

## Setting up spreadsheet Environment

- 1) In the main MS Excel automatically updates the drives for spreadsheets when files are copied using Windows. To prevent this from happening files can be saved to alternative drives using Excel "Save As." This is the main problem I experience when saving files to projects on the server and copying to laptop to work on in evenings.
- 2) Testing creating folders in new profiles, indicates Excel automatically updates paths to reflect new user profile paths. The only problem is whether or not Add-ins are loaded and activated. Since use of functions from an add-in creates a linked workbook, the path to the linked add-in workbook needs updating.
- 3) Some workbooks using VBA have VBA references to other add-ins and COM automation objects, these need to be manually fixed in the VBA editor. {Whilst it is possible to program the VBA editor (VBE) it requires modifying uncommon security settings, so its just as easy to explain how to modify references. Also the references seldom break, and usually only as a consequence of change of operating system}
- 4) As long as the relative folder structure is maintained and the add-in is activated there shouldn't be any problems. Alternative folder structures can be created if wish, and some workbooks contain path variables to allow this. At this stage however I haven't documented the variables.

LINKS to Existing Posts Documenting set up

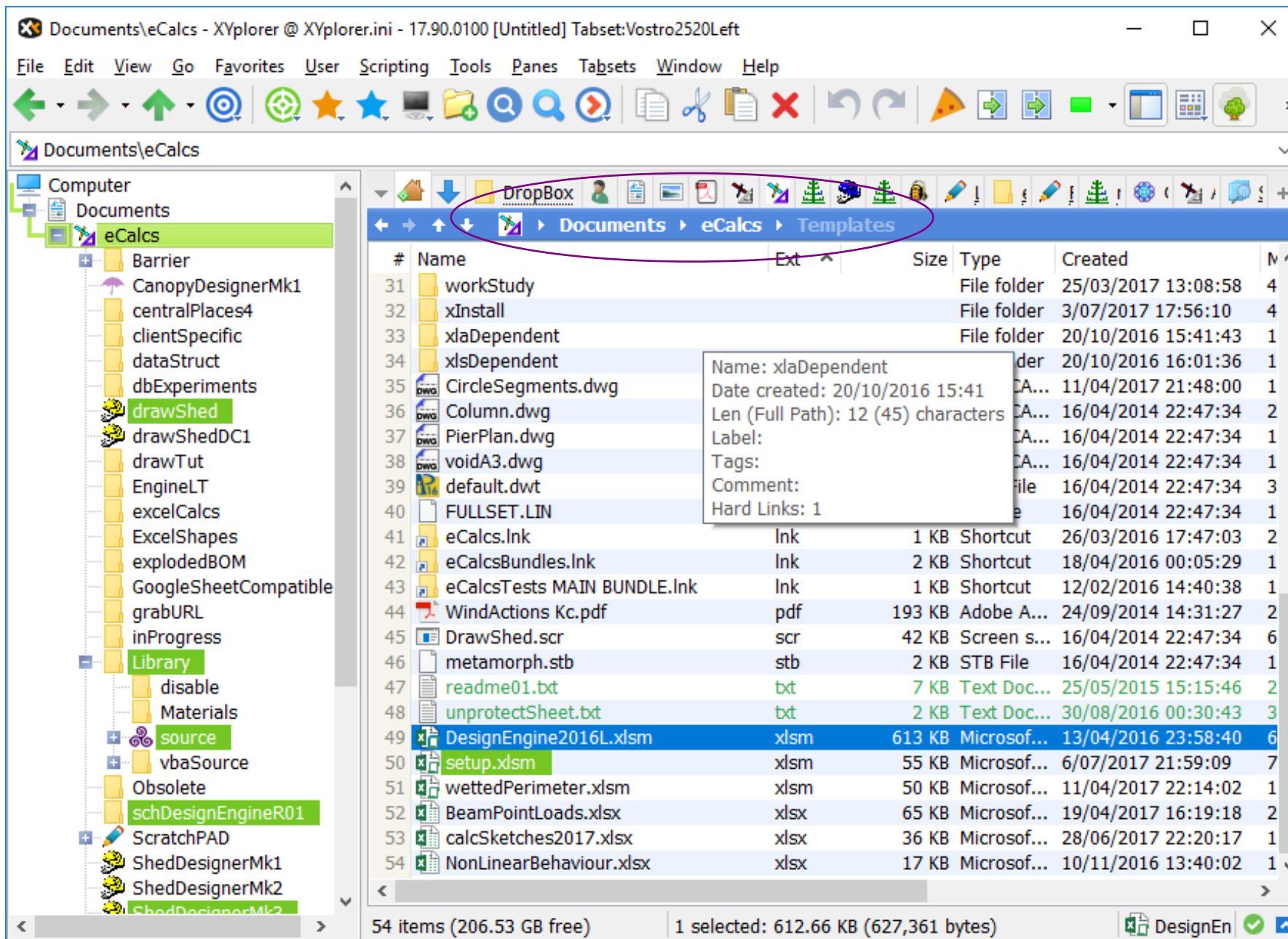
<https://mision.com.au/setting-up-spreadsheet-environment/>

<http://metamorphs.blogspot.com.au/2013/11/steel-design-to-as4600.html>

<http://metamorphs.blogspot.com.au/2014/04/my-spreadsheets-dao-and-64-bit-windows-7.html>

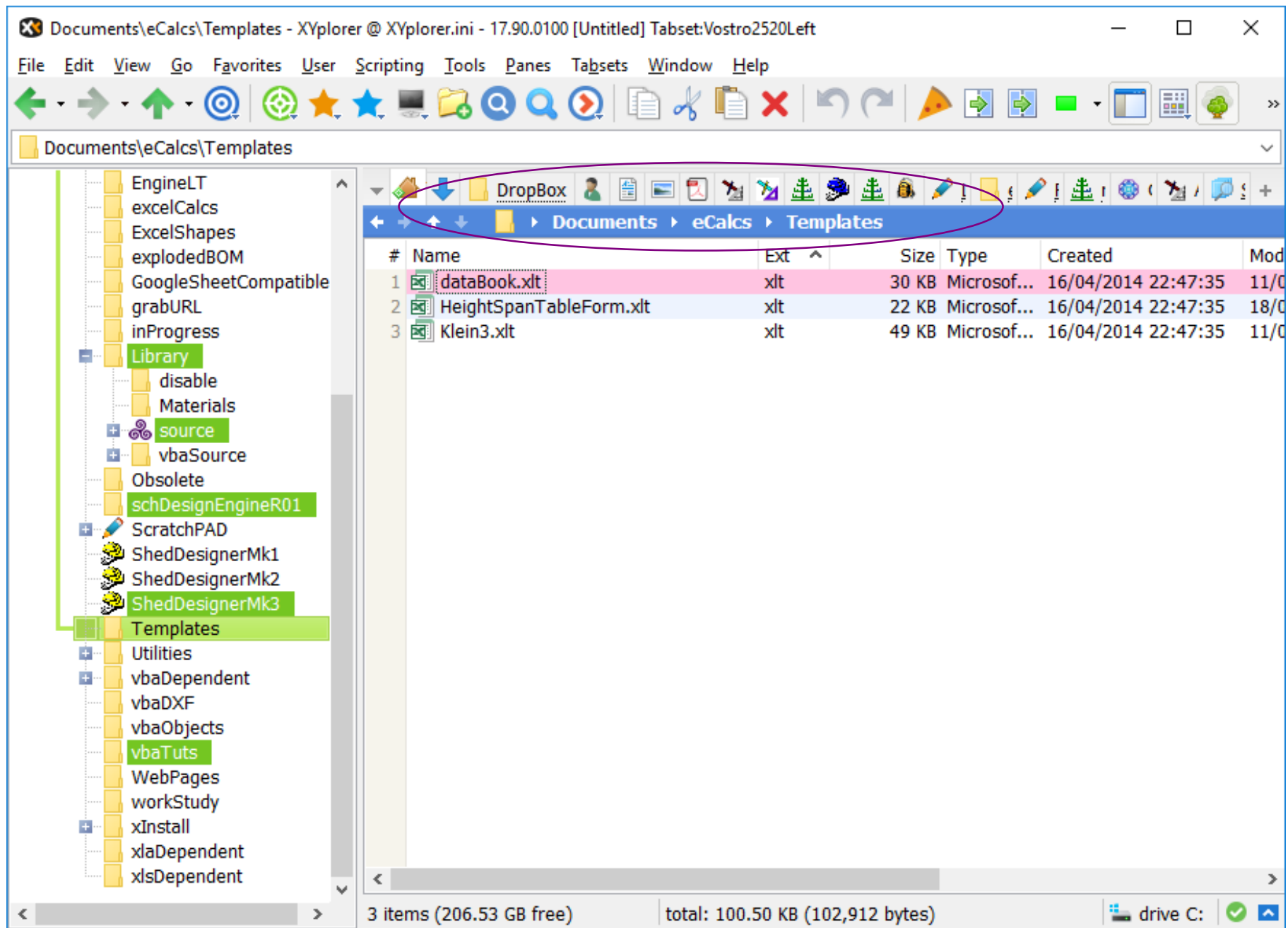
It should be noted that I don't use the eCalcs set up as presented here. My setup uses a folder accessible to all users on a computer. Every computer in the office has similar folder, and projects files stored on server can access the central linked files on the local computer.

