

## **Friggebodar 2011: A live small buildings project**

21/12/10

Friggebod: a small house of up to 15 square meters of floor space with a maximum of 3 meters to the gutter that can be erected on private land without the need for planning consent from the local authorities.



### **Project description**

This project is to build two sustainable friggebodar for Floda31, an interdisciplinary research and design facility in Northern Sweden.

### **Brief**

To design a friggebod that can house residents at Floda31. The friggebod should serve as a sustainable prototype, and should propose new ways of building with the climate in mind. It could for example use unusual recycled materials, re-think traditional construction techniques, or use off-site manufacturing techniques to enable a faster and more efficient construction process.

### **Who**

This is an interdisciplinary project and teams made up of more than one profession/area of knowledge are welcomed. We have invited The Bartlett School of Architecture, Unit 8 and Umeå School of Architecture (unit tbc) to make teams. Work will be supervised by tutors from both schools and Floda31.



## Basic requirements and considerations

Each friggebod should have sleeping, working and eating space for two individuals. It should be able to generate its own electricity and heating, and must be habitable all year round (temperatures range from -40C to +30C)

We would love it if each friggebod also had running water, cooking facility and food storage. Additionally it would be great to consider the friggebod as a place to look out for wildlife or watch the stars. An indoor/outdoor space could be added for camp fires or barbecues.

Keep in mind that there is no driveway, so access is on foot, bike, ski, snowmobile, dog sled or other. In winter there is heavy snow; two meters plus, and mid winter there won't be much light. In summer there are lots of mosquitoes, midges, horse flies and other flying insects and there won't be much dark. The locations for both friggebodar are on a hill (275m), ground is very rocky, lots of stones, but with a great view!

Local resources are wood, wood and more wood, and also some natural stone. There is a small stream and a well with drinking water in close by.

## Expected results

The aim of the competition is threefold: Firstly, to allow students the chance to test their ideas against reality. The fast construction process combined with the stringent demands on quality needed to meet the harsh climate of Floda, will provide an excellent case study for the students, and an important learning experience in their careers as architects.

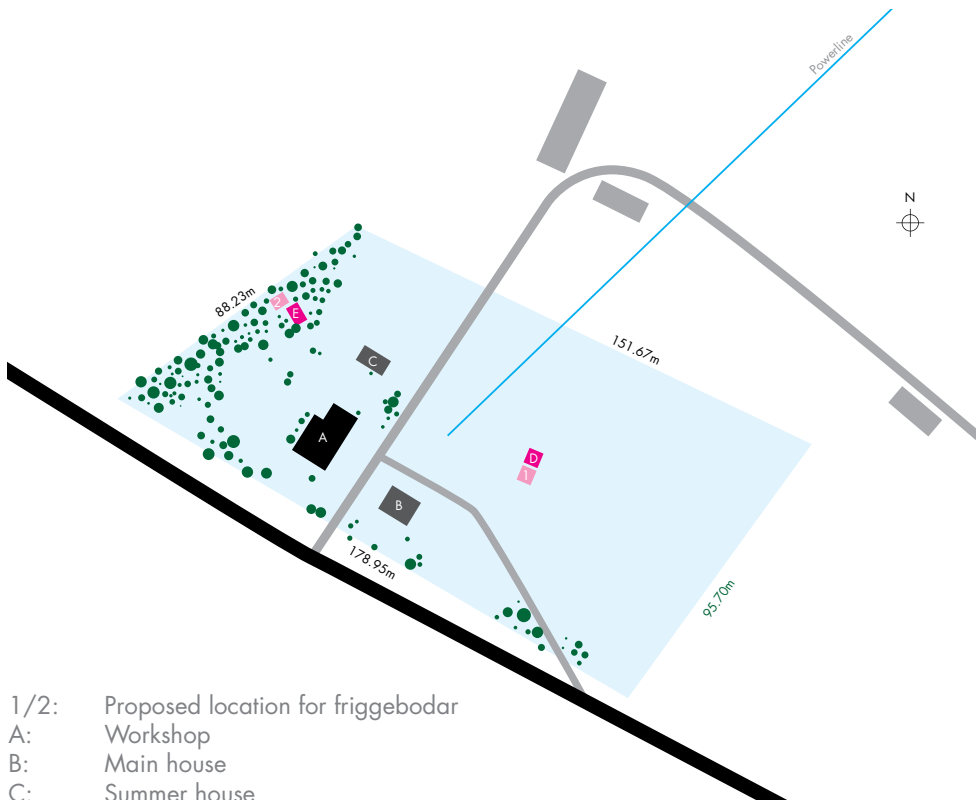
Secondly, it is an opportunity to create ties between the newly founded Umeå School of Architecture and The Bartlett School of Architecture, UCL, which is one of the leading schools in the world. This would help to reinforce Umeå university's status as an international university with links to some of the most influential universities around the world.

Thirdly, the small prototype houses will provide a great opportunity to showcase new and interesting ways of tackling the difficulties of building in an extreme environment, without any restrictions to the designers' creativity.

# FLODA31

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## **Process & Calendar**

Project start: Dec 2010

Selection of teams: Dec 2010

Concept design deadline: End of Jan 2011

Schematic design deadline: End of Feb 2011

Detail design deadline: Mid Apr 2011

Construction start: Start of July 2011

Construction end: Early Sept 2011

## **Initial Phase**

In January, after the initial teams are chosen, representatives from Floda31 will brief teams on particulars of the project in more depth. This will involve aspirations for the project, specific requirements, budgets and restrictions of site and cultural background.

## **Design Phase**

Teams will work in partnership with their unit tutor, and will be expected to have weekly meetings, outside of tutorial time, to push the project forward. Due to the tight timeframe the dates set are immovable. Teams will be expected to design a proposal that can be built within the allocated budget and within the timeframe allocated. This phase will happen in concurrence with student work, and must take neither a front runner, or back seat to studies.

## **Build Phase**

Both teams are expected to stay in Floda31 for the duration of the construction phase July – early Sept, where free accommodation will be provided. Travel costs and food will not be provided. Floda31 and partners will provide workshops, help, advise, construction materials and tools.