

Regeneration and community development in Trent Basin, Nottingham, UK

ISOVER MULTI-COMFORT HOUSE STUDENTS CONTEST

8th International Stage – Bratislava 2012









Multi-Comfort House

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Multi-Comfort House

Introduction

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HISTORY

The 8th International Stage of ISOVER Multi-Comfort House Students Contest took place in Bratislava, Slovakia during 22nd and 25th of May.

A record number of almost 1000 students from over 100 universities on 3 continents registered for the participation in this year national stages.

The best 3 projects from each country participated at the international stage. During the 3 days of the competition, 60 students teams from from 21 countries presented their projects.

The newcomers from Poland, Russia and Ukraine, joined the participants from: Belarus, Bulgaria, Croatia, Czech Republic, Estonia, Finland, Germany, Kazakhstan, Latvia, Lithuania, Romania, Serbia, Slovakia, Slovenia, Spain, Turkey, United Kingdom and the Pennsylvania (USA).



ASSIGNMENT

The subject of the 2012 competition was the design of a sustainable community within the regeneration program of the Trent Basin area, Nottingham, UK.

The project consist in developing a sustainable neighbourhood, providing accommodation for 12-15 families and essential services to assure an effective live work scheme, plus to develop a vision of regeneration of a larger area where this neighbourhood is placed, in which infrastructure, offices, leisure and recreation are conceived to reutilize existing buildings and to provide an effective integration to the city.

FINAL STAGE

The contest started with the opening of poster exhibition giving the participants as well as jury members a first change to see all the proposed projects.

The members of the jury were:

- Eng. Arch. Ľubomír Závodný from Faculty of Architecture STU, Slovakia
- Eng. Jean-Baptiste Rieunier from Saint-Gobain ISOVER
- Arch. Roland Matzig from RMP Architecten, Germany



Participants in the ISOVER Multi-Comfort House Students Contest 2012 International Stage

Multi-Comfort House

The International Winners 2012

During the second day each participating team had the opportunity to present their design and ideas to the jury as well as to the other participants and to friends and colleagues watching them online as the event was webcast live.



THE INTERNATIONAL WINNERS 2012

- 1ST PRIZE: TAMARA KULJANIN, NEMANJA KOCIĆ from University of Belgrade, Serbia.
- 2ND PRIZE: ANDREY ANDRAYUK from Belarusian National Technical University in Minsk, Belarus
- 3RD PRIZE: AUŠRA LEKAUSKAITĖ, MĖTA ŠALŪGAITĖ from VDA Kaunas Art Faculty, Lithuania

Special prizes:

- ZORNICA PETROVA, GEORGI GROZDANOV, IVAILO ALEXANDROV from Higher School of Civil Engineering, Sofia, Bulgaria
- AGNIESZKA WIECZOREK , PIOTR JUZWA from Silesian University of Technology, Poland



Winners of ISOVER Multi-Comfort House Students Contest 2012 International Stage

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The Professors



PROFESSOR ARCH. ANNA LITVINOVA

Belarus

Architect, designer and a leading expert in the field of architectural design and coloring, design of color and their study in architectural school. Head of the department "Design of architectural environment" at Belarusian National Technical University since 2002, Associate Professor. In 1980, graduated from the Dnepropetrovsk Civil Engineering Institute in speciality "Architecture," in 1992 - postgraduate studies (by correspondence) at the Belarusian State Polytechnic Academy. Since 1986 - Member of the USSR Union of Architects, the Belarusian Union of Architects. Full member of the AAU MOOSAO of the Republic of Belarus. Winner of the Special Prize of the President of the Republic of Belarus in the field of criticism and art history in 2003, Vth BSA National Festival of Architecture, International Science Project Competition and Exhibition mode on-line "Artistic Design Culture In the Era of Information Technologies", Russia, 2008. For creative achievements in the training of future architects awarded diplomas of the Belarusian Union of Architects and the Belarusian Union of Designers. The head of 30 graduation diploma projects (starting with 1998) marked by I and II degrees certificates in international and national contest of the best graduation projects (2 Grand Prix of the Republican contests.) Co-author of a textbook. "Architectural coloring"(two books), author over 50 scientific publications in domestic and foreign editions. The participant of republican and international conferences, symposiums, congresses and exhibitions. Jury member of international and national competitions in the field of architecture and design. Author and coauthor of over 50 completed and implemented significant works of architecture and design (Belarus, Russia, Ukraine, Crimea, Armenia, Lithuania).



DOCTOR OF ARCHITECTURE ARMEN SARDAROV

Belarus

Doctor of architecture, Dean of the Architect department of Belarusian National Technical University. The Belarusian scientist, architect and teacher. He graduated from the Architectural Faculty of the Belarusian Polytechnic Institute. In 1974 he successfully defended his thesis, for the first time in the Soviet Union on the theme "Road architecture". From 1973 to 2005 he worked in the national road organizations in Belarus, starting as a senior engineer at the Institute "Belgiprodor" to the Deputy Director General - the chief architect of RUP "Beldortsentr." Since 2005 - Dean, Faculty of Architecture BNTU. Doctor of Architecture. Researcher in the field of transport architecture and history of the roads development in Belarus. Author of 7 books and over 200 other scientific papers. Works of A. Sardarov were translated to different languages in the United States, China and Poland. From 1992 to 1998 - Member of the Transportation Research Board (TRB) at the National Academy of Sciences of the USA. Editor in chief and associate editor of three scientific journals. Member of the Scientific and Methodological Council on the Protection of Historical and Cultural Heritage issues under the Ministry of Culture of Belarus. Author of the project of the memorial sign "Pachatak darog Belarus" on October Square in Minsk, the architectural design of bridges and overpasses in Minsk, Vitebsk, Mogilev, Gomel, Orsha, the projects of public buildings in Minsk and Minsk region. He developed over 120 projects of architectural and graphic design, facilities improvement of roads in Belarus. Awarded with six silver medals at USSR Exhibition of Economic Achievements, signs "Honorable roader" I and II degree, the medal of St. Cyril of Turov, Diplomas issued by Minsk Regional Executive Committee, Minsk City Council, the Ministry of Education, Ministry of Construction and operation of highways, the Ministry of Nature and the Environment.

ASSOCIATE PROFESSOR DR. ARCH. BORIANA GENOVA

Boriana Genova was born in 1950 in Sofia. She graduated Architecture at Engineering Institute for Higher Education major in urban planning in 1974 and started her career as an architect. In 1976 she started work as a research associate at the Health Research, Technological and Design Institute. For the next three years arch. Genova worked for her doctor's degree at the Moscow Architectural Institute. Since 1982 arch. Doctor Genova works at the University for Architecture, Engineering and Geodesy in Sofia first at the research laboratory and later at the department for residential buildings. Since 2000 she leads the Department for residential buildings. As a scientist and research arch. Genova worked on different problems and regulations in the field of health and social service buildings, education and residential buildings. At the Architectural University arch. Genova holds lectures in Residential and Social Buildings as well as Urban Planning.

PROFESSOR LJUBOMIR MIŠČEVĆ D.I.A.

Born in 1954 and graduated from the Faculty of Architecture in Zagreb in 1979. Since 1979 has been working in the Institute of Architecture and as an associate at the Department of Architectural Design. Since 1991 has been teaching Energy and Ecology Architecture. He became a senior lecturer in1994/95 and an assistant professor in 1996/97. Since 1997/98, has been a supervisor for Graduation thesis courses and in 1999/00 the head for courses in Integral Work. Completed the post-graduate program in Urban and Physical Planning in 1982; registered scientist. He attended a specialist seminar in Architecture and Practical Design in Lisbon in 1993: EU DG XVII. Since 1985 has been engaged in the Croatian project Passive Solar Housing Architecture and in international research projects in Energy and Ambience Rehabilitation in Housing. He received awards from the Croatian State Administration of Environmental Protection in 1995 and from Ford Motor Company for the protection of nature and cultural heritage in 2000. Since 2000, has been head of the International Summer School of Architecture in Motovun. Chairman of the Association of Zagreb's Architects from 2001-2005. The president of Croatian section in International Solar Energy Society (ISES) and vice-president of Croatian Centre for renewable energy sources (CERES). Head of EU projects for Croatia; PASS-NET (with the support of Intelligent Energy Europe - IEE) - the three years project (2007-2010) that promotes passive house as a standard of building in EU as of PERFECTION, IDES-EDU projects etc.

DR. ING. ARCH. RADEK KOLAŘÍK

Czech Republic

Born in 1964 he graduated in 1987 at Faculty of Architecture, Urban and Lanscape Design, Univ. of Technology in Brno. In 1989 he obtains his postgraduate degree in Architecture at the Academy of Fine Arts in Prague. Since 1996 till 2007 he is young professor (design studio head with Prof. Ing. arch. Eva Jiřičná) at Academy of Arts, Architecture and Design in Prague, department Architecture. Since 2007 he is associated professor (design studio head) at Faculty of Architecture at Czech Technical University in Prague. www.fa.cvut.cz/Cz/Ateliery/AtelierKolarik, www.rkaw.cz.

Croatia

Bulgaria













ING. ARCH. LADISLAV KALIVODA, CSC.

Born in 1949 he graduated in 1974 from CVUT - Czech Technical University in Prague. He started his teaching career in 1975 as assistant in Faculty of Civil Engineering at CVUT. Since 1992 he is the head of ateliers Stavmont Ltd and Stavba 15 Ltd. Starting from 2004 he is also teaching as a part time lecturer at CVUT – Faculty of Civil Engineering.

ARCH. TOMOMI HAYASHI

Estonia

Czech Republic

Born in Toyama, Japan in 1971. Earned Bachelor of Architecture from Yokohama National University, Japan in 1994, then Master of Architecture from Virginia Polytechnic Institute and State University, USA in 1999. Had worked at Maki and Associates, Tokyo in 1994-1995 and Rafael Viñoly Architects, New York in 1999-2001. Left USA for Estonia to set up an architecture office Head Arhitektid with two Estonian partners in 2001 and had practiced for two years. After departing the partnership collaborated with Arhitektuuribüroo KOSMOS in 2003. Since 2004 has been a partner at HG Arhitektuur OÜ. Had received the Architecture Prize from the Estonian Culture Endowment in 2003 and 2009 as well as nominated for Mies van der Rohe prize of European Architecture in 2005 and 2008. Upon practicing has been actively giving lectures at several universities in Estonia, Finland and Japan. In 2012 started teaching at Department of Architectural and Environmental Engineering at TTK University of Applied Sciences in Tallinn as a Head of Architectural Institute. In 2011 as appointed curator by the BAUA (Baltic Associations of Union of Architects) curated a joint exhibition of 3 Baltic States for the 24th UIA Congress in Tokyo.



LECTURER ARCH. KAI SÜDA

Graduated from University of Applied Sciences, Faculty of Architecture and Estonian Academy of Arts, Faculty of Architecture she is teaching since 2003 in University of Applied Sciences, Faculty of Architecture and Environmental Engineering. She is also involved in developing of local projects such as Restoration of the Viru Regional Unit Headquarters of Defence League or Tartu Nature House.