I did try central location of linked workbooks on server, but server goes down and workbooks are broken, and also hampers remote use on laptop.

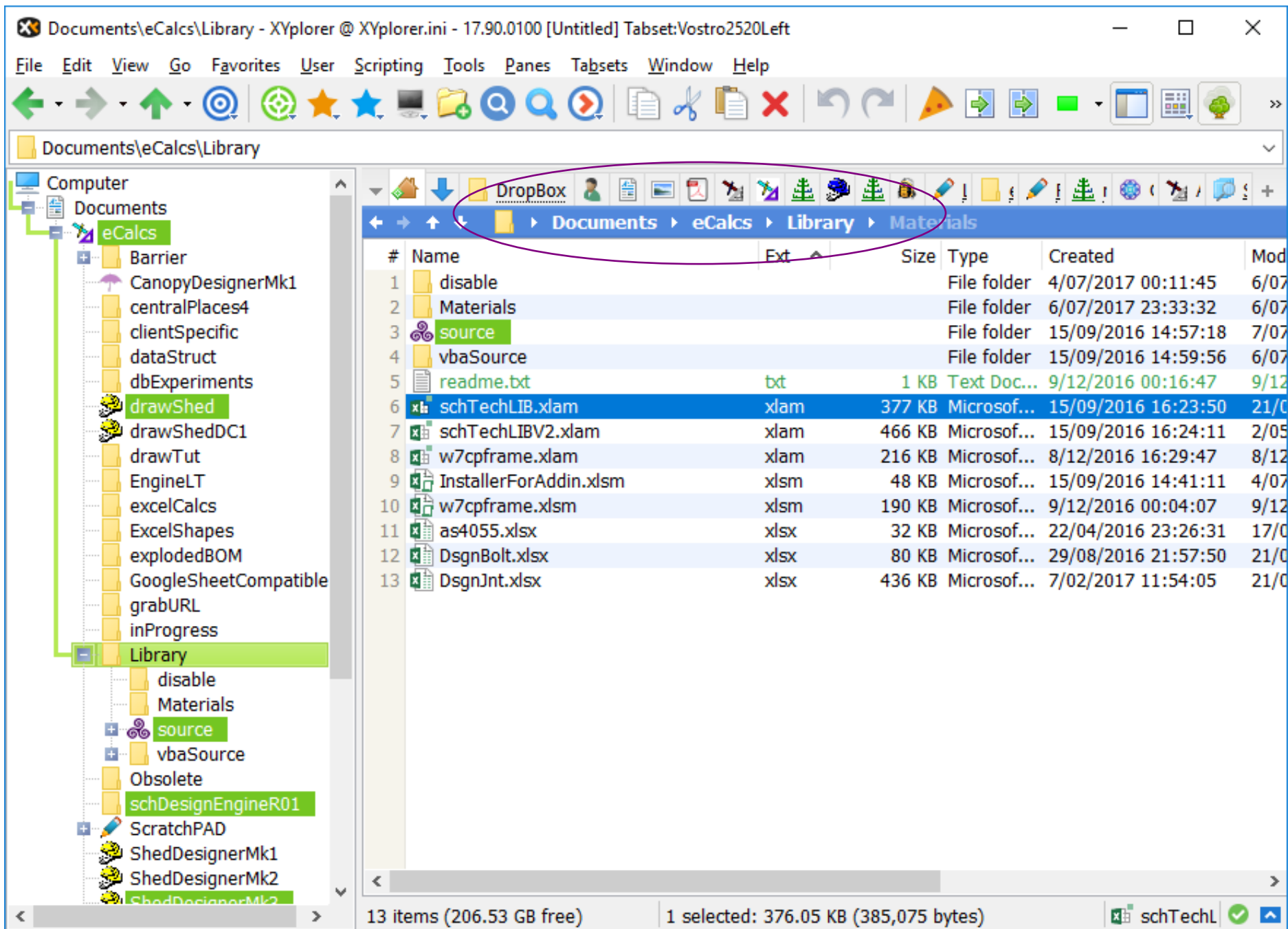


← Location of Main workbooks

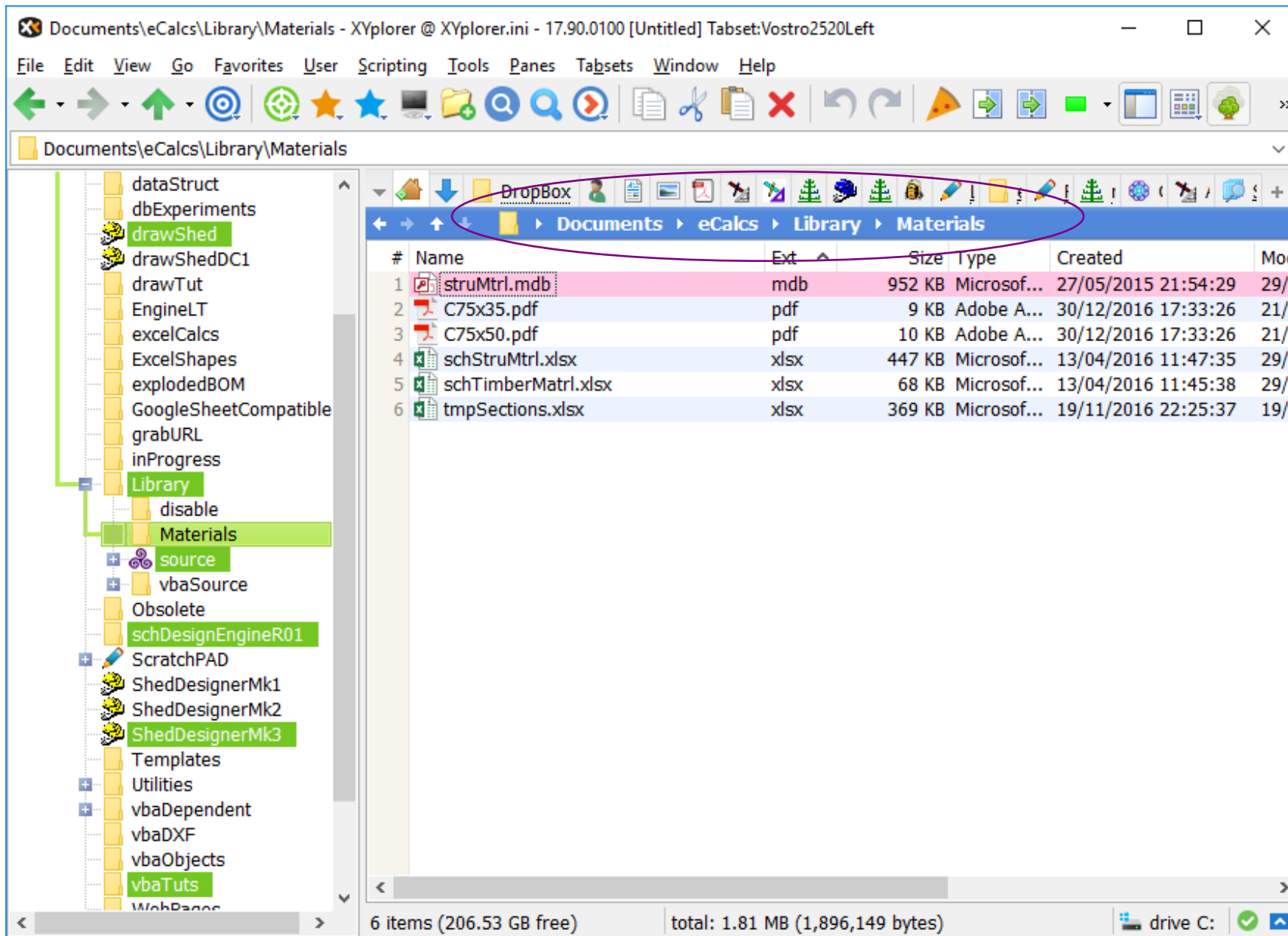
Create Folder in Documents (or My Documents) called eCalcs



Create sub folder of eCalcs called Templates



Create sub folder of eCalcs called Library

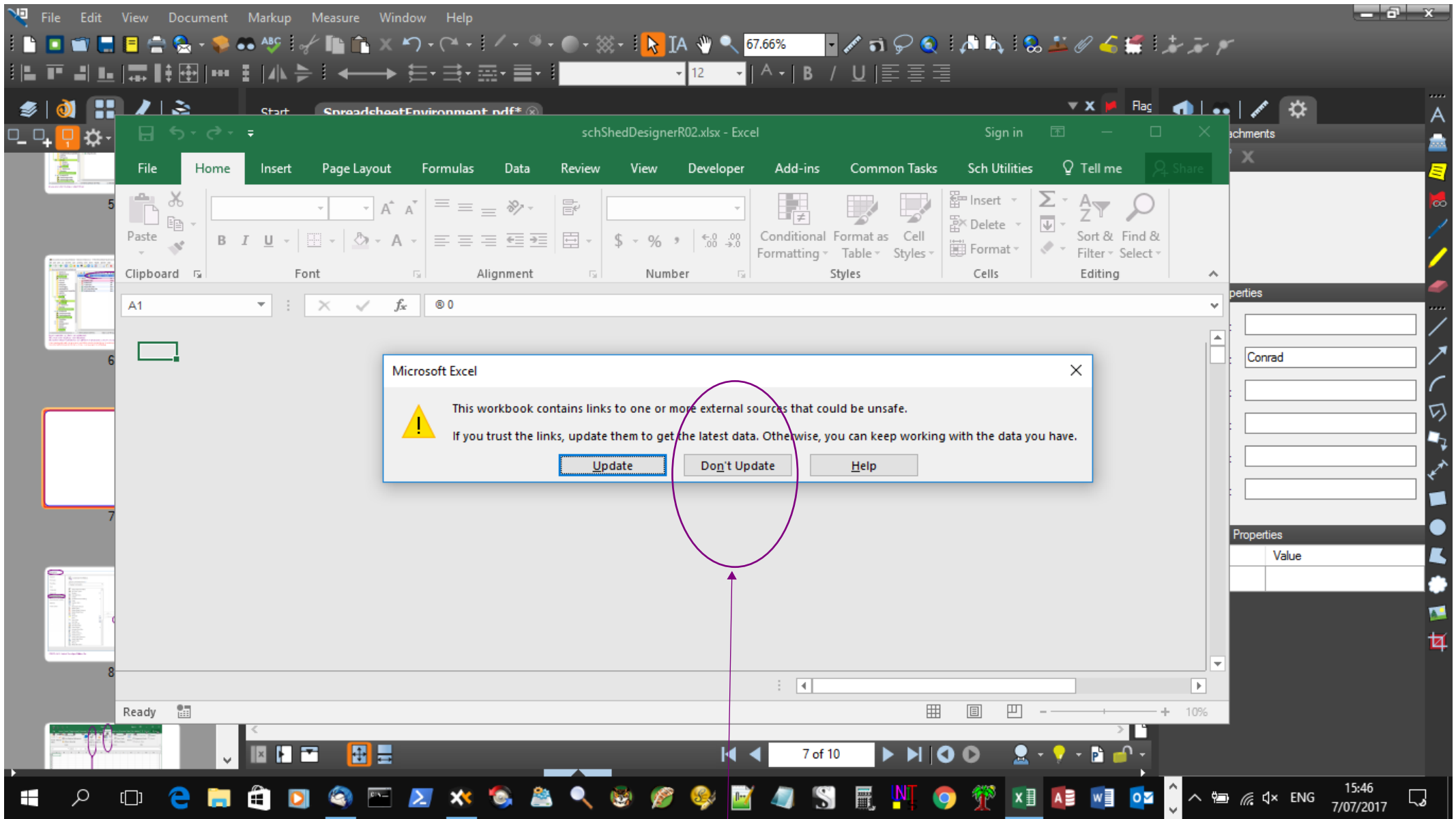


Create sub folder of eCalcs called Materials

OR a sub folder of Library called Materials.

My system always had materials as subfolder of library, but seems I tested and released with materials as subfolder of eCalcs. .

{I was experimenting with set up program and shifted materials below Library, to match my main installation. {eg. I have just broken my system, but I am not going to fix it manually I will fix it programmatically, so I have a set up program to distribute.}}



DO NOT UPDATE WHEN OPENING FILES



Excel ribbon: File, Home, Insert, Page Layout, Formulas, **Data**, Review, View, Developer, Add-ins, Common Tasks, Sch Utilities, Tell me, Share

Data ribbon sub-sections: Connections, Sort & Filter, Data Tools, Forecast, Analysis

