

6. Situation of the Building

6. Situation of the Building in the Landscape

- Site Characteristics
- Building types from the building design aspect
- Kind of building
- Favourable building sketch

Site

Wind

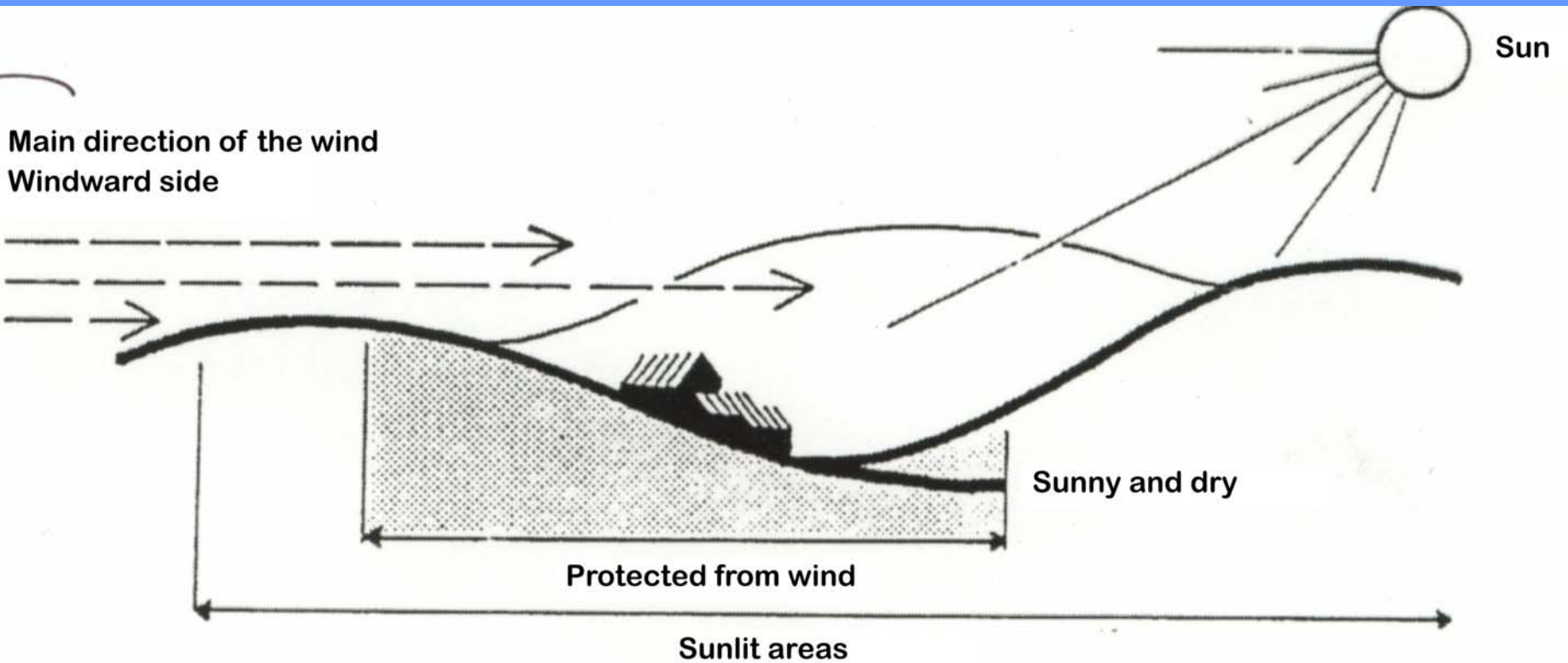


Main direction of the wind

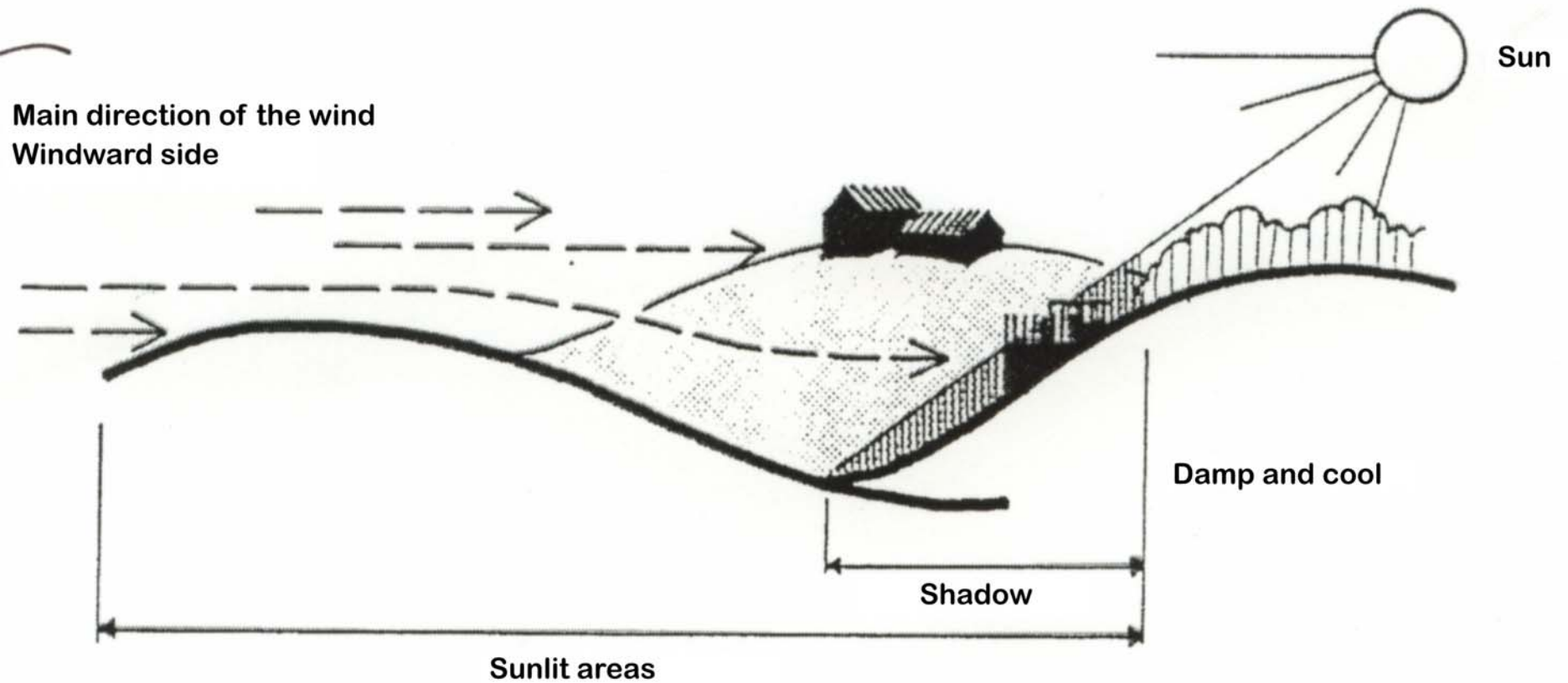
Location of the building in terrain

