

2 Day Technical Course on Thermal Bridge Calculations for Passive House Projects

February 20th and 21st 2012 - New York City



What can I say! This morning I woke up with the satisfied sense that I not only understood this, but that I was equipped to apply what I knew. I'm psyched! I got my money's worth and then some" – Jamie Wolf, Wolfworks Inc, CPHC, Connecticut

The Academy raised the training bar to a whole other level with their recent NY Therm class. They covered the spectrum from novice to expert in two jam-packed days and everyone was given a copy of their specially developed Psi Xls IP calculator- Bronwyn Barry, Assoc.AIA. CPHC, California

Why take this course?

Thermal bridges are responsible for huge heat losses in buildings and typically occur at junctions between different planes in the building envelope, and also at door at window junctions. Thermal bridges also reduce surface temperatures which can result in mold and deterioration of indoor air quality. A building that is thermal bridge free is therefore cheaper to build and healthier for the occupants. If you are involved in a Certified Passive House project, it will be necessary to calculate the Thermal Bridges – and if you participate in this course you will be able to do this work yourself rather than commission someone else to do it.

Target Participants:

Passive House Consultants and Designers, Building Design Professionals and Consultants, Passive House Building Contractors & Manufacturers and Insulation Specifiers and Manufacturers.

Participants will require some previous knowledge of calculating heat loss from buildings (including knowing what a psi value is), a working knowledge of MS Excel and the ability to read building plans and knowledge of typical construction methods.

Accreditation:



This programme has been accredited by the American Institute of Architects and is worth 12 Learning Units (see www.aia.org)

Course Fee:

The standard course cost is \$425, including handouts and software.

A 10% discount is provided for Members of the New York Passive House group (discounted price of \$385 – see <http://nypassivehouse.org/>). Please bring your own refreshments and lunch.

Course Overview:

- Duration:** Two days of direct contact classroom training, from 8.30am to 5.30pm.
- Venue:** The course will be run at a convenient location in NYC.
- Trainers:** The course is led by experienced Academy staff who have delivered this course in both NYC and Berkeley in 2011.
- Materials:** Comprehensive course material (all in IP units) is provided at course commencement, along with a free copy of our specially developed Psi calculator.
- Class size:** Approximately 15 to 20 persons.

Learning Objectives:

- Overview of Passive House Standard and importance of thermal bridge detailing;
- Illustration of typical thermal bridges and their impact on energy performance, comfort and building health;
- Preparation of construction details for use in thermal bridge analysis;
- Introduction to the Therm software (freeware) and overview of key inputs including material selection, conductivity assignment, setting boundary conditions, calculating U-factors;
- Key outputs of Therm, including how to optimally depict thermal bridges;
- Calculation of thermal bridges with a PSI calculator (specially developed for the US Market by the Academy);
- Hands on calculation of thermal bridge values for a variety of junctions (foundation (wall to floor junction), slab on grade, basement wall to floor, cantilever balcony connection, window fitting, party-wall to external wall connection);
- Overview on how to remedy poor construction detailing;
- Importing of construction details into the Passive House Planning Package (PHPP) and illustration of their impact (whether positive or negative) on overall energy balance.

Computer Equipment and Software:

Participants need to bring the following: Laptop (Windows Xp or later and Microsoft Excel), scientific calculator, drawing pens and pencils and a notepad. A registered and fully installed and working copy of (freeware) Therm 5.2 is also required.

You can register for this training by clicking [this link](#).

The link won't work on iPhone or iPad – you'll have to visit our website, apologies...

Contact Details

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Terms and Conditions: In the unlikely event that a course has to be cancelled, your payment will be returned in full. A minimum of 15 - 20 persons will be required to run the course. The Passive House Academy will not be held liable for any cost incurred, whether directly or indirectly, resulting from cancellation or change of course date. If the date of a course has to be changed, we will contact you as soon as possible in advance by e-mail.

THANK YOU!