SolidWorks AddIn ITEM Workinstructions

The SolidWorks addin ITEM is designated to support design of assembly, which contain parts developed for modular constructions from MB building Kit system provided by http://www.item24.de/en.html as shown on the following picture.

MB building Kit system

Prerequisites

The functionality, which extends application SolidWokrs, is provided as AddIn based on .NET Framework so the required prerequisites are:
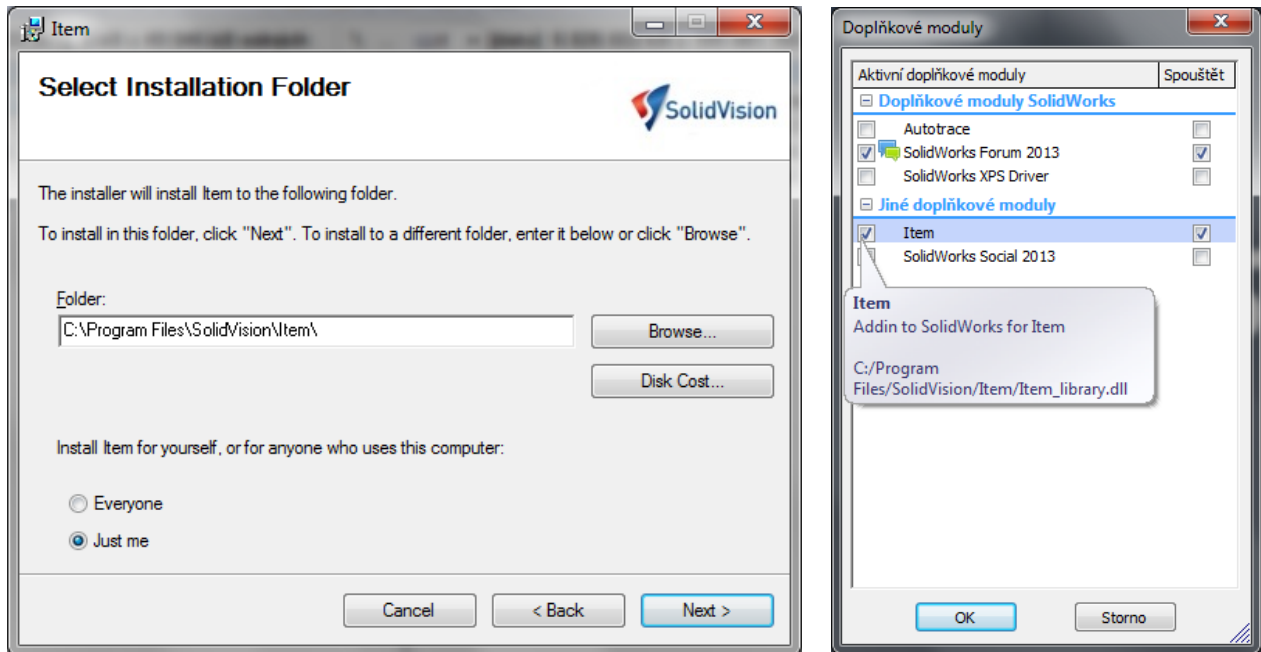
- Operation system Windows XP or Windows 7
- .NET Framework 3.5 or more
- CAD Application SolidWorks 2010 or more
- Installation user rights

The process of installation

To extend the CAD application SolidWorks with the support for design of ITEM constructions parts take the appropriate installation package (x86 or x64) and run.
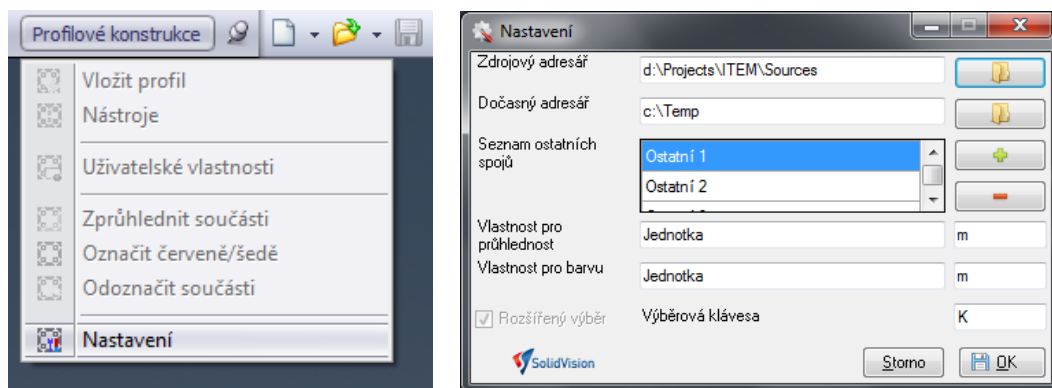

