

## OPEN COMPETITION FOR MODULAR BUILDING PROJECT

### **Ryterna modul Architectural Challenge 2019: Suburban House**

- I. COMPETITION ORGANIZER - JSC “Ryterna modul”
- II. COMPETITION FORM – Open competition.  
COMPETITION THEME – to design a modular house for family of four based on given description. In addition, family owns ~12ares (~1435 sq. yards) piece of land in Vilnius city suburbs (Lithuania). IMPORTANT: house must be based on modular construction.
- III. **Family description** - Our project family is a family of 4. They are considered a middle class with skew to the upper class family, family’s income is 3000eur per month (36k EUR per year) – average family income in 3 Baltic states (based on 2016 data) at their capitals are: Vilnius, Lithuania - 1300eur; Riga, Latvia – 1425eur and Tallinn, Estonia – 2053eur.

*Peter* - father 35 years old; *Lisa* - mother 34 years old; *John* - son, 7 years old and just started going to school, *Alice* - daughter aged 2,5 years old.

Family specifics:

**Peter** works as mid-level manager at one of international companies based in Lithuania, which operates in construction business, he is keen on active outdoors lifestyle (hiking, camping, bike riding, canoeing) as well as he is DIY person, so often he spends time working on DIY projects. He works from 8am until 5pm, after work, he usually stops by the gym or swimming pool for an hour if he has that possibility and there is no need to take care of the children. He would love to live as close to the nature as possible.

**Lisa** was stay-at-home mom, but now she runs her own business from home, meaning that seldom she invites her clients into her house for business meetings. She is the KEY person in the family; she takes care of everyone in the family and is the deciding person who has the last say in biggest, family evolving decisions (like house buying). She also enjoys active lifestyle, but would not like to live far outside of the city boundaries. Instead, she would pick a house in the city center at any time. If she would have some spare time, she would enjoy brushing up her skills in handicrafts.

**John** – is a first grader, extravert, hyperactive personality, who constantly tries to find boundaries of what, is possible and what is not. He actually enjoys going to school and is in the top of his class. However, he feels betrayed of his sister as she has much more attention than he does.

**Alice** – is a calm introvert toddler, which is taken care by mother, she is very attached to her mom, and tries to be like she, meaning that she is constantly around mom, even in her business meetings (making business meeting a struggle for Lisa).

**Family house location:** as family couldn’t afford to buy land or house in the city center, but really wanted so, they bought land in city suburbs - ~20km to city center, their land is located approximately 15min drive from children garden and school. First, then they bought the land it was very close to nature, now land is in rapidly developing area, so nature is quickly shrinking around their land and neighboring houses a popping up quickly around them. Peter is not so happy about it, but Lisa enjoys new company.

*For more detail insight about the land please check DWG drawing, and scheme, their bought piece of land is marked yellow and corresponds to number 4b. You can find area in question at these coordinates - 54.649686, 25.449042 (WGS)*

**Family transport:** 2 cars (hatchback – company car and 2015 middle class SUV – a leased car); one motorcycle (owned).

**What are they are willing to spend:**

they are willing to spend around 72000Eur (bought with bank loan, evaluated at a rate of 300Eur per month for upcoming 20 years).

**About the HOUSE** – house can be arrange as you wish, number of rooms is unlimited, yet you should aim at the budget for the house. House can be designed as one or two stories high building. It can feature flat or sloping roof. Based on recent EU requirements, house has to be designed, as close to a passive house as possible, meaning that energy used by the house for its heating, cooling has to be as low as possible or at least come from renewable resource from the onsite renewable resource generators (for example – solar or wind energy).

