel). This revolutionary system is a marriage of high strength steel sheet piles and marine coating technology developed from the shipbuilding industry. This coating system chemically bonds to the steel to provide the aesthetic benefits with corrosion and abrasion resistance never before achieved in fresh and salt water environments. Waterfront developers can now have the strength without compromise of beauty in their seawall structures.

► Result

The XPS coating system was custom colored to match the upscale architectural plan of the Sarasota Yacht Club while extending the design life to 50 years. The speed that Skyline supplied coated steel sheets

significantly minimized the losses experienced due to the synthetic sheet pile failure.

Sheeting Solutions offers a wide range of piling products including synthetics. Unlike synthetic producers, we believe in letting the engineering drive the application solution, not our inventory!

► Project Details

Material:

909 linear wall feet of XPH-27 at 20 foot lengths

Piling Contractor:

Marine Contracting Group

Owner:

Sarasota Yacht Club