[..]		<DIR>
Item64	msi	4 259 840
Item86	msi	4 111 360

Chose the installation folder (as default path is used the Program Files folder) as follows on first picture.
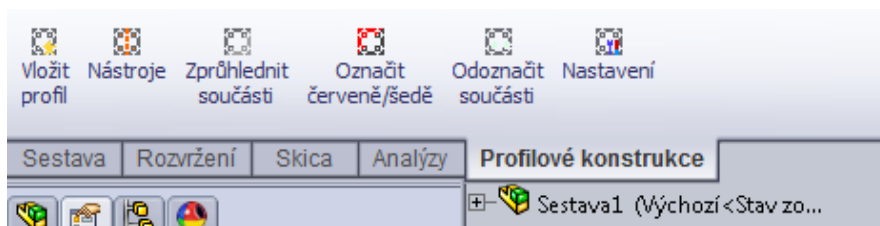

After installation is created the application folder and subfolder „Sources" which contains SolidWorks files which represents parts of MK building kit. These parts will be used with AddIn and automatically will extend the products with available parts. In application SolidWorks under Addins menu is automatically added new AddIn module. (to disable extended functionality remove checkbox)

In CAD application SolidWorks represents new functionality the menu „Profilove konstrukce" . To setup the environement of AddIn, press the button „Nastaveni". Other parts of menu will be enabled in case that the assembly os opened.

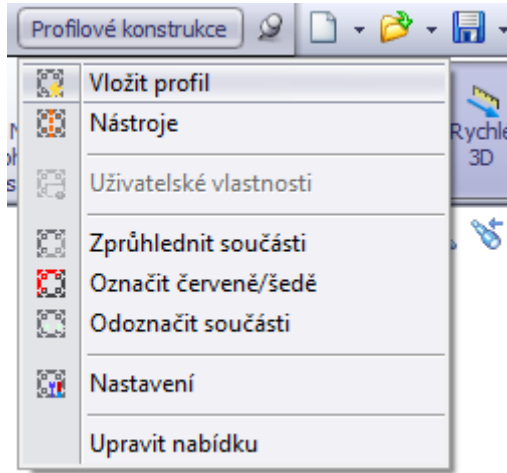The same controls as in the menu are available also in new panel for assembly.

The construction environment

The construction environment consist from three main parts as on the following pictures
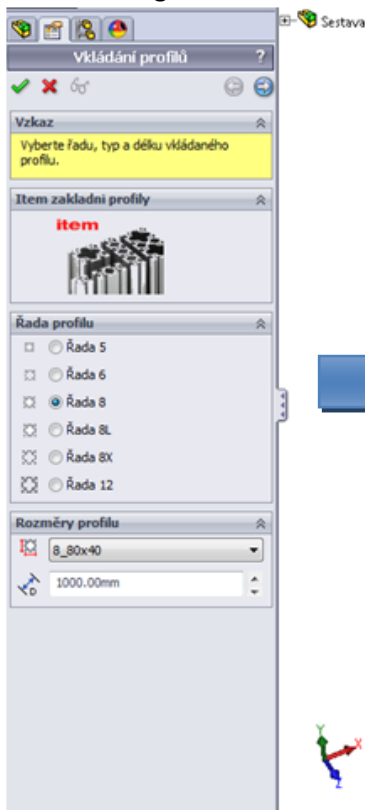
Construction menu

