Gdansk 2013

Mihkel Ling Muhro Plc

Reed harvesting can be often problematic work



Harvesting on soft ground



Cleaning process needs a lot of handwork



In Northern-Estonia there are organized annual reed days. Boat made of reed. Probably not marine firme but gives general idea of the enthusiasm.



In Northern-Estonia there are organized annual reed days. Reed is good material for dress decoration.



Christmas decoration and crowns made of reed



Reed mat to winterize the walls.



Produceing reed mats leaves behind reed waste that can be used as mulch



Thermal plate fixation to the wall



Singel layer reed mat. Underlay to plaster without insulate characteristic



Singel layer reed mat. Lightweight external wall to gardens and courtyards



Plastering the thermal plate . Mostly used glay plaster



Boilerhouse that uses reed that is useless for building thatched roofs. Other organic fuel is used also



Warehouse for reed bricket



So-called rubbish reed. Harvested even with part of roots



Test house at Estonian University of Life Sciences



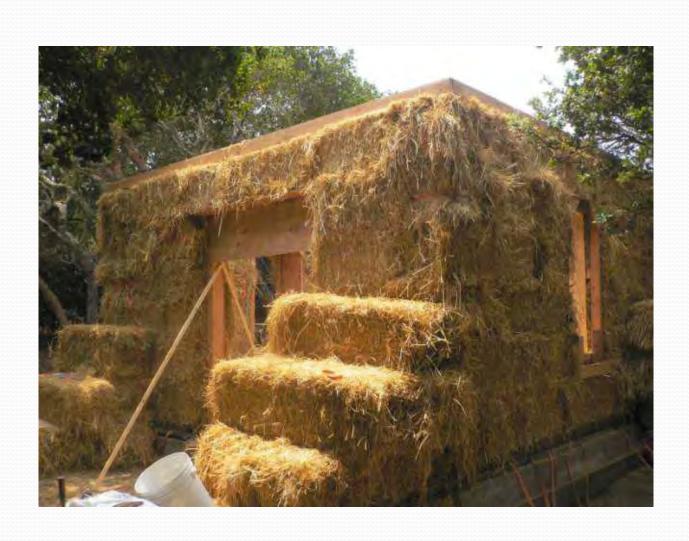
Winterizing the walls of reed house. This particular house is built on wooden framework. Bearing walls is also made of reed



Eco-construction. A house with reed cube walls.



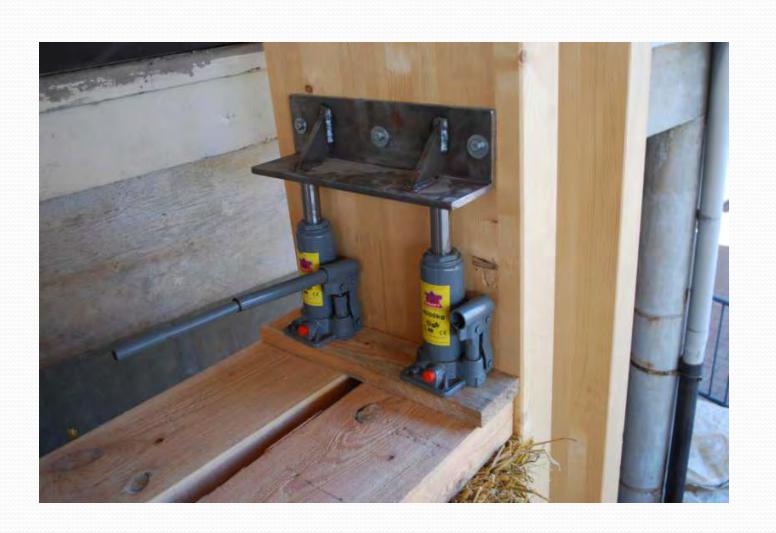
Bearing walls made of reed cubes (Here is litter)



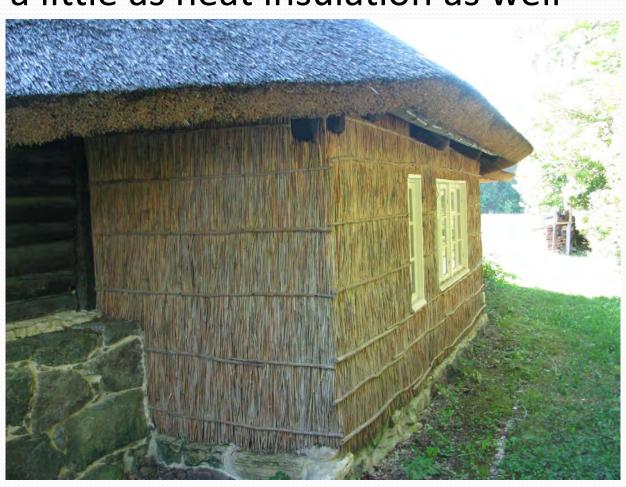
Nebraska style



Pressure



Reed layer without plaster. Main idea is to protect timber wall from weather damages but works a little as heat insulation as well



This method has been used for decades.

