



Webinar: SOFiSTiK + mindCreations Slab-tendons in a BIM-Workflow

Webinar Tuesday, September 22nd, 2020 - Q & A

1. How much of the tendon settings come pre-set? I.e. do the tendon settings have ,defaults' properties?

It is up to the user to define the number of strands and labels to suite his needs. All settings are per AS3600, or whichever code you are using.

2. I've noticed a few „AS3600“ items...are these settings manually set? Or do are they predefined by the Sofistik software?

The design code is set at the start of the project in SOFiSTiK. SOFiSTiK will fetch information like material properties from this defined code. Prestressing data can be set in a dialog in SOFiSTiK and can be re-used in different projects.

3. Does Sofistik/ mindCreations offer video tutorials teaching how to use the software? Or, is there a detailed manual? Are examples included in the manual etc. etc.

As for SOFiSTiK, there is an online documentation available which includes e.g. tutorial videos. We also offer training on SOFiSTiK/PT Bot.

4. Hi, what about creating tendons in beams? Both in the analytical model and shop drawings

As for the analysis in SOFiSTiK, the add-on in Revit is targeted to define tendons for prestressed slabs. Using the standard FEA package, SOFiSTiK provides a thorough set of functionality to define and analyse prestressed beams. The model can easily be transferred from Revit.

5. If slab is supporting a transfer wall on top, how do you mesh the slab underneath? Do we need to have a line of mesh right under transfer wall?

No, the SOFiSTiK mesher automatically recognizes intersections between wall and slabs (and other elements as well) and creates constraining lines so a consistent mesh can be created.

6. For set downs, how do you model and mesh the slab at that intersection?

There are multiple ways to consider this situation. For example you can model reference points and connect it with rigid links to the lower slab. PTBot will consider these changes in levels. The end user can also manually override the stool heights in PTBot.

7. How about reinforcement? Is there a way to export reo as well?

The app SOFiSTiK Reinforcement Detailing allows to create drawings and schedules for standard reinforcement. See here for further information: <https://www.sofistik.com/products/bim-cad/reinforcement-detailing>.

8. Is this combo Dynamo/Revit add on available as one solution?

The Dynamo package, allowing you to access analysis data and results in Dynamo will be installed with the SOFiSTiK Revit Addon automatically. With the Dynamo package we also ship example scripts.

9. Sam, what is the library of the PTBot??

Hi, not sure what you mean by library, but PTBot is based on Revit Families and where applicable Revit function calls with our logic built on top.

10. Is this solution heavy on hardware?

The solution doesn't require much more computational resources than Revit itself.

11. Can sofistik run with revit viewer? Revit viewer mode allows the users to open revit file after its license expired, but will not be able to access full functions of revit in modelling, only viewing. So sofistik won't be any good in this mode, am i right?

Right, the SOFiSTiK addon only operates on standard Revit and not on Revit Viewer which does not allow to run external applications.

12. Does sofistik come with a stand alone version, instead of as an add-on to revit?

Sure. SOFiSTiK provides a comprehensive FEA package for static and dynamic analysis, which integrates also in other platforms like AutoCad. See here for further information: <https://www.sofistik.com/products/finite-elements/sofistik-fem-packages>.

13. Does this software also produce reinforcing drawings over and above the tendon drawings?

With the app SOFiSTiK Reinforcement Detailing you can create drawings and schedules for standard reinforcement. See here for further information: <https://www.sofistik.com/products/bim-cad/reinforcement-detailing>.