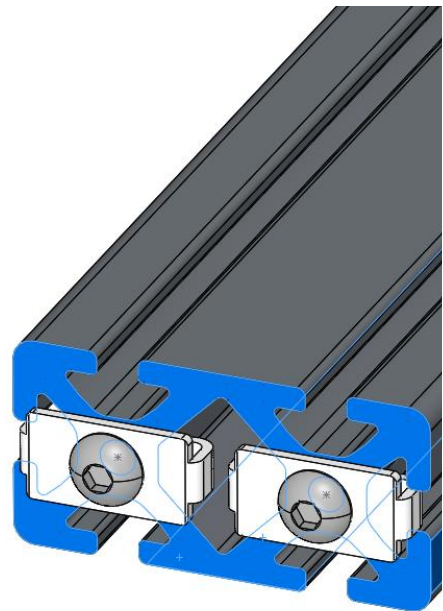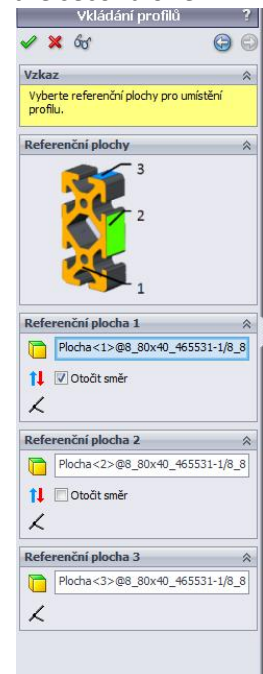Provide adding of parts, additional tools and changing of user settings.

Property managers

There are two type of property managers, first provide the adding of new part and the second provide steps for automatic creating of holes

1) Add new part (press button "Vlozit profil") and chose desired item and length.

2) After selection of part chose the place where you want to palace the new part, for example connect the new part with the second one.
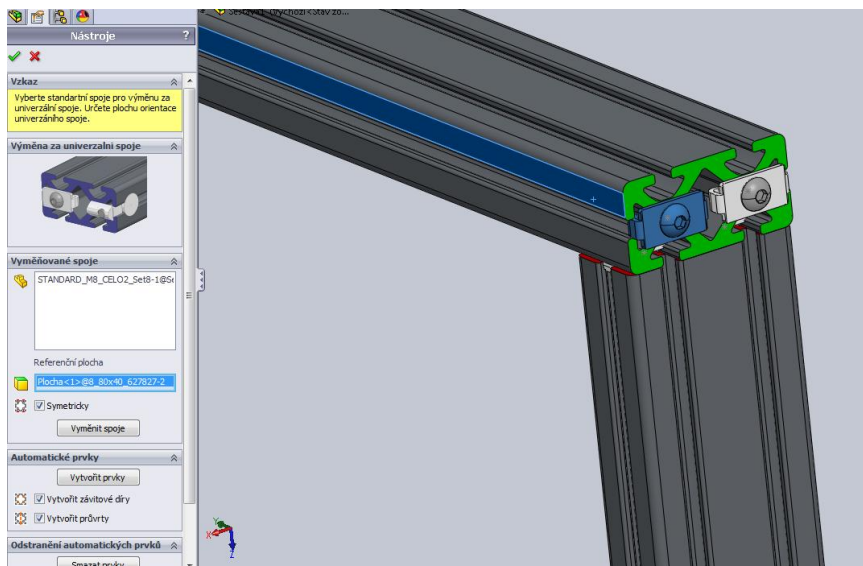
Automatic creation of holes