a)protected, advantageous position, b)unprotected, disadvantageous position

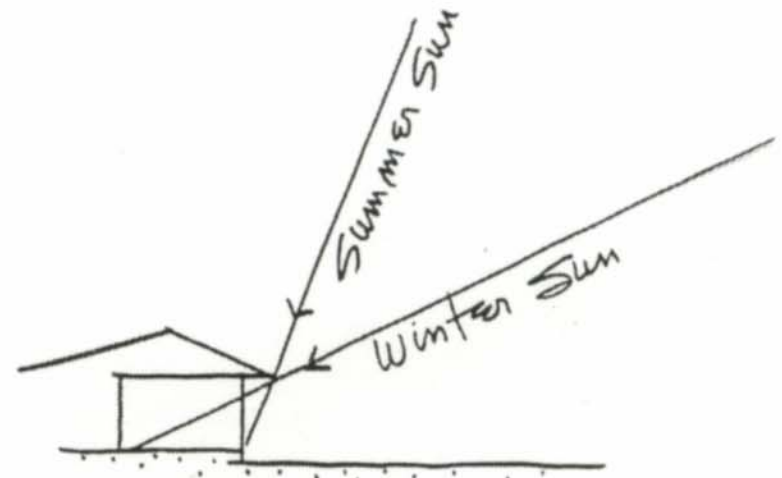
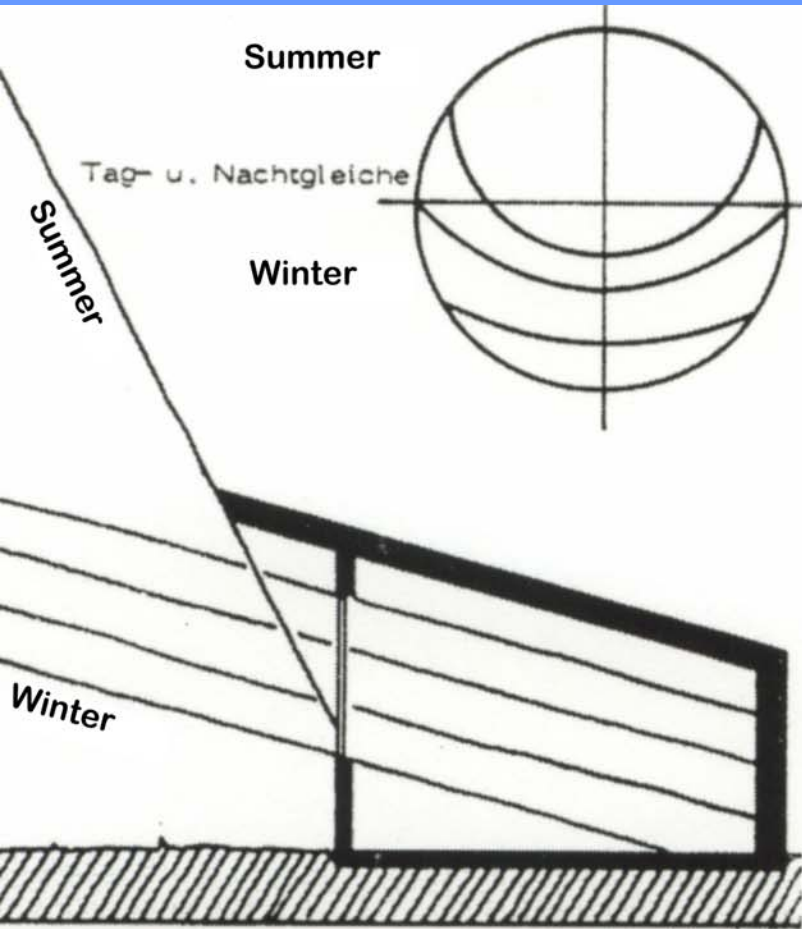
Wind



