



the
project
that
changes
us



The Contest

In the summer of 2010, the Romania Green Building Council and Biblionet co-organized a contest that proposed improving access to information technology and providing a sustainable renovation of an existing library; typical for a small Romanian community.

In addition to helping a small community create a state of the art library, the contest results would showcase an exemplary sustainable building; environmentally responsible in its design, renovation and operation, and transfer best building practices to the local communities and other libraries around Romania.

The project was named EcoBiblioteca.

Through Biblionet's network, qualified libraries were invited to participate in the contest. After receiving multiple comprehensive submissions and performing site visits of the shortlisted locations, the project team made its selection.

The public library of Cacica, Suceava county, won the contest for the "green" intervention.



Cacica village

The village Cacica, first mentioned in the 15th century, got its name from the Polish word "kacyka", meaning "duck", due to their large presence in the nearby swamps. Positioned in the North East of the country, it has a particularly beautiful landscape of pastures and hay fields, gradual hills and coniferous forests.

In the 18th century, salt deposits were discovered in the area and the village and its neighbourhoods developed a more dynamic economic and demographic life. Over twenty Polish families arrived to work in the salt mine, for whom a special Catholic chapel was constructed.



Location

Cacica is located in Suceava county, in the sub Carpathian hills, in the old historic region Bucovina, at the crossroad of two important regional roads (DN2E - Paltinoasa-Solca- and DJ178A- Cacica- Suceava). It is 40 km away from Suceava and 17 km from Gura Humorului.

It is a medium sized village, with a surface of only 68 km², and a housing density of 63 inhabitants/km².

Geographical coordinates: latitude= 47°37'N; longitude= 25°53'E.

Climate zone: temperate continental climate.

Tourist attractions

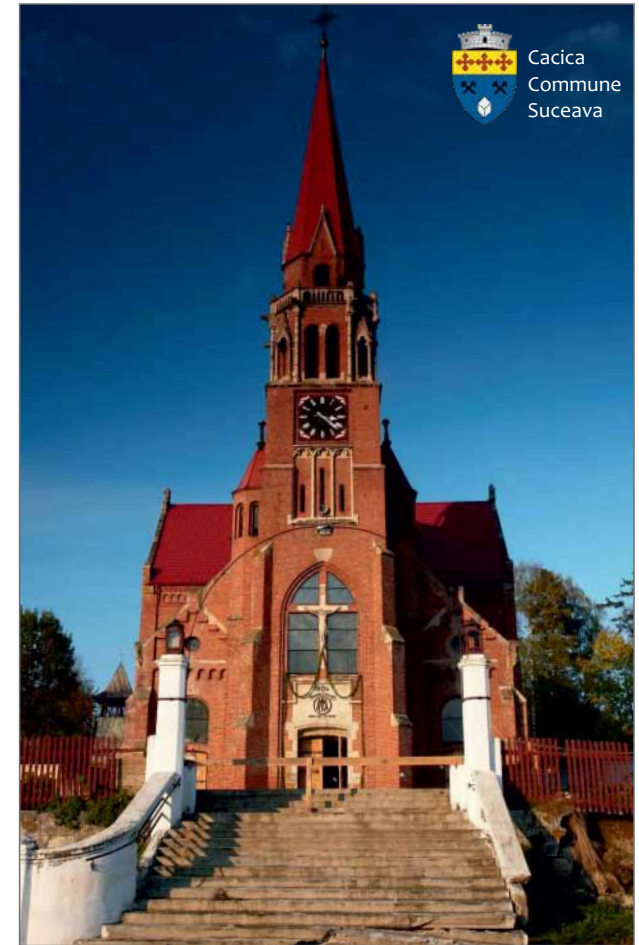
- The former wooden hermitage of the Humor Monastery;
- The Neo-Gothic Catholic church (1904), a national sanctuary, built by the Polish community and named in 2000 a Basilica Minor. It hosts the most important Catholic pilgrimage in Moldova, which takes place every year between the 14th and the 15th of August;
- Cacica Salt Mine, which hosts inside a Catholic chapel (arranged in 1806, at 21 m below ground, at the end of 192 steps), an Orthodox chapel (situated at 35 m underground, decorated with a series of bas-reliefs), an underground artificial salt lake (dimensions 10*6 m) and a dance hall (dimensions

24*12*12 m, at -37 m);

Cacica's Saints Michael and Gabriel Church, included in the national patrimony.

Events

- Miner's Day Festival is celebrated each year on the 11th of August in Cacica, involving communities in the surrounding area;
- Saint Marie's Pilgrimage takes place annually on August 15 at the Minor Basilica.



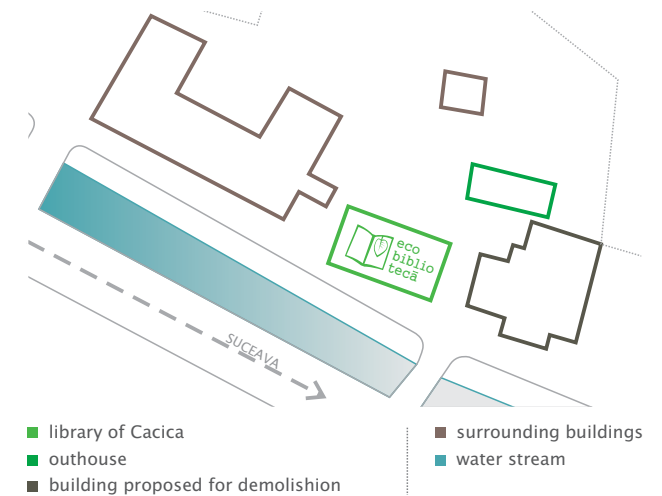


The Cacica Library

The existing public library is situated in the cultural center of Cacica, between the new school and the Basilica Minor, in the close vicinity of the old school of the village (built in 1816), of the Salt Mine and that of the Polish House.

The site is easily accesible from the main road of the town through two small bridges over the Cacica creek, and it houses both (old and new) schools and the library.