PROFESSOR JOUNI KOISO-KANTTILA

Born in 1947 he graduated from the Dep. of Architecture at the Univ. of Oulu in 1973 and made his PhD in architecture in 1976. He has been teaching architecture at the Dep. of Architecture, Univ. of Oulu since 1976. He is professor of Architecture from 1988 and now he also acts as the coordinator of Candidate of Technology program at the department. He has had his own architect's company for thirty years and has designed numerous buildings in northern and central Finland. He's been actively involved wood constructions, wooden architecture and energy efficiency research. He is also the head of the National Graduate School of Wood Constructing and Design and the leader of national Modern Wooden Town Program financed by the Finnish Government. He is a member of Finnish Academy of Technology and has received several national awards for wooden architecture.



Finland

Graduated from Department of Architecture at University of Oulu 1994. Member of the Finnish Association of Architects since 1995. Worked in architecture offices 1984-2003 focusing on public buildings, apartment buildings and wooden buildings. Teaching architecture at the university of Oulu in the department of architecture in the laboratory of architectural construction since 2003. The main aspects in teaching: wooden structures, detailing of structures, sustainability, energy efficiency, planning of flats. Member of the management team of the architecture department of the university of Oulu. The Good Teacher Award of Oulu university 2010.

PROFESSOR DIPL. ING. LUDWIG RONGEN

Since 1992 is appointed Professor on the Faculty of Architecture - University of Applied Science in Erfurt for design, structural theory and in particular for energy efficience building. In 1993 he has organized and managed department for the restoration. From 2004 till 2006 he was Dean of the Faculty of Architecture and since 2008 is the executive supervisor of the Master degree program "passive house +". He has also built up the cooperation with the Faculty of Architecture on the University Chengdu, China. He is the guest professor on the Sichuan University Chengdu and Southwest Jiaotong University Chengdu in China. He is constantly proving the current arch, praxis in the own office in Wassenberg (Germany), which has currently 20 employees and is working on the projects around energy efficient buildings in the new buildings and renovation. Since May 2011 he carries on an architectural office also in China (Changzhou). He has realized numerous passive houses as a pioneer such as the first European nursing home and the first prefabricated modulated multi-family passive house worldwide. He is an author and co-author of numerous publications and books and is permanently proving his architectural know-how by taking a part on the competitions. He is also working closely with the PHI (Passive House Institute) and DBU (German Federal Foundation for Environment) on research and development projects, actually the DBU-research project "Passive Houses for different climates (Dubai, Las Vegas, Yekaterinburg, Shanghai and Tokio)", together with the Passivhouse Institute Darmstadt (Germany).

Finland

Germany











PROFESSOR ROLF GRUBER

Germany

Kazakhstan

Kazakhstan

Born in 1953, graduated from Technical University Munich. He worked on the Art Academy Munich on the professorship for urban renewal and residential issues. After 2 years work and study in USA (UCLA Los Angeles, CUNY New York, projects with Charles Moore) he taught on the University of Hannover and worked in own architect office. Since 1991 he is the Professor for architectural design and building theory on the University of Applied Sciences in Erfurt. His work is always related to the building praxis and since 1996 he managed the office "Lofthaus" with partner Rolf Bollwahn in Erfurt. His main focus is on the public buildings, energy efficiency and all aspects of the sustainability. For the wooden frame office building he got the Thuringian architecture prize in 2001. One of his most important projects were Judiciary canter in Jena and extension of the German radio station building in Erfurt. His pedagogic work he is related to the architectural design, building typology and the designing methods. He is also very active in the creating the networks and cooperation with Universities in China, USA and Indonesia and is organising the international workshops for the cultural exchange.



SENIOR LECTURER ARCH. OLEG ESYUTIN

Graduated from Moscow Institute of Architecture in 1978, postgraduate at the Department of Architecture of residential and public buildings at Almaty Architecture and Construction Institute between 1984-1987. He is curently senior Lecturer, "Architecture and Design," at Institute of Architecture and Construction, KazNTU. He is curently involved in the development of different projects as a designer or as a supervisor in the corp. of city planners of Kazakhstan.



ASSISTANT PROFESSOR DINARA SADVOKASOVNA KARPYKOVA

Assistant professor of the department of Architecture at KasGASA, the Republic of Kazakhstan. Karpykova D. S. is an architect, highly skilled expert having the wide range of professional creative works. The sphere of her activity is connected with architectural, design, sculptural, art and decorative works. During practical work she has cooperated with creative teams of Moscow, Kiev and Volgograd, took part in city, republican and international exhibitions. She has creative experience connected with books in graphics and polygraph. Since 2000 she has been teaching the main disciplines on architectural specialty at KasGASA. She supervises diploma projects and term papers which are highly appreciated at the international, republican and city competitions. For participation at competitive projects of company "IZOVER" student's projects under her guidance were awarded with diplomas in 2009 and 2012.

ARCH. UĢIS BRATUŠKINS

Architect, born in 1961, Professional degree of Architect (1984), Master of Architecture (1995), Doctor of Architecture (2006). Doctoral thesis "Development of Public Open Spaces of Riga Medieval Centre in the 19th and 20th Centuries". Member of Latvian Association of Architects. Author of many public and dwelling buildings in Riga and other towns of Latvia. Dean of the Faculty of Architecture and Urban Planning of Riga Technical University. Regular publications in the almanac "Architecture and Construction Science"//"Scientific Proceedings of Riga Technical University" and local professional magazine "Latvijas Arhitektūra".

ASSOCIATE PROFESSOR LINAS TULEIKIS

Born in 1962 and gratuated from the Faculty of Architecture at the Vilnius Civil Engineering Institute in 1985. Till today is successfuly working in his own architect company. From 2001 started teaching architecture at the Department of Architecture, Vilnius Art Academy. 2002-2005 Lithuanian head of delegation in Architects Council of Europe (ACE), member of boards Lithuanian Fund of Architecture, Kaunas Development Forume, Architects Chamber of Lithuania.

LECTURER ARCH. GRAZYNA HRYNCEWICZ-LAMBER, PHD

My design experience embraces many fields of architectural practice: from industrial buildings to educational architecture, housing schemes and civic buildings. I have recently completed projects for a courthouse in Zabkowice Slaskie, urban rehabilitation/reuse scheme for a cultural centre in an old factory in Wroclaw. Currently I am involved in the design of a supercomputer technology building for Poznan based academic organisation PCSS. My university responsibilities comprise lectures in design ethics and intellectual property rights. I also lead design classes in communal architecture, urban infill, and rural planning. Tutoring students' design workshops is one of my favourite activities. I took part in organisation of a series of students' summer schools dedicated to the late MoMo heritage and the problems of its prospective regeneration or reuse. My PhD thesis was devoted to the factors behind the development of housing estates in Poland after the shift from socialist regime. I am currently involved in research on late MoMo buildings and their performance, architectural values, adaptive reuse, and the architecture of justice. I am one of the co-authors of the Lexicon of Wroclaw's architecture. I serve as the vice-president of the Disciplinary Jury of Lower Silesian Chamber of Architects. I am a member of SARP and DoCoMoMo International.

📕 Latvia









Poland





PROFESSOR ING. ARCH. JERZY WITECZEK, PHD

Poland

Jerzy Witeczek, Professor at Silesian University of Technology, PhD in Architecture, the former director of Department of Architectural Design. In 1999-2005 vice-dean of the Faculty of Architecture. As a young scientist, professor Witeczek got a professional internship in Austria and Germany. In 1976 he acquired professional building licence. He promoted over 150 diplomas, from which numerous were awarded in competitions for the Best Graduation Works, i.a. Skrypij Nowicki Award, Society of Polish Town Planners Award, W. Henn Award and Z. Majerski Award. Prof. Witeczek was awarded (as an author or co-author) in 25 national and international competitions i.a.: Development of Brownfield "Carolina" in Ostrava, Czech Republic - I prize, and Reactivation of the Mine Wasteland Prosper III in Bottrop, Germany – II prize. He is an author and co-author of publications and researches, author and co-author of many projects in Poland, i.a.: Factory Mokate in Ustroń and Żory, reconstructions of historic churches in Tworków, Racibórz and Bieńkowice, Educational and Conference Center of Silesian University of Technology in Gliwice, Technopark in Gliwice, Students Cultural Center "Mrowisko" in Gliwice, rebuilding of SDK on a new Faculty of Architectural Design of Silesian University of Technology in Gliwice, redevelopment of barracks on the Faculty of Organisation and Management of Silesian University of Technology in Zabrze, Faculty of New Technologies of Silesian University of Technology in Gliwice and many others. Jerzy Witeczek is the SARP member for 25 years, jury member, Member of the Scientific Council of the Joseph von Eichendorff Foundation, member of the Commission of Polish Town Planners and Architects Polish Academy of Science.



SENIOR LECTURER DR. ARCH. MAGDALENA BABORSKA-NAROŻNY

Poland

Poland

Dr. Magdalena Baborska-Narożny is Senior Lecturer in Architectural Design in the Faculty of Architecture at Wrocław University of Technology, Poland. She is also an architect with experience with award-winning competition entries and designs. Born in Wrocław and educated there and in Los Angeles, USA, she has degrees and professional qualifications in architecture form the universities of Wroclaw and Hull, UK. Her research interests to date focused on perception and evaluation of architecture, contemporary architecture of industry, particularly in terms of it's aesthetic, social and environmental quality. Director of Research Center for Sustainable Built Environment (RoSE) joining scientists from across the University.



PROFESSOR ING. ARCH. LECTURER ANDRZEJ DUDA

Andrzej Duda, born in 1953, graduated from Silesian University of Technology in Gliwice (1973-79), post graduate studies in The Berlage Institute of Amsterdam (1991-92), established architectural office INARKO (together with H. Zubel) in 1988. Winner of about 40 architectural competitions, Honoured with many awards for his architectural works. Since 1980 a teacher at the Architectural Department of Silesian University of Technology in Gliwice and a guest professor at Warsaw University of Technology, Wrocław University of Technology, Prague University of Technology and Tbilisi Art Academy. Since 2002 an independent expert of European Union Prize for Contemporary Architecture Mies van der Rohe Award.

PROFESSOR DR. ING. IRINA BLIUC

Prof. dr. ing. Irina Bliuc graduated from Civil Engineering Faculty, "Gh.Asachi" Technical University of Iasi. She accomplished the doctoral thesis in 1984, in the same university, the topic being related to Energy Efficiency and Comfort in Residential Buildings. The rich academic experience achieved in Faculty of Architecture and in Faculty of Civil Engineering and Building Services from "Gh. Asachi" Technical University of Iasi is reflected by course like: Buildings Physics, Constructions in Buildings, Renewable Energies, Modern Finishing Methods Used in Buildings Industry. The field of research is represented by: Energy Efficiency and Sustainable Buildings, Indoor Environment Quality and the Users' Satisfaction, Adapting Buildings to Climate Changes. She encouraged the co-operation between universities, being the promoter of such a research project, its subject being "Systems of Integrated Solutions for Thermal Rehabilitation of Buildings". Prof. Irina Bliuc is author and co-author of several technical books and papers published in important journals or proceedings of national and international congresses and conferences. She is also member of CIB, W077 – Facilities Management and Maintenance.

LECTURER DR. ARCH. MIHAI OPREANU

He is architect and lector at the Urbanism and Architecture University Ion Mincu, Bucharest, Technical science cathedra, since 1990. He has done serial research studies in ecological, bio-climatic and energy - efficient architecture as well as in historical monument restoration. Post-graduate in Architecture from UAIM Bucharest and Techniques History at EHESS Paris: Ambient Physics, Architectural Ecology and Technology, Restoration and Conservation. During 1994 and 2002 he participated to restoration workshop UAUIM - Ecole de Chaillot, Paris. He has regular articles in local architecture magazines "Arhitectura" and "Arhitext-Design" and also in "Monuments Historiques".

