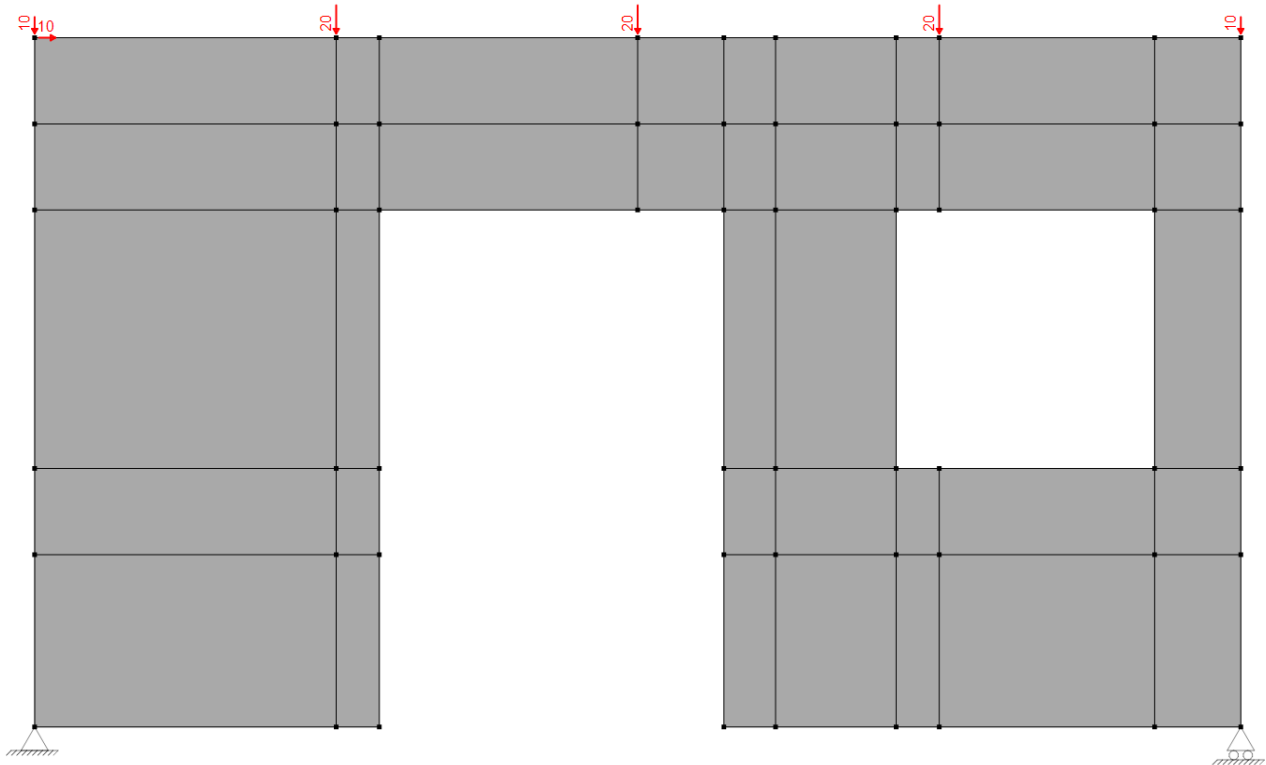


## Excel Example-Wall



### Introduction

This is a simple example that will show how to use PolyStringer API to create a wall with openings, loads and node supports.