The “Eco-School” is the newest intervention on site and earned its name due to ecological concerns and activities it addresses in the educational curriculum.



panorama bird's eye view



panorama from street



panorama from the yard



Until the start of this project, the building to be renovated, built in 1896, housed a kindergarten and a library. The existing rooms were used more as classrooms than reading spaces, ignoring the spacial requirements of a library. As a consequence of the EcoBiblioteca contest, the two classes of the kindergarten were recently moved to the adjacent school, where they benefit from indoor water utilities. The rigid layout of the interior walls provided little flexibility and adaptability in design and function, and led to the impossibility of serving the immediate and future requirements of the library and the community. The stored book collection of the library contained only outdated printed media (7800 books), and no IT services.

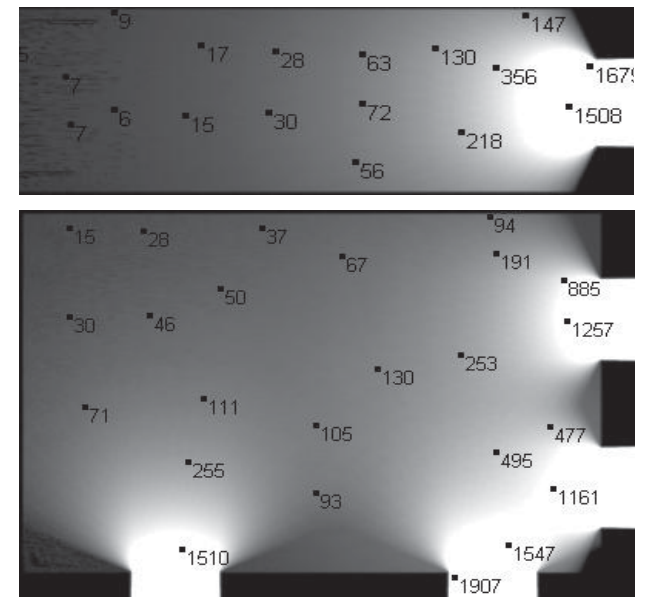
The structure of the building is formed by load-bearing brick walls with stone foundation, while the slab is made of wooden beams and earth filling.

Heating is provided by a series of decentralised wood-fired stoves within each room. Water is supplied with water from an on-site well, placed exactly in the front of the library's access area.

The EcoBiblioteca project team provided daylight studies that pointed out that whilst the external areas of the building have good daylighting, the internal zones have less than 50 Lux even on the sunniest days. (for optimal conditions, a minimum of 200 lux horizontal should be provided in the study areas)



Natural Lighting Study | the lux level in the rooms | WSP







eco
biblio
tecā



Bringing a Green Challenge to Romania

The Romania Green Building Council and their partners wish to demonstrate that reaching the highest level of sustainability is possible in Romania.

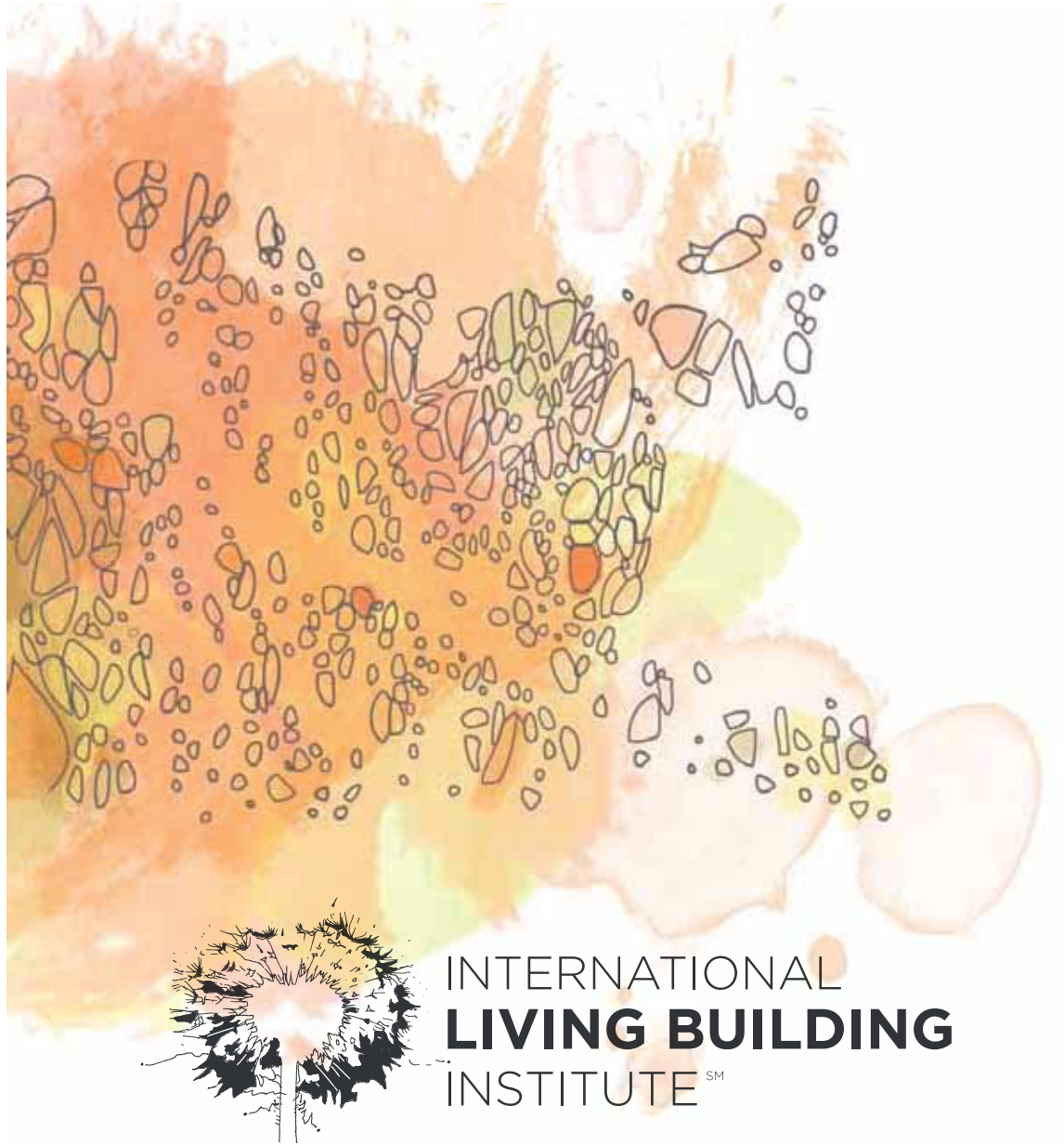
The EcoBiblioteca project has been registered at the International Living Future Institute, in order to reach the Living Building standard.