Formulas: Refresh All, Edit Links

Sort & Filter: Filter, Reapply, Advanced

Data Tools: Text to Columns

Forecast: What-If Analysis, Forecast Sheet

Analysis: Data Analysis, Outline

Worksheet: F4, A-X, 1-18

1	→0	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	
2	↑90	?????																		REF.: ????
3	180←	?????																		PAGE: ?????
4	270↓	?????																		DATE: 01-Jul-2017
5		?????																		DESIGN: ????
6		client																		
7		address1, suburb																		
8																				
9																				
10																				
11																				
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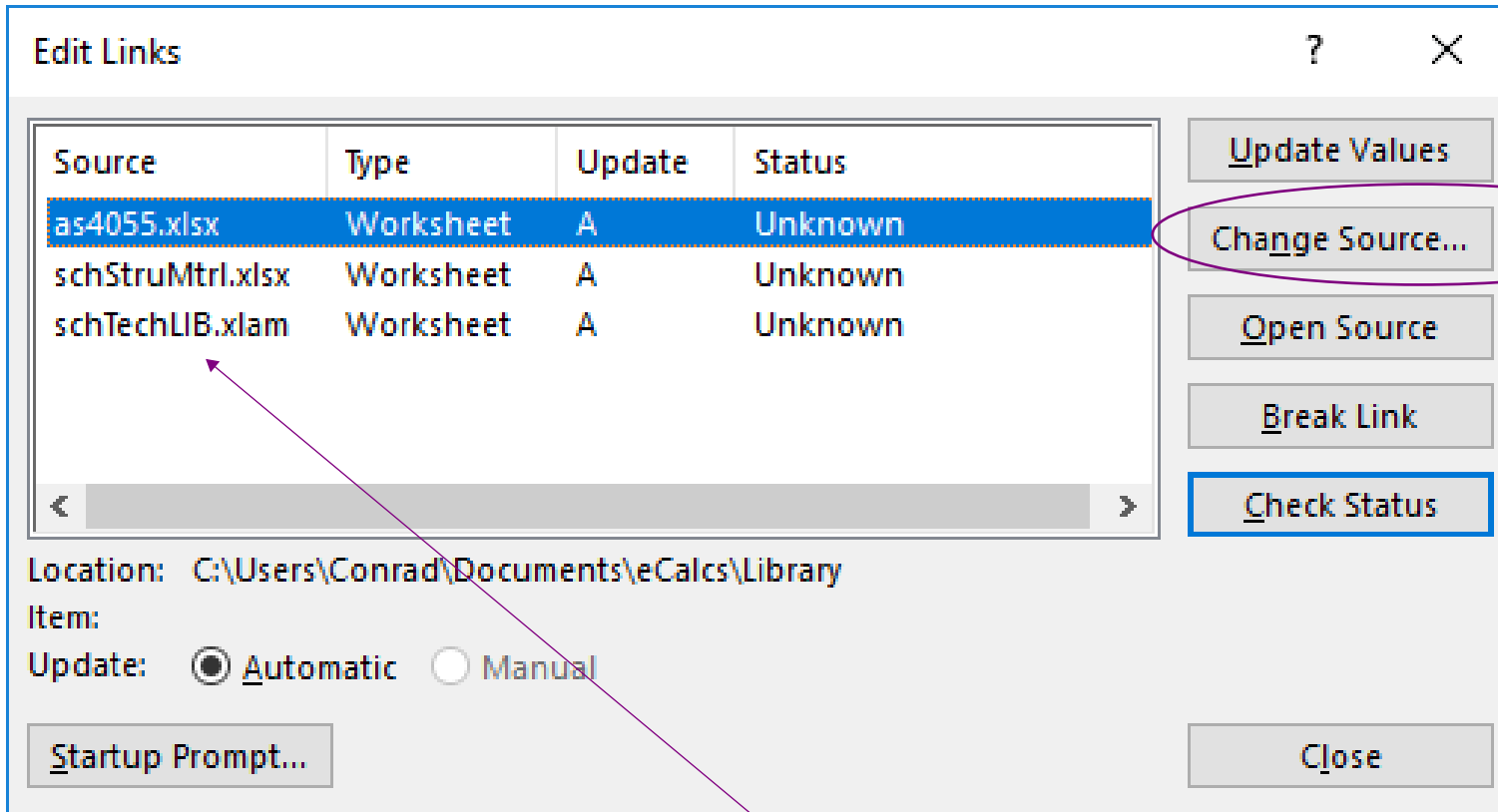
Structure Classification: Industrial

Structure Type: Shed, Doubly Pitched Roof

Design Method: ...