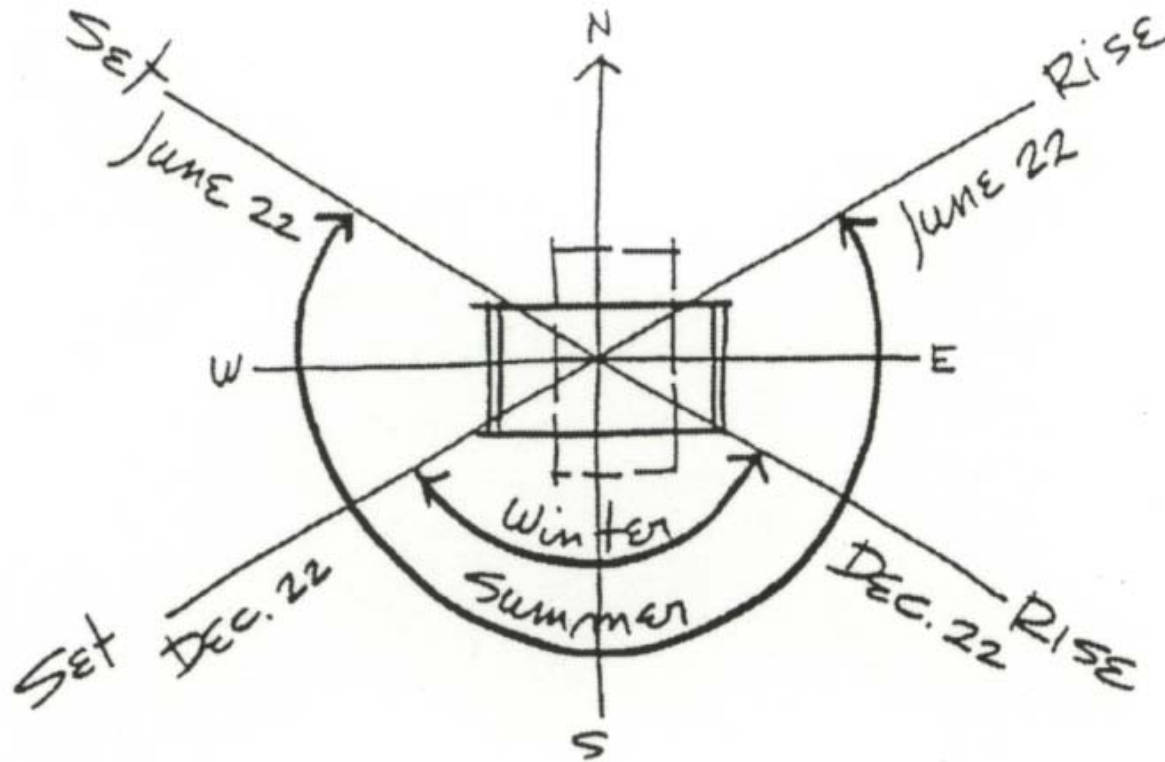
Wind



Sun exposure



Sun exposure



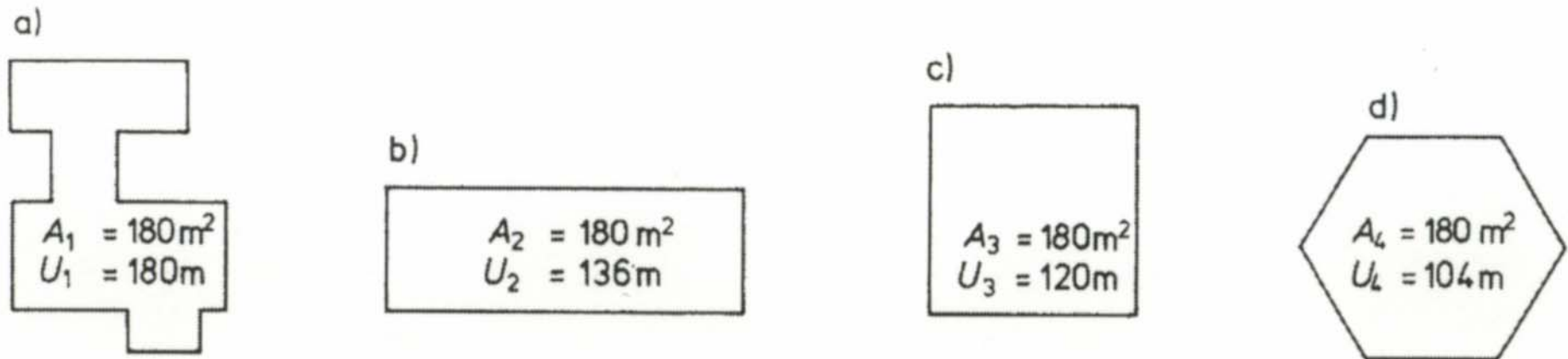
WARMER IN WINTER, COOLER IN SUMMER

Building types from the building design aspect

“Warm buildings”



Shape of building

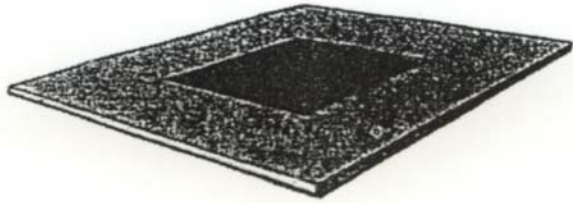


Different building forms with the same size of the footprint

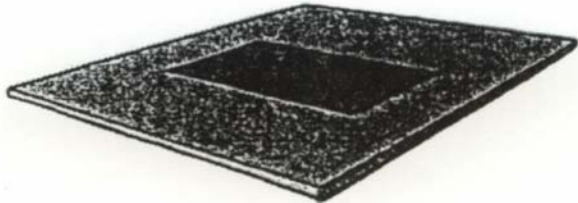
- a) highly structured floor plan with 50% more exterior surface as the building c)
- b) rectangular, elongated floor plan with 13% more exterior surface as the building c)
- c) quadratic, energy-saving floor plan
- d) hexagonal floor plan with 13% less exterior surface as the building c)