To simplify the work of design provides AddIn the functionality to automatic creation of holes for montage of screws or changing screws. After the construction is finished press the button "Nastoje" and the following property page will be shown.
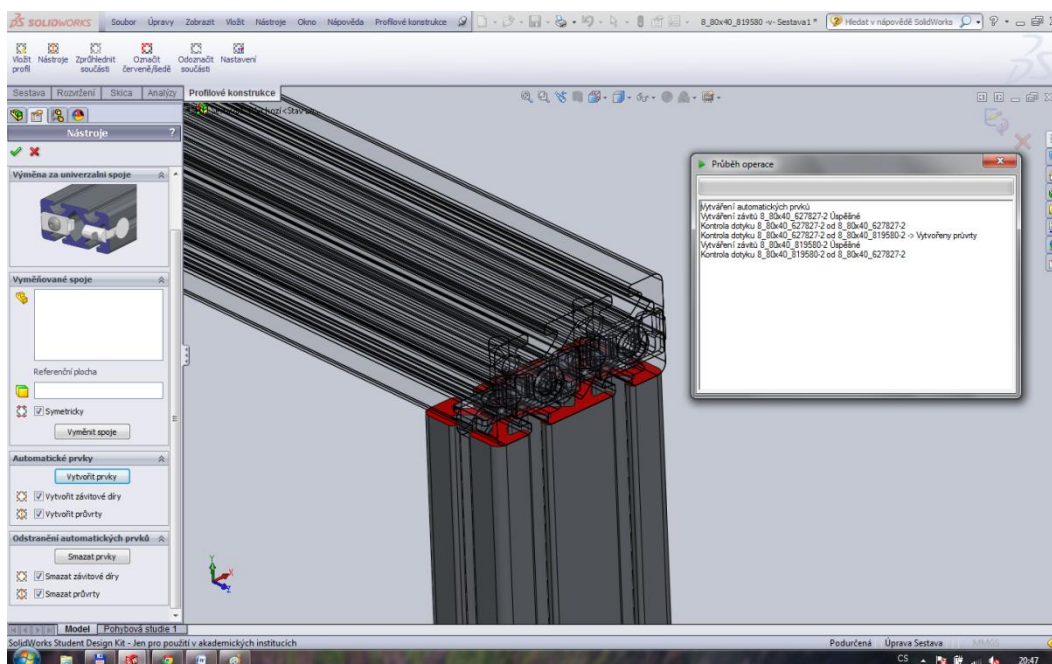
Change the screw

To change screw press the button "Nastroje" and select screw which should be changed as follows. There is also possibility to change screw symmetrically with check control "Symetricky". After confirm operation with "Vymen spoje" fasteners will be changed.
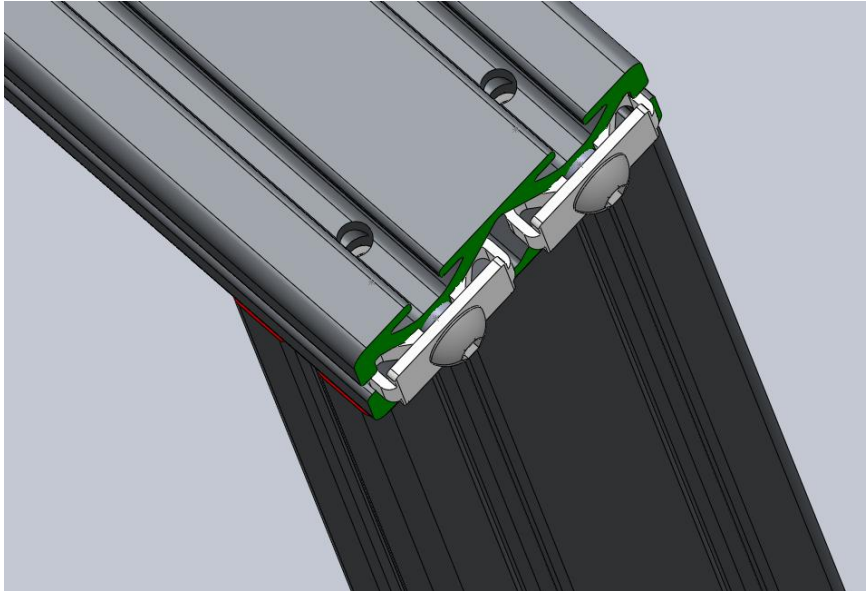

Create holes automatically

To create holes for montage screws automatically go to the subpanel "Automaticke prvky" and press "Vytvorit prvky". The window with the information about the progress appears.

Created montage holes

The montage holes which were created in previous step correspond the screw in opposite and are fully connected with the opposite part so the change of the position is possible and holes adapt after refresh.

The list of used items

For the purpose of order provide AddIn also the list of used Items which contains information about the count and type of screw and also about the parts and their lengths. To make order the list can be saved in table format and send to the shop (second picture)