Ready | Consultant | DesignParam | Components | DesignOutPuts | Desi ... | 100%

EDIT Links

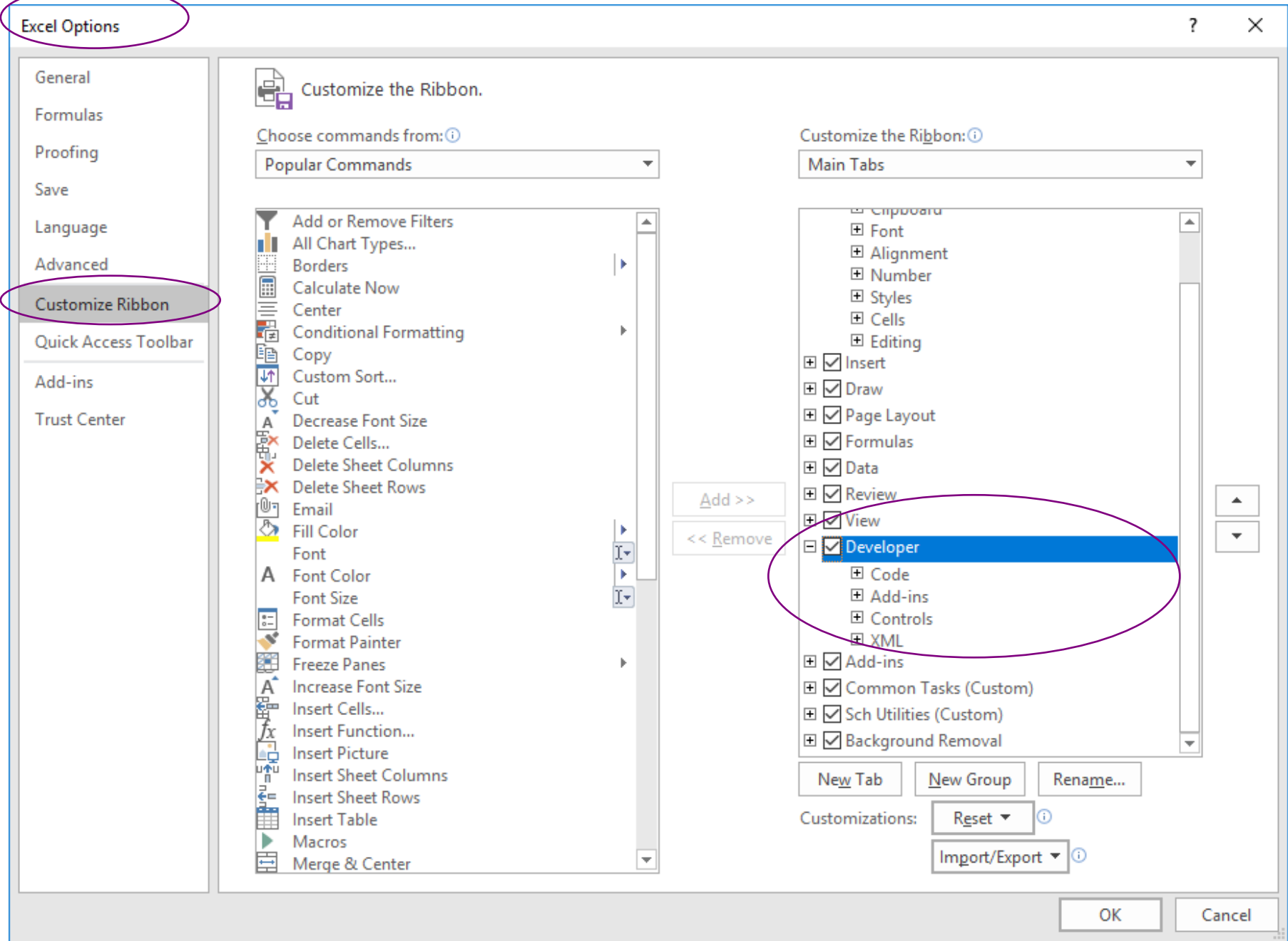


Change the source of the files one at a time, browsing and selecting the files

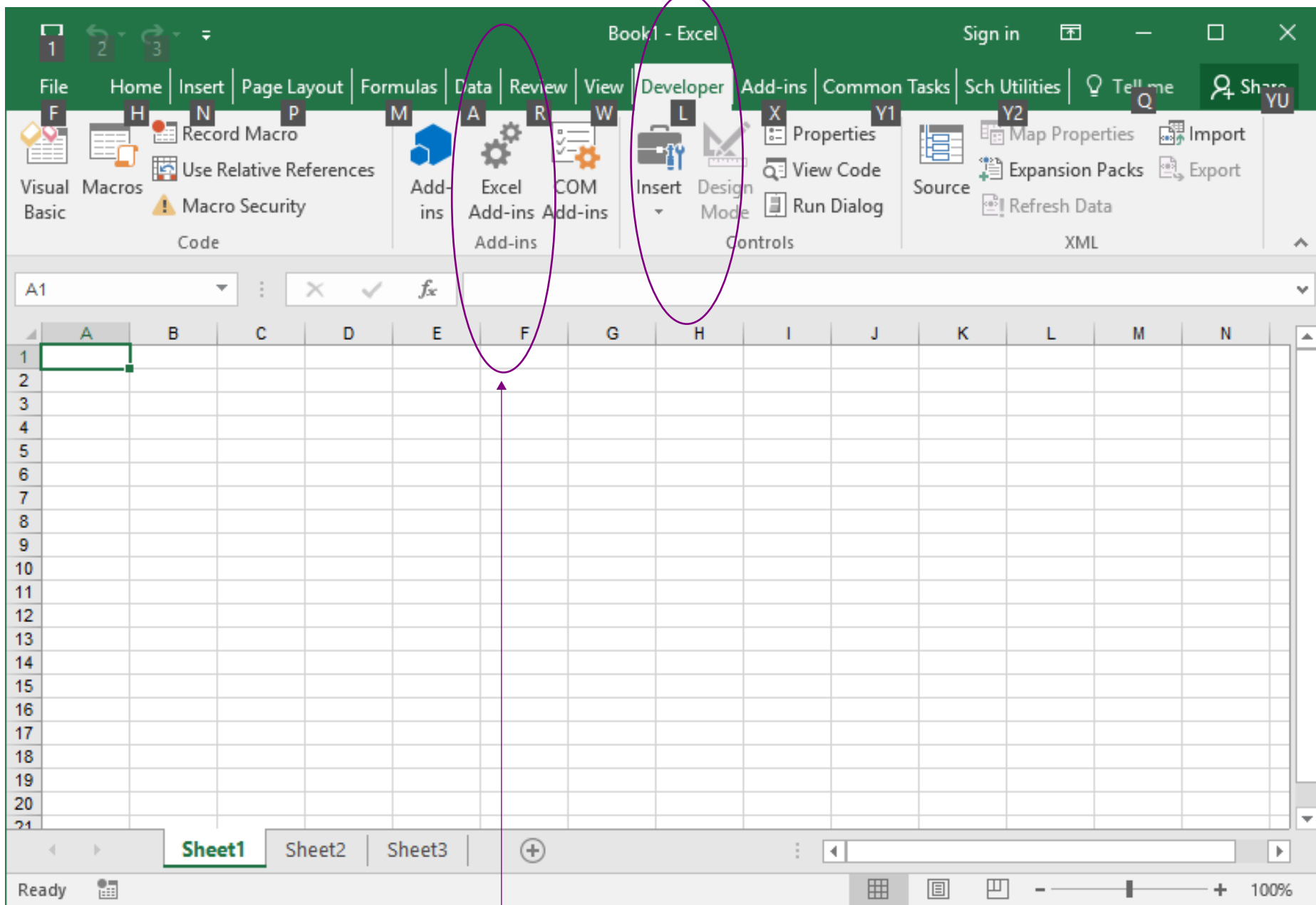
Technical Library Add-in.

