Short Description

The Land[x] Solid Stair plug-in provides tools for a creating and editing simple solid staircases in Autodesk Civil 3D based on parameters for height of riser, length of tread, width, landing and slope.

Description

The Land[x] Solid Stair plug-in provides tools for a creating and editing simple parametric staircases in Autodesk Civil 3D. The staircase is an AutoCAD 3d solid and the parameters (height of riser, length of tread, width, landing and slope) are stored in a property set attached.

This tools are useful to landscape architects and engineers when using corridors for designing landscape paths. As the staircases is a solid it can be projected to profile views and as the parameter are in a property set it can be labeled with this parameters.

The plug-in is published as open source code, with the intention of encouraging other users to improve the code. More information regarding this plug-in and his code can also be found on the developers website and GitHub.

General Usage Instruction

During startup the plug-in checks the existence of a LXStair property set and creates this definition if missing.

After launching the LXStairSolidAdd command use this dialog box to specify stair settings (name, layer) and parameters (riser, tread , landing, width and slope) and draw the staircase buy specifying the start point and direction.

Existing staircases can be edited with the LXStairSolidModify command. Use the dialog box to adjust settings, parameters and geometry (position, rotation) . The stair will be updated after you click the OK button.

You can see a list of all stairs and there parameters by launching the LXStairList command.

Installation / Deinstallation

The installer that ran when you downloaded this app/plug-in from Autodesk App Store will start installing the app/plug-in. OR, simply double-click the downloaded installer to install the app/plug-in. You may need to restart the Autodesk product to activate the app/plug-in. To uninstall this plug-in, exit the Autodesk product if you are currently running it, simply rerun the installer, and select the "Uninstall" button. OR, click Control Panel > Programs > Programs and Features (Windows 7/8/8.1/10) and uninstall as you would any other application from your system.

Additional Information

The tool is under development and provide a minimum feature set and input validation. There are no design checks implemented yet, it's in the scope of the user to define reasonable parameters.

The standard setup is for metric drawings, you can easily change the standard values in property set definitions and add them to your own templates.

Known Issues

The plug-in only checks the existence of the LXStair property set definition, but not his validity. Removing properties from the definition can lead to malfunction.