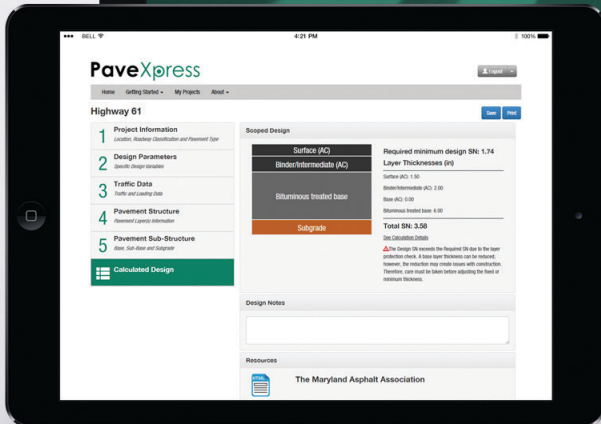


PAVEMENT DESIGN Simplified



PaveXpress



PaveXpress

Home Getting Started My Projects About

Highway 61

1 Project Information
Current, Review, Generate and Revert Data

2 Design Parameters
Specify Design Variables

3 Traffic Data
Traffic and Loading Data

4 Pavement Structure
Material and Layer Information

5 Pavement Sub-Structure
Allow, Sub-base and Subgrade

Calculated Design

Scoped Design

Surface (AC)
Binder/Intermediata (AC)
Bituminous treated base
Subgrade

Required minimum design SN: 1.74

Layer Thicknesses (in)

Surface (AC) 1.50
Binder/Intermediata (AC) 2.00
Base (AC) 0.00
Bituminous treated base 0.00
Total SN: 3.50

Design Notes

Resources

The Maryland Asphalt Association

PaveXpressDesign.com

Web-Based Pavement Design Tool

Designing the right pavement for the job just got easier thanks to **PaveXpress**, a free web-based pavement design tool for roadway and parking lot pavements.

PaveXpress creates technically sound pavement structural designs for flexible and rigid pavements based on widely accepted standards from the American Association of State Highway and Transportation Officials (AASHTO).

PaveXpress is designed for use by state and local agencies, engineers, architects, consultants, and engineering students who need a reliable way to quickly determine the necessary pavement thickness for a given section of roadway or project. The software only asks users for the inputs required to create technically sound pavement designs, and it suggests industry-accepted defaults where appropriate, although the user can make full use of specific data when it is available. AASHTO layered design analysis helps ensure proper layer support for varying base materials. Context-sensitive help and guidance are available at every step of the scoping process to aid users.

The simplified pavement design tool is based upon design equations from the 1993 AASHTO Guide for the Design of Pavement Structures and the 1998 Supplement to the AASHTO Guide for the Design of Pavement Structures for roadways. For parking lots, two approaches are used. For heavy-duty sections expected to handle truck and bus traffic, AASHTO design equations are employed; for light-duty sections, such as parking stalls, the tool provides access to state-specific flexible pavement designs based upon industry-accepted standards and guidance. PaveXpress also includes links to state and local guidance, as well as to Pavement Interactive, to ensure the appropriate pavement structure is selected for the job.

Projects created in PaveXpress can be printed, shared, and saved, and design options can easily be evaluated in a side-by-side comparison. As a browser-based tool, PaveXpress can be accessed from any computer or mobile device, regardless of screen size or operating system.

FEATURES



Free, web-based tool accessible from any computer or mobile device



Links to recent guidance on pavement design



Pavement structural design based on AASHTO 93/98



Ability to input traffic inputs to model



Project designs can be printed, shared, and saved



Side-by-side comparison with alternative designs



STRUCTURAL DESIGN

Surface (AC)
Binder/Intermediate (AC)
Base (AC)
Bituminous treated base
Subgrade

FORTHCOMING ENHANCEMENTS

PaveXpress continues to be enhanced. In the coming months the tool will be able to accommodate pavement designs for overlays and also to incorporate layered elastic analysis. Stay tuned for further details on those releases. Best of all, these enhancements will be available without any need to download new software or updates: The web-based tool updates automatically.

PaveXpressDesign.com, developed by Pavia Systems, is a free web-based pavement design tool.

PaveXpress

DESIGN WITH CONFIDENCE

Residential Streets

Local Roads

Arterial Highways

Interstates

Parking Lots

PaveXpressDesign.com

