

The Port of Baltimore is the ninth largest port in the United States for international cargo value. Dundalk Marine Terminal is the largest general cargo facility at the Port of Baltimore which handles diverse bulk and general cargoes.

Terre Hill Concrete Products recently completed a project at the Dundalk Marine Terminal in Baltimore County, Maryland. The project included the manufacture and delivery of precast pile caps and deck slabs used in the rehabilitation of Berths 11 and 12.

The year and a half project began in September of 2016 and was completed in February of 2018. The precast pile caps measured 4'2" x 2' x 36' and weighed 46,000 lbs. each. The deck slabs measured 13' feet long with variable widths of 6', 7.5', and 8'.

Because of the harsh environmental conditions at the site, the concrete used was a 6,000 PSI high-performance mix. The mix incorporated Type II cement, ground granulated blast-furnace slag (GGBFS), and a calcium nitrite corrosion-inhibiting admixture. Additionally, all of the rebar incorporated into the precast units were galvanized to aid in corrosion prevention.

The exposed top face of both the pile caps and slabs had a raked finish and extended rebar which was incorporated into the topping concrete cast on site after the precast units were installed. This created a composite structure when the work was completed.

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PRECAST CASE STUDY

PROJECT:
DUNDALK MARINE TERMINAL

LOCATION:
BALTIMORE, MD

PRECAST MANUFACTURER
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