**IV. COMPETITION REQUIREMENTS**

1. Competitor has to design a house for project family to live in featuring all essential areas for comfortable living for four people.
2. Competitor is required to present visualizations of the house in the suburbs (mandatory) from inside and outside to be considered for final prize, as an addition house could be rendered in City and nature environments.
3. House should be usable all year round (in Eastern Europe geographical location)
4. House can be expanded in both directions – vertically or horizontally.
5. House covered area should not exceed 50% of the land (with any type of car storage space - for example car parking spaces, garage, car shelters or car ports included) – House covering land area and actual useable area should be clearly written as well, parking solution covering area.
6. House has to be designed to be made of SIP panels (wooden panels with insulating materials), only bottom part of the module will feature metal construction – as an example our [Wood3.0 module featuring similar construction](#)
7. Dimensions of one modular unit should not exceed **10000mm(L)x4000mm(W)x3100mm(H), but could be smaller than given dimension.**
8. Each module has to be transportable

**V. COMPETITION AIM**

1. From all contestants, organizer will pick three best works based on: originality/attractiveness of the architectural solution, the architectural appearance, functionality and the ability to adjust proposed modules to production. All these criteria are equivalent
2. The three winning projects will be awarded the main prize:

I<sup>st</sup> place – 1 000 EUR

II<sup>nd</sup> place – 500 EUR

III<sup>rd</sup> place – 250 EUR

## VI. RIGHTS AND OBLIGATIONS FOR PARTICIPANT

1. Participants can enter a competition as one person or as a group of maximum of 5 people.
2. Until the end of **2019 January 28<sup>th</sup> (23:59 EET/UTC+2h)** provide PDF drawings and design visualization, consisting of the unlimited number of pages of A1 format sheets (all four outside sides of house, cross-section displaying interior design, general house floor plan layout has to be visible). Cross-sections of technical points not required.
3. Works are presented in digital format via sending CD or USB flash drive or using online sharing platform such as wetransfer.com; myairbridge.com; Dropbox; Google drive or similar. High-quality works have to be provided in PDF format, **but should not exceed 2GB in file size.**
4. Final work has to have ID number (on every page top right side) consisting of your project title no longer than 10 digits that are 10mm in height. Separate Word document has to be sent together with work containing all participant information (name and surname of author/authors, clear identification of team leader of the group). All works and their corresponding documents has to be submitted to [vainius.g@rmodul.com](mailto:vainius.g@rmodul.com) containing your project ID number.
5. Author's names and contacts must not be visible on presented final work PDF.
6. If needed hardcopies, CD/USB flash drives, in envelopes with the name "modular building design contest" shall be sent to UAB "Ryterna modul" Agronomijos g. 45 LT-47480, Kaunas, Lithuania

## VII. EVALUATION OF THE WINNERS

1. Evaluation and winner selection is carried by jury, which consist of "Ryterna modul" employees represented by the company director and the two independent architects and possible investor of the restaurant.

**Competition Secretary** (any questions regarding competition): Vainius Gabalis, email: [vainius.g@rmodul.com](mailto:vainius.g@rmodul.com)  
**Commission/Jury:**

- Andrius Orlovas (JSC "Ryterna modul" director)
  - Donatas Cesiulis (Architect, Ryterna modul competition two time 3rd place winner (2014/2015))
  - Abdolrahman Kadkhodasalehi (Architect and Ryterna modul competition winner of 2018)
  - Ignas Uogintas (architect and partner at "Do Architects")
  - Kęstutis Vaikšnoras (architect at "Dvieju grupe")
2. The jury will evaluate the works in a closed meeting in accordance with the following criteria:
    - Architectural solution originality;
    - Architectural appeal;
    - Functionality;
    - Ability to adjust proposed modules to production.
      - Cost saving solutions, use of proposed materials, design simplicity in regards to constructions
      - Communication lines and ability to reproduce other components.
  3. Competition dates:
    - End of registration by **2018 November 25<sup>th</sup>**
    - Submission of the final work - **2019 January 28<sup>th</sup> (23:59 EET/UTC+2h)**
    - Competition results announcement: **2019 February 15<sup>th</sup>**

## VIII. COMPETITION ORGANIZER RIGHTS AND RESPONSIBILITIES

1. During the competition organizer might advise participants on all the technical issues.
2. Organizer rewards first three place winners by signing a contract of sale with winners for their provided competition material.
3. The organizer reserves the right to publicize all material of the progress of the competition, as well as to post or otherwise share the works of the contestants with the general public at the end of the competition.
4. If it appears that the work is not original, it will be withdrawn from the competition.
5. The organizer reserves the right to use the visuals of projects on their website as well as a range of promotional material, identifying the author of the project. The organizer will also gain the right to manufacture a building according to the winner's project, firstly arranging acquisition agreement or other type of reward to the project author.