Currently, there are only three Living Building certified projects in the world.

EcoBiblioteca is a chance to be the first project of this kind that takes place in Europe.



THERE ARE DOZENS OF PROJECTS IN PURSUIT OF THE CHALLENGE...



INTERNATIONAL
LIVING BUILDING
INSTITUTESM

*Envision a future that is socially just,
culturally rich, and ecologically restorative.*

About the Living Building Challenge

Living Building Challenge is a philosophy, advocacy tool, and certification program that addresses development at all scales.

It is comprised of seven performance areas: Site, Water, Energy, Health, Materials, Equity, and Beauty.

Petals are subdivided into a total of twenty Imperatives, each of which focuses on a specific sphere of influence. This compilation of Imperatives can be applied to almost every conceivable Typology, or project type:

Renovation, Landscape + Infrastructure, Building, and Neighbourhood.

SITE

EcoBiblioteca's site is a previously developed one, starting with 1816, and the proposed intervention has as a main objective to improve the existing situation while not enlarging the footprint of the buildings. An immediate advantage of older buildings is that the building already exists; therefore, since there are only minor improvements energy is not necessary to create new building structure and the infrastructure is already in place.

WATER

EcoBiblioteca project will contain a smart drainage system that will protect the library from water infiltrations and will reuse captured precipitation for the landscape irrigation, while making use of the existing on site well. Water demand will be reduced using low flow fixtures and composting toilet.



ENERGY

The energy demand will be reduced to the minimum by maximizing daylighting (sunpipes), minimizing heat loss and gain through the building shell ("passive house" techniques).

Renewable thermal energy will be obtained through a very efficient heat pump system.

For this imperative we are targeting a "scale jumping".

We will actively contribute in developing a photovoltaic field nearby the village which will sell energy back to the grid. The grid will act as a "battery".

HEALTH

The team's lighting engineer created a natural lighting study along with a lighting proposal that will allow natural light to fill in the rooms through roof mounted sun tunnels.

For this imperative, the project encourages natural ventilation (operable windows), supplemented by a mechanical system (ceiling fans) for situations like public events, where a greater number of people will be present.