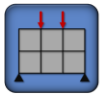


# PolyStringer

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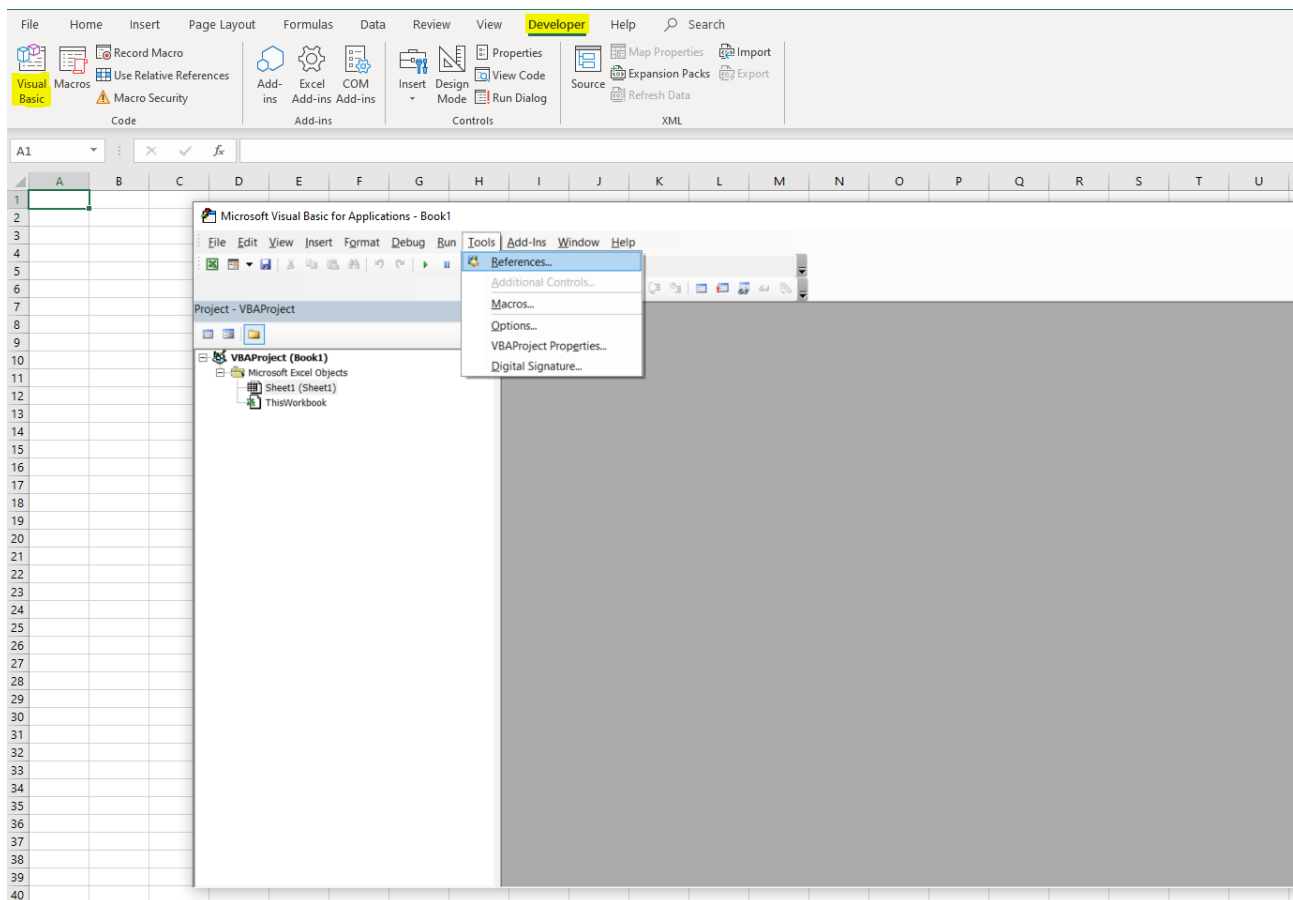
## Excel Example Wall

1. Download and install PolyStringer from [www.PolyStringer.com/Download](http://www.PolyStringer.com/Download)
2. Make sure you have a PolyStringer API license or contact us at [Contact@PolyStringer.com](mailto:Contact@PolyStringer.com) to inquire about license options.
3. For first time PolyStringerAPI user in Excel please follow the guide in section “Setup PolyStringer API for Excel VBA” in “PolyStringer API – Documentation” found on [www.PolyStringer.com/PolyStringerAPI](http://www.PolyStringer.com/PolyStringerAPI) to setup your Excel application to use PolyStringerAPI.

