

MAGNUM FLYT 1.0a Foundation Layout Software

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INSTALLATION INSTRUCTIONS

1. Download the zip folder titled "MAGNUM FLYT1.0a" from Magnum's website and save on your computer.
2. After transferring is complete, open the zip folder and look inside for a file named "setup".
3. Double click on "setup" tool. The installer should begin. An internet connection may be required to download Microsoft(R) files necessary to run properly. The installation may take a few minutes depending on installation speed.
4. When prompted, select "OK" to finish the software installation. You have now successfully installed the software. On some computers, the software will start automatically after installation.
5. If the software does not start automatically or to run the software in the future, click on your Start menu, then find and click on MAGNUM FLYT 1.0a shortcut. The Magnum FlyT 1.0 icon should appear in your start menu after installation. On some computers, an MAGNUM icon also will appear on your desktop.
6. The foundation layout graph that appears at start-up contains an example foundation. You can erase the cells by clicking once on one of the colored cells. Your cursor should change to a delete symbol (erase mode). Move the cursor around to remove colored cells. Click again on a white space to exit erase mode. To draw your foundation, select a color associated with one of the four wall types. Then click on a white cell in the foundation layout graph. Your cursor should change to cross hairs (drawing mode). Move the cursor around to draw colored cells. Click again on a colored cell to exit drawing mode. Select another color and repeat for a different wall type. You can change the scale of the foundation layout by adjusting the scale factor found at the bottom of the layout graph. Permissible scale ranges from 1 to 100 feet per square.
7. Each of the four colors corresponds to a different wall type. To edit the wall section, click on the edit button next to the color. A new window will open with a graphic representation of the wall section. You can change the section by selecting from the various drop down menus and adjusting the tributary spans, heights, and widths as appropriate. The live and dead loads of the wall should update as you make your selections. Note that some drop down menus and numeric fields require you to exit the field by clicking on another field in order to update the loads. Through some practice, you will note that you can draw a number of different residential and commercial foundations using this tool.
8. When you close the window in the wall type edit tool, it will automatically transfer the live and dead loads to the main window. At this point, you can select one of several different Magnum push pier or helical pile types from the drop down windows associated with each wall. The software will automatically calculate the available dead load for push pier installation/testing and therefore the

working capacity of the push pier and suggested maximum spacing. Likewise, if a helical pile is selected, the software will automatically assign a capacity to the pile based on the maximum span of the wall or maximum capacity of the helical pile, whichever is less. The tool also will suggest the minimum number of piles required to support the walls drawn by automatically counting the corresponding colored cells and multiplying by the scaling factor.

9. You will note through experimentation with the software the importance of the maximum span of the foundation wall in the various calculations. By default, the maximum span for each wall type is set at 8 feet. The maximum span for foundation walls can be adjusted in the foundation wall editor windows. The maximum span for the wall type is specified at the bottom of each window. Maximum span depends on the structural properties of the wall. It is beyond the scope of this software to calculate the maximum span of specific wall types. For push piers, the maximum span often can be increased because it is used to calculate the available dead load for installation/testing which is applied only temporarily.

10. You will find the loads applied by the software for specific construction elements can be viewed by hovering the cursor over various selection boxes. Useful help and advice also are found by hovering over various objects. Please read the limitations and conditions of use. Contact Magnum technical support with any questions or for additional help.