Nowadays it starts to gain popularity as design element



50 mm thick reed layer between roof laths and roof to get correct surface



Different sides of the same roof. Under thatched roof has been built wooden chip roof



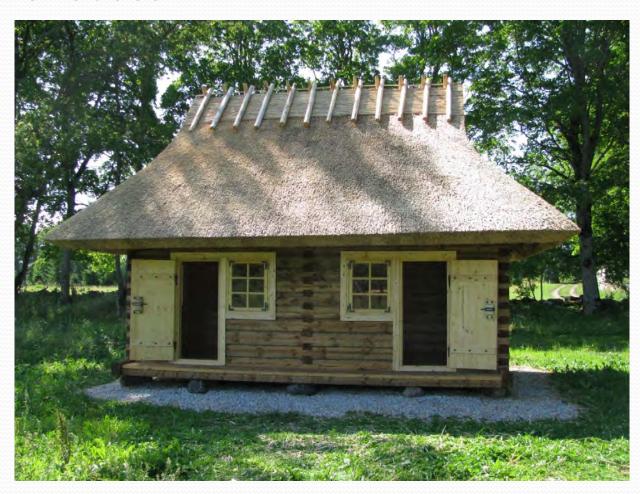
Idea from Western Europe. House from the beginning of 20. century



The owner of that house was a well known estonian artist/painter who let his fantasy to fly



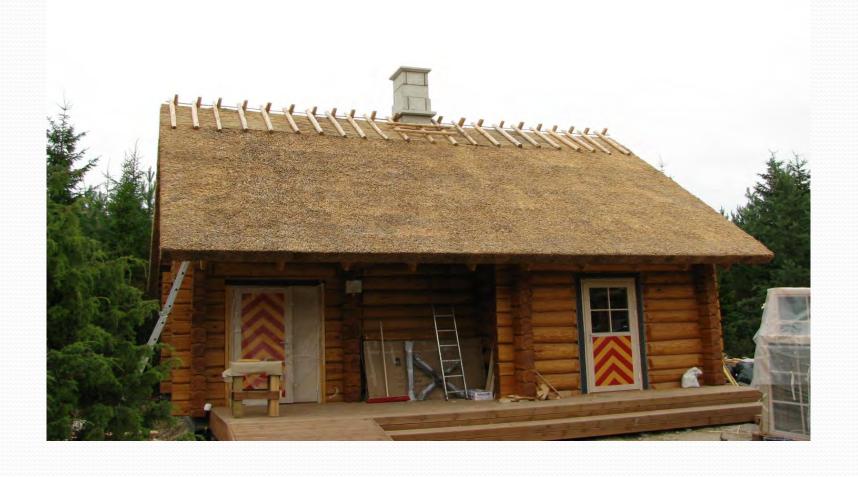
A house to summer nights. Inspiration got from old storehouses.



Different forms on thatched roofs. That kind of ridge is the most commonly used ridge type in Estonia



Thatched roof is used to cover residential houses and also saunas



Quality of the work depends of maker and varies very much. On the picture there is a 5 year old roof that already needed serious repairing



Thatched roofs are often ordered as design elements in a garden



Thatched roof to a suburban summerhouse is quite popular choice among the owners



Conifer (pine) is the most commonly used material for ridge attachment



According to client, oak or other time-proof wood can be used for ridge attachment



If ridge is made traditional way then it has to be changed after every ten years.



Roof from 1996. Ridge has been changed in 2006



Board panel ridge can be use to get more timeproof and more elegant solution



In that case they use tar-soaked boards or oak boards



Oak boards lasts longer but are more expensive as other material



Thatched roof for outdoor kitchen in Finland



Thatched roof for outdoor kitchen in Finland



Sepatec Fire Protectin system has been used



A house built in Denmark according by local requirement. Ridge- heather and oak ridge attachment



A roof in Denmark. Ridge is made of heather and secured with zinc net



A roof in Denmark. Ridge is made of heather and secured with zinc net



Complex in Denmark



21 century storehouse. Every thatchers dream to cover



Tänan. Thank You