**NB: ADD-INS DO NOT FUNCTION UNTIL INSTALLED AND ACTIVATED**

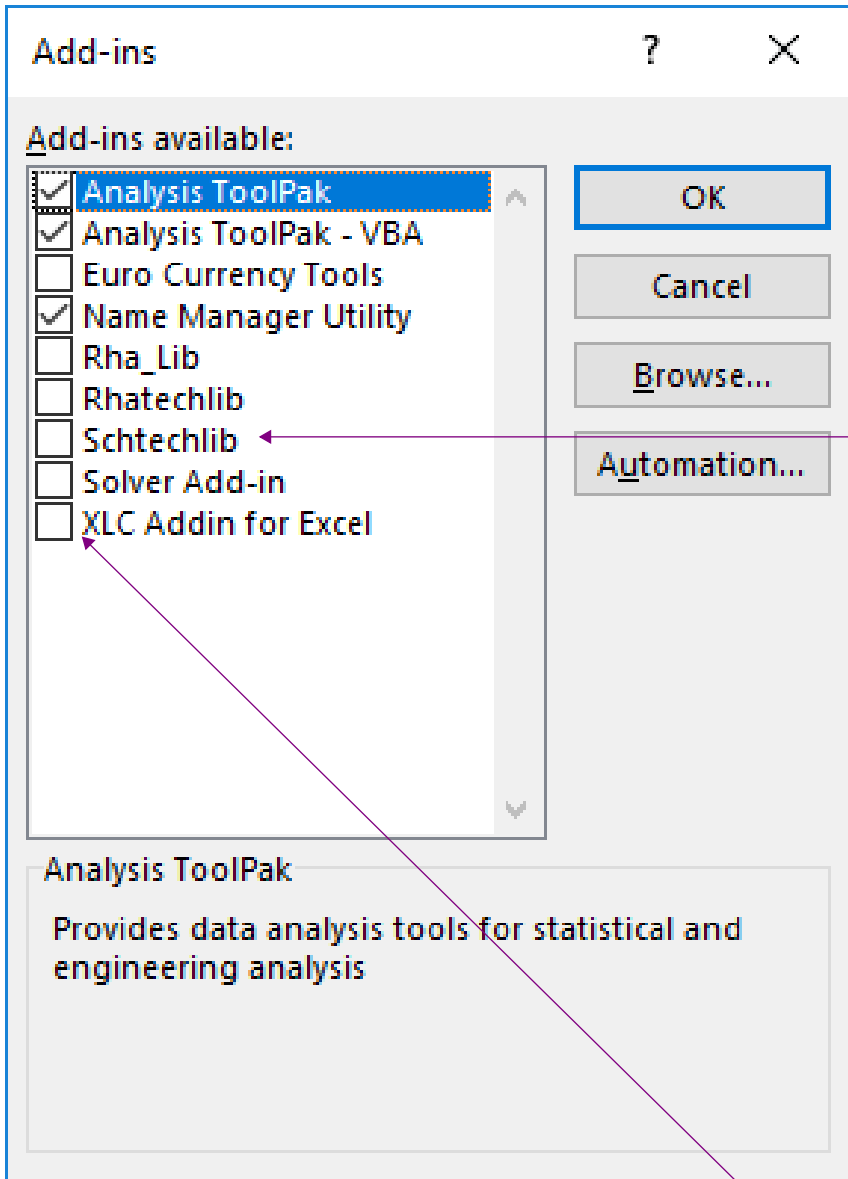




EXCEL 2016 Switch Developer Ribbon On to gain access to add-ins



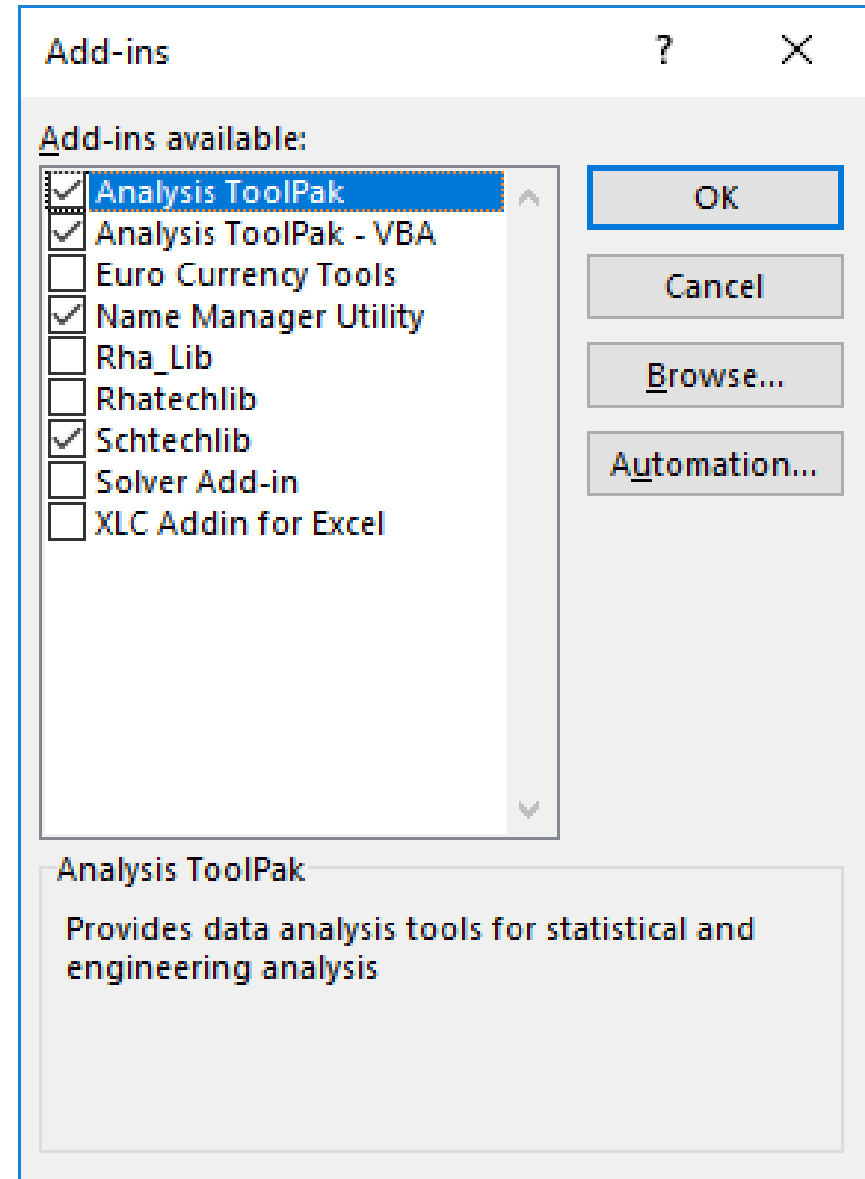
Excel Add-ins



Place Tick next to the Technical Library to make its functions available

If not available then browse for an select

May need to switch off if its search for formula to update slows things down.



NB: Not all features of MS Excel come installed, they have to be specifically selected and installed and then activated. Examples are advanced statistical functions and linear programming. Switching add-in's on and off is not a developer function. Access used to be under tools.

The image shows a screenshot of the Microsoft Excel application window. The title bar reads "DesignEngine2016L.xlsm - Excel". The ribbon is set to the "Developer" tab. The "Visual Basic" button in the ribbon is circled in purple, with a purple arrow pointing to the text "Open Visual Basic Editor" on the right. Another purple circle highlights the "Run" button in the ribbon, with a purple arrow pointing to the same text. The spreadsheet content is as follows:

	A	B	C	D	E	F	G	H	I	J	K	L
1		<b>METAMORPHS</b>										
2		<b>MORPHOUS MODELS</b>										
3		Experiments Kleinlogel Frame III										
4												
5												
6												
7												
8												
9												
10												
11												
12		■ Moment Resisting Connection										
13												
14												
15		Run Design Engine										
16												
17												
18												
19		Run Engine LT										
20												
21												

The status bar at the bottom shows "Ready" and a zoom level of "100%". The "AppTitle" tab is active in the bottom pane.

Open Visual Basic Editor

Microsoft Visual Basic for Applications - DesignEngine2016L.xlsm - [AppMain (Code)]

File Edit View Insert Format Debug Run Tools Add-Ins Window Help

Project - DesignEngine

DesignEngine (DesignEngine2016L) Modules

- AcadTypes
- AppMain
- AppMainScr
- BuildingDimensions
- BuildingLoadSet1
- BuildingLoadSet2
- caddAppInitialise
- caddConstants
- CADplotter
- CanopyDesign01
- cfgModule000
- ChartPlotter
- CombinedLoads
- defineComm