ARCH. KIRILL TESLER, PHD

Romania

Romania

Russia













PROFESSOR DEAN ALEVTINA BALAKINA, PHD



Russia

Russia

Serbia

In 1972 graduated from Moscow Institute of Architecture MARKhI. From 1972 to 1977 worked at the Institute for Health and Tourist Planning. From 1977 to 1980 gained a PhD in the Planning and Construction of Private Hotels and B&Bs in Holiday Towns from the Moscow State Construction Institute. In 1980 began working as an assistant teacher at the Department of Architecture. Participated in various competitions and is a member of the Russian Architects Union. Won first prize in the Multi-atrium residential house competition organised by the Russian Academy of Construction Sciences (RAASN), supervisor to the winner of the degree show for 2008, 2009. Winner of the International Living House competition organised by the international union of architects and the International Centre of Lomonosov Moscow University (Geneva). Other projects include: The Stavrople Hotel in Sochi, realised in 1980; a country house in Peredelkino, realised in 1985; Transportation Centre Leonozov, Project, 2011; Experimental ecovillage Genom, Project. Health and Educational Resort Complex, Project 2011; Multi-Functional Community Centre with Yacht Club, Project. Civil and Business Centre with high-speed tram connection in Kapotnya, Project 2010; Hotel Complex with Yacht Club in Kapotnya, Project, 2010; Business Hotel in Perevinskaya Poima, Project, 2008.



PROFESSOR OF ARCHITECTURE OLEG STAKHEEV

Area of scientific interests: architecture and town planning. Author of grants and methodical instructions. Author of more than 50 articles. Participant of many architectural competitions. The head of scientific programs in the field of architecture and town planning. Gives lectures and practical training according to the Architecture program at university. Member of council of town planning of Tomsk.



PROFESSOR DR. ING. SERGEY OVSYANNIKOV

Area of scientific interests: protection against noise, thermal protection of buildings and constructions, power efficiency in construction. Author of more than 80 articles. Author of grants and methodical instructions. The head of scientific programs in the field of a heat-shielding of buildings. Gives lectures and practical training according to the Construction program at university. A member of the union of builders in Tomsk.

ARCH. ZORAN LAZOVIĆ

Born in London. He graduated from the Architecture University of Belgrade and perfected his professional career at the Royal Academy of Fine Arts in Copenhagen. Arch. Lazovic attended the Architectural Faculty DEA in Belleville, Paris and obtained his license for professional work in France. He was a major architect at DOMELA & SARFATI, Paris. Since 1989 arch. Lazovic has been teaching Methodology of Architectural Design at the University of Belgrade. Some of his recent big projects are the Residential complex in Novi Belgrade, a Sports complex in Belgrade and the Observatory at Geocentre in Denmark

ING. ARCH. HENRICH PIFKO, PHD

Born in 1959, he is currently teaching at the Faculty of Architecture of the Slovak University of Technology in Bratislava, at the Institute of Ecological and Experimental Architecture where he is the sponsor of the educational module "Architecture and Environment". In addition to teaching he is authorized architect (SKA), specialized in green architecture and passive houses (he is Certified Passive House Designer). He is chairman of the Institute for Passive Houses (iEPD) and founding member of ArTUR (Architecture for Sustainable Development) NGO. He participated in international research projects (e.g. EcoCity, Oikodomos) and he is co-author of the book "Effective Housing" and of a number of other publications.

ASSOCIATE PROFESSOR DR. MARTINA ZBAŠNIK-SENEGAČNIK

Martina Zbašnik-Senegačnik was born in Ljubljana. She graduated at the University of Ljubljana, Faculty of Architecture, Slovenia, in 1986. She received a Master Degree in 1992 and in 1996 a Ph.D. degree (Negative influences of building materials on the environment and human beings). Since 1988 she has been working at the faculty, first as a teaching assistant, in the year 2000 she became an assistant professor and in 2009 an associate professor. She teaches the subjects Ecological building principles, Technology of facade and Design studio. Her main working focus is the field of energy efficiency (passive houses, low-energy houses, energy efficient building technologies), ecological use of building materials, natural materials, sustainable architecture, contemporary materials for facades, building technologies. She was the research programme leader at Faculty of Architecture (Sustainable planning for the quality living space) in 2009-2011. She is the author of three monographs: Pasivna hiša (Passive house) and Fasadni ovoj (Facade) (co-author) (both Slovene language), Pasivna kuća (Passive house) (Croatian language) and numeral articles in scientific and professional magazines in Slovenia and abroad. She is a member of the Council for the efficient use of energy by Ministry of the environment and spatial planning, member of Fotovoltaic technology platform - working group Integration of solar power stations in the building. Her reference is also the organization and leadership of professional seminars for the architects since 2004 (the topics: energy efficiency, passive houses, building technologies). She is a founder and a leader of Passive House Consortium since 2008.

Slovakia





Slovenia





PROFESSOR ENRIQUE CORBAT DÍAZ



Spain

Architect from Barcelona School of Architecture ETSAB (UPC) since 1983 Speciality in bioclimatic architecture. Scholarship holder of Training Plan of Research Staff from Spanish Science and Education Ministry (1986-1989). Since 1989 professor in building construction department in Vallés School of Architecture ETSAV (UPC). Teaching centred in bioclimatic architecture and sustainable buildings. Investigations in Thermal Rehabilitation of Buildings. Since 1997 continuously teaches an elective course on Bioclimatic Architecture. In 1980 he won first prize in a competition for ideas for an exhibition center of alternative energy in the International Fair of Barcelona. He has designed and built several bioclimatic buildings along his career. Finalist at the FAD prizes of Architecture in 2001 by a bioclimatic natural cooled building housing located in old town district of Barcelona. Speaker at various courses and conferences in the Association of Architects, conferences always related to solar architecture issues and sustainability. Speaker at the Catalan Congress of Renewable and solar energy 1987 and Scientific meetings of the Mediterranean environment and building energy, 1990. Professor in Graduate Program Installations in buildings. Polytechnic Foundation of Catalonia. 2002-2008. Professor in sustainability, technology in architecture and integration of renewable energies UPC's masters.



PROFESSOR MANUEL MONTESDEOCA CALDERÍN

Construction Teacher, architect at the Architecture Technical School in Las Palmas of Gran Canaria University. (EA ULPGC) since 1986. Graduate Fellowship of the Investigator Personal Formation Plan of the Science and Education Ministry. (1987-1989). Associated Teacher of the Architectonic Construction Department since 1990 to 2006. Collaborator teacher in the Architectonic Construction department since 2006, teaching in Construction III subject, which is centered in the control of energy demand, energy efficiency, bioclimatic construction, sustainability and zero emission buildings. Has been researching about "Gran Canaria's Sands and their incidence in the concrete fabrication" and "Thermal and hydrothermal behaviour of north facing vertical enclosure". Participates in the development of a guide, "the Study of the building envelope with Canarian materials", in an specific agreement in collaboration with the public works and transport counsel of de Autonomous Community of the Canaries. Currently researching about the thermal envelope of buildings with high energy eficiency ubicated in sunny climates. Since 2010 member of LIP(a), Investigation Lavoratory of Architectonic Projects. The projects presented by the Architecture Technical School in Las Palmas of Gran Canaria University (ULPGC), for the International Competition ISOVER Multi-Confort House, have been developed in a workshop in which participates pupils of the Final Carree Project and the Construction III subject, 4º course. Collaborating in the mentioned workshop are the teachers of the Architectonic Construction Department (DCA), D. Manuel Montesdeoca Calderín (Workshop Coordinator), D. Manuel Martín Monroy y D. Juan Carratalá Fuetes, and of the Graphic Expression and Architectonic Proyects Department (DEGPA), D. José Antonio Sosa and D. Héctor Gacía Sánchez, members of the Investigation Lavoratory of Architectonic Proyects (LIP(a)). Posgraduate Courses: Conference on "el Código Técnico de la Edificación" (Technical Building Code). U.L.P.G.C. 2007. Since 2010, member of Laboratory of Investigation of Architectural Projects (LIP(a)).

PROFESSOR ENRIQUE ANTELO TUDELA

Born in La Coruña in 1973, he graduated from the Faculty of Architecture at the University of La Coruña where he is associate professor of the Department of Architectural Constructions. In addition to his academic activities, he is one of the founders of VIER arquitectos, an architecture and design office located in La Coruña. His work has been showed in many publications and exhibitions. He has given lectures at several forums, both in Spain and abroad and received several awards among which are the Ist Sustainable Building Award Castile and Leon 2006 and the Mediterranean Bio-architecture Award 2012.

PROFESSOR DR. OF ARCHITECTURE BENAI KHAFIZULA

Was born on October 9, 1945 in Herat, Afghanistan, in the family of employees, the family has 4 generations of architects. Currently is citizen of Ukraine. In 1969 was enrolled as the student of Kiev institute of civil engineering and graduated in 1975, receiving his Master's degree in Architecture (specialty – Architecture). 1975 - 1980 – Chief architect in Kabul construction plant (Kabul). 1980 - 1984 – post-graduate studies in Kiev institute of civil engineering. On February 21, 1984 has defended a thesis and received Degree of Doctor of Philosophy and Architecture. 1984 - 1988 – Deputy Director responsible for research work in the Central design institute. 1987 – practice in Kiev Scientific and Design institute of civil engineering (Kiev). 1990 - 1994 work on doctor dissertation by the specialty 18.00.02 "Architecture of buildings and constructions" in Kiev institute of civil engineering. On December 9, 1993 has defended a thesis and received degree of Doctor of Architecture. 1998 - 1995 work in Dnepropetrovsk institute of civil engineering in the department of architectural design. March 1995 – until now – professor, Head of department of Architectural engineering and Dean of the faculty of Architecture in Donbas National Academy of Civil Engineering and Architecture (Donetsk). In 1997 was awarded with the title of Professor. Author of methodology instructions and guidelines for the specialty «Architecture» and more than 80 articles. Member of Training council of DonNACEA, deputy Head of State examination commission on defending of thesis and masters' works. Member of the Union of Architects of Ukraine. In 2001 was awarded with the "Excellent education" mark.

Spain

Ukraine





Multi-Comfort House



BARCH. DIPL. ARCH. MSC. LUCELIA TARANTO RODRIGUES, PHD

UK

UK

Lucelia gualified as an architect in 1999 and spent the next five years working in practice on residential and commercial building projects where, among other things, she acquired experience in the use of recycled and reclaimed materials in sustainable architecture. Seeking to develop further her knowledge on sustainable issues, she completed an MSc in Renewable Energy and Architecture and explored the thermal performance of low-energy houses as part of her doctoral research. Lucelia is currently a lecturer at the department of Architecture and Built Environment where her teaching has a strong focus on environmental design and sustainable architecture. Her work has always been very cross-disciplinary, building the link between architecture, building science and renewable energy technologies. Having come from architectural practice, her research has always been very hands-on, aiming to inform the sustainable practice of architecture and enhance the quality of the built environment through research and consultancy in environmental science and design. Lucelia's areas of interest and expertise are related to sustainable architecture, the main focus being thermal performance of dwellings and its influence on energy use and human comfort. Students under her guidance have designed a number of award winning projects, including the Nottingham H.O.U.S.E (www.nottinghamhouse.co.uk) for the Solar Decathlon competition. She has also been actively involved in the development of the prestigious Creative Energy Homes project, recognised internationally as leading in the field of low-energy housing, since 2005 (www.creative-energy-homes.co.uk). Lucelia was one of the tutors supporting the winning teams of the national stage of the ISOVER student competition 2012.



