

# Fornit® biaxial geogrid for base reinforcement



## Project Description

The Dames Point Marine Terminal is the Jacksonville Port Authority's (JAXPORT) newest marine facility. The terminal fronts on the harbor's 41-foot deep channel and is only 12 miles from the open sea. This 158-acre facility will be used by a Tokyo-based shipping line, Mitsui O.S.K. Lines (MOL), and its terminal operating partner, TraPac, to load and unload container ships sailing to and from ports in Asia. MOL plans to initially move these containers, full of consumer goods, on and off the terminal by truck.

At the site of the new TraPac Container Terminal, W.G. Yates & Sons Construction Company constructed two 1,200-foot berths and paved the container storage area.

## Fornit® Variable Mesh Size

*Fornit® geogrids are manufactured with a variable mesh size across the 17' wide rolls. The geogrid apertures vary between the inner 15' of the roll width and the outer edges. This variable mesh size provides separation and reinforcement throughout the interior of the roll while maintaining continuity of tensile strength across geogrid overlaps.*

**Product:** Fornit® 30

**Project Name:** Dames Point Container Terminal, Jacksonville, FL

**Contractor:** W.G. Yates & Sons/Superior Asphalt

**Engineer:** Thompson Engineering

**Year of construction:** 2008

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## Fornit® 30 Performance

Fornit® 30 was installed on the project as a value engineered solution. Aggregate base course thickness beneath the asphalt was reduced from 12" to 8" as a result of using Fornit® 30, leading to significant savings for JAXPORT. Fornit® 30 was chosen because of its exceptional tensile properties and engineered aperture stability. With tensile strength of over 500 lb/ft at 2% elongation and 1,800 lb/ft at ultimate, Fornit® 30 was the ideal reinforcement solution for this project. The apertures of Fornit® 30 are designed to provide separation of base materials from subgrade soils while maintaining interlock of the base materials. This confinement prevented lateral deformation of the base course and resulted in a superior compactive effort. The 17 foot width of Fornit® rolls added value because fewer overlaps were required than with narrower products, resulting in less waste. With no sharp edges or roll "memory", installation of Fornit® 30 was smooth and easy.



## Product Description

Manufactured with high strength polypropylene yarns and coated for protection against both installation damage and exposure to ultraviolet rays, Fornit® geogrids are made to last. Strong and durable, they reinforce, confine, and separate unbound aggregate base and subbase materials. Fornit® geogrids are easy to install and are resistant to freeze-thaw conditions and soil chemicals. By distributing loads over a greater area, Fornit® geogrids dramatically improve the bearing capacity of subgrade soils. Fornit® geogrids are manufactured in HUESKER's ISO 9001 certified production facility.



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