

OPTIMIZED PAVEMENT DESIGN

1 MINIMIZING CURL & STRESSES

2 REDUCING PAVEMENT THICKNESS

3 ELIMINATING DOWELS & REBAR

4 INCREASING SERVICE LIFE

5 SUPERIOR MIXING & FINISHING

TCP

PROPRIETARY

SYSTEM

The TCP Proprietary Paving System provides the concrete industry with the most cost effective and sustainable design to compete with asphalt paving. PNA Construction Technologies, in collaboration with FORTA, now offers this advanced concrete engineering system for industrial pavements & public roads. Utilizing proven proprietary tools and technologies that optimize pavement designs, the TCP Proprietary Paving System reduces construction and maintenance costs while maximizing performance & service life.



SHORT PANEL JOINTING PATTERN, 5-8 FT

TCP Proprietary Paving System is a revolutionary design method aimed at reducing thickness without sacrificing concrete performance. It is designed using OptiPave®, a tool recognized in ACI 330.2R-17.

PNA Construction Technologies, in collaboration with FORTA, offers world-class design services and on-site support.



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

← REINFORCEMENT THROUGHOUT

INCREASED SERVICE LIFE AT A LOWER COST OF OWNERSHIP THAN ASPHALT

While the need for budget friendly alternatives to asphalt paving drive initiatives for TCP in North America & Europe, this optimized pavement design boasts 20 years of proven performance in the South American market where it was first developed. Contact us to set up a virtual meeting to learn how you can take advantage of the TCP Proprietary System.

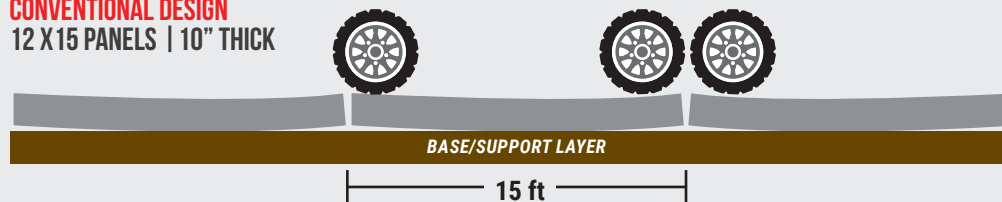
LESS OUT-OF-JOINT CRACKING

TCP's proprietary design software accurately predicts performance over time.

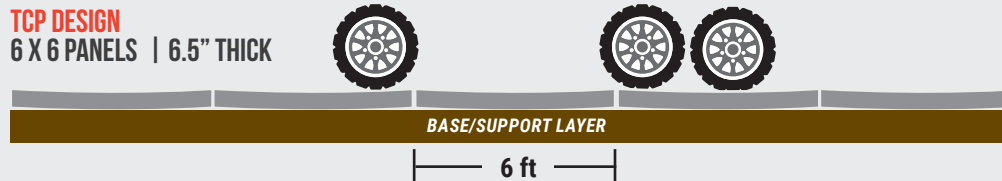
A shortened panel reduces the amount of curl & prevents both edges of the panel from being loaded simultaneously.

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 | 10" THICK



TCP DESIGN
6 X 6 PANELS | 6.5" THICK



FORTA-FERRO[®] MACRO SYNTHETIC FIBER

Improves crack control & ductility—leading to increased fatigue resistance & durability.



NIGEL PARKES
BUSINESS DEVELOPMENT



SHERRY SULLIVAN
MAsc, PE, LEED AP
BUSINESS DEVELOPMENT &
PAVEMENT ENGINEERING



JERRY WELCH
DIRECTOR OF
ENGINEERING



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CONTACT US TO LEARN MORE ABOUT OUR
FAMILY OF PAVEMENT SOLUTIONS

WORLD-CLASS DESIGN SERVICES
ON-SITE SUPPORT

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