Durisol®

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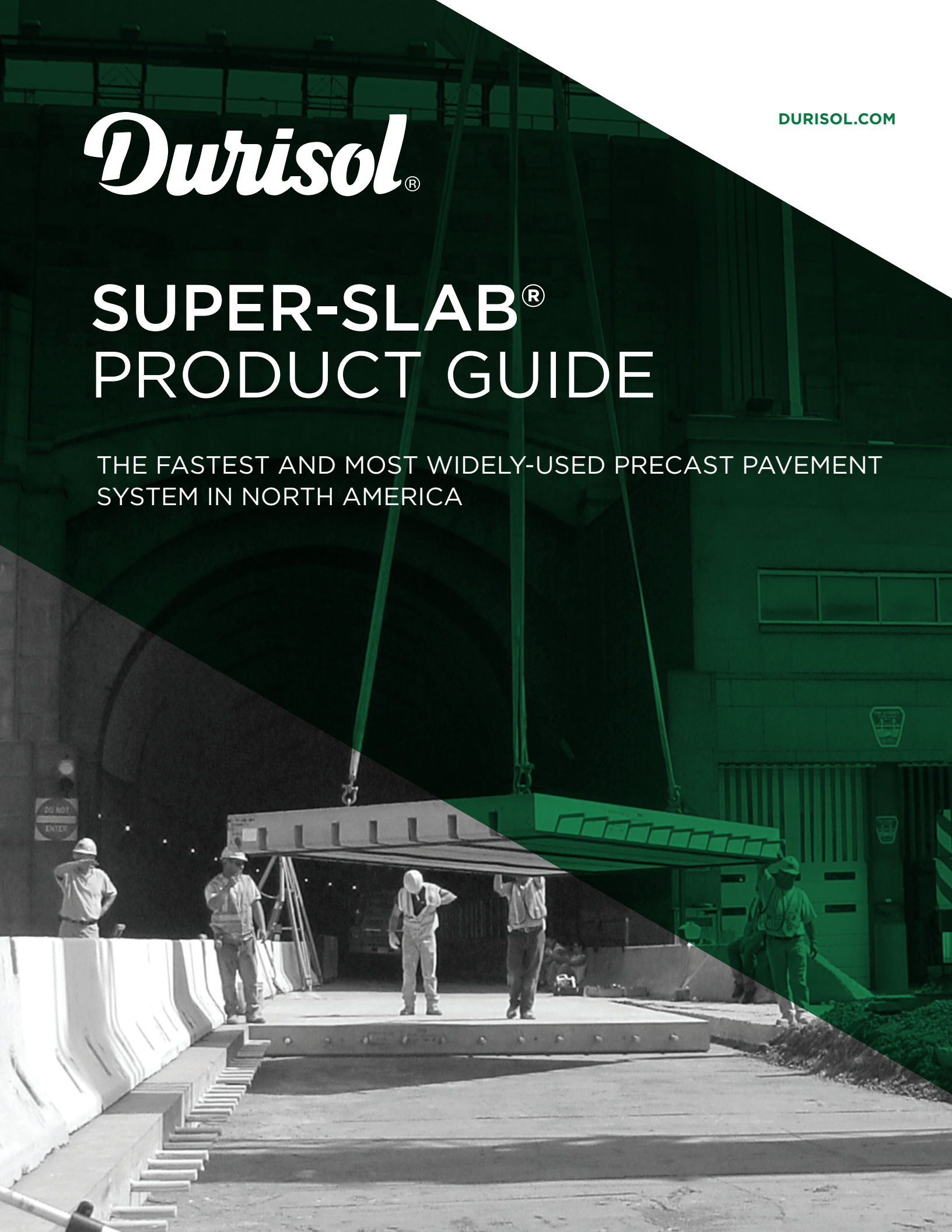
SUPER-SLAB® PRODUCT GUIDE

THE FASTEST AND MOST WIDELY-USED PRECAST PAVEMENT SYSTEM IN NORTH AMERICA



The Super-Slab® System places precast slabs directly upon a fully engineered sub-grade surface that provides nearly complete slab support immediately upon installation. After the slabs have been placed, they are structurally interlocked with a unique grouted load transfer system. Complete slab support is achieved when bedding grout is pumped into a bedding grout distribution system that is cast into the bottom of the slabs.

