

## CURRICULUM VITAE

### TBZ

April 2010

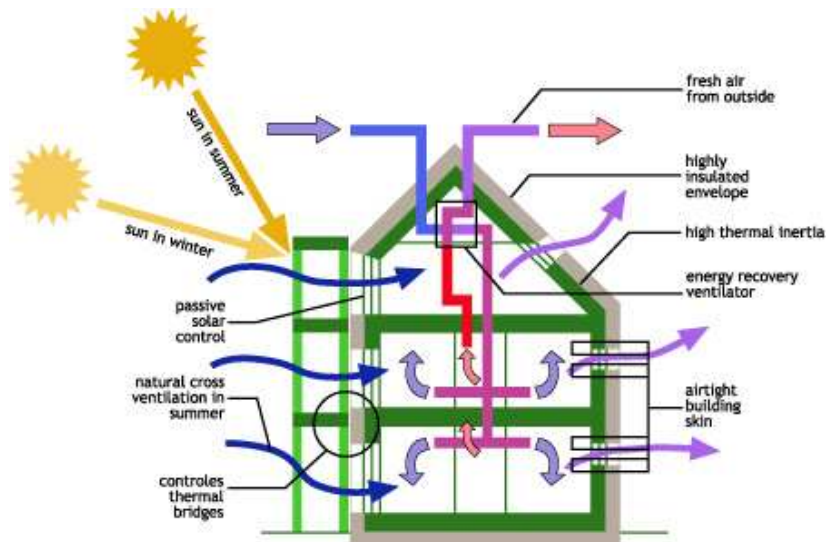
TBZ srl. is a specialized engineering company for developing low energy consumption buildings in hot regions, with very low energy demands of 30kWh/m<sup>2</sup> or lower, reaching in some times zero net energy demands.

The Company is not only qualified to accredit Passive House Certifications but is also actively involved in the education sector, promoting the culture of energy efficient buildings at universities and colleges in various European countries. Its current investigation projects include two European projects: CEPH – Certified European Passive House Planer, and RenovEnergy – a socio-economical study concerning the social barriers of energetic retrofitting practice.

TBZ-Spain has become an official accreditation body for the Spanish construction industry's environmental labeling tool "Verde" (GBC Spain).

Since 2007, TBZ organizes the annual Passive House conference in Italy, and in 2009, Micheel Wassouf (TBZ-Spain) organized the first Spanish Passive House conference in Barcelona.

TBZ have published widely on the subject of energy efficient architecture, including the catalogue of Italian PH conferences, "Passivhaus" in collaboration with the University of Florence.



  
**PassivhausPlaner**  
 Architekt

TBZ - Micheel Wassouf is an official consultant for Passive House design



## Core projects

### Energy Efficiency and architecture

- From 2000 – Blower Door Test for the control of the air tightness of buildings
- 2000 - Casa Bovaira in Oropesa (with architects b-720)
- 2001 – Executive design for the energetic retrofitting of office building in Tuerckenstrasse 60 in Munich (with RS –Architekten)
- Since 2002 – Control of thermal bridges with Infrared Camera
- 2002 – Terraced houses in Rottach-Egern/ Germany (with Zirsch-Architekten)
- Since 2003 – Energy Auditing for housing renovation according to German “Vor Ort Beratung”
- Since 2003 – Certification of buildings “Casa Clima” and “Casa Clima A+”
- 2003 – Partnership with the Passivhausinstitut for translating PHPP software into Italian. Partnership in the Working Group “Economic Passive Buildings”
- 2003 – First Italian wide certified building with Passive House Standard
- 2004 – Energy and bioclimatic consultancy of basic primary school Cognento (Mo)
- 2005 – First certification of a building “Casa Clima gold” in timber construction
- 2005 – First certification of a building “Casa Clima gold” in massive construction
- 2005 – First office building certified as a Passive House in Mediterranean climate (Santa Croce sull’Arno / Pi)
- 2005 – Accredited by the Passivhausinstitut for the certification of Passive House buildings
- 2005 – Certification of a Passive House residential building in Forli (FC)
- 2005 – Energy consultancy for a “Casa Clima A” residential building complex in Moden and Bologna (Contratto di quartiere CdQ2)
- 2006 – Certification of the first school building in Passive House standard in Italy
- 2005/07 – Energetic renovation of building “G33” of the “Bundeswehr-University” in Munich-Neubiberg (with Langecker & Pt.)
- 2007 – Passive House Project “House Kipferl” in Munich
- 2007 – Energetic concept of the new registry office competition in Madrid (finalist)
- 2007 – Passive House consultancy for a highrise building with Kenzo Tange architects
- 2008 – Energetic consultancy for the “Área Metropolitana de Barcelona”: New public library in Castelldefels
- 2008 – Energetic concept in the competition “School Building in Sant Julia de Llor i Bonmatí, I. Prize
- 2008 – Energetic optimization of the “Hoderlein House” in Begues/Barcelona
- 2008 – Energetic concept for the competition entry: New Castle in Berlin, with GSW-Architekten, proposal as a special prize
- 2008 – Energetic concept of the “Plan Director Técnico y Cromático del Barrio de Canyelles” in Barcelona, I.prize (with roomz arquitectos)
- 2008 – Project for photovoltaic installation 30 kWp in Nairobi 7 Kenia, for “Medecins Sans Frontiers”
- 2008/09 – Consultancy for “Casa Clima A” standard in a school building complex in Osio di Sotto (BG)
- 2009 – Executive design for a school building complex with “Casa Clima A” standard, in Comune de Lido Adriano (RA)