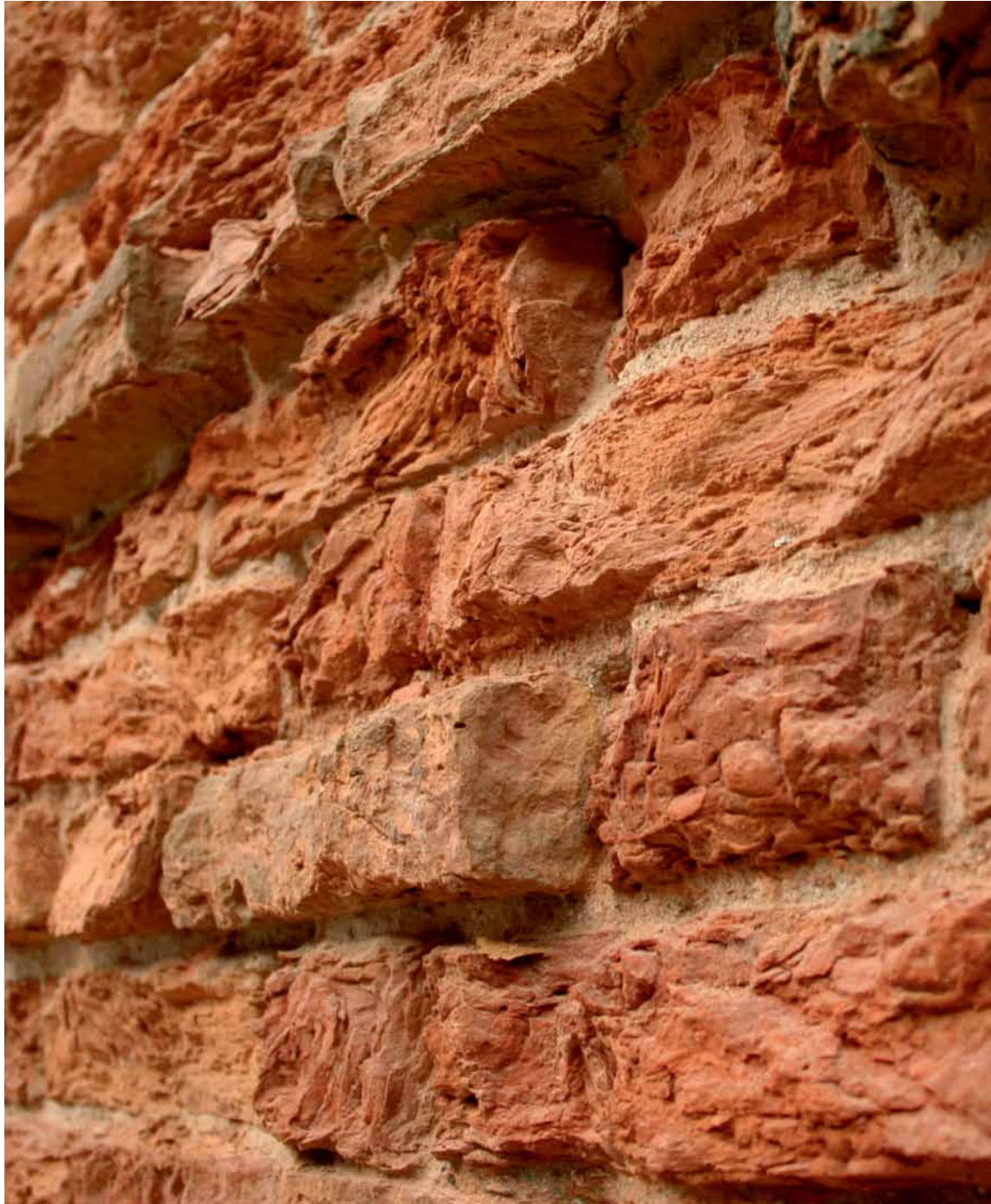
MATERIALS

*"The project cannot contain any of the following Red List materials or chemicals."**

One of the materials mentioned on the list is the asbestos and as a consequence, the first step on the site construction has been to remove the existing roof and to replace it with a traditional solution - wooden shingles.

All products and materials used in the EcoBiblioteca project will be documented through technical specifications and letters to the suppliers for exceptional cases. Through the different proposals, the project will encourage overall market transformations, especially in the supply chain, based on the use of recycled and recyclable products.

*McLennan, Jason, Brukman, Eden, LIVING BUILDING CHALLENGE™ 2.0, Seattle, 2010



In the proposed solution of the project, Ecobiblioteca promotes the procurement of building materials from socially and environmentally responsible sources.

The team is documenting every single product included in the project, encouraging as much as possible a local Romanian sourcing, compliant with the Living Building Challenge requirements.

During site works, special areas for different types of waste have been provided in order to divert these materials (metal, paper and cardboard, brick, wood) from the local landfill. Excavated soil will be reused on site for landscape works.

Existing finishes have been carefully deconstructed and locally reused inside the village.

During the operation of the library, the building will have recipients for selective garbage collection.

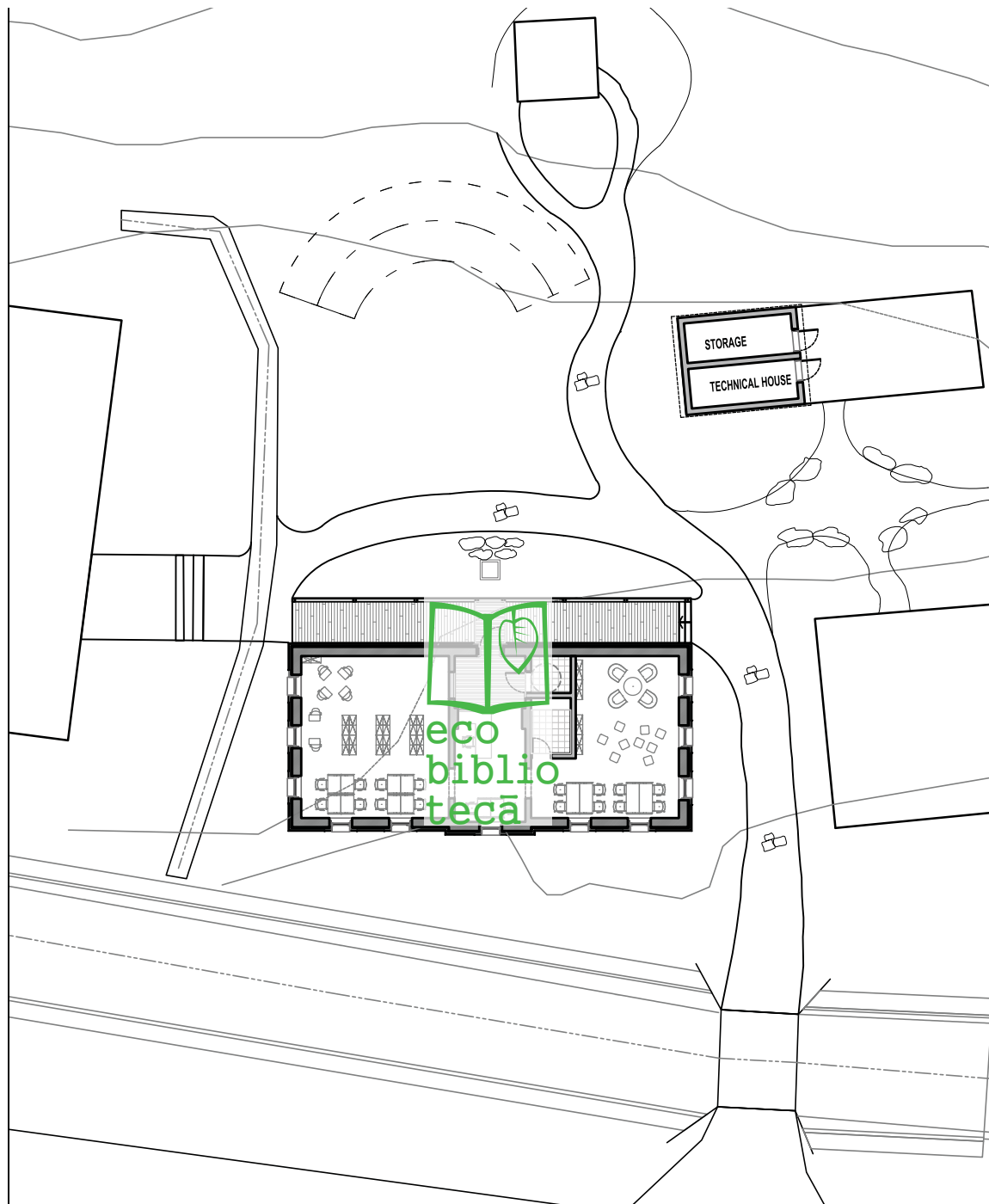
EQUITY

The Ecobiblioteca project imagines the library as a community space, with increased visits and participation by the citizenry. The building interior is designed to quickly and efficiently adapt to community's needs - lecture room, events room, conferences.

