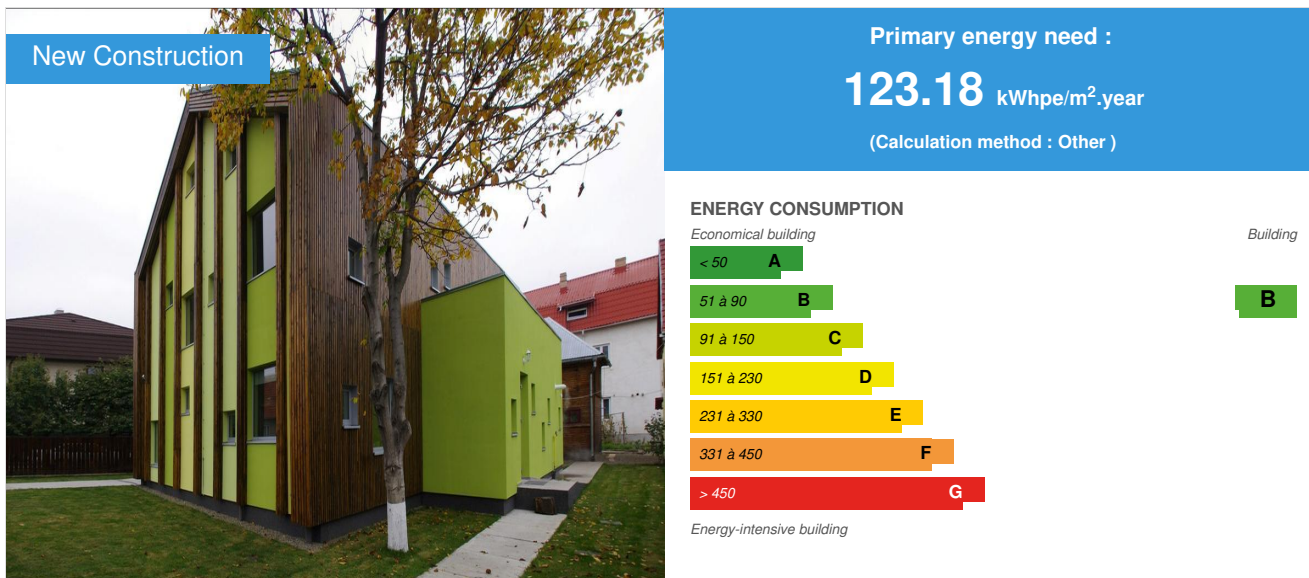


ISEA Learning Center

by [Sergiu Petrea](#) / 2016-06-28 10:44:56 / International / 9331 / EN



Building Type : Preschool, kindergarten, nursery
Construction Year : 2014
Delivery year : 2014
Address 1 - street : 725400 RADAUTI, Romania
Climate zone : [Dfb] Humid Continental Mild Summer, Wet All Year

Net Floor Area : 495 m²
Construction/refurbishment cost : 500 000 €
Number of Children : 1 Children
Cost/m2 : 1010.1 €/m²

Proposed by :



General information

The learning centre was built to help children coming from under privileged families from Suceava. The ISEA Association (intervention, support, education, assistance) had the initiative of creating an after school program for these children, which would be managed by volunteering nuns. They started this program in a small building and realised soon that they needed to expand. The old building didn't correspond to basic needs such as comfort, lightning, acoustics, and noise control. At this juncture, we were asked to come up with an inexpensive yet effective architectural solution. ISEA Learning Centre was designed to be a home away from home for children, where they can learn, laugh, grow, and have fun. In families with financial difficulties or broken homes, children tend to study in a non-conducive, high pressure environment. The learning centre is designed to create a pleasant learning atmosphere in a joyful space. The center offers a mix of large spaces for group learning and several smaller, age-specific classrooms. Due to the fact that the building serves for educational needs targeting children aged 5 to 18, and thus a wide-age category, the interior needed to be as unitary as possible. The interior design concept is focused on playing with the exterior and using random dimensions for windows in random positions, which welcome ample natural light from more playful angles.

