

E c o w e e k 2 0 1 0



g r e e n c u b e

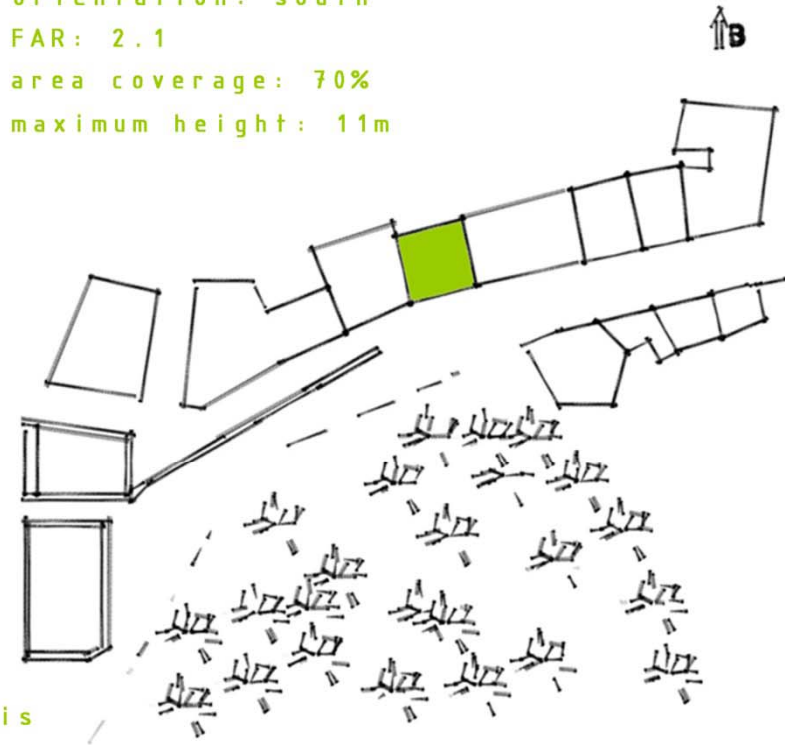
W11-workshop [Tombazis AN & Associates]

chatzi eleftheria  
kekatos dimitris  
kotsilini margarita  
lytra victoria  
michailidou vasiliki

site:thisio\_akamantos 26



plot area: 120sq.m.  
orientation: south  
FAR: 2.1  
area coverage: 70%  
maximum height: 11m



location: near thisio metro station, under Acropolis

access: through central roads

view: Philopappou hill

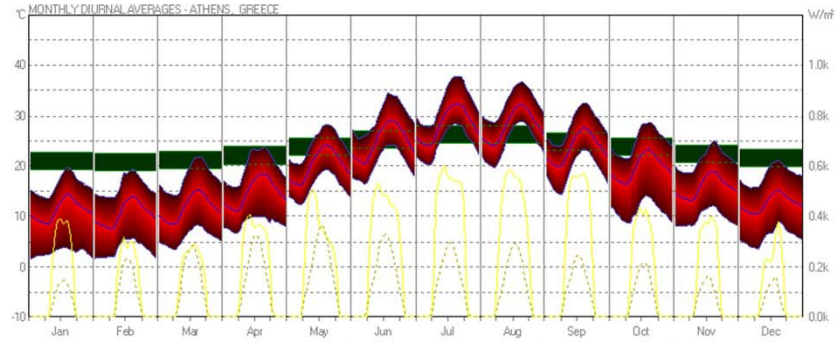
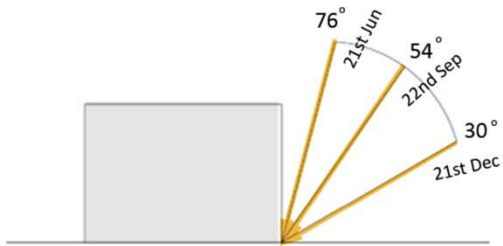
surrounding area: residences, cafe-restaurants and shops