BAAS (HONS) DIPL. ARCH. MSC. MPHIL (CANTAB) RIBA BENSON LAU

Benson Lau is a chartered architect (RIBA) with expertise in integrated environmental design. He engaged in practice since 1996 as an architect and environmental / lighting design consultant in collaboration with Peter Eley Architects, Zaha Hadid Architects, Ateliers Jean Nouvel, John Pawson Architects, Fin Architects, Lotus Architects, Hong Kong, Isometrix Lighting Design, Fulcrum Consulting and Price & Myers Consulting Engineers, London before joining WSP Environmental Ltd in 2001, subsequently headed up the company's Far East operation. He joined the School of the Built Environment, Nottingham University in 2005. Current academic roles include course director of the MArch in Environmental Design Course and design studio tutor for postgraduate students. He also lectured at the Martin Centre, University of Cambridge, the Department of Architecture, London Metropolitan University, School of Architecture, Design and the Built Environment, Nottingham Trent University, the Architecture and Planning Department, Tongji University in Shanghai and the Shanghai Research Institute of Building Sciences (SRIBS). Supported by RCUK Summer School Award in 2008, he successfully organized and delivered a workshop on the theme of "Architecture, Climate and Environment" in collaboration with the Architecture Department at Tsinghua University, Beijing. Current research interests primarily address the integrated environmental design approach, environmental performance prediction of building and related issues of occupant comfort and behaviour. This design approach is a key component in his practice and teaching activities in the UK and Far East and the selective use of building performance prediction tools to support and enhance architectural decision-making has been adopted in his building projects worldwide.

PROFESSOR ARCH. BRIAN FORD

Brian Ford is an architect and environmental design consultant who has over 25 years experience in architectural practice and consultancy, both as a partner and with his own practice. He has specialised in the field of environmental design. His experience in the design of naturally ventilated and passively cooled buildings in different parts of the world includes acting as consultant for the Sydney Olympic Stadium, Australia; Pittsburgh Convention Center, USA; Torrent Research Laboratories, India; the Stock Exchange, Malta, as well as theatres, offices and University buildings. In partnership with Professor Alan Short, he won awards for the design of the Queens Building for De Montfort University, Leicester, UK, and for the Simmonds Farsons Cisk Brewery Process building in Malta. Appointed Professor of Bio-climatic Architecture at the University of Nottingham in 2003, he completed a four year term as Head of the School of the Built Environment in 2008. He is currently Head of the Research Division in Architecture and Urbanism. Brian's own research experience has concentrated on natural ventilation and passive cooling (including six EC funded international collaborative research projects). He has recently completed an EC funded R&D project on Passive & Hybrid Downdraught Cooling (PHDC), which resulted in the book 'The Architecture & Engineering of Downdraught Cooling', published in June 2010. External activities include membership of Sub-Panel 16 (Architecture, Planning and the Built Environment), for the UK Research Excellence Framework 2014; Membership of the RIBA Research & Innovation Committee 2011- Membership of the UK Government Zero Carbon Task Force for Schools 2008 -2010; Membership of the Editorial Board for Architecture Research Quarterly 2004- and Board membership of the International PLEA Conference Organisation 2004.

PROFESSOR CHRISTOPHER M. PASTORE

Professor of Transdisciplinary Studies, Co-Director of the Engineering and Design Institute, Philadelphia University. Started in 1995.

Education: BA Mathematics, MS Mathematics, PhD Materials Science & Engineering. Work on several projects around the composite renewable materials, especially flax and crab shells. By modifying the chemistry using natural materials the cross-linked polymer was produced that is capable of withstanding environmental forces, but when exposed to another naturally occuring agent will begin biodegradation. Exploration of shredded paper money to see what interesting building materials can be produced. We developed a hybrid shredded money/recycled PET fiber to make a board panel as a replacement for particle board. The water resistance and density showed very favorable results, with improved screw hold strength compared to particle board. After studying the construction and corresponding thermal transfer properties of medieval cathedrals in Europe designed and built a wine storage facility in the US which is almost entirely passive (there is a back up HVAC system in case of emergency due to the value of the stored wines). Work on Co-host of the podcast entitled "EcoMan and The Skeptic" which is about green homes and buildings and as well as science news.

UK

USA





2013 edition



Invitation for Competition Submissions ISOVER Multi-Comfort House -Students Contest 2013

Vision & Reality - Glückstein Quartier

International, two-stage, open competition, 2013 edition

Content:	Develop a vision based on today's reality for Glückstein Quartier, Mannheim, Germany
Participants:	Students
Organizer:	Saint-Gobain Insulation with the participation of national Saint-Gobain ISOVER, CertainTeed and IZOCAM organizations
Official Website:	www.isover-students.com

The subject of the 2013 competition is the design of a vision for future development of some parts of the "Glückstein Quartier" in Mannheim, Germany, taken into account the existing realities.

The project will require the development of residential function based on the Saint-Gobain Multi-Comfort principle that will assure a natural extension of the existing neighborhood. In addition, the development shall improve the usage of the green area while creating a link with the existing housing stock and the new development.



Participating countries in ISOVER Multi Comfort House Students Contest - 2013 Edition

More information about the new edition of the contest as well as full task, pictures and documents, site plan can be found at www.isover-students.com







8th ISOVER MULTI-COMFORT HOUSE STUDENTS CONTEST 2012 SUSTAINABLE COMMUNITY WITHIN THE REGENERATION PROGRAM OF THE TRENT BASIN AREA







ANDREY ANDRAUYK

BELARUS Belarusian National Technical University

PRIZE Belarus National Stage 2012



more information on www.isover-students.com





	Composition S in cm
	Tin roof covering Layer roof skin (e.g. polymer bitumen roll roofing)
2,4	Under roof - rough formwork
8,0	Counter battens min. 8/8
	Layer of vapour diffusion-permeable spunbonded
1,5	OSB chipboard panel
32,0	ISOVER lightweight glass wool
	between TJI roof framing (2-layered)
1,5	OSB chipboard panel
	Water vapour barrier - Climatic membrane
	ISOVER VARIO KM Duplex
5,0	SOVER lightweight glass wool between counter battens 5/5
1,5	Plaster board - fire protection board

Ventilated outer wall with exterior facade cladding (hoard) 1:20 Composition S in cm

Plaster board -
fire protection board
Mounting lathing 3/5
ISOVER lightweight glass wool
between squared timber 5/3 Water
vapour barrier -
Climatic membrane, ISOVER VARIO
KM Duplex
ISOVER lightweight glass wool between
wooden beams
Chipboard layer
ISOVER facade insulation board
between timber construction
Water vapour permeable wind protection layer
Ventilation area
Exterior facade board or 2,4 cm wooden

weather borading

Raised floor above ground 1:20 Composition S in cm

1,5	Parquet, floating layer
0,02	Vapour barrier
3,2	ISOVER Distansol chipboard panel with distance feet
24.0	ISOVER glass wool panel 2 x 12 cm
4,0	Protective concrete
	Seperating layer
0,05	Seperating layer (water barrier)
12,0	Sub-concrete
	Seperating layer
18.0	XPS-Extruded Polystyrene foam board
	Protective concrete
	Round gravel



8th ISOVER MULTI-COMFORT HOUSE STUDENTS CONTEST 2012 SUSTAINABLE COMMUNITY WITHIN THE REGENERATION PROGRAM OF THE TRENT BASIN AREA



ILYA

LIKHOTA

VINTOR

VIKTOR BARAN

BELARUS Belarusian National Technical University

I PRIZE Belarus National Stage 2012





more information on www.isover-students.com









- 1 1,5 Paster board -fire protection board

- 2 3,0 Mounting lathing 3/5 3 8,0 ISOVER lightweight glass wool between squared timber 5/8 . Water vapour barrier -
- Climatic membrane, ISOVER VARIO KM Duplex
- 20,0 ISOVER lightweight glass wool
- 6 1,9 Chipboard layer 7 14,0 ISOVER facade insulation board
- between timber construction
- Water vapour permeable wind protection layer
- 10 0.8 Exterior facade board or 2,4cm

Composition

- 1 Extensive greening 2 0,8 Substrate mixture for extensive greening (on margin, round gravel 16/32) Filter laver
- (geotextil fibrous web, non-decaying) 4 2,5 Drainage layer (e.g. Floradrain FD 60)
- (geotextil fibrous web, non-decaying) 18,0 XPS-Extruded Polystyrene foam board
- 7 0,5 Roof confinement layer 8 0,8 Double layer roof skin
- (e.g. polymer bitumen roll roofing, glued) 9 20,0 ISOVER stone wool
- with mechanical stenght, glued Water vapour barrier - Climatic membrane
- ISOVER VARIO KM Duplex 11 4,0 Fire protection covering on load bearing construction (sloping)

Composition

- 1 1,5 Parquet, floating layer
- 0,02 Vapour barrier
- 3 3,2 ISOVER Distansol chipboard panel with
- 4 24.0 ISOVER glass wool panel 2 x 12 cm 5 4,0 Protective concrete
- Seperating layer
- 7 0,5 Seperating layer (water barrier) 8 12,0 Sub-concrete

- 9 Seperating layer 10 18.0 XPS-Extruded Polystyrene foam board 11 Protective concrete 12 Round gravel



8th ISOVER MULTI-COMFORT HOUSE STUDENTS CONTEST 2012 SUSTAINABLE COMMUNITY WITHIN THE REGENERATION PROGRAM OF THE TRENT BASIN AREA





В



OKSANA ROZANSKAYA SOFIA ARUTSUNYAN

BELARUS Belarusian National Technical University

III PRIZE Belarus National Stage 2012







ROMAN SEIDOV

more information on www.isover-students.com







8th ISOVER MULTI-COMFORT HOUSE STUDENTS CONTEST 2012 SUSTAINABLE COMMUNITY WITHIN THE REGENERATION PROGRAM OF THE TRENT BASIN AREA





KATERINA VASEVA



BULGARIA University of Architecture, Civil Engineering and Geodesy

PRIZE Bulgaria National Stage 2012

more information on www.isover-students.com



ISOVER SAINT-GOBAIN



8th ISOVER MULTI-COMFORT HOUSE STUDENTS CONTEST 2012 SUSTAINABLE COMMUNITY WITHIN THE REGENERATION PROGRAM OF THE TRENT BASIN AREA





PAVEL **TSOCHEV**



ALEXANDER TODOROV





BULGARIA University of Architecture, Civil Engineering and Geodesy

I PRIZE Bulgaria National Stage 2012

more information on www.isover-students.com







8th ISOVER MULTI-COMFORT HOUSE STUDENTS CONTEST 2012 SUSTAINABLE COMMUNITY WITHIN THE REGENERATION PROGRAM OF THE TRENT BASIN AREA



JURY SPECIAL AWARD International Stage, Bratislava 2012

ZORNICA PETROVA



IVAILO ALEXANDROV





BULGARIA High School of Civil Engineering "L. Karavelov"

