The Passive House Institute, as part of the EU-funded project Built2Spec, have been developing a software tool to integrate PHPP (Passive House Planning Package) and BIM software. It enables designers to include relevant building physics properties in BIM models, and from there to export both these and the building’s geometry directly into PHPP. By using the JFC format to store the information, it’s been possible to make the tool independent of any single software platform.

In this workshop, experts from the Passive House Institute will demonstrate how to use this new utility by applying project templates to building models in one or two BIM authoring tools for designers to enter the relevant data in the BIM software and then export it into PHPP.

In conjunction with the development of the PHI tool, the Spanish design office Glaucò Estudio has built PassivLink, a dedicated plugin for Revit. This tool enables the entry of relevant data into a Revit model and allows direct export from there into PHPP. The plugin will be demonstrated by its makers at the workshop.

Both tools are currently in a beta-tester stage and the workshop will offer hands-on training with the beta-versions, allowing participants to get familiar with them. This is your chance to get a preview of these invaluable tools before general release.
Requirements

Participants should bring their laptops with either Autodesk Revit (2017 or higher) or ArchiCAD (20 or higher) installed.

Please note: Revit is a prerequisite for following the PassivLink tutorials.

PHI credit points

Completion of this masterclass earns participants 9 credit points towards renewal of the Certified Passivhaus Designer / Consultant qualification.

Speakers

Aurelia Lippolis
Building Energy Engineer | Passivhaus Institute

Aurelia Lippolis took her graduation in Building Engineering at Politecnico di Bari (Italy) with a master thesis called “Project Quality Controls In Building Process and Criticality Survey Through BIM-based Methodology”. Her interest in the energy efficiency field and in BIM related topics guided her to the Passivhaus Institute, where she works as a responsible of the IFCCConverter Tool development (exportation of BIM model to PHPP) and in building certification and consultancy.

Gergina Radeva
Researcher, Certified Passivhaus Designer, Passivhaus Certifier | Passivhaus Institute

Gergina Radeva graduated with a master’s degree in architecture from the University of Applied Sciences in Erfurt, Germany. She became inspired by the Passive House concept already during her studies and joined the research team at the Passive House Institute right after her graduation in 2016. The main focus of her work ever since is building consultancy and certification as well as PH training.

Juan Calvo
Architect, Certified Passivhaus Designer, Certified Revit Professional | Glauco Estudio

Partner and co-founder at Glauco Estudio and PassivLink. Juan is an Architect and Passivhaus Designer based in Madrid who has participated in different college programs and workshops in universities like M.I.T. in Boston. He has accumulated over 5 years of experience as freelancer, collaborating with different offices in Spain. Juan is an architect specialized in BIM, coding with C# and the Revit API and Passivhaus Design.
Overview of agenda

- Introduction to BIM and PHPP
- Compatibility and challenges/limitations when dealing with energy efficiency data
- PHI solution for working with BIM templates and .IFC export
- Hands-on exercises with the tool and PHPP
- Demonstration of the converter
- Introduction to PassivLink
- Preview of future features