area character: citizen-friendly, many pedestrian roads

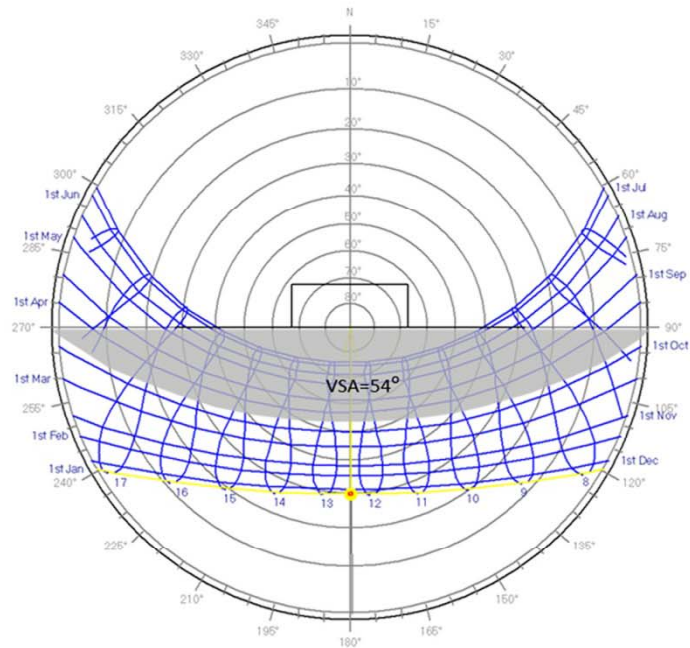
site analysis



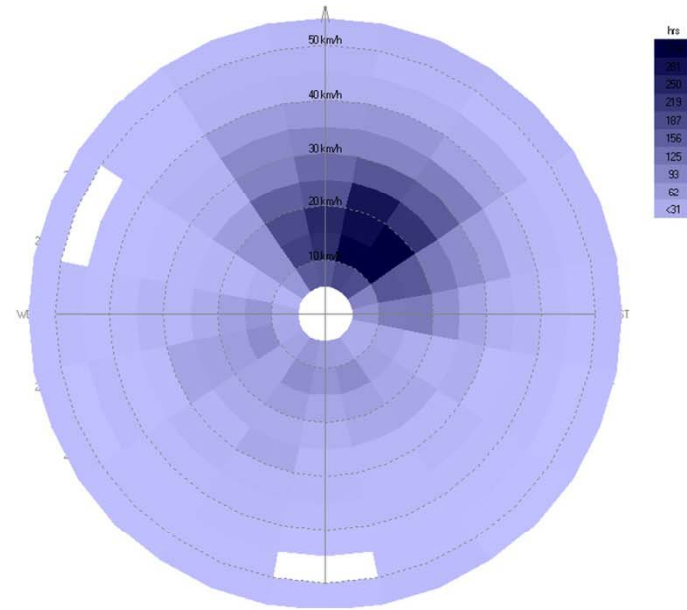
yearly altitudes



temperature:monthly diurnal averages



shading mask



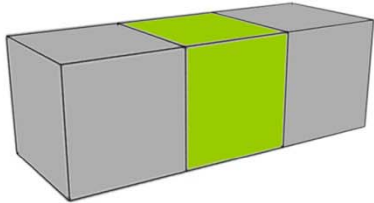
wind frequency

climatic conditions

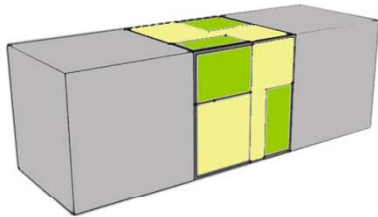


main idea

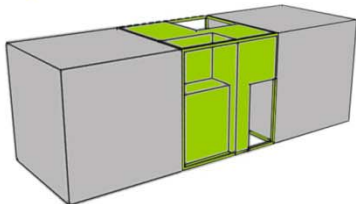
the cube



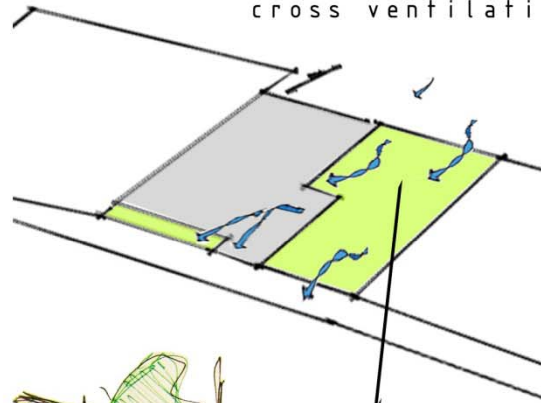
subtraction



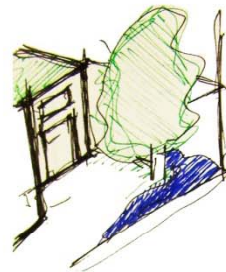
'green house'