III PRIZE Bulgaria National Stage 2012







GEORGI GROZDANOV

more information on www.isover-students.com












MARIN ČALUŠIĆ MARKO NIKIĆ

CROATIA University of Zagreb, Faculty of Architecture

PRIZE Croatia National Stage 2012









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KREŠIMIR ROMIĆ

MARTA **RIŽANA DRMIĆ**



CROATIA University of Zagreb, Faculty of Architecture

PRIZE Croatia National Stage 2012















IVANA PATRICIA ĐILAS IGOR ČERANIĆ



CROATIA University of Zagreb, Faculty of Architecture

III PRIZE Croatia National Stage 2012









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KATEŘINA BLAHUTOVÁ



VERONIKA Kommová



CZECH REPUBLIC Czech Technical University, Faculty of Architecture

PRIZE Czech Republic National Stage 2012



RECYCLED NEIGHBOURHOOD

The idea is based on energetical independence in the greates posible. Designed area (15 family houses) is supplied by several alternative sources of electricity and heat. Constant source of heat throughout the year are services in the surrounding area with surplus heat - supermarket, bakery and more. In this way, housing integrates into existing structure, services and housing are beneficial to each other. Heat is being recovered and transferred to a central heating plant. There is also a boiler burning wood chips. Trees in the territory - fast growing japanese poplars - have an economic function: they are gradually harvested and stored through the year and burned in a boiler to provide the desired heat in the colder months. Harvesting is done by a farm / community centre. Individual houses are equipped with sufficient roof area of the photovoltaic film, to cover its annual consumption of electricity but they also supply network of senrvices, offices and other establishment in the daylight hours. For night supply there is a water power plant with turbines located in the pillars of a bridge. A water ram is used to pump the water up with no need for electricity. Another reliable source of electricity are wind turbines on the building of power plant that use strong southwest wind from the river. There are local waste sorting units in the designated areas. Materials suitable for recycling are processed in the surrounding facilities. Compost is used in gardens and farm fertilizer is thus ensured. The farm is also engaged in breeding of small animals and processing of fruit from local fruit trees. There is also a shelter workshop, the local products are then sold in markets on the west bank of the Trent Basin.













LUCIE JAROLÍMOVÁ



ZUZANA ČABALOVÁ





CZECH REPUBLIC Czech Technical University, Faculty of Civil Engineering

PRIZE Czech Republic National Stage 2012

















JAN HORA



CZECH REPUBLIC Technical University in Liberec

III PRIZE Czech Republic National Stage 2012











IVO RIET



TRIIN LEHTMETS

ESTONIA University of Applied Sciences, Tallinn

PRIZE Estonia National Stage 2012





kärt Milsaar













ANNA TEMMO



indrek Palm

ESTONIA University of Applied Sciences, Tallinn

PRIZE Estonia National Stage 2012





SAIJA KAARINA LAURIALA

FINLAND University of Oulu

PRIZE Finland National Stage 2012

eemil Luukka SAMPO OJALA

FINLAND University of Oulu

PRIZE Finland National Stage 2012

hannu Kankaanpää

FINLAND University of Oulu

III PRIZE Finland National Stage 2012

FRANZISKA SEIFERT

MARIA CH

GERMANY University of Applied Science, Erfurt

PRIZE Germany National Stage 2012

MARIA CHRISTIANE

ANJA HESSE ELINA SCHWARZ

GERMANY University of Applied Science, Erfurt

I PRIZE Germany National Stage 2012

Window U = 0.7 W/m²K Passivehouse-windows, tipple-glazed g-value = 0.5 W/mK Ug-value = 0.6 W/mK

External wall (concrete construction) U = 0.131 W/mK facing concrete, fixed with "VHF facade anchor" by mCon, free of thermal bridges

waterproffing membrane insulation Styrodur NEO 300CS by Isover, 4x60mm, 0.033W/mK sealing membrane reiforced concrete, 240mm interior plaster, 10mm

Basement ceiling U = 0.126 W/mK honed screed with floor heating, 60 mm insulation Styrodur NEO 300CS by Isover, 60mm, 0.033W/mK waterproofing membrane reinforced concrete ceiling, 200mm, 2.10 W/mK insulation, Styrodur 5000 CS by Isover, 2x100mm, 0.035W/mK sealing membrane

subbase, 100 mm soil

facade section 1.50

Florian Kühn DANIEL YO

REGNER

GERMANY University of Applied Science, Erfurt

I PRIZE Germany National Stage 2012

ic system / sola	r collectors			
ing membrane	TOOWW			
rodur 3035 CS	λ=0,035W/	mK		
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rodur 3035 CS	λ=0,035W/i	тK		
concrete floor	200mm	covering tiling	, 	20mm
/m²K		ISOVER Sound	floor heating Absorption EP 3	50mm
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		ISOVER Kontu	r KP 1-032	λ=0,032W/mK
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		U= 0,116 W/n	n²K	
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JULIYA KONOVALOVA VIKTORIYA LAZAREVA

KAZAKHSTAN Kazakh Leading Academy of Architecture and Construction, Almaty

PRIZE Kazakhstan National Stage 2012

SVETLANA BOLSHAKOVA

The planned reconstruction should give life into the existing obsolete and abandoned buildings and serve to create a new, attractive habitat. Reconstruction project proposes asymmetrical, free-situated spatial compositions consisting of simple geometric objects. The project is economical, functional, energy-effective and rational.

(The use of receiving a "double capsule" on the south facades of buildings allows to avoid overheating of the inner area of housing accommodation, that necessary to maintain a comfortable temperature in the building).

De

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The project is a modern design house with a flat roof and a large terrace on the second floor. The internal layout of the building was performed in a functional and spacious solutions that are convenient and comfortable for accommodation. Insulation type "Styrofoam"

- Basement insulation

Maria and and a second

ISOVER OL-TOP (roof reconstruction) is applied to repair and additional warming of flat roofs (hotel, restaurant) ISOVER Sound Protect (wall) - 100 mm, is used for sound insulation of Dry Walls (Gyproc-Isover –Weber System)

wall

sealant (silicone)

reinforced screed

ISOVER OL-Top -30 (Roofing) - as the top layer of two layers of flat roof insulation (townhouse, private house, office building); ISOVER OL-P (Roofing) - as the bottom layer in a two-layer solution of a flat roof.

WeberTherm (Wall) - 100 mm (For Stucco system provides use of mineral wool-based glass fiber - "ISOVER Stucco Facade" (density 70 kg/m3 /) produced by "Saint-Gobain Construction Products Rus " + Weber Stucco mixes)

ISOVER Floating Floor (40 mm) - insulation of the floor first floor Isover Floating Floor (40 mm) - used to protect against impact noise in hotel rooms and offices + Weber Vetonit floor mixes

waterproofing layer

sound-absorbing material floor slab

R_w = 53 дБ

- 1. Металический каркас.
- ISOVER ЗвукоЗащита звукопоглощающий материал, КТ-40, Классик, KL-37
- 3. Гипсокартонный лист GYPROS
- 4. Финишная отделка (обои, краска и т.д.)

Kazak

YELENA PUZAKOVA

olga Pavlenko

KAZAKHSTAN Kazakh National Technical University, Almaty

PRIZE Kazakhstan National Stage 2012

ISOVER SAINT-GOBAIN

Kazakh Leading Academy of

XENIA RAKOVA

MAXIM MALETIN

KAZAKHSTAN Kazakh Leading Academy of Architecture and Construction, Almaty

III PRIZE Kazakhstan National Stage 2012

COMPOSITION S IN CM

1,0	LIME CEMENT RENDERING
10,0	BRICK WALL
19.0	ISOVER FACADE INSULATION BOARD (A= 0,034)
19.0	ISOVER FACADE INSULATION BOARD (Λ = 0,034)
10,8	OUTER BRICK WALL

COMPOSITION S IN CM

	ROOF COVERING
3.0	ROOF LATHING 3/5
5.0	COUNTER BATTENS MIN. 5/5 -VENTILATION AREA
-,-	LAYER OF VAPOUR DIFFUSION - PERMEABLE
	SPUNBONDEDWEB
20.0	ISOVER LIGHTWEIGHT GLASS WOOL
,-	BETWEEN BATTENS
20.0	ISOVER LIGHTWEIGHT GLASS WOOL
,-	BETWEEN BATTENS WATER VAPOUR BARRIER -
	CLIMATIC MEMBRANE
	ISOVER VARIO KM DUPLEX
24	LINDER ROOF - ROUGH FORMWORK
5.0	ISOVER LIGHTWEIGHT GLASS WOOL
0,0	BETWEEN RAFTERS
15	PLASTERBOARD -
1,0	FIRE PROTECTION BOARD
5,0 1,5	ISOVER LIGHTWEIGHT GLASS WOOL BETWEEN RAFTERS PLASTERBOARD - FIRE PROTECTION BOARD

COMPOSITION S IN CM

1,5	TILES
	TILES CEMENT
7,0	CEMENT SCREED WITH HEATING ELEMENTS
0,02	VAPOUR BARRIER
6,0	ISOVER IMPACT SOUND INSULATION BOARD 60
	SEPERATING LAYER
3,0	COMPOSITE INFILL
12,0	SUB-CONCRETE
	SEPERATING LAYER
18,0	XPS EXTRUDED POLYSTYRENE FOAM BOARD
18,0	XPS EXTRUDED POLYSTYRENE FOAM BOARD
	PROTECTIVE CONCRETE
	ROUND GRAVEL

COMPOSITION S IN CM

30,0	REINFORCED CONCRETE WALL
0,1	BITUMEN PRIMING COAT
0,5	SEPERATING LAYER (WATER BARRIER)
12,0	XPS-EXTRUDED POLYSTYRENE
	GLUED AND PLUGGED
	VENTILATION WITH DRAINAGE PIPE

MĀRTIŅŠ RUSINS

LIVA NORDMANE

LATVIA Riga Technical University

PRIZE Latvia National Stage 2012

MATISS MAILITIS

ISOVER SAINT-GOBAIN





JEVGENIJS BUŠINS



LATVIA Riga Technical University

PRIZE Latvia National Stage 2012



isOver



Build-up C in cm

3.0 Roof lathing 3/5 5.0 Counter battens 5/8 with Integra AB twin UD fixed onto rafters 8.0 ISOVER Integra AP SupraPlus

- 18,0 ISOVER Integra AP 2KF-1 032 (wood 6/18, e=70cm, 15% wp) ISOVER VARIO KM Dupter UN
- 6.0 ISOVER Integra UKF 1-032 (wood 6/6. e-50cm, 11% wp)
- 2.5 Rigips Rigidur H double layer, each layer 12.5 mm



Build-up D in cm

Floor covering

- 5.0 Screed
- Vapour retarder and separating laye 3.0 ISOVER Akustic EP 3 040
- 4.0 ISOVER Exporit EPS 100/035 as compensation for height of tube
- 0.5 Sealng against moisture 30.0 Concrete foundation slab Separating layers
- 10.0 Styrodur CS 10.0 Styrodur CS
- 10.0 Styrodur CS
- Granular s

