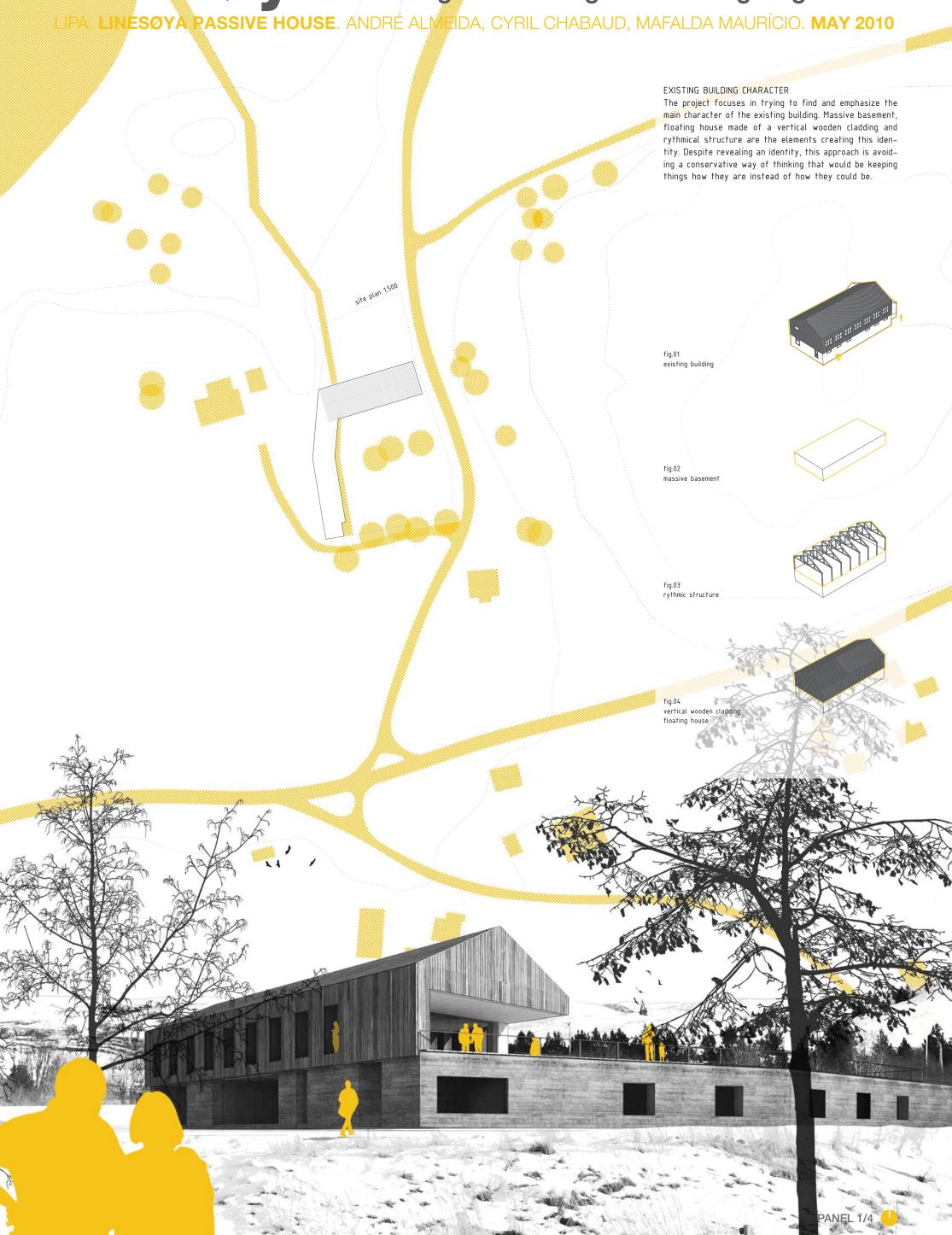
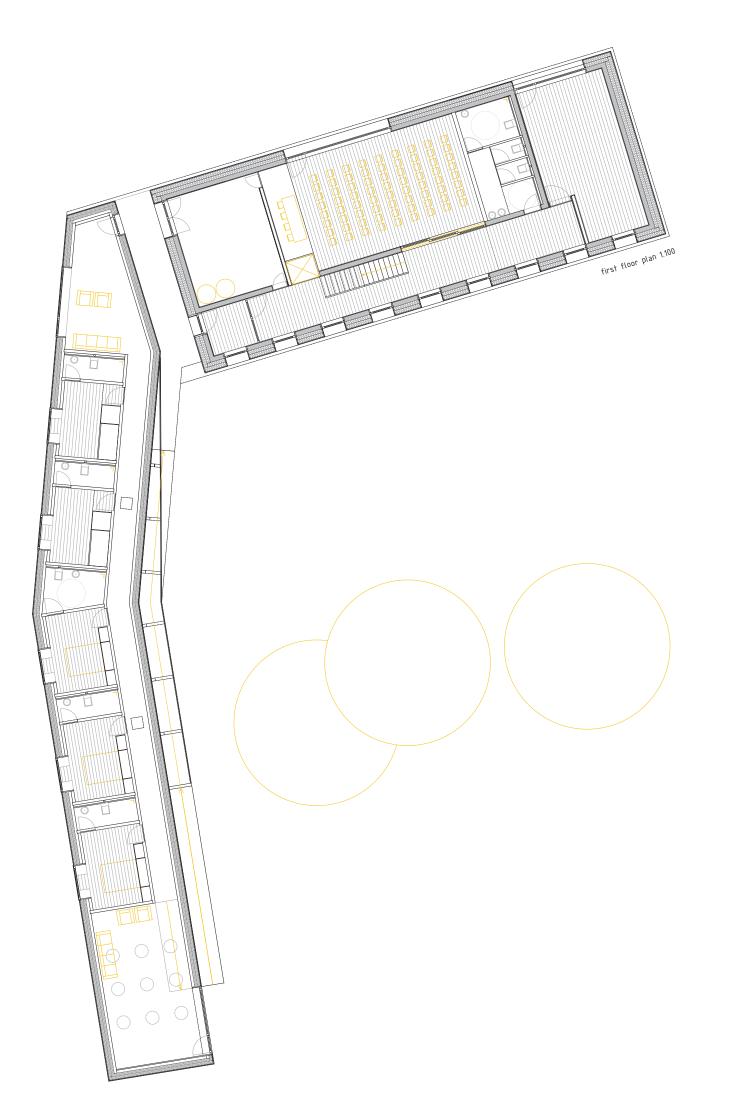
LINESØYA PASSIVE HOUSE. ANDRÉ ALMEIDA, CYRIL CHABAUD, MAFALDA MAURÍCIO. MAY 2010