The goal of accessible design is to provide equal use of the built environment for all people. Besides a systems of ramps integrated within the landscape design which will provide comfortable access inside the site, we proposed to create a bathroom that will be easy to use by any person.

BEAUTY

Preserving and understanding our nation's heritage is essential. We consider local architecture green architecture, since it was developed during centuries for a certain geographical area, taking into account local climate and having in mind local materials. Following this logic the team proposed a facade that evokes local traditional building facades but with a contemporary approach.



The EcoBiblioteca of Cacica

Summary

The EcoBiblioteca team will renovate the Cacica library in Suceava County in an exemplary, sustainable manner by significantly improving the design, energy performance, lighting quality, indoor air quality and comfort of the building.

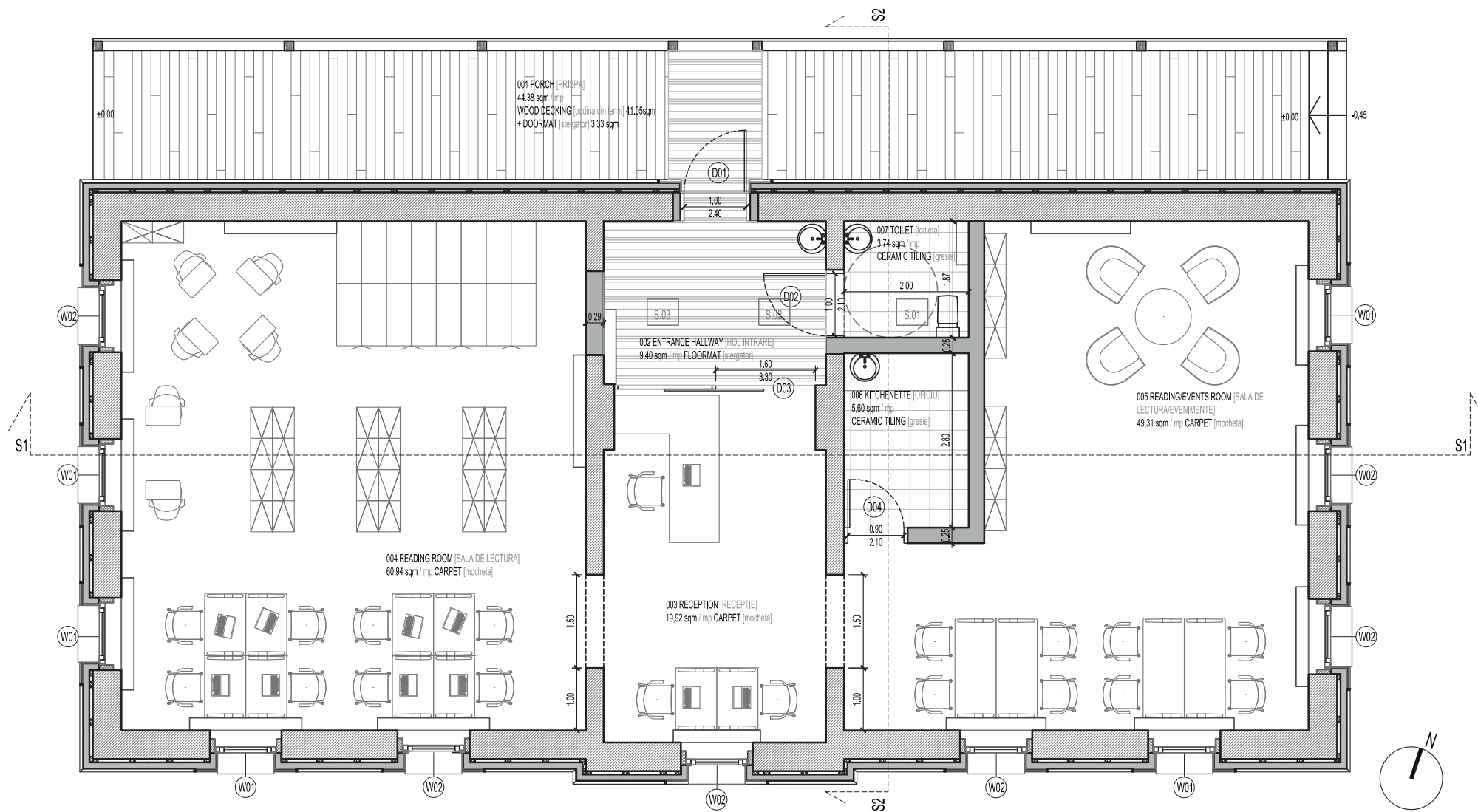
The objectives are:

- to accept and accomplish the Living Building Challenge;
- to build awareness of environmentally responsible and energy efficient building and renovation techniques;
- to stimulate the creation of green jobs both locally and nationally;
- to create not only an aesthetically attractive model of sustainable renovation and energy efficiency in the construction and operation of an exemplary building, but also an architectural statement in the appropriate context;
- to create a strong connection with the existing natural and cultural landscape;
- to encourage use of the library as a community space increasing visits and participation by the citizenry;
- to provide more flexible use for a wide variety of users (for young and old, for the local community and tourists);
- to implement a variety of both modern green technologies and historical methods of reducing energy use and negative environmental impact.

We wish to accomplish the above mentioned goals primarily by integrating collaborative solutions between all the design and engineering disciplines.