See more details about this project

<http://tecto.ro/portfolio/isea-learning-center/>

<http://architizer.com/projects/isea-learning-center/>

Stakeholders

Stakeholders

Function : Designer

TECTO Arhitectura

office@tecto.ro

<http://tecto.ro/>

Architecture design

Contracting method

Other methods

Energy

Energy consumption

Primary energy need : 123,18 kWhpe/m².year

Primary energy need for standard building : 178,77 kWhpe/m².year

Calculation method : Other

CEEB : 0.0001

Envelope performance

Envelope U-Value : 0,20 W.m⁻².K⁻¹

More information :

Exterior insulation to ambient air - 0.22W/(m²K)

Exterior insulation underground - 0.18W/(m²K)

Windows and external doors - 0.94W/(m²K)

Building Compactness Coefficient : 0,23

Indicator : n50

Renewables & systems

Systems

Heating system :

- Condensing gas boiler
- Low temperature floor heating

Hot water system :

- Condensing gas boiler

Cooling system :

- No cooling system

Ventilation system :

- Natural ventilation

Renewable systems :

- No renewable energy systems

Environment

Urban environment

The building sits in a rural setting. With a well thought design and by using local materials it manages to blend into the neighborhood.

Land plot area : 727,00 m²

Built-up area : 258,00 %

Green space : 450,00

Products

Product

bavaria knb-plate heating system

hp praski

info@hp-praski.de

<http://www.praski.de/index.html>

Product category : Génie climatique, électricité / Chauffage, eau chaude

The bavaria-konb plate makes the installation of the heating system very simple and economic.

The system consists of a knob-profile with integrated impact sound insulation and pipe retaining system. Insulation and possible relocation of the moisture protection layer and exact pipe fixation in a single work process.

Both designers and workers.