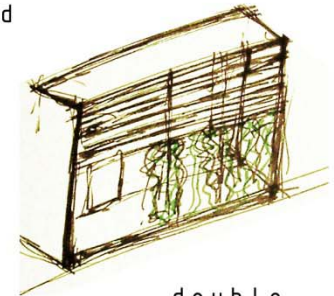
natural cross ventilation



green space with water element for microclimate

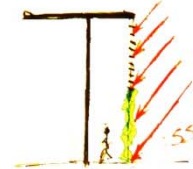


winter period

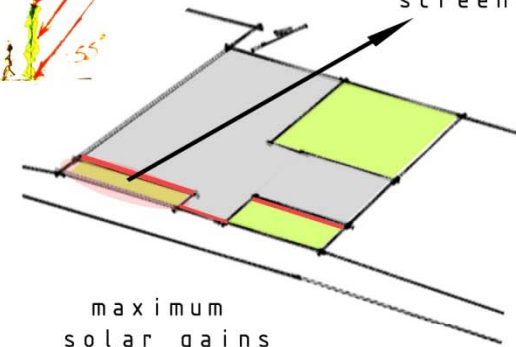


double screening

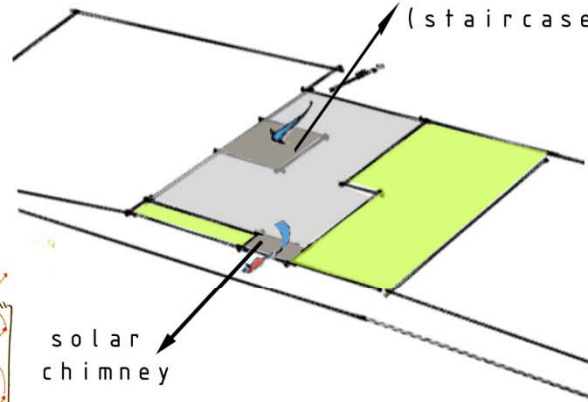
summer period



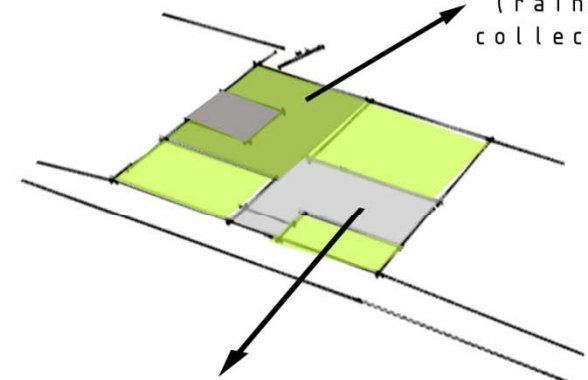
maximum solar gains



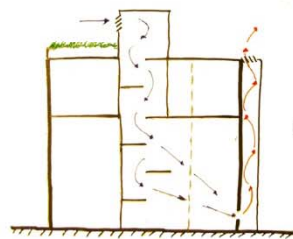
air duct (staircase)



green roof (rainwater collection)