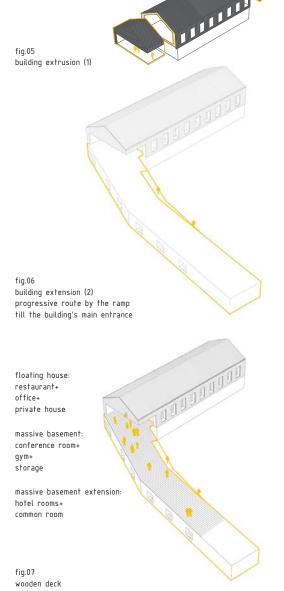


Linesøya thinking a building as a living organism

LIPA. LINESØYA PASSIVE HOUSE. ANDRÉ ALMEIDA, CYRIL CHABAUD, MAFALDA MAURÍCIO. MAY 2010

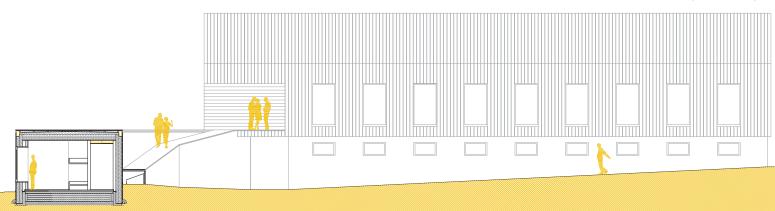








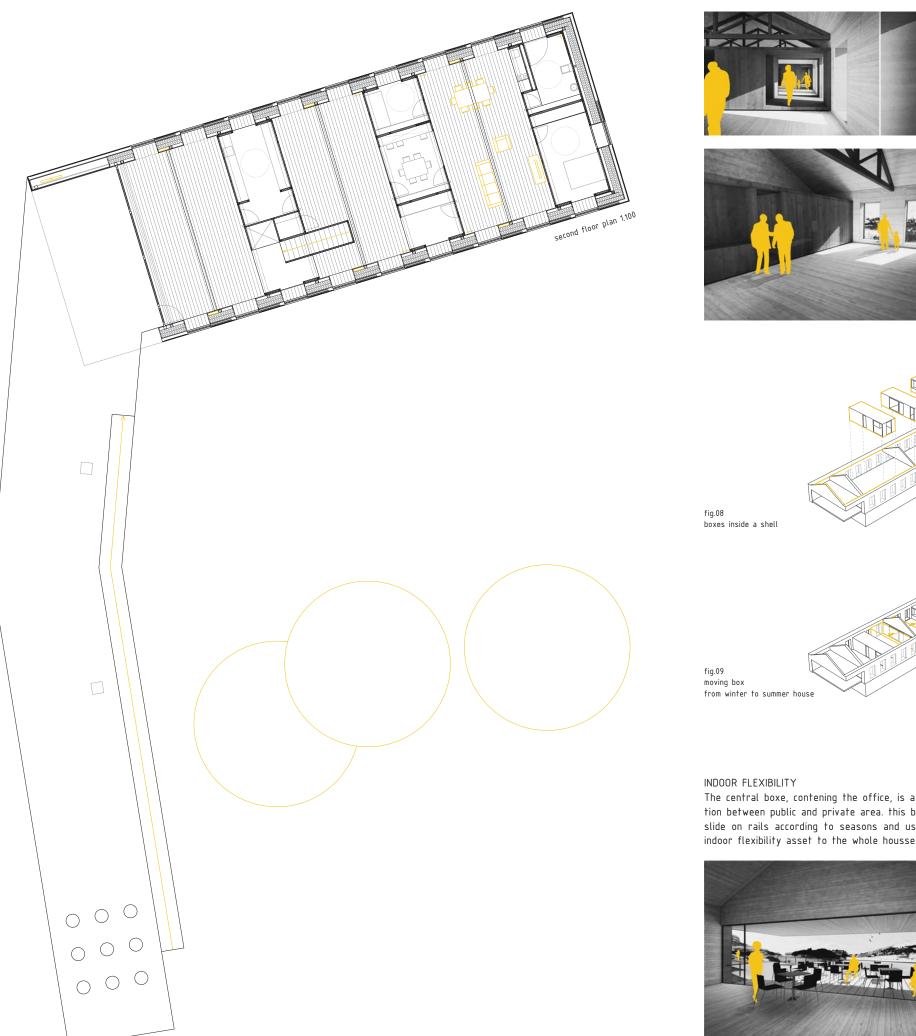
WOODEN CAVE the hostel is like a cave, sculpted into wood. furnitures like beds and benches are also objects participating to this specific atmosphere.



