



Project: office building Kotkapoja2a, Tallinn, Estonia
Hendeck™ elevated floors
July-August 2006

4-floor office building with unregular triangle ground layout. Except in the elevator shaft there's no rectangle in the hole building. All the slabs are realized as elevated flat slabs of steel fibre reinforced concrete. The slabs are supported by columns, the elevator shaft and the staircase walls. The building was finished on 31st of October 2006.



fast installation:
except some Anti-Progressive-Collapse-Reinforcement in the bottom layer no additional reinforcement installed. APC-rebars were installed on the day of pouring in the morning



Severstal-metiz design-service
Design done according to DIN-standards on steel fiber reinforced concrete with regard to theory of plasticity.

Project: office building Kotkapoja2a, Tallinn, Estonia
Hendeck™ elevated floors
July-August 2006



The office building is located in the heart of Tallinn, the capital of Estonia. The foundationslab was realized as a ground supported slab of steel fibre reinforced concrete (sfrc) with a thickness of 80cm. The 4 elevated slabs were also realized with sfrc and minimized traditional reinforcement.

Each floor has a surface of 360m². The slab thickness could be reduced from 25cm to 22cm in comparison with a traditional solution. The used concrete was a modified C30/37 XC1 F6 GK16. The fibre content was 100kg/m³ of an undulated fiber 1,3/50. The general contractor was Basic Ehitus OÜ, the owner is Graham Kinnisvara OÜ. The architectural design was made by RAP architects.