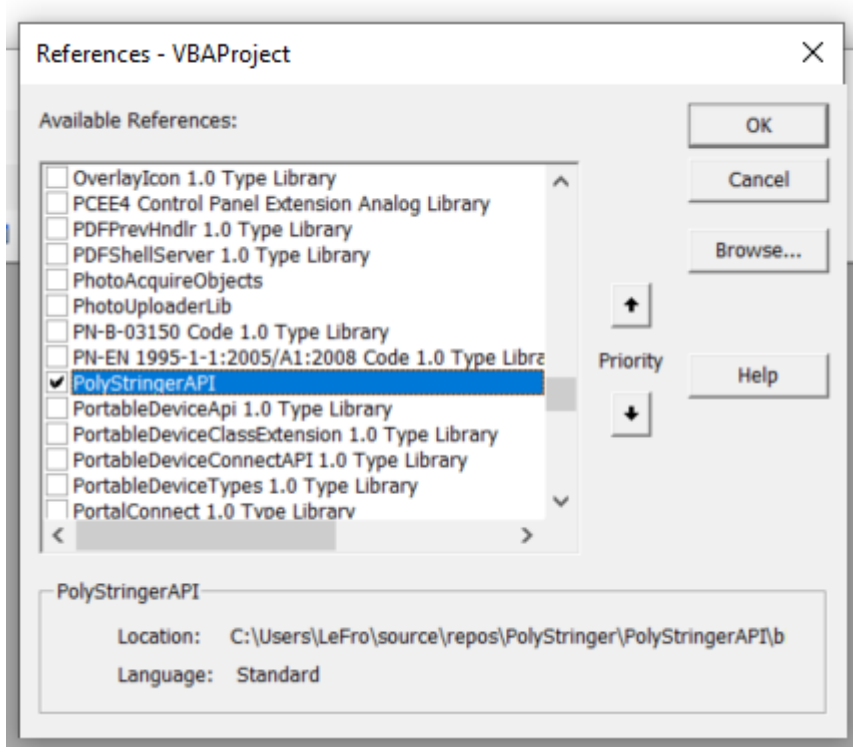
## Use PolyStringer API with Excel VBA

1. Reference PolyStringer API in Excel

Open an Excel spreadsheet, go to the “developer” tab click on “Visual Basic” in the “Microsoft Visual Basic For Applications” form that appear, go to tools -> references