Rendering of the Eastern façade - after completion



Photo of the Eastern façade August 2011 construction phase

Integrated Design

"An integrated building is a green building. Integrated design is the overarching theme that governs energy, resources, and environmental quality decisions. [...] More than mainstream design, the integrated design process requires intense balance — and a path of priorities — to produce a successful green building. The process works because there is communication among team members, and because each team designer has a thorough understanding of each teammate's design challenges and responsibilities. Because every design decision produces a cascade of multiple effects, rather than an isolated impact, successful integrated design

requires a necessary understanding of the interrelationship of each material, system, and spatial element. [...] It requires all players to think holistically about the project rather than focus solely on an individual part."*

Regarding the sustainable approach (what principles should be applied), the project should exceed the guidelines typically found in a LEED Platinum, BREEAM Outstanding, DGNB Gold "to reconcile the built environment with the natural environment, into a civilization that creates greater biodiversity, resilience and opportunities for life with each adaptation and development".**

The [ecobiblioteca] team decided to pursue the Living Building Challenge certification. The project was registered at the International Living Future Institute under the Renovation typology, Transect L2.

*Keeler, Marian, Burke, Bill, Fundamentals of Integrated Design for Sustainable Building, Wiley, 2009, pages 1-4

**McLennan, Jason, Brukman, Eden, LIVING BUILDING CHALLENGE™ 2.0, Seattle, 2010



Photos of EcoBiblioteca April 2012 construction phase



Construction Details

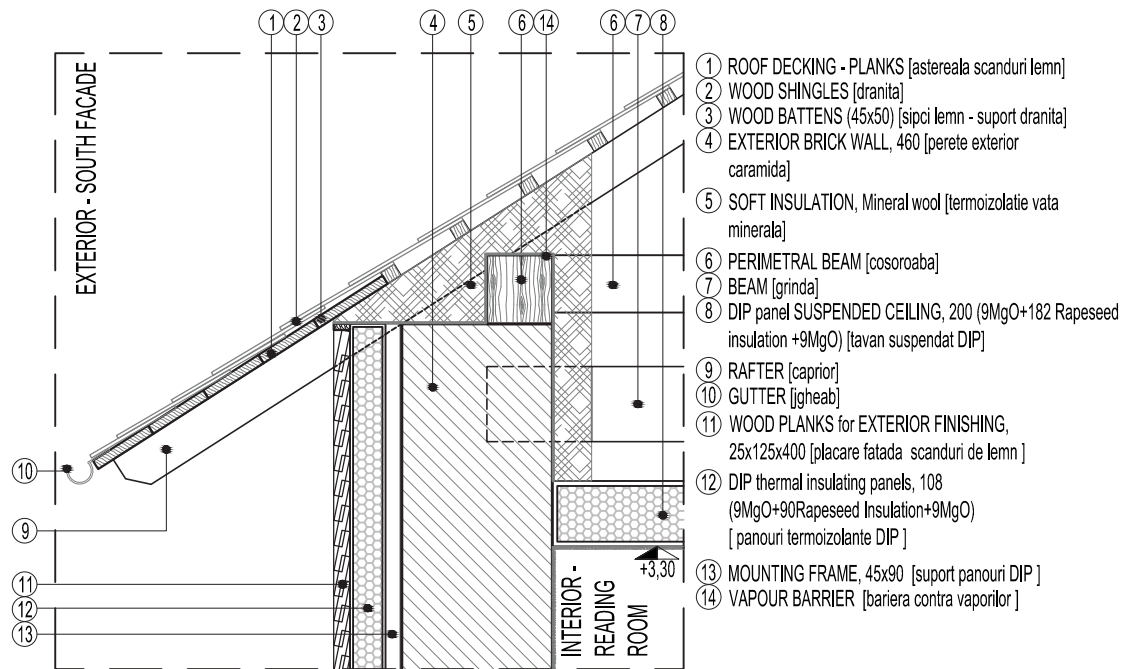
The project partners each bring into the integrated design process extensive experience designing, installing, and commissioning their respective solutions. The Romania Green Building Council will coordinate with its member companies and local builders to achieve materials, products and human resources for the construction works.

The city hall of Cacica has provide workers from their staff and has committed to support the project with local, sustainable construction materials (wood, sand, etc), provide the necessary storage and security for the building site. The city hall and regional authorities have been briefed on the project and do not anticipate problems with obtaining the proper construction and other permits.

The project will emphasize proper commissioning of the building and will include materials and training for the building and related systems.

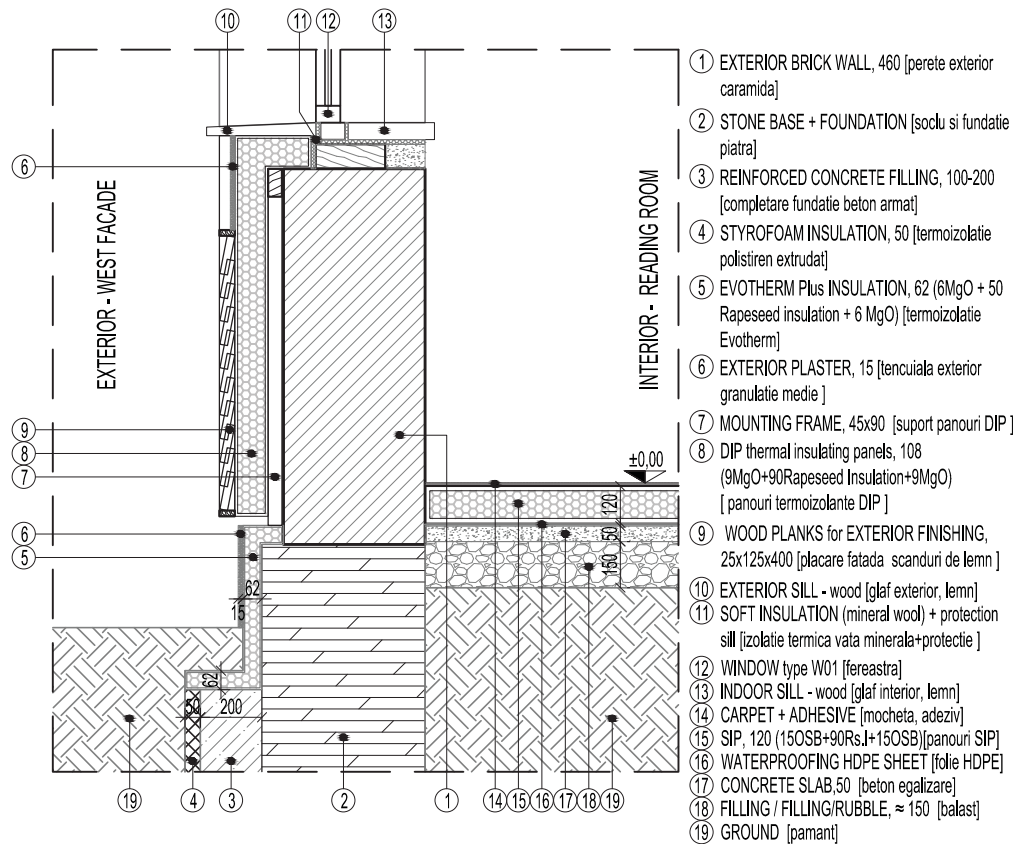
A workshop for students and professionals will be organized during construction, in order to share the knowledge.

