Drainage system

General rules of inclination

- polystyrene foam: 2,5 %

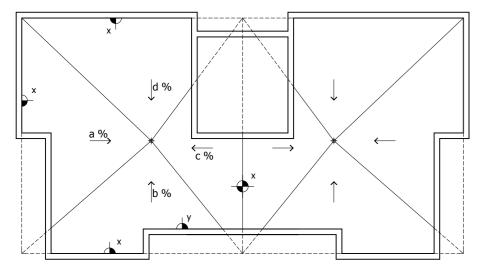
5.

6.

- timber board inclination ≥4 %.

- loadbearing slab with wide span ≥3 %

S ~ 1:200



Generally the minimal inclination/roof pitch is 2 %, in case of valley minimum 1 %.

The inclination system, the substructure in point of the materials: concrete screed, lightweight concrete

If the above mentioned minimal inclination percentages cannot be fulfilled, the flat roof is a special

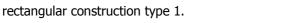
screed, lightened concrete screed with thermal insulation boards, inclined thermal insulation,

The minimal inclination according to the material of the substructure:

The farest point of a water collecting area from the gully is 12 m.

The roof upstands (vetilation, rooflight elements) cannot be in the valley.

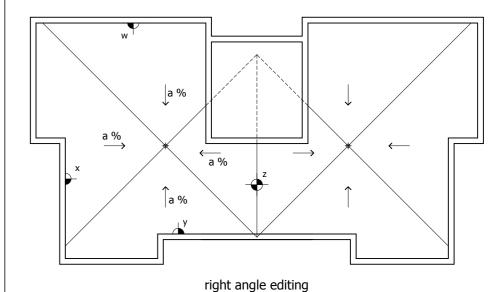
construction and the quality of the waterproofing should be improved (number of the layers, overlapping, thickness of the membrane etc.).





rectangular construction type 2.

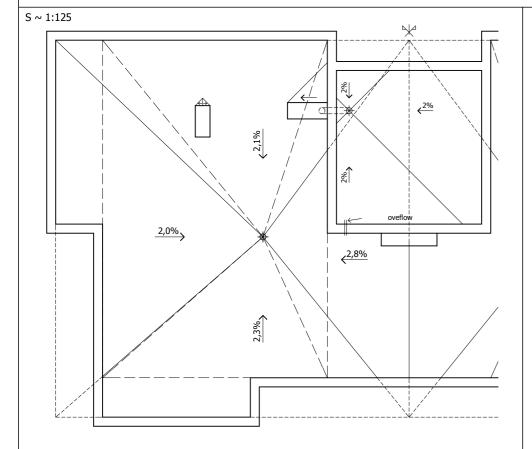
- There should be minimum 2 gullies or 1 gully and 1 safety overflow unit in a flat roof.
- should be increased around the gullies.

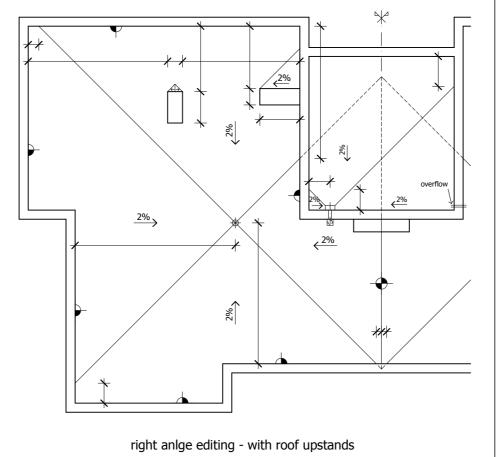


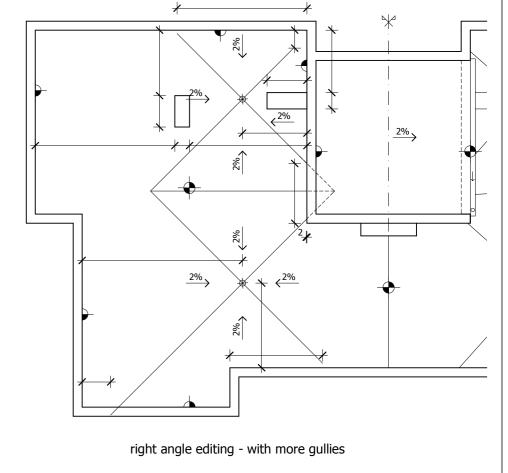
- 7. The water drainage can be ensured externally (by gutters) or internally by gullys (rainwater outlet).
- In case of concrete screed or thermal insulation substructures the slope of the roof
- The distance of the gullies measured from the attic walls, roof upstands etc. is minimum 50 cm.
- Maintenance operations cannot be hindered at the gullies.
- The maximum water collecting area is 150 m2, in case of gravity roof drainage.

Dimensioning

- dimensions of roof (whole size, and corner points)
- the place of the roof upstands/chimneys
- the place of the gullies/outlets
- percentages of slopes
- level indicators of every high and low points
- area of the water collecting area









rectangular construction - with roof upstands