solar chimney



cooling strategy

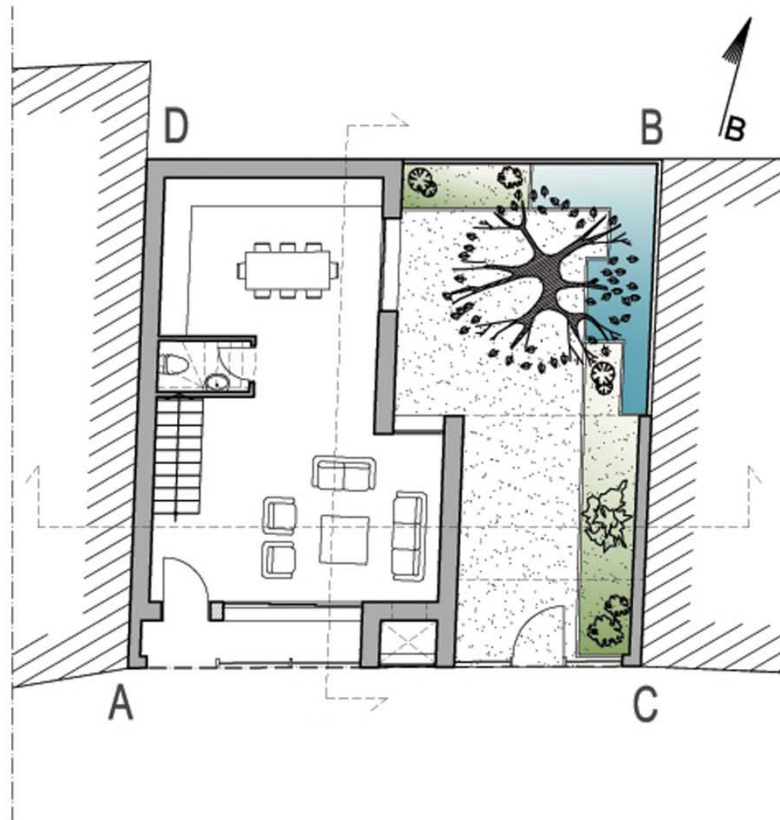
photovoltaics

design concept

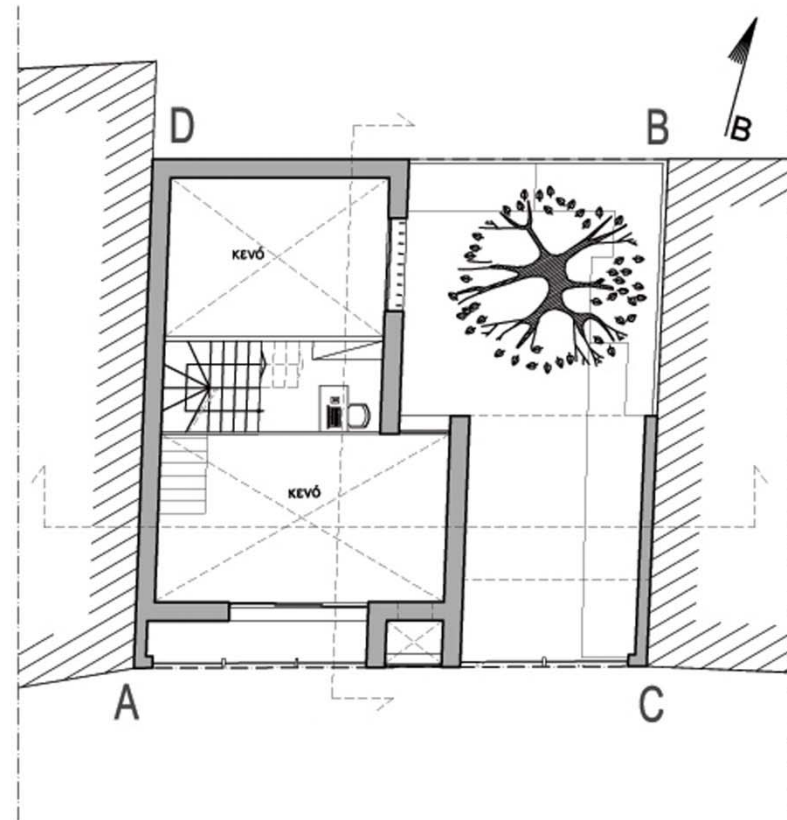




level 0



