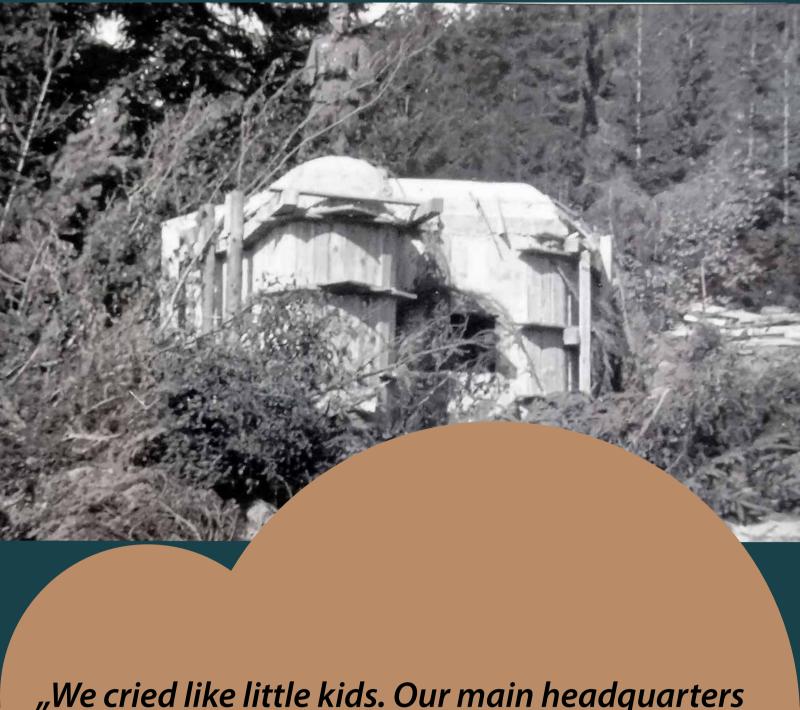
CONSTRUCTION OF THE NEW TYPE LIGHT FORTIFICATIONS - "ROPÍK"

PREPARING FOR CONSTRUCTION

Building of light fortification called "řopík" started with determining of course of trail. **Exploring of terrain and setting object** followed, Solvent firms were addressed for the building. Conditions were Czech citizenship, state and moral reliability. The winner was usually the cheapest one. He had to give 5% guarancy. Armature iron, concrete and armour parts were given by army management. Army officer was commissioned with constructing supervision.



....instead of defence of Czechoslovakia I lived to see Munnich betray with taking part of the

Allies and this way bad disappointing for our

entire nation...."

Constructing works begun with digging,

preparing of background and bringing the

material. Digging was handmade. Material was brought by railway and then by horse vehicles,

CONSTRUCTING WORKS

was cursed."

here and there by lorries. There was centre for concrete workers and stored sand and gravel. Cement was brought from the main store. It had reduced development of hydrating warm and prolonged time of solidification. Pre-prepared formwork and armature were finished just at the construction. Water was brought or taking from watercourses. Formwork from desks (33 mm thick) and tied armature from circular steel (10, 15, 20 mm diameter) were put on the prepared concrete or gravel ground. Steel parts like shooting windows, periscope tubes, grenade slides, and door frames and so on were placed where necessary in the same time. Cover of reinforments with concrete cover was 3,5 to 5 cm. **FINISHING** Taking formwork off started 28 days after concreting and making concrete wet. The roof was covered with asphalt isolating strips. Plaster

was waterproof (where it touches soil), the floor

was made from 2 cm concrete. Very important

work was to make some landscaping – putting

Painting and equipment followed. In the end

some quarry stones in front the forehead wall, covering the roof with clay and sowing grass.

acceptance by supervisor and billing were done.

CONCRETING Concreting of common object took about 18 hours. There were used 400 kg of cement, 600 litres of crushed stone 40/60mm, 300 litres of crushed stone 20/40mm and 390 litres of sand 0/10 mm for one cubic metre of concrete mix. Put in mix was necessary well tamp dow with layers 15 cm. It was allowe to use attaching vibrators.

Full amount of concrete for one object was about

65 cubic meters and 4700 kg armature iron. There

were made three concrete test cubes from each object with presence of supervisor and representative of the construction firm. After 28 days there was tested strength of concrete which had to be minimum 45 MPa.destens 45 MPa erreichen musste.