- 2009 – Project design and site control of a semi detached house in Meldola (FC), with “Casa Clima A” standard
- 2009 – Passive House assessment for a fully detached house in Ireland (Kilpatrick House)
- 2009/10 – European research study “RenovEnergy”, concerning barriers in the diffusion of energetic retrofitting in 5 European countries (directed by ADEME/France)
- 2009 – Energetic assessment of the building developer Situart
- 2009/10 – Development of Passive House complex in Huesca-Barbastro (Casa De Vries)
- 2009 – Project for a photovoltaic installation in a school in Argentona / Barcelona
- 2009/10 – Energetic assessment for a Passive House in Lleida (Casa Bunyesc)
- 2009 – Energetic assessment in a project for a new school building in Sidamon
- 2009 – Energetic assessment in a project for a new school building in Sant Julia de Llor I Bonmatí
- 2009 – Third prize in the competition entry for retrofitting a social center in Barcelona-Gracia (La Violeta)
- 2009 – Comparative study for a new insulation product of Knauf-Spain (EPS-grafito)
- 2009 – Project design and site control of a fully detached house with Passive house standard in Lazise (VR)
- 2009/10 – Energetic assessment for a Passive House in Obidós, Portugal (Casa Olsson)
- 2010 – Official evaluator for an official energetic labeling tool for the Building Ministry in Spain
- 2010 – Energy Auditing for Onix-hotel in C/Llançà/Barcelona

### Teaching activity

- 2004 – Courses for the “Casa Clima” standard
  - 2007 – 16 courses for low energy consumption design in Italy
  - 2008 – Teaching in Riwega course about energy efficiency aspects in timber frame constructions
  - 2009 – First course about Passive House design in Spain (Escola Sert in the Catalan Architects Chamber)
  - 2009 – Course “Sustainability in the construction” for Velux-Italy in Verona
  - 2009 – Teaching about “Passive houses in Mediterranean climate”, in the course “Bioabitare” in Pisa – Volterra (Pi)
  - 2010 – Passive House courses in Barcelona and Tarragona
  - 2010 – Passive House courses in the “ICARO-Institute” in the “Colegio de Arquitectos de Valencia”
  - 2010 – Passive house course in the FECEA-Institute in Oviedo
  - 2010 – Teaching in a Passive House course in the “Colegio de Arquitectos de Madrid”
  - 2010 – Course “webinar” about low energy consumption building design (gestor-energético)
  - 2010 – Telecourse “Energy efficiency in building construction (gestor-energético)
  - 2010 – Workshop “Students-Residence” with the Damascus University and the German-Jordanian University
- Since 2004 - Günther Gantioler, Michele De Beni and Micheel Wassouf are giving lectures about high energy efficiency in building design in a lot of national and international conferences:  
Aosta, Hamburgo, Krams, Bolzano, Bologna, Venezia, Kassel, Stuttgart, Barcelona, Zaragoza, Damasco, Amman...)

Examples of constructed Passive House buildings:



Net zero energy building: "ASSA-offices" in Bologna

Architect:

Silvia Mazzetti

Energy design:

TBZ-Modena

Construction date: 2006



Passive House in Borghetti in Montiano (FC)/Italy

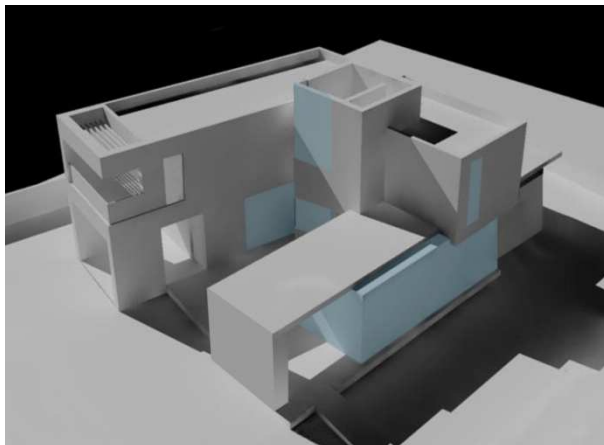
Architect:

Gabriele Borghetti

Passive House design:

TBZ-Modena

Construction date: 2008

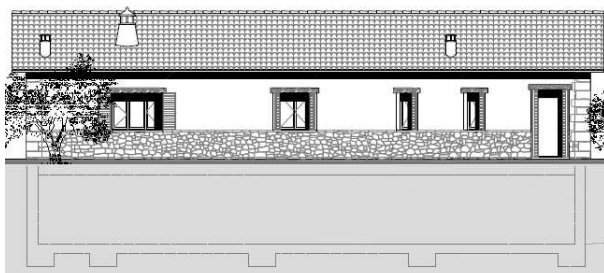


Passive House in Bisceglie / Bari / Italy

Passive House design:

TBZ-Gravina

Construction date: 2010



Passive House in Barbastro / Aragón / Spain

Architects:

Albajar – Parra

Passive House design:

TBZ-Barcelona

Construction date: 2010



مكتب المهندسين **تي بي تسيد** مختص في تصميم المباني التي تراعى فيها شروط البيئة والتي تتسم بفعالية اقتصادية عالية ويتم فيها توفير الطاقة وفي نفس الوقت تحقق أعلى مستوى من الراحة.

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