VERTICAL CROSS-SECTION 1:10







DIDZIS JAUDZEMS



MARTA CERINA



LATVIA Riga Technical University

III PRIZE Latvia National Stage 2012





OSKARS KOTELLO











RŪTA JUREVIČIŪTĖ



EGLĖ JUREVIČIŪTĖ



LITHUANIA Vilnius Academy of Art, Kaunas Faculty

PRIZE Lithuania National Stage 2012





GABRIELĖ BALEIŠYTĖ











MASSive of PASSive

SUPPORT ADMAINT

INTERES - INTER-BOOK STRUCTURE connosition 5 m cm TIN ROOF CONDERING LAYER BOOF MONTLE PLANES BITLINES Rist POORNO of a Longin A second without a residence of the 8.8 COONTER BATTENS WAS BUT LATER OFF MARLINE INFORMER PROVIDENT UNABORORD ARE JAK 1.1 OOK CHIF BRAND PARK HE & ROUTE LICETMERSHY CLASS INCOME. REPARTNER TO ADDRESS FRAMEWOOD - LANSAGE 3.3 DOIL CHIP BURDEL FRAME WATER WATCH ENABLY - COMMITS sectored, report under an lower of A & HERVER LICEPTWEIRCHT ELIEN WORK. IN THEIRS CONWINE BATTENE LIE 2.0 PLACEN HIMSE - FOR PROTECTION

EFTERIOR WALL IN CONTINCT WITH MR

WOLKER - LASP CAUPT MAKE DOMESTIC MAKE COMPRESENTION: 5 44 CM. 127545 TRAX COMMON ALL OF LODGE DETTY MEANING ALC DONE ALL AN INC. A VEW MEREN 14-2504 Init it they were an and the

NAME AND A

CONCEPTION AND FOR ADDRESS ADDRESS. DIMPORTUNITE IN S AN ADM CA TRACK TAILS CERENT TO CONDUCT ACCESS OF THE OWN DOES, STRENGT ALL DOWN OFFICT DOUBLE PROVE A TOPIC STAAL INC LANSE **LO COMPOSITE NOL** 12.0 SH - CONCRETE INTERACTION LANCE. 14.5 MAL OCTALISMS AND INTRACED DISAS 0440 A.P. OFF DETRICTION WILLIAMS IN COMMUNIC









MĖTA ŠALŪGAITĖ



AUŠRA LEKAUSKAITĖ



LITHUANIA Vilnius Academy of Art, Kaunas Faculty

I PRIZE Lithuania National Stage 2012













EDITA BRUŽIKAITĖ

KĘSTUTIS KAIRYS





LITHUANIA Vilnius Academy of Art, Kaunas Faculty

III PRIZE Lithuania National Stage 2012





MINDAUGAS BUČAS



EXISTING WAREHOUSE BUILDING



FABRICATED FACADE AND ROOF PANELS



INNER YARD IS FORMED TO GAIN

NATURAL LIGHT



PRE-FABRICATED MODULES ARE PLACED IN EACH APPARTMENT













THE SITE IS LOCATED IN THE TRENT BASIN, NOTTINGHAM, UK, ALONGSIDE THE RIVER TRENT. IT IS MARKED BY BRITISH WATERWAYS WAREHOUSES AND THE BASIN. SEVERAL OTHER INDUSTRIAL BUILDINGS FORM THE BASICS OF AN UNUSUALLY DIFFERENT RESIDENTIAL AND WORKING ENVIRONMENT.

A PROPOSAL FOCUSES ON THE PRESERVATION OF EXISTING WAREHOUSE BUILDINGS IN THE SITE AREA. REUSING THEM TO ACCOMONDATION AND INTEGRATING COMMUNITY FUNCTIONS.

EXISTING WAREHOUSES ARE ADOPTED TO NEW FUNCTIONS. EXISTING WAREHOUSES ARE ADOPTED TO NEW FUNCTIONS. BUILDINGNGIQ BECOMES A HOTE. WITH ATTRACTIVE RESTAURANT NEAR THE RIVER. BUILDING IBECOMES A MARKET ON THE GROUND FLOOR AND OFFICES ON THE UPPER FLOORS. MARKET SQUARE GOES ALONG THE OLD TRAIN LINE. DURING WEEKLY MARKET TRAIN LINE IS FILLED WITH OPEN MERCHANT TRAILERS. MARKET IS TO BE SEEN AS A CATALYST FOR NEW ACTIVITIES AS WELL AS FUNCTIONS OF RECREATIONAL PORT, SPA AND RETAIL

HOUSING ALLOTMENT GARDEN SECOND PHASE HOTEL MARKET SQUARE BISTRO MARKET HALL/OFFICES COMMUNITY CENTRE BOATHOUSE/PARKING 8 SPA 9 KINDERGARDEN

- 10 GREENHOUSE
- 11 WORKSHOP 12 BIKE RENTAL



















JURY SPECIAL AWARD International Stage, Bratislava 2012



AGNIESZKA WIECZOREK T

PIOTR JUZWA





POLAND Silesian University of Technology

PRIZE Poland National Stage 2012













KAROLINA SEWERA



POLAND Silesian University of Technology

I PRIZE Poland National Stage 2012











ZUZANNA GORA



ALICJA HACZYNSKA



POLAND Wrocław University of Technology

III PRIZE Poland National Stage 2012











BIANCA DOBRU



GEORGE CARAPANU





ROMANIA Gheorghe Asachi Technical University of Iasi

PRIZE Romania National Stage 2012





SEBASTIAN LUPU









LARISA GHEORGHIU

ANDREI NEDELCU





ROMANIA Gheorghe Asachi Technical University of Iasi

I PRIZE Romania National Stage 2012





SERGIU POPA









RAZVAN-MARIAN AMBARUS



ANCA-MARIA DRAGAN





ROMANIA Ion Mincu University of Architecture and Urban Planning of Bucharest

III PRIZE Romania National Stage 2012







ANCA-MARIA JIANU











ARTEM AKIMOV



ALEXANDER **IVANOV**



RUSSIA Moscow State Construction University

PRIZE Russia National Stage 2012





NURSULTAN YERGALIYEV











IVAN ANISIMOV



KSENIA VORONOVA



RUSSIA Moscow State Construction University

PRIZE Russia National Stage 2012

















EKATERINA MAYOROVA



ELENA YAROSLAVTSEVA





RUSSIA Tomsk State University of Architecture and Building

III PRIZE Russia National Stage 2012







TATIANA VYAZOVA











JOVANA STOJKOVIĆ SANJA LAZIN



SERBIA University of Belgrade

PRIZE Serbia National Stage 2012





MILICA MITROVIĆ







extensive growing media green roof substrate root permeable filter layer drainage and capilarity layer protection and storage layer drainage, aeration, water storage waterproofing membrane ISOVER Rollisol insulation reinforced concrete slab plaster triple glazed windows ISOVER lightweight facade Insulation FDPL reinforced concrctc beam plaster parquet

cement screed 5.7cm ISOVER flammex vapor barrier 0.2cm ISOVER RD Acoustic Floor slab impact sound Insulation reinforced concrctc slab ISOVER Rollisol insulation waterproofing membrane ccmcnt screed gravel

5cm 1cm 40cm 20cm 2cm 1cm 20cm 30cm 10cm 2cm 2.2cm 5.7cm 26cm 1cm 5cm

10cm

ISOVER flammex vapor barrier ISOVER RD Acoustic Floor slab impact sound insulation 5cm 20cm 26cm reinforced concrete slab ISOVER Rollisol insulation waterproofing membrane



DEDUCT









TAMARA KULJANIN NEMANJA KOCIĆ



SERBIA University of Belgrade

PRIZE Serbia National Stage 2012



INDUSTRIAL PLATFORM FOR HOUSING

The main idea for the project was to incorporate industry and housing. Revitalization of existing buildings leeds to complete changing of industrial spirit of that area. We decided to keep the industry, and to make it usable as platform for housing.

Industry represents platform for future housing in area. It is made of shipping containers which can be used in different ways providing better quality of life and active ground floor. Housing is now lifted to the upper floor, with more privacy but still with some traditional elements of british house frontyard and backyard.



it is divided into 3 parts: center zone is fixed space and the rest of the house is changeable and can be modified depending on the family needs.





sun energy energy produced by solar collectors is used for hot water, heating and transformed to electricity for small devices.



ventilation /

constant circulation of fresh air, in living spaces, and exhaust air, in bathroom and kitchen, provides optimal comfort and temperature for living.







lazar Belić



DANILO BERONJA



SERBIA University of Belgrade

III PRIZE Serbia National Stage 2012





ALEKSANDAR RISTIĆ











ONDREJ KÖVÉR



SLOVAKIA Slovak University of Technology, Faculty of Architecture

PRIZE Slovakia National Stage 2012





TRENT BASIN MASTER PLAN



Windmill

Sunroom system






JAROSLAV LECKÝ



PETRONELA Pagačová



SLOVAKIA Slovak University of Technology, Faculty of Architecture

I PRIZE Slovakia National Stage 2012









ISOVER SAINT-GOBAIN







ERIKA HRIVÍKOVÁ

SLOVAKIA Slovak University of Technology, Faculty of Architecture

III PRIZE Slovakia National Stage 2012













RENATA SMRKOLJ



KARIN VESELIČ

SLOVENIA University of Ljubljana, Faculty of Architecture, Ljubljana

II PRIZE Slovenia National Stage 2012















DORIS GOLOB ROBERT

KARDINAR



SLOVENIA University of Ljubljana, Faculty of Architecture, Ljubljana

II PRIZE Slovenia National Stage 2012













JELENA MARKULIN



NIKOLA MITIĆ



SLOVENIA University of Ljubljana, Faculty of Architecture, Ljubljana

II PRIZE Slovenia National Stage 2012

















ADRIÁN GONZÁLEZ **DEL CAMPO**



ANTONIO **GIRÁLDEZ LÓPEZ**

SPAIN Universidade da Coruña, Coruña

PRIZE Spain National Stage 2012













SPAIN Universidad de Las Palmas de Gran Canaria, Las Palmas de Gran Canaria



MARIA TERESA RENGIFO GÓMEZ



AINHOA SOLA OLASAGASTE



I PRIZE Spain National Stage 2012







GABRIELA CARLA VARGAS ALFARO









YAARI VITTI



SPAIN Universidad Politécnica de Cataluña, Barcelona

III PRIZE Spain National Stage 2012



isover







ERHAN SEVINÇ



CAVIDAN BAYRAKTAR



TURKEY Istanbul Technical University, Istanbul

PRIZE Turkey National Stage 2012





ECE ILGIN AVCI











Volkan Dalagan



TURKEY Istanbul Technical University, Istanbul

PRIZE Turkey National Stage 2012



ZOCAM





IZOCAM



AYCA YAZICI



FERHAT BULDUK



TURKEY Istanbul Technical University, Yildiz Technical University, Istanbul

III PRIZE Turkey National Stage 2012





ZOCAM









KATERYNA KRYVENKO





UKRAINE

Donbas National Academy of Civil Engineering and Architecture, Makeyevka

PRIZE Ukraine National Stage 2012



- O Plant substration for intensive greening (on margin, round gravel 16/32) Filter layer (geotextil fibrous web, non-decaying)





Donbas National Academy of Civil Engineering and Architecture, Makeyevka



ANASTASIIA MIRONOVA





UKRAINE

PRIZE Ukraine National Stage 2012









ISOVER SAINT-GOBAIN



MAX ISCHENKO ARTEM GUSEV



UKRAINE Poltava National Technical University, Poltava

III PRIZE Ukraine National Stage 2012





DMYTRO KOZYRENKO

MOVER State Country Name 2015





KOZYRENKO DMYTRO, ISCHENKO MAX, GUSEV ARTEM







DANIEL **SHANAHAN**



EMMETT MCNAMARA



UNITED KINGDOM University of Edinburgh, Edinburgh

PRIZE United Kingdom National Stage 2012







Trent Quay is a low-tech, eco-minimalist approach to mixed use, urban living. It avoids bolt-on weatherdependent eco-bling, relying on renewable energy sources, passivhaus/multi-comfort design principles and Brettstapel construction methods. A holistic approach to site planning, employing urban farming, creates a rich tapestry of journey paths ensuring endless opportunities for social interaction. Our distinct interpretation of mixed-use development utilises small scale manufacturing to create jobs, energy and a strong community identity, thus ensuring Trent Quay's social sustainability. The riverside bar and eatery attracts outside investment and passing trade for Trent Quay's retail and markets, creating a buoyant and lively village atmosphere, in a postindustrial urban setting. Public access to the Trent Basin is maintained through a community owned fi sh-farm, providing a complimentary food source for the community, avoiding the temptation to force a Mediterranean-style marina aesthetic on Nottingham's temperate climate.

