

OPTIPAWETM PAVEMENT SYSTEM

OptiPaveTM



TCPavementsTM

- 1 INCREASE SERVICE LIFE**
- 2 REDUCE MAINTENANCE**
- 3 MINIMIZE CURL & STRESSES**
- 4 ELIMINATE DOWELS & REBAR**
- 5 RESOURCE EFFICIENCY**

The OptiPave System provides the most cost-effective and sustainable design to compete with asphalt paving. Utilizing proven proprietary tools and technologies that optimize pavement design, the OptiPave System reduces construction and maintenance costs while maximizing performance and service life.



SHORT PANEL JOINTING PATTERN, 5-8 FT

The OptiPave System is a revolutionary design method aimed at reducing thickness without sacrificing concrete performance and is recognized in ACI 330.2R-17.

TCPavements, OptiPave System for Industrial Pavements, is licensed in the United States by PNA in collaboration with FORTA.

OptiPaveTM
TCPavementsTM

PNA
CONSTRUCTION TECHNOLOGIES

FORTA
STRONGER LASTING[®]

ALDI DISTRIBUTION CENTER - VA

Traffic: 3M ESALs
5.5in Thick
600PSI Flexural Strength
FORTA-FERRO
6ft Joint Spacing
6in granular base

PROLOGIS - IL

Traffic: 6M ESALs
6.0in Thick
580PSI Flexural Strength
FORTA-FERRO
6ft Joint Spacing
6in granular base

INCREASED SERVICE LIFE AT A LOWER COST OF OWNERSHIP THAN ASPHALT

While the need for a cost-competitive concrete pavement alternative to asphalt paving drives growth of the OptiPave™ System in North America, this optimized pavement design boasts 20+ years of proven performance in the South American market where it was first developed. We also have projects in the United States that have been in service for more than 6+ years with excellent performance. Contact us to set up an in person or virtual meeting to learn how you can take advantage of the OptiPave System.

LESS OUT-OF-JOINT CRACKING

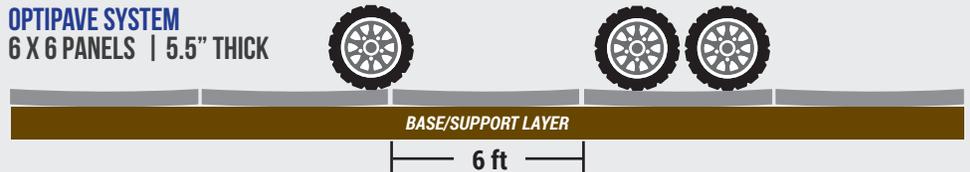
OptiPave design software accurately predicts performance over time. A shortened panel reduces the amount of curl and prevents both edges of the panel from being loaded simultaneously.

This optimized design permits significant reduction in thickness all while providing owners with a durable concrete pavement that requires minimal maintenance.

CONVENTIONAL DESIGN 12 X 15 PANELS | 8" THICK



OPTIPAVE SYSTEM 6 X 6 PANELS | 5.5" THICK



FORTA-FERRO® IN THE OPTIPAVE SYSTEM

In the OptiPave System, FORTA-FERRO provides the residual strength required to restrain bottom-up cracks. The fibers act in tandem with the subgrade support, which provides confinement and friction while the fibers restrict the crack opening to redistribute forces. This heavy-duty macrosynthetic fiber can reduce pavement thickness, offers improved impact, abrasion resistance and provides maximum long-term durability; extending beyond the pavements design life.



REINFORCEMENT THROUGHOUT →

FORTA-FERRO is an easy to finish, color-blended macrosynthetic fiber made of 100% virgin copolymer/polypropylene. It's twisted-bundle monofilament and fibrillated fibers yield a high-performance concrete reinforcement.