Favourable building sketch

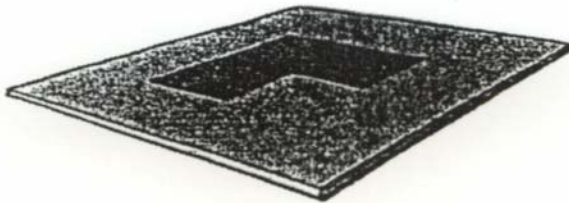
The floor plan area with the same length of the outside edges (40 m)



Square, area 100%



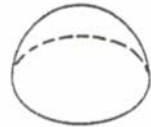
Rectangle, area 89%



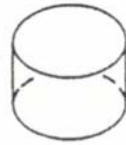
Angle, area 75%



Rectangle with the cuttings, area 72%



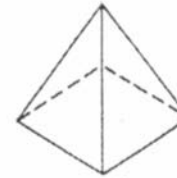
96%



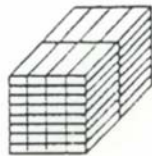
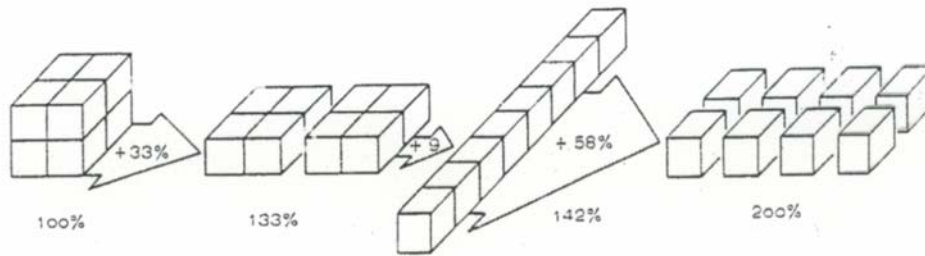
98%



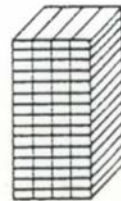
100%



112%



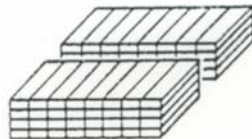
100%



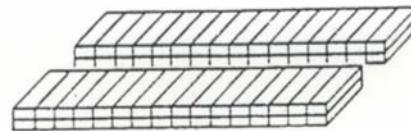
117%



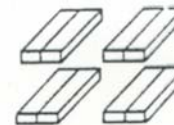
117%



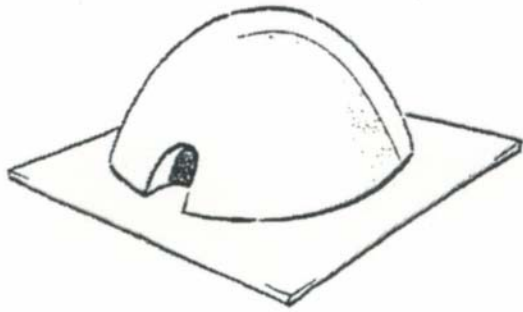
150%



208%



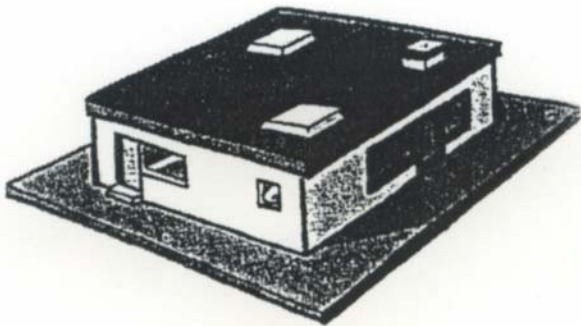
400%



Ideally: Iglu (hemisphere) AV 0,78



Normally: $1\frac{1}{2}$ - storeys
Attic wall 60cm,
Roof 45° AV 0,82



Extremely: Bungalow
1 storey AV 1,01