

OPTIPAVE[®] PAVEMENT SYSTEM



**1 INCREASE
SERVICE LIFE**

**2 REDUCE
MAINTENANCE**

**3 MINIMIZE
CURL & STRESSES**

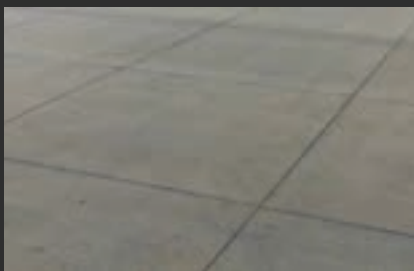
**4 ELIMINATE
DOWELS & REBAR**

**5 RESOURCE
EFFICIENCY**

Discover FORTA's latest innovation in concrete pavement engineering: the OptiPave System. Revolutionizing the industry, this advanced system delivers a cost-effective and eco-friendly concrete design, poised to challenge traditional asphalt paving. Through the integration of cutting-edge proprietary tools and technologies, OptiPave optimizes pavement design, reducing construction and maintenance expenses while enhancing performance and extending service life.

ARROWHEAD ROAD - NANTUCKET, MA

5.5in/140mm Concrete Thickness
with 4.0in/100mm Granular
FORTA-FERRO[®]
6ft/1.8m Joint Spacing



SHORT PANEL JOINT SPACING, 5-8 FT
(1.5-2.4M)

At FORTA, we specialize in customizing your pavement designs to meet the requirements of your individual project. Through detailed analysis, we will provide you with a competitive, cost-effective, durable, & environmentally responsible concrete pavement design.

INDUSTRIAL DISTRIBUTION CENTER- TX

Traffic: 4M ESALs
5.5in/140mm Concrete Thickness
580PSI Flexural Strength
FORTA-FERRO®
6ft/1.8m Joint Spacing

CEMENT TERMINAL - QC, CANADA

Traffic: Cement Tankers
6.0in/150mm Concrete Thickness
650PSI Flexural Strength
FORTA-FERRO®
6ft/1.8m Joint Spacing

INCREASED SERVICE LIFE AT A LOWER COST OF OWNERSHIP THAN TRADITIONAL 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 North America that have been in service for more than 8+ 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.

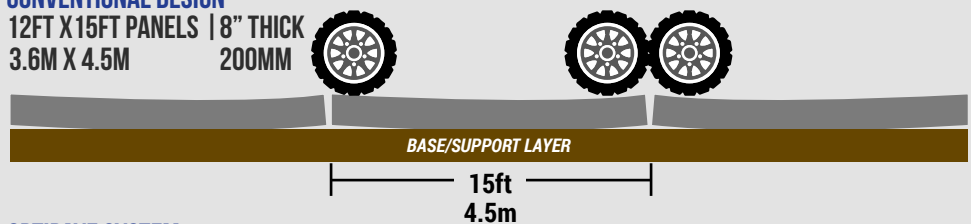
LESS OUT-OF-JOINT CRACKING

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.

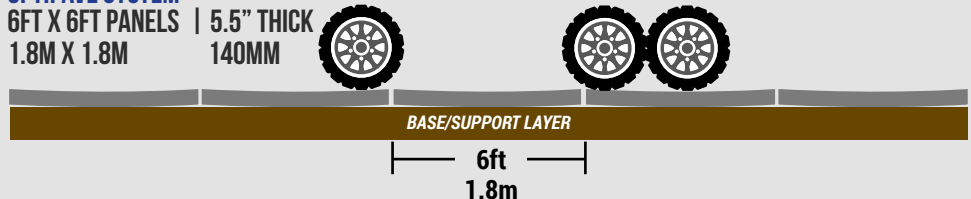
CONVENTIONAL DESIGN

12FT X 15FT PANELS | 8" THICK
3.6M X 4.5M 200MM



OPTIPAVE SYSTEM

6FT X 6FT PANELS | 5.5" THICK
1.8M X 1.8M 140MM



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 any potential cracks from 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.