Energy is derived from bio-mass; using the brewery's spent grain as a primary fuel source. Hydro-turbines, currently being introduced to Trent River by Nottingham Council, provide electricity for family dwellings ensuring low-cost living for a new, green generation.













5. Windows and punctures to accommodate light and journey paths. The new retail units at Trent Quay.







ISOVER SAINT-GOBAIN



THOMAS BENNETT

DENNY CHAN

UNITED KINGDOM University of Nottingham, Nottingham

II PRIZE United Kingdom National Stage 2012





MASTER PLAN & SITE STRATEGY





North Elevation Scale 1:200

isOver









3rd Floor (2)

This project envisions a phased regeneration of Trent Basin - a derelict post-industrial site next to the River Trent in Nottingham. The proposal is a mixed-use live/work scheme combining family

We proposed to convert the existing warehouses into usable workshop and gallery spaces. This

We propose a 'green corridor', which connects the site to the transport routes to the North, provid-

01 Green Corridor 02 Green Park 03 Trent Lane Basin 04 Waterside Living Units 05 Ferry Route & Boat Access new tram station up-river. 06 Garden Terrace 07 Long Park 08 Existing Warehouse

Opens the site, reconnecting to the city, Line of trees helps to shelter car parking area. New mooring to revitalise the water activities. Series of units adjacent to the basin. Proposed Ferry Route which will connect to High density housing development with elevated gardens and community facilities. Strip of parkland provides buffer to road. Adaptive re-use of warehouse building for arts uses. 09 Flexible Seating

3rd Floor (1)

TFA = 16.5

3rd Floor (2)

TFA = 29.4

2. Landing (4 m2)

I. Storage (3 m²)

2. Landing (2.65 m²)

3. South bedroom (11 m²)

1. North bedroom (10.1 m²)

3. South bedroom (12 m²) 4. En-suite (3.3 m²)

Movable furniture along the existing tram line allows public to customise the public space.

ENVIRONMENTAL **STRATEGIES**

Daylight Performance Prediction

Plans Showing Predicted

Average Daylight Factor (%)

Thermal Zoning Strategies

Room

anding

Garage /storage

Table to show requirements for different zones (CIBSE)

1.4

1.6

1.1

11 1

Clothing temperature

1

1

n/a

22-23 1.1

Activity

level /met

1 21-23 1.1 0.65 24-25

1.8 0.75 19-24 1.8 0.65 21-25

1.2 0.25 20-22 1.2 0.25 23-25

0.9 2.5 17-19 0.9 1.2 23-25

19-21 1.4 0.65 21-23

17-19 1.6 0.65 21-23

22-23 1.1 0.65 23-25

Clothing temperature

0.65 23-25

range

n/a

The analysis software 'Radiance' and 'Ecotect was used in order to assess the illuminance levels and dalight factors in some key spaces within the house. These studies were conducted under over-cast sky conditions for winter solstice in order to assess the 'worst case scenario'. The results suggest that the spaces which were tested meet or exceed the minimum recommendations given by UK Chartered Institution of Building Services Engineers (CIBSE). The isolux contour images on this page are all based on a scale of 0-500 lux.

Balconies supported on external steel structure. thermally de-coupled from building fabric. Ensures balconies do not create thermal bridging

Pavement light, structural alazing system with aerogelfilled secondary-glazing.

OUT

INSIDE

DPM

North Facing Bedroom Desktop illuminance = 130-170 lux, 100-400 lux on walls

South Facing Bedroom Desktop illuminance = approx, 120 lux, 150 - 200 lux on walls



insulation

OUTSIDE

INSIDE

1st Floor 1.W.C.(2.2 m²) 2. Ground floor stair landing (1.1 m²) 3. Kitchen (11.6 m²) 4. Dining area (10.1 m² 5. Living area (13.6 m²) 6. Stairs (4.1 m²) TFA = 42.8

About the Project

Creating a 'Destination'

Reconnecting the Site

ing a 'long vista' for passers-by.

housing with office space and community facilities.

will act as a catalyst for more comprehensive regeneration of the site.

Site Section AA' Scale

1. Integral garage and storage (22.3 m²)

2. 'Multifunctional family room'(16.2 m²)

Ground Floor

3. Stairs (3.4 m²)

Treated floor area

 $TFA^* = 41.9 \text{ m}^2$







1. North bedroom (10.1 m²) 2. Landing (4 m²) 3. Bathroom (4.5 m²) 4. South bedroom (13.5 m²) 5. Stairs (3.9 m2)* * 4 storey house type only TFA = 36.0

CONSTRUCTION DETAILING

Floor Detail FLOOR TO GROUND U-Value = 0.15 W/m².K

20mm floor finish 65mm screed Vapour retarder and separating laver ISOVER Akustic EP 3 040 150mm ISOVER Exporit EPS floor insulation

Sealing against moisture 100mm concrete floor

300mm blinded hardcore GROUND

EXTERNAL WALL U-Value = 0.1 W/m²K 250mm aerated concrete block ISOVER VARIO KM Duplex UV climatic membrane 240mm ISOVER Integra UKF

15mm OSB board 3mm plaster skim finish



Lintel Detail



Eaves Detail

HEMPCRETE WALL U-Value =0.14 W/m².K OUTSIDE Rendered mesh 100mm timber frame structure encased in hempcrete Horizontal timber batons 38x19mm 500mm hempcrete (spraved or tamped) 15mm vapour-permeable carrier board 3mm lime plaster skim finish INSIDE

ROOF U-Value = 0.1 W/m².K OUTSIDE Zinc roof cladding 28mm carrier plyboard 40mm breather gap with counter-lathing ISOVER Integra ZUB underlay sheeting 20mm plyboard 200mm ISOVER wool infill insulation between I-Beam rafters ISOVER VARIO KM Duplex UV climatic membrane 100mm ISOVER Integra UKF insulation 15mm gypsum plasterboard 3mm lime plaster skim finish INSIDE

WINDOWS U-Value = 0.65 W/m².k Triple glazing, argonfilled with LowE coating. Insulated frames







SIÂN LOUISE HODGSON

FUNSHO PARROTT

UNITED KINGDOM University of Nottingham, Nottingham

III PRIZE United Kingdom National Stage 2012





HOLDSTIC CONCEPT: A CONTEMPORARY VILLAGE IN THE CITY

DESIGN/MOCIDEQARD













ASTERPLANDEVELOPMENT

Peter Secont Musican, 1967



Planning Rationale In our approach to defining the site we wanted a method of planning which mimored the dividio and unique distribution of forms and spaces within villages, so we used paint explorations as a starting point and added rational elements later.

Twartitiotum the clock back to when people lived in small villages and took one of each other"

THE YELLO

ADCHETYPE.

ETRONICCOMMUNITEE =

-CREDN '

APACIDIS 1

UNICEL:

HOMAKING

DOMAGAINE













NT Sustainable Masterplan

-SUDS design utiliting Bio swales and -Communal public spaces and park breb . Federation First alle design.

-Provision of a communation dub.

-Elicycle larges Rainveter Harvesting -Integrated Electivenally

-South orientated divellings



CULTURALI FOREHOL UNITE INC.





Provide the transmission of the second second

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17.1 E-march/signa tonal

Concepted Statistics (sever web show) Christman Spinson destination of \$1, which it is indicated.

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DONE'S CARD-ON DURAN LOT.

197 (2014) (accord) 1989 (2016) (2014) (accord) (2014) 1999 (2016) (2014) (2014) (2014) 1999 (2014) (2014) (2014) (2014) (2014)

14 - Old black

- Thus your







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120

2 HOUSING TYPOLOGES. THE WATERSIDE ROW HOUSE & INVERTED TERRACE FAMILY HOUSE.

the second s

ALC: NOT T

DOCT ADDRESS

Page and the second sec

Station of the local division of the local d

LOW PERSON

Fairshy Houses

-



sting (Day Light Factor) & Sector

Throughout the design process of the units extensive testing and analysis wall. undergone using a contribution Ecolect (Environmental Design Schware) and Radiance' Dayloft Analysis Schwami Our goals was to ensure that both units conformed to the comfattlevels cullined by the UK Ovariend Institute of Building Service Ergneen/CESE)









RICHARD PENA



MICHAEL HEDRICK

USA Philadelphia University, Pennsylvania

PRIZE USA National Stage 2012







EDWIN HAUN



CertainTeed


Dimensions of

Thermal comfort

Acoustic comfort

Improved working

(humidity and fire

renewable energy

Higher and stable

value of the real

comfort:

quality

and living

conditions

protection)

Lower energy

consumption Use of local and

Independence

from external energy suppliers

sources

Active environmental protection

estate

Safety

The multiple dimensions of comfort

THE CONCEPT

COMFORT COMES FIRST!

Although the ISOVER Multi-Comfort House concept stands for energy savings and environmental protection, we have not forgotten the most important issue: the well-being of the inhabitants!

NEITHER COLD FEET NOR SWEATY HANDS - THERMAL COMFORT

In the ISOVER Multi-Comfort House.

Invigorating coolness in summer and comfortable warmth in winter. No problem for an ISOVER Multi-Comfort House. You will enjoy agreeable room temperatures between 20 and 23 °C - all year round.

Cooling in summer. Jointless insulation without thermal bridges, airtight constructions and windows with outside shading are indispensable to keep the summer heat outside. Cooling can be achieved by consciously using natural ventilation during night. A small adjustable cooling device ensures optimum temperatures.

Heating in winter. On cold days, the built-in ventilation system ensures that the used outgoing air warms up the fresh incoming air. Jointless insulation without thermal bridges and excellent windows with insulated frames help keep the warmth inside. Even a small candle or an inhabitant can be an efficient heat source then.

A FIRE-SAFE HOME.

Always on the safe side: preventive fire protection with non-combustible mineral wool insulation made by ISO-VER. Optimum protection of roof, walls and floors.

Enjoy the peace and quiet of your home - with acoustic comfort by ISOVER.

Noise from the outside and noise from the inside. Every sound can be annoying if you're not in the right mood or need to sleep. For this reason, the ISOVER Multi-Comfort House concept offers acoustic insulation that allows house owners and tenants to enjoy the peace and quiet of their homes. Whether you want to rest or do concentrated work - your noisy neighbour will not disturb you. This works, of course, both ways.



BUILD WITH ALL COMFORT. AND GAIN ENERGY AT THE SAME TIME.