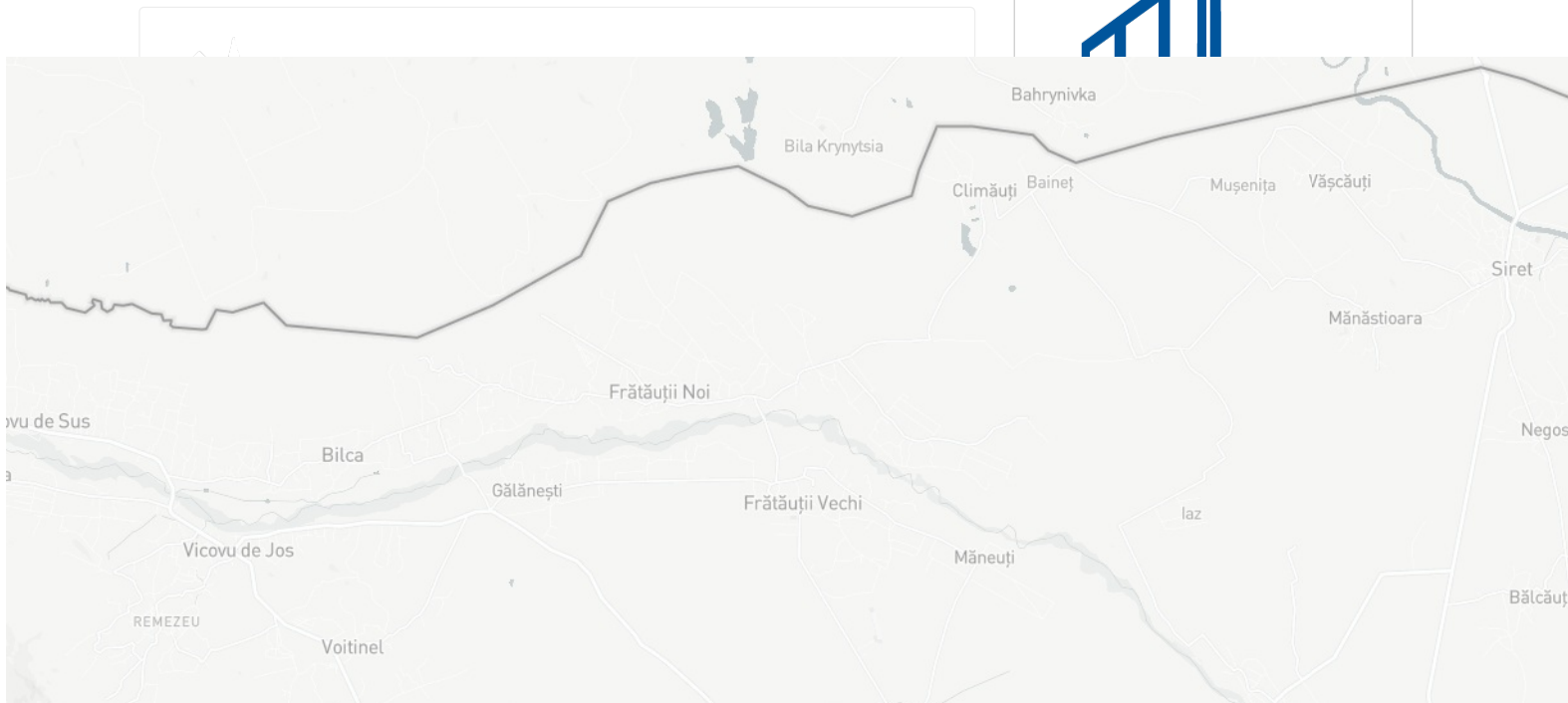
Costs

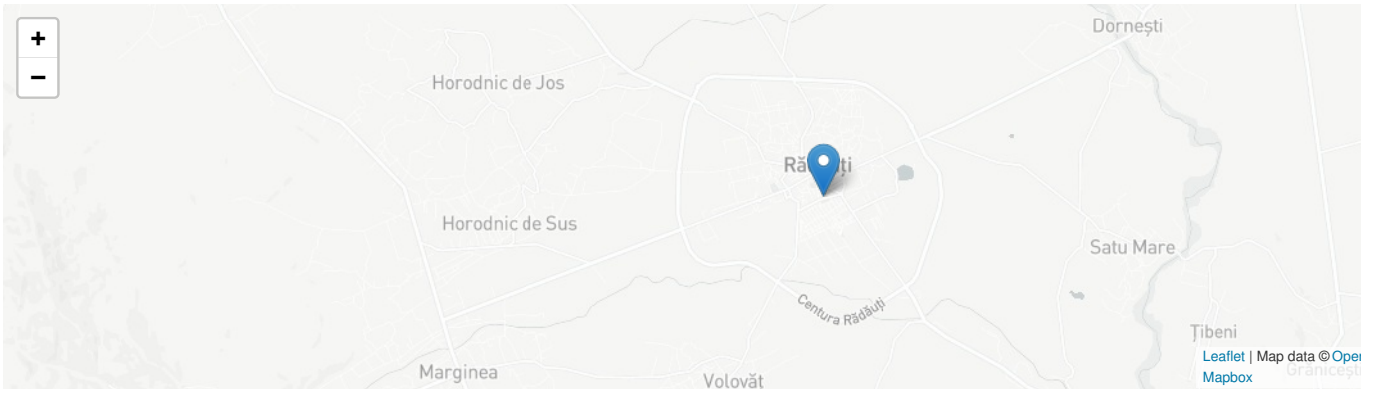
Contest

Reasons for participating in the competition(s)

The building is in the very north of the country, in a sub-mountainous region with very harsh weather ranging from cold winters to dry and hot summers. The disadvantageous position of the city in relation to the country's major economic poles made finding low budget solutions adamant, intimately connected to local materials and crafts. The spaces created by using warm textures mixed with vibrant colours ensure a healthy environment in which children of all ages and social groups can live, play, study or just pass the time. The dialogue between light and shadow generated by the playful openings on the facade aims to soften the rigorous geometry of the interior. The design goal was to give a joyful character to this space, even though heavily conditioned by weather and other factors, so that children of ISEA LEARNING CENTER have a stronger sense of belonging.

Building candidate in the category





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