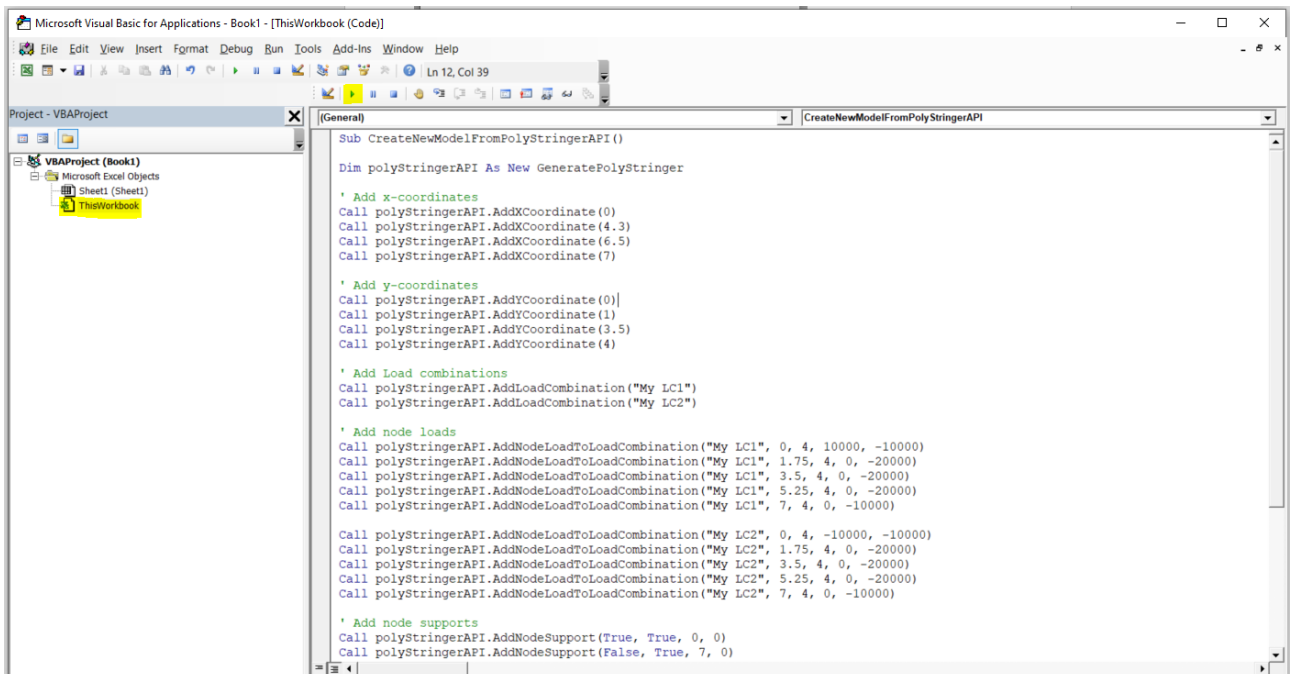


Find PolyStringerAPI in the list of “available References” check the tick box and click Ok.



## 2. Create PolyStringer model using PolyStringer API

Click on "ThisWorkbook" and insert the following code into the window:





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## VBA Code Example:

```
Sub CreateNewModelFromPolyStringerAPI()  
  
    Dim polyStringerAPI As New PolyStringerModel  
  
    ' Add x-coordinates  
    Call polyStringerAPI.AddXCoordinate(0)  
    Call polyStringerAPI.AddXCoordinate(4.3)  
    Call polyStringerAPI.AddXCoordinate(6.5)  
    Call polyStringerAPI.AddXCoordinate(7)  
  
    ' Add y-coordinates  
    Call polyStringerAPI.AddYCoordinate(0)  
    Call polyStringerAPI.AddYCoordinate(1)  
    Call polyStringerAPI.AddYCoordinate(3.5)  
    Call polyStringerAPI.AddYCoordinate(4)  
  
    ' Add Load combinations  
    Call polyStringerAPI.AddLoadCombination("My LC1")  
    Call polyStringerAPI.AddLoadCombination("My LC2")  
  
    ' Add node loads  
    Call polyStringerAPI.AddNodeLoad("My LC1", 0, 4, 10000, -10000)  
    Call polyStringerAPI.AddNodeLoad("My LC1", 1.75, 4, 0, -20000)  
    Call polyStringerAPI.AddNodeLoad("My LC1", 3.5, 4, 0, -20000)  
    Call polyStringerAPI.AddNodeLoad("My LC1", 5.25, 4, 0, -20000)  
    Call polyStringerAPI.AddNodeLoad("My LC1", 7, 4, 0, -10000)  
  
    Call polyStringerAPI.AddNodeLoad("My LC2", 0, 4, -10000, -10000)  
    Call polyStringerAPI.AddNodeLoad("My LC2", 1.75, 4, 0, -20000)  
    Call polyStringerAPI.AddNodeLoad("My LC2", 3.5, 4, 0, -20000)  
    Call polyStringerAPI.AddNodeLoad("My LC2", 5.25, 4, 0, -20000)  
    Call polyStringerAPI.AddNodeLoad("My LC2", 7, 4, 0, -10000)  
  
    ' Add node supports  
    Call polyStringerAPI.AddNodeSupport(True, True, 0, 0)  
    Call polyStringerAPI.AddNodeSupport(False, True, 7, 0)  
  
    ' Add opening  
    Call polyStringerAPI.AddOpening(True, 2, 4, 0, 3)  
    Call polyStringerAPI.AddOpening(True, 5, 6.5, 1.5, 3)  
  
    ' Remove bottom stringer at opening  
    Call polyStringerAPI.AddInactiveStringer(2, 4, 0, 0)  
  
    ' Open PolyStringer model  
    Call polyStringerAPI.OpenModel  
  
End Sub
```

### 3. Run VBA

Press F5 to run the code. A dialog box will appear asking you to save the PolyStringer API file. Save the file with some name at your preferred location and PolyStringer will then open the created model. You can then continue working on the created model directly in PolyStringer.



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