Construction works have started in late June 2011 and are expected to close until July 2012.



DETAIL D6 - EXTERIOR WALL - ATTIC INSULATION [detaliu articulatie perete exterior - pod]





DETAIL D3 - EXTERIOR WALL , BASE, FOUNDATION [detaliu perete exterior, soclu, fundatie]





Insulating the facade - September 2011 construction phase



Cladding the facade - April 2012 construction phase





EcoBiblioteca - June 2012



The TEAM

INITIATORS

The Romania Green Building Council | www.rogbc.org

The Romania Green Building Council is a non-profit, non-political association of businesses and other organisations active throughout the country, encouraging the market, educational, and legislative conditions necessary to promote high performance construction that is both sustainable and profitable. The RoGBC is accredited as an "Established Member" with the World Green Building Council (www.WorldGBC.org), and is the leading organization promoting environmental responsibility and energy efficiency in the Design, Construction, Operation, and Deconstruction of Romania's buildings. The organization's goal is to create an exemplary development model for the region by ensuring the built environment will not imperil future generations but rather be a source of safety, comfort, innovation, and economic opportunity.

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ROMANIA
GREEN
BUILDING
COUNCIL

Biblionet | www.biblionet.ro

Biblionet is an excellent organization that is bringing innovation to Romania's libraries among other activities, providing training and installing computers in their facilities throughout the country.

The main objectives of Biblionet include improving access to information, training and capacity building for public librarians, improving government support for libraries and promoting the value of libraries.

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Municipality Cacica | Library Representatives

Elena BOLOCA - Mayor Cacica

Daniela PERCATIUC - Librarian

Maria PRECUPANU - School Director | Eco School of Cacica

Cornel COZMICI - IT Administrator | primariacacica@yahoo.com



Cacica
Commune
Suceava

PROJECT PARTNERS

b-lighting

Provides consultancy services for interior and exterior lighting.
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Conject | www.conject.com | A project collaboration and online project management system that securely and efficiently manages information within construction projects, saving significant time and ensuring that no information is lost. All documents and drawings can be accessed centrally by all project participants. Deliveries and decisions can be processed securely and reliably. Each step within the approval process can be traced. More than 65.000 users from 3.500 companies in 35 countries count on conject.

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Corporate Office Solutions | www.cos.ro | The leading specialist in office design, project management, fit-out, M&E works, refurbishment and office furniture supply in Romania. Company's mission is to transform ordinary offices into efficient working environments in Romania. COS is part of Office Solutions Group, an office interiors consultant since 1997 and now one of the largest in Central and Eastern Europe.

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Marius NILAȘ - Architecture & Design Department | mnilas@cos.ro

Cundall | www.cundall.com | Multidisciplinary consulting engineers whose focus is on designing environmentally-friendly, sustainable buildings. With a full range of engineering services, Cundall devises the best possible solutions for any project in a fully integrated, holistic and cost effective way.

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Dico și Țigănaș | www.dicositiganas.ro | Located in Cluj, since 1997, but active throughout the country, specialized in architecture, engineering, urbanism and consultancy services.

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Levente KOVACS - Structural engineer | levente.kovacs@dicositiganas.ro

b-lighting



CUNDALL



PROJECT PARTNERS

InterfaceFLOR | www.interfaceflor.com | Worldwide leader in the manufacture of modular commercial flooring; they sell the industry's largest and most diverse range of carpet tiles. Since 1994 they have been understanding and adopting sustainable business practices developing innovative manufacturing processes to reduce waste and eliminate toxins from our products and facilities.

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Jetrun | www.jetrun.ro | Jetrun EnergoEco is a Romanian provider of integrated HVAC solutions for energy efficient buildings and renewable energy systems. Together with our local and international partners we are covering the full cycle from energy auditing, feasibility study, sizing and specification, sourcing and assistance for installation and commissioning. Our clients range from individual homes to commercial/office premises and large industrial applications. Jetrun EnergoEco is your local partner for Wolf Heiztechnik Germany, Kingspan Renewables Ireland, Hygromatik Germany, Hidros Italy, Attack Slovakia, Kalfrisa Spain.

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Katja Perrey Landscapes | www.katjaperrey.com | KP Landscapes creates commercial, public and private landscapes for small gardens to multiple acre properties, ranging in styles from modern to traditional and are tailored to the site and the architecture. The designs are exclusively sustainable landscapes, which are climate appropriate and water efficient, require low maintenance and improve the environment by conserving valuable resources, reducing chemical applications and labor inputs.

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OSRAM | www.osram.com | Lamps and lighting systems from OSRAM provide the basis for a beautiful view of things, ensure safety and comfort, allowing for the efficient use of resources. For more than 100 years, OSRAM has been passionate about intelligent light". As a globally operating company, we also encourage socially and environmentally responsible in the policies around the world - as well as sponsoring art and culture at home and abroad.