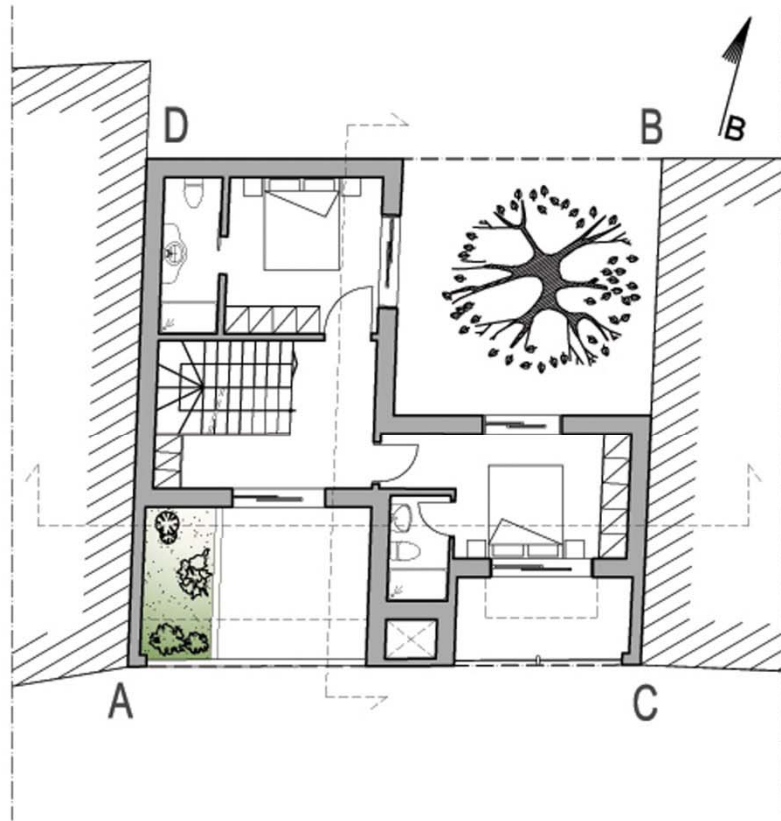
level 1



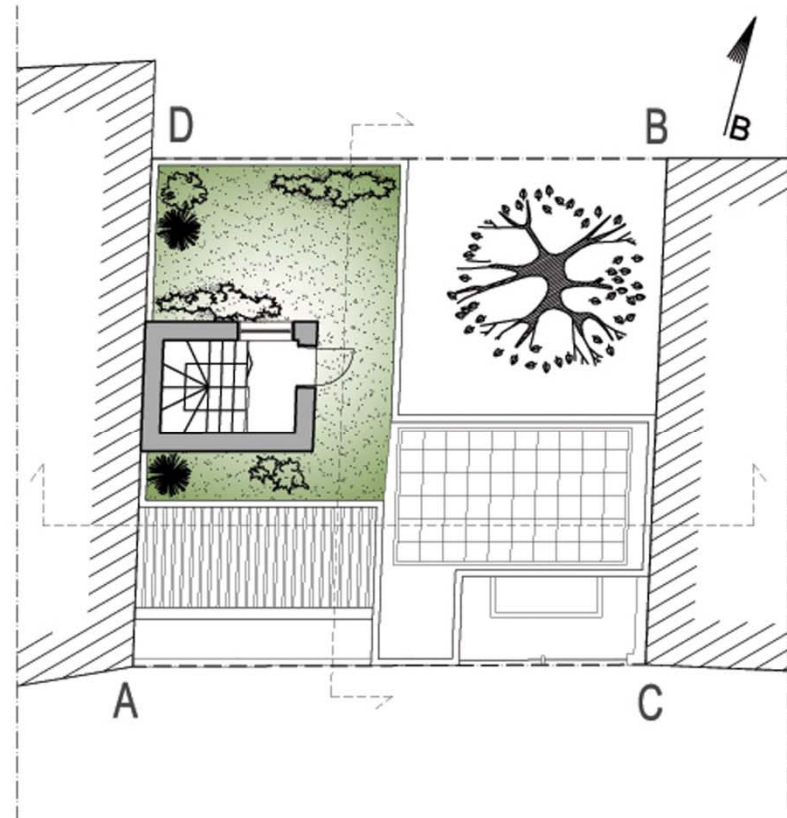
plans



level 2



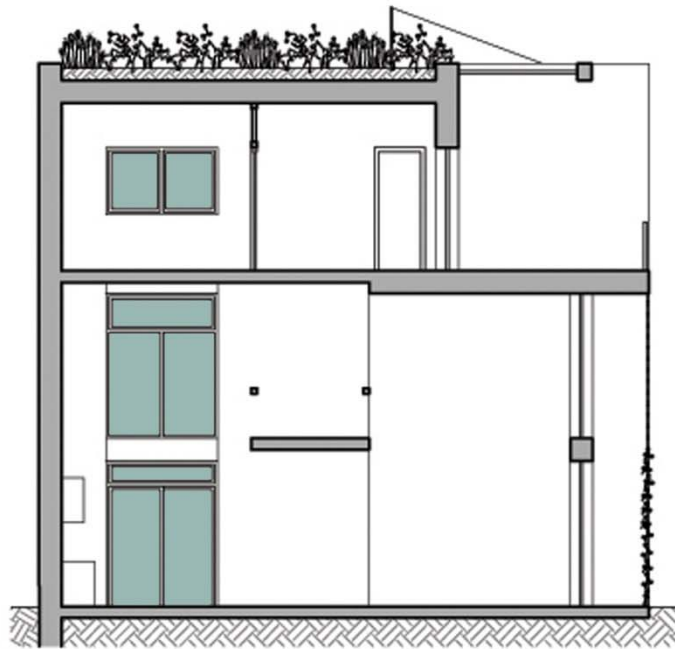
roof plan