Super-Slab® is used for continuous and intermittent pavement replacement. Slabs are precisely cast to fit curved and super-elevated geometry specific to each location. This feature makes it possible to replace entire mainlines, ramps, intersections and even crosswalks in a series of 8 hour (or less) roadway closures.

APPLICATIONS

- Bridge Approach Slabs
- Three-Dimensional Ramps
- Intermittent Repair
- Toll Booths
- Intersections
- Utility Cuts

SYSTEM ADVANTAGES

- Higher initial costs offset by less construction and labour time and extended system life
- Reduced weather related delays during construction
- Minimized road closures and traffic delays
- Indoor casting in certified plant
- Rapid Installation
- **40-year service life**

1. CUTTING

2. GRADING

4. GROUTING

3. SLAB PLACEMENT

SYSTEM FEATURES

- Engineered Subgrade and Pavement Surfaces
  - Three-Dimensionally Correct and accurate to 1/8" ±
- Cast-in Bedding Grout Distribution System
  - Ensures Complete Slab Support
- Bottom-of-the-Slab Structural Interlock
  - Standard Dowels and Tie Bars
- Precision Slabs
  - Accurate to 1/8" ±

PAVEMENT LIFE

- Heavy Vehicle Simulator Tested
  - 143 Million ESALs
  - 4.3 Million cycles
- Manufactured and Cured in a Controlled Environment
- Excellent FWD Results
- Slabs in service since 2001

DURISOL PROVIDES

- Engineered Shop Drawings
- On-Site Technical Assistance
- Project Design Support
- Training
- Manufacturing and Delivery

CASE STUDY: **AUTOROUTE 427 REHABILITATION**

TORONTO, CANADA

The project consisted of both intermittent and continuous repair on several areas of the QEW-HWY 427 northbound (NB) ramp and 427 (NB) Express route mainline. Normal weight precast concrete Super-Slab® panels were used for full depth replacement.

Project Particulars

Traffic Count
325, 000 ADT

Work Window
8-Hour Night Time Closure

Type of Contract
Design, Bid, Build

Specification
Ontario Ministry of Transportation Special Provision

Type of Repair
Continuous and Intermittent

Slab Installation

Installation Dates
Fall, 2008-2009

Months of Installation
Two

Production Rate
10 slabs/night (Avg)

Slab Details

Slab Dimensions
3.66m W (Avg.) x 3.5m L (Avg.) x 0.215m THK.

Slab Area
30,000 sq. ft. (2,793.1 sq. m.)

No. Slabs
240

Surface Type
All slabs were single plane

Project Participants

Owner
Ministry of Transportation, ON

Design Engineer:
URS

General Contractor:
Brennan Paving

Precaster:
Durisol

The Super-Slab® technology is made available throughout the United States and Canada by Durisol.

Super-Slab® and the Super-Slab® Forming Systems are protected under at least one of U.S. Patent numbers; 6,607,329 B2, 6,663,315, 6,709,192, 6,899,489, 6,962,462 and 7,004,674 and 7,467,776 B2; Canadian Patent number 2,413,610, 2,525,264, 2,584,721 and other foreign patents pending. Super-Slab® is a registered U.S. Trademark owned by Durisol.

Drawings and product details are for information and/or illustrative purposes only and may vary. Please contact your Durisol representative for the most current product information:

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FORT MILLER

SUPER-SLAB®

Durisol®

Durisol® is the market leader in the noise barrier wall industry. We manufacture and supply a series of unique panel and post wall systems – including our Durisol® precast sound absorption panels and transparent ACRYLITE® Soundstop sheets, as well as narrow footprint retaining walls and fire-rated barriers. Our first noise barriers were installed in Canada in 1977 and in the US in 1986 and are all still in service today. With over 40+ million square feet of wall installed to date, Durisol® noise barriers stop the noise of industrial warehouses, utility enclosure sites and urban infrastructure of all kinds right across North America.

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