Properties - AppMain

AppMain Module

Alphabetic | Categorized

(Name) AppMain

(General) MainApplication

```
If Not (quitNoAction) Then
    Call MsgBox("Option:" & Format(currOption, "#0"))
    Select Case currOption

        Case 1 'Kleinlogel Frame III
            RunDesignOption1

        Case 2 'Height vs Span Tables
            RunDesignOption2

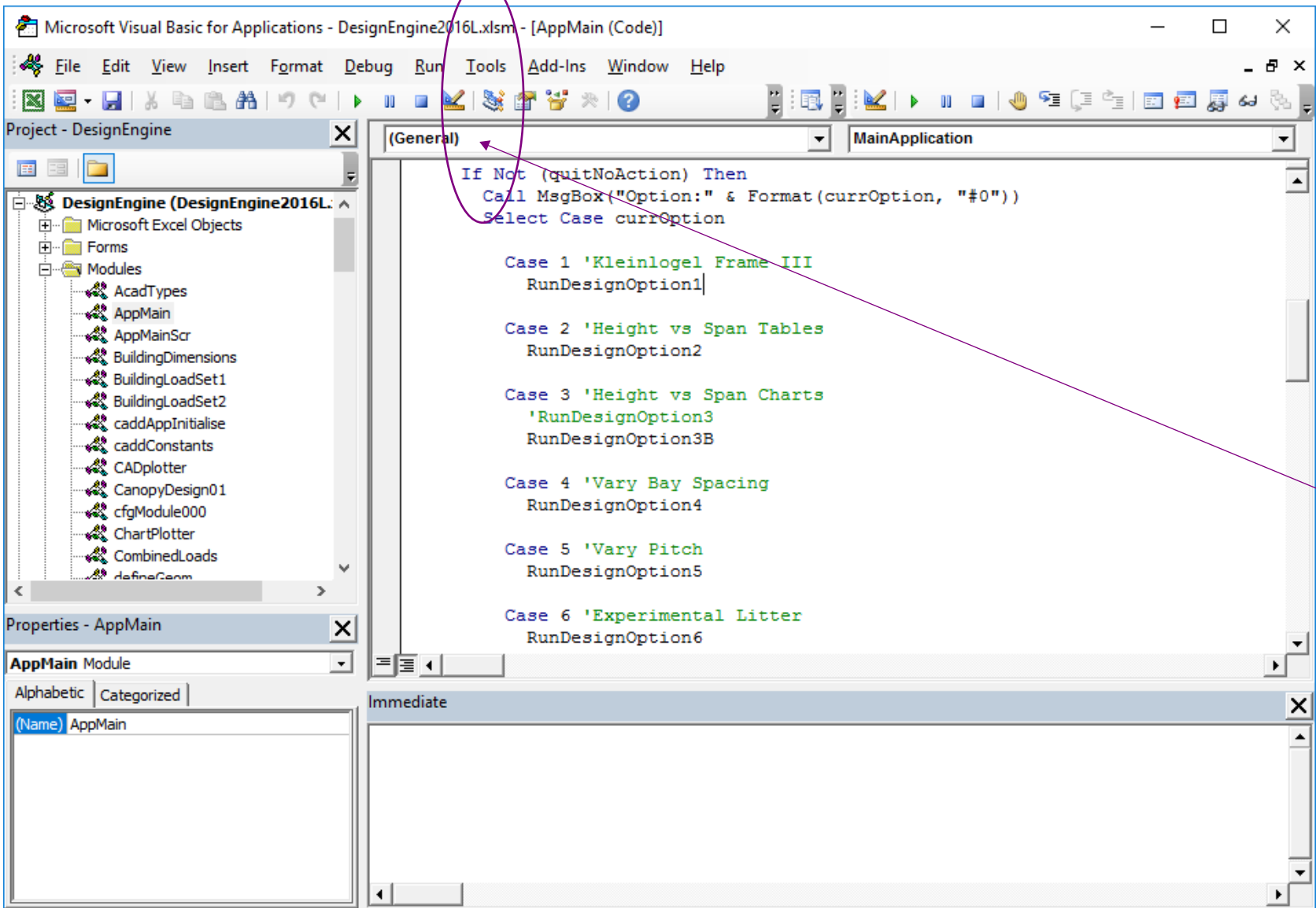
        Case 3 'Height vs Span Charts
            'RunDesignOption3
            RunDesignOption3B

        Case 4 'Vary Bay Spacing
            RunDesignOption4

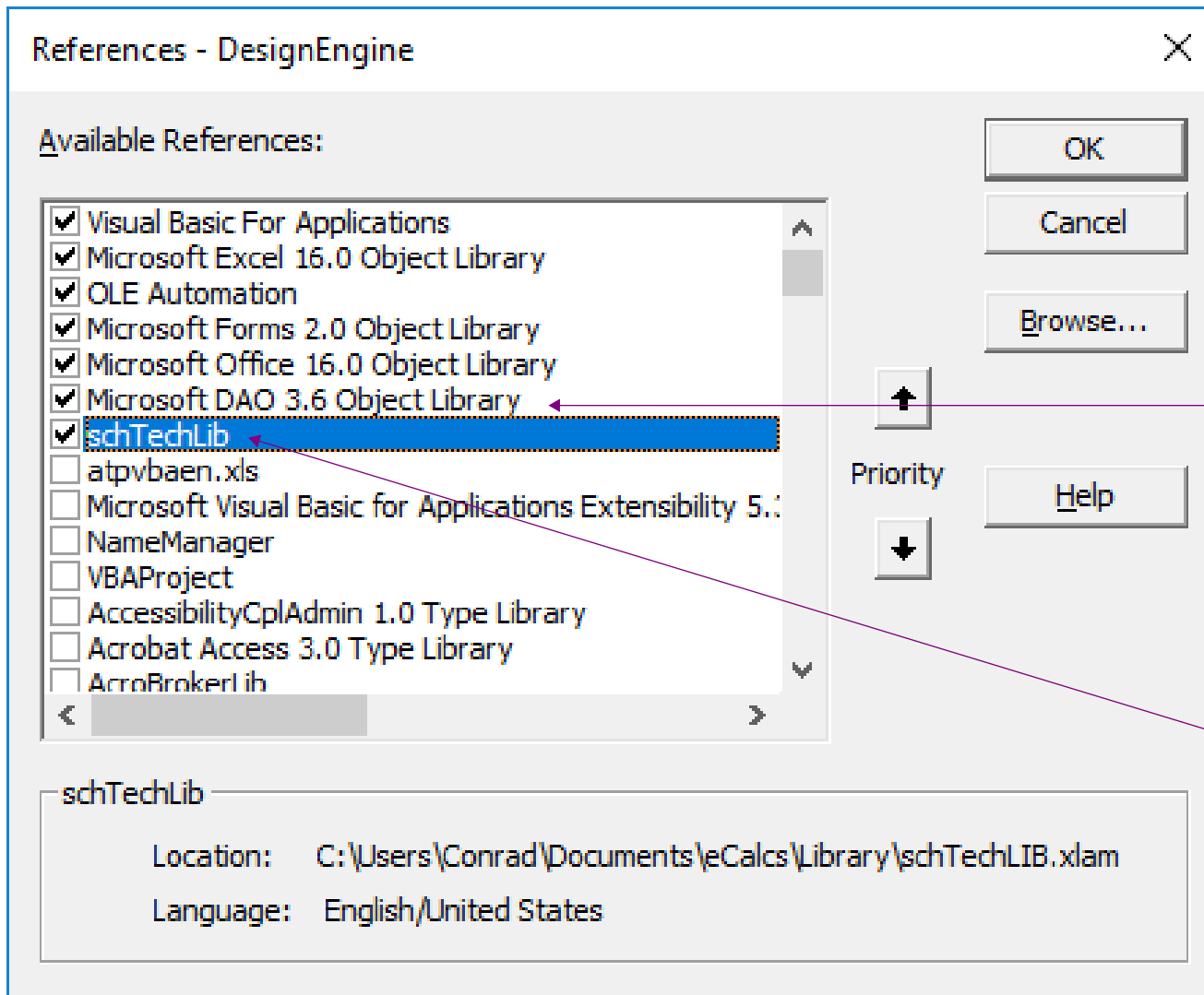
        Case 5 'Vary Pitch
            RunDesignOption5

        Case 6 'Experimental Litter
            RunDesignOption6
```