PANEL 2/4 section aa' 1.100

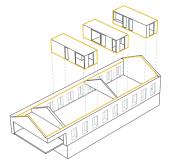
Linesøya thinking a building as a living organism

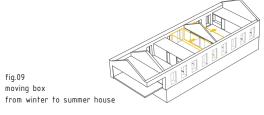
LIPA. LINESØYA PASSIVE HOUSE. ANDRÉ ALMEIDA, CYRIL CHABAUD, MAFALDA MAURÍCIO. MAY 2010





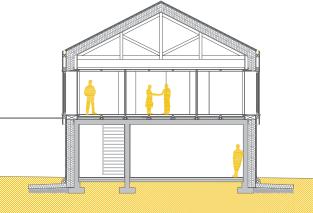






The central boxe, contening the office, is a soft transition between public and private area. this box is able to slide on rails according to seasons and uses, giving an

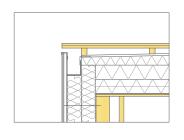


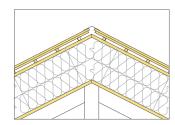


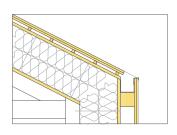
大京

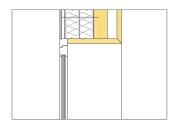
Linesøya thinking a building as a living organism

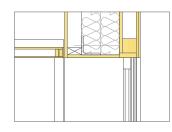
LIPA. LINESØYA PASSIVE HOUSE. ANDRÉ ALMEIDA, CYRIL CHABAUD, MAFALDA MAURÍCIO. MAY 2010

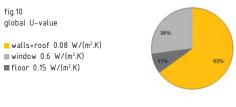












AIR TIGHT AND SUPER INSULATED ENVELOPE

window 0.6 W/(m^2 .K) > Global U value = 0.1554

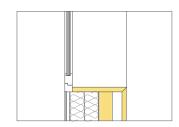
stays under 0.6 W/(m².K)

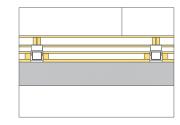
reach energy issues.

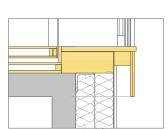
fig.10

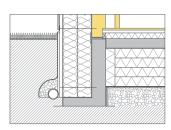
The project focuses on materials rather than sophisticated high-tech systems. The thick hight performance wall leads to a passive housse as long as window U value

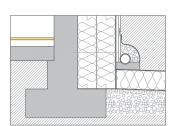
Super insulation and hight level of detail are the way to











MULTI-LAYER FAÇADE

A multi layer facade: window, shadding system and opaque layer create a project matching with season and weath-

wooden cave detail

roof construction: wooden deck deck structure waterproof barrier tilted insulation 3% eps insulation 150+150mm steel slab vapour barrier wooden ceiling



wooden cladding wooden joist windproof barrier rockwool insulation 20+20mm vapour barrier wooden structure interior wooden cladding



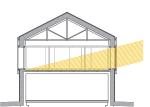
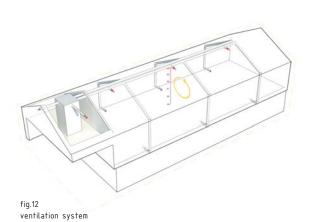
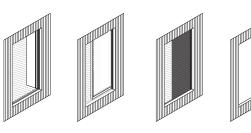


fig.11 summer and winter sun - shading system

wall construction: cement 20mm higroscopical panel 30mm windproof barrier rockwool 300mm vapour barrier solid wood wall

floor construction: wooden pavement 20mm pavement structure 30mm eps insulation waterproof barrier eps insulation 4x100mm sand 100mm gravel 150mm compacted soil





totally opened, glass layer, shading layer, opaque layer



PANEL 4/4