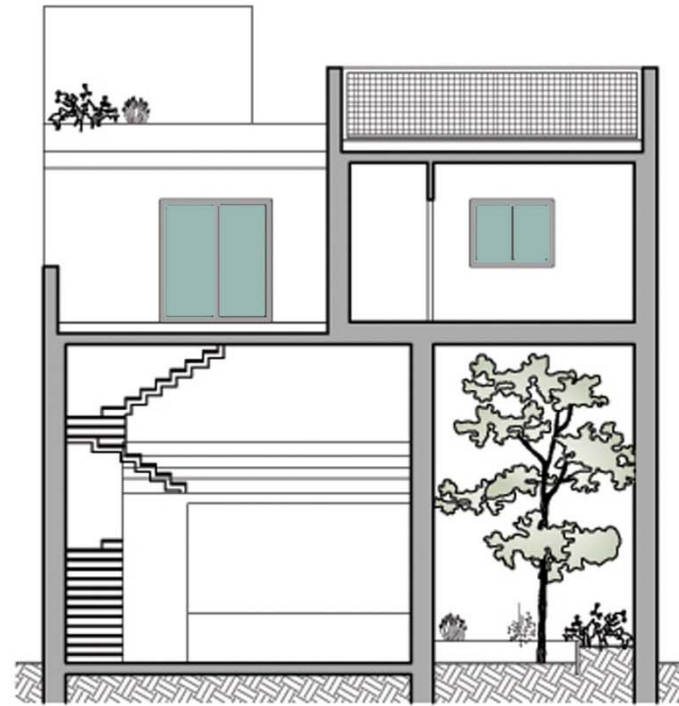
plans



longitudinal section



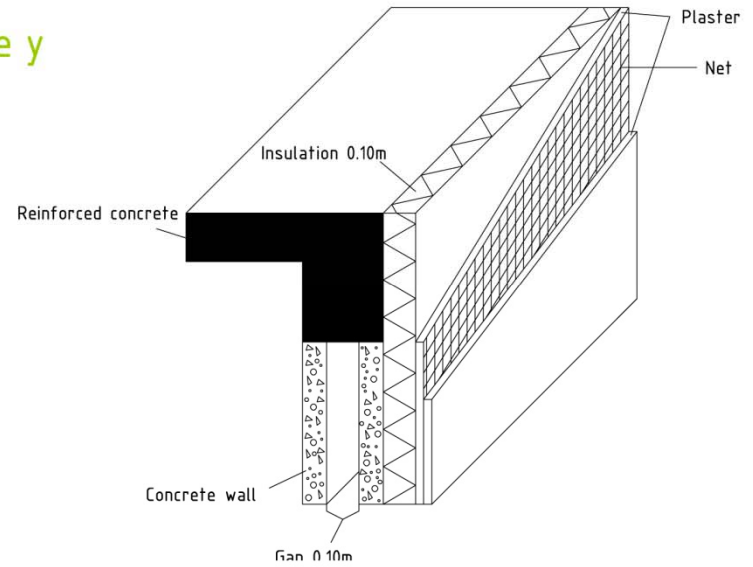
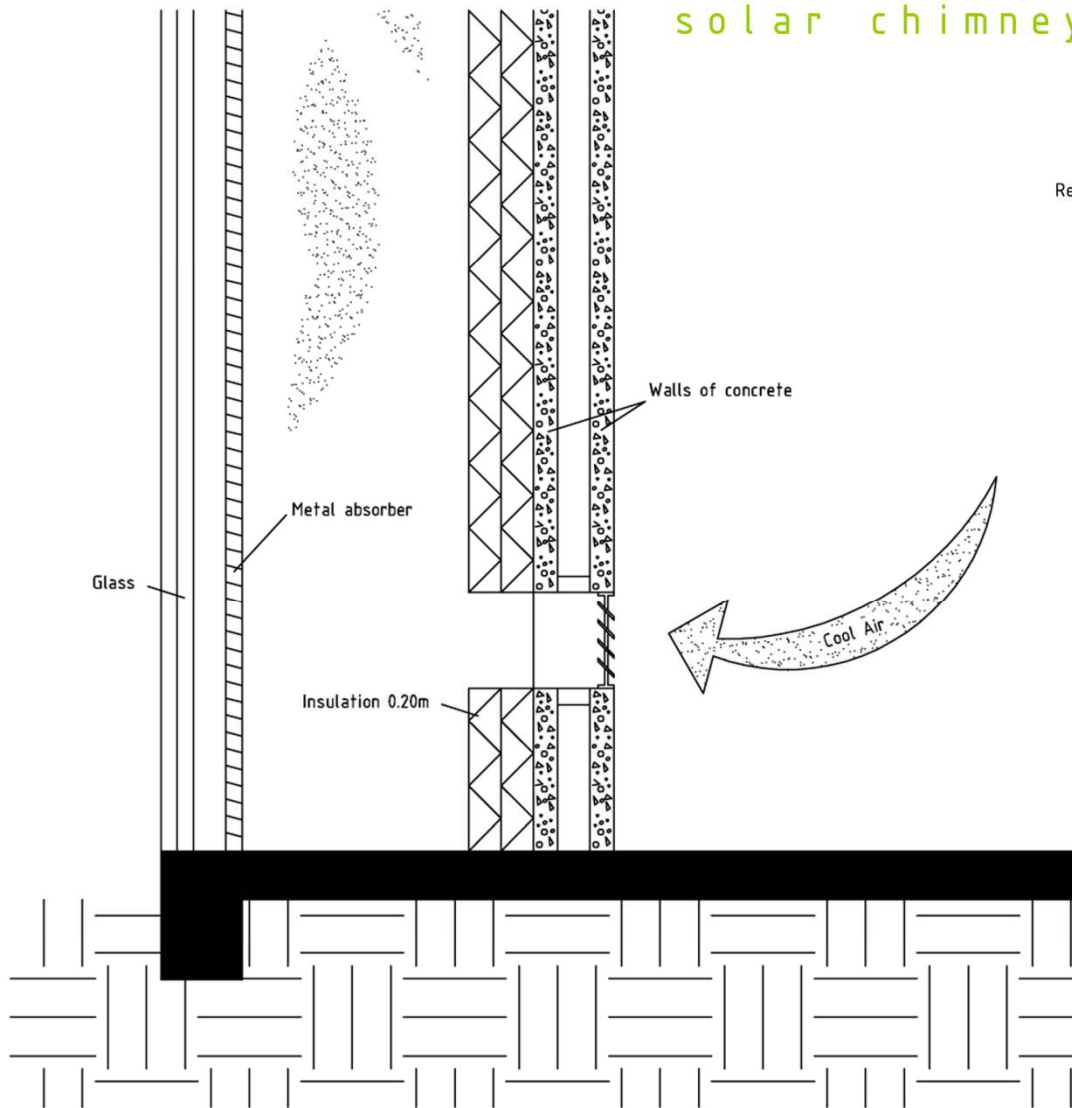
cross section



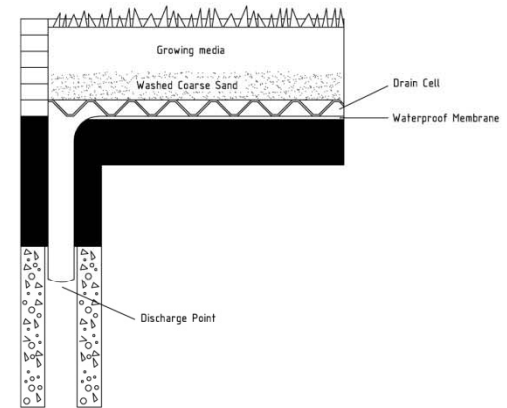
sections



# solar chimney



# detailed wall section



# green roof detail

# details







images



t h a n k   y o u