Immediate



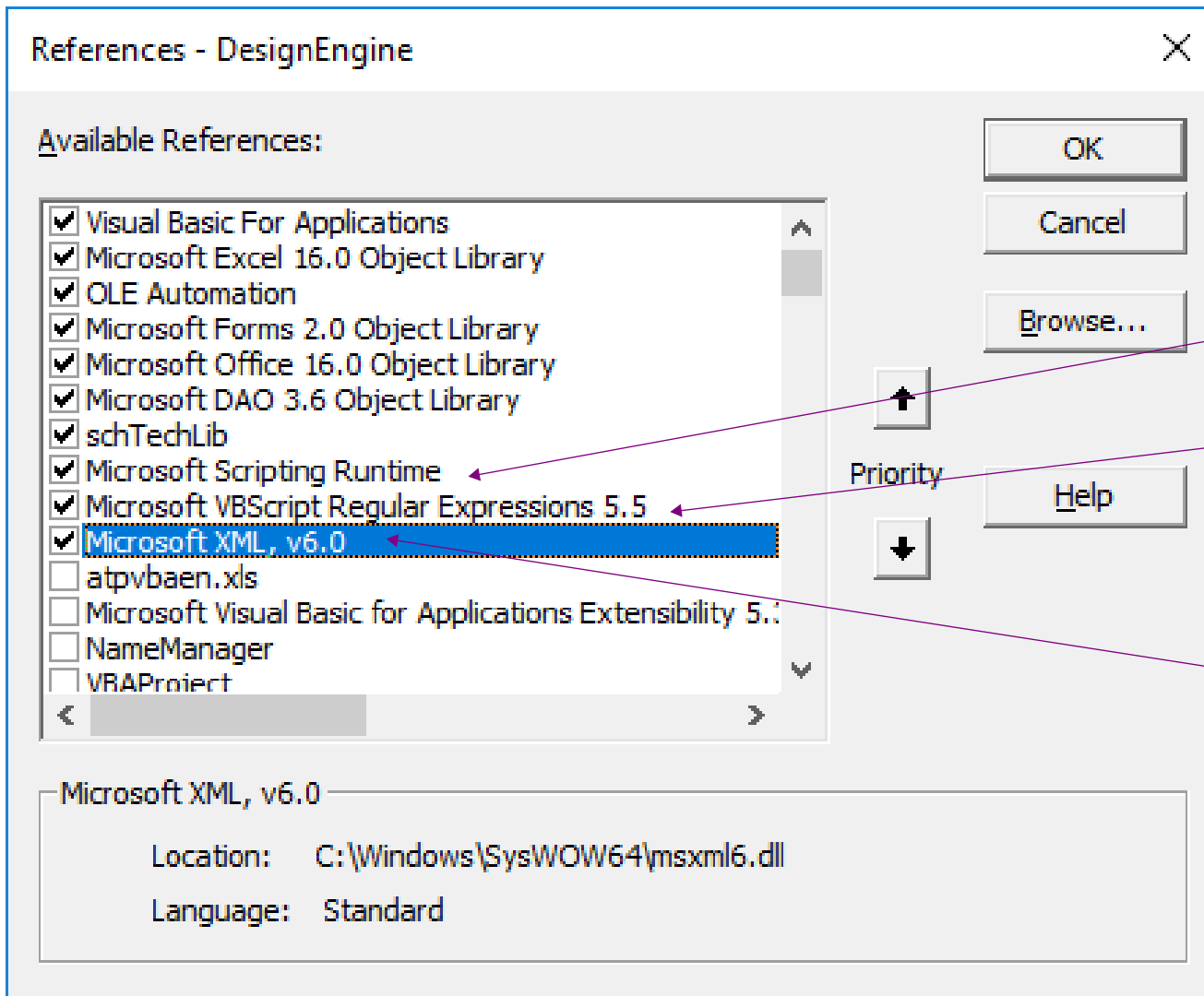
Tools references



Connection to MS Access databases, and other DAO compatible data sources. The location of this changes from Windows XP to Windows 7, so may need to search for and reconnect.

Technical Library

NB: A reference is only required to the technical library in VBA, if the functions are being called in a VBA application. If only being called in a worksheet then only requires activating as an add-in



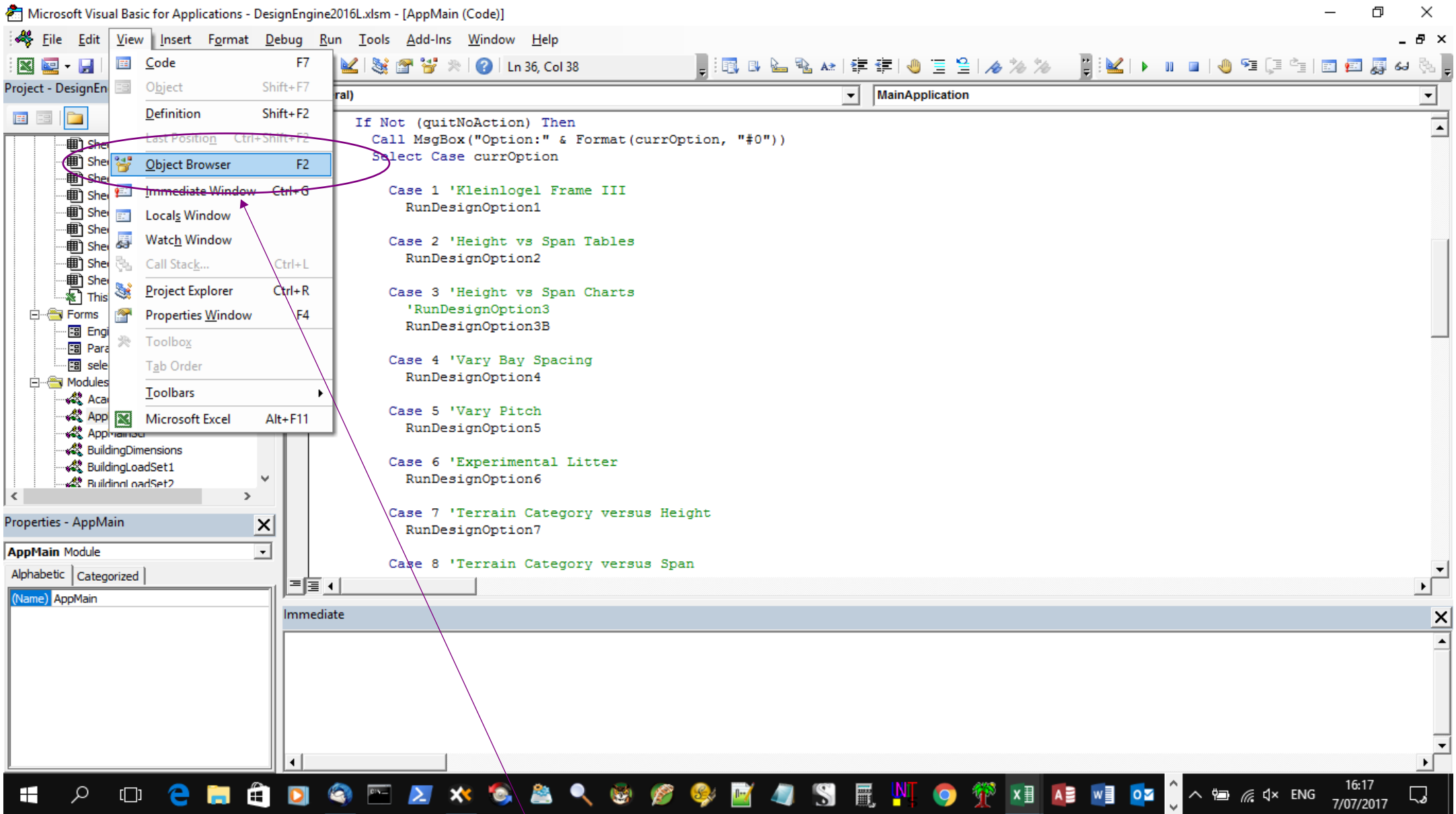
Type library for using VBScript capability in VBA

Type library for using Regular Expressions to search strings

Type library for reading and writing XML files. There are several versions and may need to change to match installed version.

**ADDITIONAL REFERENCES WHICH SOME WORKBOOKS MAY REQUIRE**





Use Object Browser to see the objects and functions available from a referenced library

Object Browser



schTechLib

Navigation icons: back, forward, search, help, refresh, zoom in, zoom out

Object browser looking at content of Technical Library

Search Results

Library	Class	Member
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Classes

- LoadActionsWind001
- LoadActionsWind002
- LoadActionsWindBuilding**
- LoadActionsWindBuilding000
- LoadActionsWindBuilding1
- LoadActionsWindCanopies000
- LoadActionsWindCanopies001
- LoadActionsWindCanopies002
- LoadActionsWindCanopies003
- LoadActionsWindDistributedLoads
- LoadActionsWindDistribution2
- LoadActionsWindDrag
- LoadActionsWindEquivUDL
- LoadActionsWindEquivWind1

Members of 'LoadActionsWindBuilding'

- getBuildingCpe
- getBuildingKa
- getRoofCpe
- getWallCpe

Module LoadActionsWindBuilding

Member of [schTechLib](#)