Wilhelm Balbierer | General Manager, CEO | w.balbierer@osram.com

Ozone Homes | www.ozonehomes.ro | A real estate company. Ozone Homes has an impressive experience, both national and international, of over 20 years in integrated services, while proposing a new approach to the real estate market by developing ecological buildings. Ozone Buildings are a benchmark for quality and design.

Andrew PRELEA - CEO | Andrew@southpacific.ro

Smart & Pepper | www.smartandpepperconsulting.com | A full service consultancy firm that supports and helps your company identify and implement the most cost-effective and environmentally-responsible strategies. Our professionalism and extensive experience meets all of your sustainability consultancy needs as they relate to a greener, energy efficient and healthier built environment. We carefully consider every aspect of your lifestyle for greener, healthier homes and workplaces.

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*Interface***FLOR**

Jetrun
EnergoEco

KP
landscapes

OSRAM

OZONEHOMES
"SAVE HOMES, ENERGY & ENVIRONMENT"

SMART and **PEPPER**

PROJECT PARTNERS

Strucon Proiect | www.struconinternational.com | A Structural Engineering Company with national and international experience, that designs to Euro, British and US codes of practice and adopt these codes to suit local conditions and practice in other countries.

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Tassullo | www.tassullo.ro | For 100 years Tassullo has produced solutions and avant guard systems for all sectors of the building industry, from new construction to renovation, from historic preservation restoration to sustainable construction. Since 1909 Tassullo has been a synonymous with innovation, high performance and respect for the environment. A construction that is environmentally friendly and finds the most efficient solution in Tassullo's natural hydraulic lime. For this reason it is better to choose Tassullo: real experts in techniques and materials for building, leaders in research & development using a centenarian know how that has nowadays become an important heritage in order to design and build in the new millennium. Tassullo means to have a single contact from the extraction and processing of raw materials until the distribution and promotion of the final product.

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Thermaflex | www.thermaflex.ro | Thermaflex founded in The Netherlands in 1976 as manufacturer of thermoplastic foams for technical insulation, is a company encouraging sustainable building by reducing unbridled waste of energy. Thermaflex manufacture pipes and insulation designed to save energy in: Heating & Plumbing; Cooling & Air Conditioning; District Heating & Cooling; Industry & Protection. Thermaflex keeps improving its technologies oriented both energy-efficient and cost effective by reducing the consumption of natural raw materials and ensuring less pollution. Thermaflex is having a proactive role to preserve the environment by reducing CO2 emissions and reducing the global warming effect also we avoid any substances that might harm the environment (e.g. CFC, HCFC, Bromides,).

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Velux | www.velux.ro | The VELUX Group creates better living environments with daylight and fresh air through the roof. VELUX product programme contains a wide range of roof windows and skylights, along with solutions for flat roofs.

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WSP Group | www.wspgroup.com/en/Welcome-to-WSP-Romania | Operates as a specialist in the property, transportation and infrastructure, environment and energy and management and industrial sectors providing a full range of services from planning through to design, implementation and maintenance to local and global clients.

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MEDIA PARTNERS

ARHIFORUM | www.arhiforum.ro | Arhiforum is an architectural portal that aims to promote Romanian high quality architecture in virtual media especially young architects; by realizing a database with contemporary architecture and urban planning projects; creating a professional discussion platform; creating an online architectural agenda; promoting architectural contest as an assignment method for public projects and as a measure of a better architectural product; increasing international visibility for Romanian architecture through the English portal "Regional Architectural Media Project"
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Arhitext | www.arhitext.com | Arhitext design foundation highlights through it's projects the concept of sustainable development, encourage the critical sense and so it treats new tendencies and identify present and future values.
Elena TĂRCUȚĂ | Marketing Assistant | arhitext_redactie@b.astral.ro



Igloo | www.igloo.ro | Dynamic and versatile, igloo habitat & architecture magazine proposes a coherent speech about contemporary culture, in a generous graphic format. In its pages, the latest news in architecture, urbanism, design and urban culture are accompanied by well documented studies about built heritage and critical essays. Addressing to a specialized public, students, and generally, to those who are passionate about architecture and design, Igloo deserves to occupy a place next to the most famous publications from this field in the world.
Viorica BUICĂ | Editor-in-Chief | viorica.buica@igloo.ro



Zeppelin | www.zeppelin-magazine.net | Zeppelin magazine is an elite professional and cultural magazine acknowledged at a national and international level. It supports creative work and promotes innovative ideas and quality concept in architecture, urbanism and design. In a bilingual presentation in Romanian and English, it features both Romanian and foreign projects along with current trends in the fields of architecture, urbanism, design and arts, theoretical opinions, materials, technologies and avant-garde including a cultural agenda.
Raluca MARTIȘ | Marketing and Developing Director | publicitate@arhitectura1906.ro





Promotion

The intention of the project is for ecoBiblioteca to be promoted nationally via a joint strategy of the Romania Green Building Council and Biblionet.

- The Romania Green Building Council will use the building as a teaching tool in their educational program.
 - Information about building systems for pedagogical purpose will be provided through access to building systems during "open days" and through strategically placed truth windows.
 - Biblionet will utilize its own network to effectively promote the project to member libraries.
 - The local authorities will assist with promotion and will consider adding it to the tourist plan for Bucovina as a sustainability project. Additional presentations will be offered to building visitors, area school children, university students and other local communities through an integrated display within the library.
 - An ecoBiblioteca brochure will be designed for the library, presenting the story of the project and naming the contributors.
 - A workshop for university students and interested professionals will be organized during construction phase, providing them with the opportunity to observe, learn, and contribute to the project.
 - Each project partner will be authorized to display the ecoBiblioteca logo to indicate their involvement.
 - Advertising, media campaign, packaging, events, publicity, and collaterals - visibility and exposure.
- The initial project is intended to encourage more partners to support and join future projects and also to include buildings beyond libraries (schools, offices, etc.).

If you want to know more about this exciting sustainable construction project please contact:

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