

KYTC Online Lightweight Material on Culvert Design
Quick Start Guide for Utilizing Lightweight Material on Culvert Design

1. **Registration:** Visit <https://lightweightonculvert.uky.edu> and click on the "REGISTER" link. Create your account by providing the necessary information and select "Designer" as your role. You will receive an email confirmation from the web application after registration.
2. **Account Activation:** Open the confirmation email and click on the "Activate Account" link to activate your account.
3. **Log In:** Click on the "LOGIN" link located in the top right corner of the page. Enter your Email Address and Password to log in.
4. **Create a New Design:** Click on "**NEW DESIGN**" to enter input data and generate design results.
5. **Input Design Details:** Enter the required information under the "**Site Information**" and "**Material Property**" tabs. Fields marked with a single asterisk (*) are mandatory. In the "**Material Property**" tab, after entering the necessary data, click the "**Get Results**" button to generate the design results. Fields marked with double asterisks (**) are required when saving data. Use the "**Save**" button to store your inputs and results.
6. **Min. Excavation Design:** The **Minimum Excavation Design** results are displayed under this tab. All cut section data are presented in both table and graphical formats. The graphical outputs include the **Slope Profile View, Top View, Cut Section Views, and 3D LWM Block Visualization**.
7. **Min. LWM Design:** The **Minimum Lightweight Material Design** results are displayed under this tab. The data structure and layout are similar to those in the **Min. Excavation Design** tab.
8. **Attachments:** Once your design information is saved, you will find an "Attachments" tab. Here, you can upload images and files for reference.
9. **Submit Design:** Click on "Submit" button to submit your current design. The Lightweight Material on Culvert Design will be sent to the administrator for review via email.
10. **Print Design Form:** Click the "Print Design Form" button to generate a PDF file for the current design.