

## Bridge Design Sofistik

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Beam Bridge Basics - Tendons, Construction Stages and Design in SOFiSTiK SOFinar: Bridge Design (2014)  
- Part 1 ~~First look at SOFiSTiK Bridge Modeller for Revit~~

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Basics of Modelling a Parametric Beam Bridge in SOFiSTiKCSM DESI Bridge Design Interpretations  
~~Webcast | SOFiSTiK BIM App per Revit~~ SOFiSTiK T-beam philosophy in building construction

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SOFinar: Bridge Design (2014) - Part 4

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design bridges with sofistik 1SOFinar: Bridge Design (2014) - Part 2 Revit. Highly parametric bridge model  
and placement with Dynamo SOFiSTiK II SOFiPLUS (-X) Beginners Tutorial: Frame

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Bridge Design Workflow Explanation

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\SOFiSTiK Bridge Modeller 2019 -

3D

Page 1/6

\Autodesk

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~~Structural Bridge Design Introduction Reinforcing bar coupler of beam in Revit 2021 BRIDGE DESIGN  
DETAILS Part 1 The Power Of Attribute Area in SOFiSTiK SOFiSTiK | 2020 - Design of Area and  
Beam Elements (06) Structural BIM Modelling by Revit (Chapter-2\_Beam \u0026 Beam System) - English  
Version SOFinar: 2014 - Vorspannung in SOFiPLUS CSM DESI Bridge Design SOFiSTiK Bridge Modeler  
CSM DESI Slab Bridge SOFiSTiK Layerdesign SOFinar: Bridge Design (2014) Part 5 CSM DESI AASHTO  
Bridge Design SOFinar: Bridge Design (2014) Part 3 SOFinar: Creep and Shrinkage with SOFiSTiK  
Background and Examples Bridge Design Sofistik~~

Bridge Design The widely used modular concept of the SOFiSTiK FE software has especially enabled generations of bridge designers to do their challenging job. Ranging from parametric design of frame bridges to force optimization and shop form computations of large span post-tensioned concrete and steel bridges.

## ~~Bridge Design | SOFiSTiK AG~~

~~Working through the available tutorials the user will learn the general SOFiSTiK Bridge Design Workflow. On different bridge types we show different ways of system generation as well as the design processes for different element types.~~

## ~~Tutorials for Bridge Design — SOFiSTiK Tutorials 2018~~

~~The widely used modular concept of the SOFiSTiK FE software has especially enabled generations of bridge designers to do their challenging job.~~

## ~~Bridge Design | SOFiSTiK AG~~

~~SOFiSTiK Bridge Modeler supports BIM in Bridge Design and Detailing. The application allows users to~~

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create parametrized 3D bridge models using alignment parameters and generic families in Autodesk® Revit® 2020. The parametric modeling allows case studies and reduces planning time and cost.

## ~~Bridge + Infrastructure Modeler | SOFiSTiK AG~~

Whether you will use beam or shell elements, defining the bridge geometry follows the same principles based on an existing bridge axis. Go to the tab “ Structural Elements ” and select a command “ Line ” or “ Area ” . Use the right mouse click to open the context menu and select the command “ SEGment on geometric axis ” .

## ~~General Workflow Bridge Design — SOFiSTiK Tutorials 2018~~

Attach cross-sections, placements, and any further relevant information to the road alignment and build a fully parametric bridge model for analysis and design. Benefit from the streamlined workflow between Grasshopper and SOFiSTiK to maximize efficiency, flexibility, and accuracy. What you will learn

## ~~Parametric Bridge Design — SOFiSTiK~~

The analytical model of the bridge consists of two composite beam sections connected with a concrete slab and steel cross beams.

## ~~Composite Bridge — SOFiSTiK TUTORiALS~~

The analytical model of the bridge consists of beam elements.

## ~~Balanced Cantilever Bridge — SOFiSTiK TUTORiALS~~

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Building Design Structural analysis and design for buildings requires both powerful and versatile software. Seismic design for 3D FE models, reliable slab design with punching checks and member design for columns and foundations, these are some of the core features of the SOFiSTiK FEM-Packages.

## ~~Building Design | SOFiSTiK AG~~

Webinar Series Bridge Fatigue Analysis & Design This series of webinars will present appropriate background for the basis of fatigue design of bridges as enshrined in North American codes such as AASHTO LRFD and CAN/CSA-S6-19. The various topics discussed will include:

## ~~Webinar: Bridge Fatigue Analysis & Design — SOFiSTiK~~

The primary objective of the online tutorials is to explain workflows of different types of structures such as bridge design, building design, steel design, geotechnics, dynamics and fire design. All tutorials are intended to support new users to SOFiSTiK to become familiar with the recommended workflows. SOFiSTiK Online Tutorials 2018

## ~~Getting Started Guide — Guido Altersberger~~

Attach cross-sections, placements, and any further relevant information to the road alignment and build a fully parametric bridge model for analysis and design. Benefit from the streamlined workflow between Grasshopper and SOFiSTiK to maximize efficiency, flexibility, and accuracy. What you will learn

## ~~Webinar: Parametric Bridge Design with Rhino ... — SOFiSTiK~~

Bridge design is a very dynamic process, and modifications on the structure are happening on a regular basis.

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To ensure an efficient workflow – it is essential for software solutions responding to these ongoing changes by minimising the effort in remodelling the structure.

## ~~Bridge Design and Detailing in Revit – Guido Altersberger~~

SOFiSTiK AG rolled out a free Post-Tensioned Beam Bridge Online Course. The course covers the entire workflow of modelling, analysing and designing a beam bridge.

## ~~Guido Altersberger~~

SOFiN Consulting provides state of art design and consulting services for bridge design. From big to small – from complex to everyday bridges. SOFiN Consulting supports you as fast and reliable sub-consultant. We join your design team or offer independent bridge design services.

## ~~SOFiN Consulting – Bridge design and consulting~~

Complex Steel Bridge Design Through SOFiSTiK and Parametric Modelling. The SR 826/Palmetto Expressway and SR 25/ Okeechobee Road Interchange Improvement Project in Miami-Dade County, FL consists of the design and construction of three new flyover ramps to provide additional routes with direct connection at the existing interchange while also improving safety and alleviating traffic.

## ~~Webinar Recording: SOFiSTiK & Finley~~

The next steps to create tendons, construction stages and perform the design of the beam bridge are shown in Beam Bridge Basics – Tendons, Construction Stages and Design. Download the project files Basics of Modelling a Parametric Beam Bridge. For more Bridge tutorials check the official SOFiSTiK online tutorials.

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