The most inexpensive energy is the one that is not consumed in the first place. It does not need to be generated, imported or paid for. Naturally, this also doesn't have any harmful effects, neither on human beings nor the environment. This is the basic concept of the passive house. Since a sufficient amount of warmth remains in the house, any active heat supplied by traditional space heating is usually superfluous. This saves energy and costs. The more so in view of further increasing world market prices for limited resources such as oil and gas. Thanks to its uncomplicated technical equipment, the ISOVER Multi-Comfort House requires very little maintenance.

THE PASSIVE HOUSE STANDARD GIVES YOU ALL THE FREEDOM YOU WANT.

A passive house does not define itself by outer appearance but by its inner values. Therefore any type and size of building can be realized. Every year, a growing number of examples testify to that. Whether one-family house or industrial estate. Whether school or church or mountain shelter. And it is no longer only the new buildings which comply with this future-oriented building standard. There is an increasing number of existing, old and even historical buildings where the refurbishment is based on passive house principles. By using well-selected passive house components it is possible to achieve ecologically and economically sensible results.





Multi-Comfort House

Snugly warm with 10 tea lights

THE CONCEPT

COUNT ON ENERGY SAVINGS OF UP TO 75 %.

Compared to conventionally built new houses, the space heating requirement of a passive house is lower by about 75 %. And in contrast to old buildings, savings amount to as much as 90 %. In cold winters, a room of 20 m² can be heated with just 10 tea lights or two bulbs of 100 watts each to keep it snugly warm. In terms of fuel consumption, a passive house needs less than 1.5 l heating oil or 1.5 m³ natural gas per square meter and year.



1. College of Physical Education Albstadt, Architect Prof. Schempp, Teubingen, Germany; 2. Office and residential building in Mosnang. Insulated with Flora natural hemp by ISOVER. Architect: Monika Mutti-Schaltegger; 3. WeberHaus, Reinau-Linx

THE MOTTO FOR ALL ROOMS: KEEP THE WARMTH INSIDE!

The thermal requirements for the ISOVER Multi-Comfort House are based on the passive house design principles. These include excellent thermal insulation of the building envelope including windows and doors, airtight constructions, ventilation system with heat recovery for permanent supply of fresh air and if needed small additional heating or cooling system – depending on the climate zone.



EVERY OCCUPANT IS A HEAT SOURCE.

Unlike conventional buildings that suffer high losses of heat to the outside, the thermal discharge of humans, animals and household appliances is quite important for covering the required amount of heating energy. Every person contributes by a calorific value of approx. 80 watts to heating up the interior. Considerable heat gains are realized through the windows which in winter allow higher amounts of sun energy to enter the house than those lost to the outside. Add to this the heating energy recovered from the exit air and you can normally save yourself the expense incurred by a conventional heating system.



Modern comfort: keeping warm without consuming energy.

EVERYTHING WELL-INSULATED AND AIRTIGHT.

From the roof down to the foundation slab: a jointlessly sealed and airtight building envelope ensures thermal and acoustic insulation. And the ventilation system - complete with heat recovery - takes care of fresh air supply and heat distribution.



 Multi-family house after energetic refurbishment
Thermographic pictures:
before refurbishment:
The entire house is a thermal bridge.
2.2

2.2 after refurbishment: The external wall is thermally insulated, but heat still leaks through windows and doors.

THE CONCEPT

Multi-Comfort

POINT BY POINT A PROFITABLE SYSTEM.

Thermally insulated roof constructions

Thermally insulated wall constructions

Thermally insulated floor constructions

Airtight building envelope

Triple-glazed windows (for cold and moderate climate)

Double-glazed windows (for warm climate)

Insulated window frames

Comfort ventilation System with heat recovery

Optimum installation

AIR TEMPERATURE 20-23°C, RELATIVE AIR HUMIDITY 30-50 %.

In order to enjoy such agreeable living conditions, you have to dig deep into your pockets with conventionally built houses. Not with the ISOVER Multi-Comfort House where highest living comfort in all rooms helps you save a lot of cash. Even if the construction of such a house may incur extra cost, the total financial burden will be significantly lower compared to a conventionally built new house - thanks to extremely low energy costs over its useful life.



COSTS OF ENERGY CONSUMPTION



IMPROVEMENT BY 8:1 COMPARED TO BUILDING REGULATIONS. THAT'S LIFE IN AN ISOVER MULTI-COMFORT HOUSE.

Compared to the passive house standard, not only conventionally built new houses but even more progressive types such as the low-energy house are comparatively expensive. Whenever possible, choose the passive house standard right from the start. After all, how often do you build a house? Just once in a lifetime.



PLANNING AND INSTALLATION WITH MAXIMUM PRECISION AND RESPONSIBILITY.

Optimum house location, correct positioning of windows and doors, proper dimensioning of the ventilation system, very high insulation standard, tight building envelope - all these factors are considered before building an ISOVER Multi-Comfort House. Special attention must be paid to avoiding thermal bridges. Thermal bridges and leaks have serious consequences for every type of building. Technically as well as energetically.



COSINESS.

When living in a passive house, the enclosing areas such as walls, floors and windows have very pleasant inner surface temperatures, even at very low outdoor temperatures. External walls as well as floors above the cellar are only by 0.5 to 1 degree cooler than the room air temperature. Passive house windows are by 2 to 3 degrees cooler than the room air temperature. In houses that do not comply with the energy standard of a passive house, such a high degree of cosiness can only be reached with considerably higher heating costs.



Multi-Comfort House

Designing sustainable buildings

THE SUSTAINABILITY

BUILDINGS: TACKLING THE CHALLENGES OF THE 21ST CENTURY

The world is changing at a faster rate than ever before. Whilst advances in science and technology have improved our quality of life, they have also highlighted how balanced is our environment. Global warming is no longer a remote concept, but a real threat to the future of mankind.

The building sector must recognise its impacts on global warming and preservation of our valuable and finite energy resources.

To address these issues we must change the way we design new buildings and renovate existing buildings so that we reduce their negative impacts on the environment. Through its support to sustainable construction, ISOVER wants to take up the challenge.

The construction process must preserve unique ecosystems, biodiversity and local landscapes, whilst ensuring a better quality of life and guaranteeing the health and safety of building occupants and users. Sustainable construction provides solutions that balance these sometimes contradictory issues and objectives. Working together with all of the partners in the building chain, ISOVER intends to be at the very front of this challenging new venture.

> Benoit Carpentier CEO Saint-Gobain Insulation



The building sector potential

THE BUILDING SECTOR HAS A ROLE TO PLAY



Heating and air conditioning are the major causes of greenhouse gas emissions from buildings. In Europe, buildings alone are responsible for 30% of all emissions, equating to some 842 million tonnes of CO_2 each year – almost twice the Kyoto target.

But the building sector has a substantial potential. According to EURIMA (European Mineral Wool Manufacturers Association), by using advanced techniques and insulation systems to renovate or build better buildings, Europe could decrease its greenhouse gas emissions by 460 million tonnes – more than the total decrease commitment agreed in Kyoto!

To achieve this same level of saving by other means we would have to, for instance:

- Stop the 6 million cars currently running in London for 15 years, or
- Plant forests on a territory three times as large as France.



Climate with ISOVER glass wool

THE SUSTAINABILITY

Multi-Comfort



Thermal comfort: enhancing the performance of our insulation solutions

Thermal comfortis mainly associated with the maintenance and even distribution of interior room temperature and air quality.

It can be achieved by applying very high resistance thermal insulation to all room surfaces (including windows), combined with ventilation adapted to the season, doors and shutters, perfect air tightness to avoid unwanted air input and the building's good thermal inertia.

ISOVER's range of high performance insulation solutions is constantly being developed with new and innovative products and systems which take the science of insulation to a new level.

ISOVER's glass wool is the most efficient on the market with lambda 30 performance, and our global range of products includes lambda 32 products for glass wool and lambda 30 for polystyrene.





Acoustic comfort: enjoy the "comfort" class

Based on extensive studies of the very diverse types of noise, ISOVER has set a new insulation benchmark.

The new "ISOVER Acoustic Comfort Classes" define reliable acoustic comfort, going beyond the requirements set by the current European standards.

ISOVER Acoustic Comfort Classes help in selecting the most appropriate airborne and impact sound insulation, which is becoming increasingly important, especially in multi-occupancy buildings. ISOVER also offers various solutions for achieving these classes.



TECHNOSTAR is a complete commercial partition wall system for extended height applications requiring high levels of sound insulation performance as well as fire, thermal and structural performance. It is commonly used in cinemas to provide sound insulation between adjacent auditoria.





Exceptional energy savings

the ISOVER range of products and systems allows very high levels of energy efficiency

to be achieved in buildings. Energy savings of up to 90% can be achieved over an equivalent uninsulated house.



In 2006, the renovation of this german building improved the thermal comfort for all residents of the building and enabled a 90% drop in the consumption of primary energy. The building's thermal envelope was significantly upgraded and the new total energy consumption of the building is now 14 kWh/m²/year.

ISOVER, a fire security specialist

Insulation plays a dual role in terms of fire protection through:

- its own inherentfire safety properties,
- its effecton the fire performance and stability of the structure in the case of fire.

Mineral wool insulation will not support combustion and has the highest possible Euro class A classification (A1 & A2 s1d0); neither will it produce toxic fumes in a fire situation.

The exceptional insulating properties of mineral wool means that it contributes to the fire resistance of walls and thus the overall stability of buildings, helping to provide valuable extra time for evacuation.

EPS also meets fire safety requirements. In almost all building applications, however, EPS is used in combination with another material, such as plasterboard or concrete, which provides additional protection. In specific applications where the EPS is exposed, fireproofed EPS is often recommended.

ULTIMATE has been specifically designed for improved safety. It is resistant to high temperatures (up to 650°C) and can serve as a fireproof barrier. It can also be used to make ducts airtight and watertight in airconditioning systems and industrial or domestic hot water piping systems.





Multi-Comfort House

Climate With ISOVER Glass Wool

THE SUSTAINABILITY



Insulation solutions for an improved indoor environment

We want to help reduce the sources of pollution by selling solutions that comply with allexisting requirements for indoor air quality. Our insulation solutions do not contribute to indoor air pollution, and are safe to handle and install in the home or office.

Mineral wool is generally installed in such away that no release of dust and fibres occurs after application, and tests to determine possible exposure of building occupants have shown no significant generation of airborne mineral wool fibres.

ISOVER mineral wool and polystyrene products do not provide a medium for the growth of micro organisms.

They do not rot, decay or sustain mould. ISOVER hemp wool products are treated with biocides and fungicides to prevent development of micro organisms.

Since moisture promotes mould growth, controlling the level of moisture is one of the best and easiest ways to improve indoor air and protect your health: that is why we have developed the ISOVER VARIO membrane.

Indoor air quality is closely related to ventilation. Fresh outdoor air replaces indoor air through ventilation, thus removing and diluting contaminants generated indoors. ISOVER encourages the development of high performance controlled ventilation to maintain adequate air quality while reducing energy consumption.



The VARIO system allows timber roof and wall structures to breathe and dry naturally.

In winter, when the inside air is warmer than the outside, water vapour is pushed into the structure where it remains with potentially long term damaging affects on timber.

The VARIO system impedes the ingress of this water vapour by automatically reacting to the climatic conditions and closing its pores.

In summer however, when the ambient temperature is increa-sed, the VARIO system has the reverse effect by opening its pores to allow trapped water vapour to escape inwards, thus ensuring that the structure can dry naturally.





www.isover-students.com

All the relevant information since 2005: all participants and their projects, video recordings of the presentations and contest tasks, documentation, literature, photo gallery