1. Introduction

The Police of the Czech Republic has never had this type of training area or any similar one. Police officers of special units trained in improvised conditions or travelled abroad after the consent of foreign police bodies in order to train intervention in the most realistic conditions and occasionally compare abilities and training methods with those of special units of foreign law enforcement bodies (e.g. in Lest in Slovakia). The below described training facility is an area especially designated for special units trainings of the Police of the Czech Republic (e.g. Rapid Response Unit, Intervention Units of Regional Police Directorates, Prague Emergency Mobile Unit, Special Public Order Police Units, Regional Public Order Police Units, etc.) and by prior agreement also for members of Emergency Fire Brigade of the Czech Republic, Special Military Forces of the Army of the Czech Republic, Intelligence Services of the Czech Republic etc. The Public Order Police Service Directorate guarantees, administrates and operates the project and is in charge of the registration system [1]. The directorate has issued an operational order for the area and it has provided staff responsible for the communication with the supplier of new windows which are necessary to replace those damaged during the training, then for preparation of situations concerning circumstances of the intervention, operational issues, professional supervision over group of trainees, efficiency of this facility and remedy of possible faults.

2. Project finances for the modern training polygon development

This project deals with a construction of a special training polygon, which will be used for the training of intervention units. It is located in Zbiroh in Western Bohemia. In December 2013, the Swiss approved to change the technology of the polygon to a high-rise building complex (Figure 1). Switzerland is represented in the project by the Swiss embassy in Prague. The total amount exceeds CZK 13 million. The project realisation team was established according to the Police President Order No. 131/2013 [1]. The Project is currently operating at full capacity and it was ceremonially opened in February 2016 with the attendance of the police president and the director of Emergency Fire Brigade. The Project was approved based on a long-standing request of police officers from intervention units for a special simulator, which would enable them to train situations in the most realistic conditions that could occur day by day during their police work. The lack of such a polygon in the Czech Republic was evident, as members of the intervention units had to train on provisional simulators and in situations realised within shooting range areas. The need to fire at targets...
of intervention units from the whole country solemnly tapped on the cornerstone in February 2015 (see Figure 2).

3. Location and situation in the rooms of the simulator

From a technical point of view, it is a high-rise building complex providing a necessary simulation of the environment. The traverse steel construction is installed on the roof, allowing this construction to sufficiently simulate a real usage of a helicopter, as well as to train any necessary techniques.

The ground floor of the simulator building is in a form of a rectangle 27.35 m x 14.05 m and it is designed as a five-floor building, approx. 14 m high, without any basement. Bigger part of this facility is roofed from the second floor, where the steps are located. It has an elevator shaft and a training shaft with imitations of installations (see Figure 3). The northern part of the building above the flats is roofed over the fourth floor. The roof above the flats is accessible from the staircase of the fifth floor which extends over the roof area.

The main entrance to the building - behind the spacious covered approach there is a glassed - in entry hall enabling the access to other premises downstairs. There are also rooms imitating the premises of a restaurant and a bar including their back rooms, a shop, and a store.

The control room is part of the first floor. It is the only room that is heat cladded from the inner side and it is provided with the direct heating devices (see Figure 4). All floors are connected vertically by two areas of steps with a prefabricated staircase located in opposite corners of the building. The one - armed...
are imitations of wells. It is possible to enter the open space by a climbing pipe as well as to enter the cellar part.

The third floor is divided by the flat roof over the second floor with a partial attic. It is divided into two parts of towers of the area 6.3 x 5.6 m with a two-armed staircase, an elevator shaft and an open space with a climbing pipe and a part imitating block of flats with a one-armed staircase and two flats (see Figure 6). The bigger flat with a loggia and a balcony is a duplex flat type vertically connected with a steel circular staircase. On the roof, there is a movable construction of a saddle roof with eaves and a dormer-window. The roof is latched in three positions, i.e. at the end of the roof and in the middle, where the western end of the roof is latched without an attic and it also covers the open construction of the imitations of wells. The vertical steel lattice construction is fixed into the construction of the roof over the second floor. This part of the steel constructions set is designated for hanging and rolling during various intervention tactics trainings of special units.

The space of the tower is dispositionally resolved on the fourth floor in the same fashion as on the third floor and it is ended with a flat roof without an attic. The steel lattice construction is fixed into this roof with rails and supporting function for the mobile lattice construction - a footbridge. In the northern part of this
a helicopter board is fixed to the roof over flats (see Figure 8). The roofs of various heights is accessible not only from the towers’ doors and from the staircase in the northern part, but also by steel ladders fixed into encircling walls and by industrial lattice constructions. In some places roof edges will be equipped with a low banister to provide additional gripping when going down the rope.

The facade of the building is provided with a variety of surface treatments and colourings because of training purposes. The eastern facade is painted on ferroconcrete, the northern one is faced with wooden oak boards and the western and southern walls are provided with the contact heat cladding with the use of a facade polystyrene of 50 mm + the silicate plaster of the RAL 2012 colour (salmon orange - see Figure 9).
4. Intervention units of the police of the Czech Republic

Intervention unit members are in brief very well-trained police officers of special units designated for interventions mainly against armed offenders and organised crime (often both), who are aware of the extent and especially punisblesness (sentencing) of their actions and therefore not willing to give up, they resist actively, very often using firearms; they also have the necessary technology to protect themselves from being detected and detained. The Police of the Czech Republic has in total 8 seats of intervention units in the whole country, each of them has several tens of police officers with special equipment and they are directly subordinated to the deputy regional director for an external service in the following regions:
- Moravia and Silesia,
- South Moravia,
- South Bohemia,
- Pilsen,
- Usti nad Labem,
- Hradec Kralove,
- Central Bohemia,
- Capital city of Prague.

The deputy regional director for external service is directly subordinated and responsible for the activities and the fulfilment of tasks of the intervention unit to the regional director (to be exact, to the director of the regional police directorate). Intervention units are deployed not only on the territory of one region, but they are prepared to go to other regions beyond their service territory. Intervention units still have their competences according to the original format of borders of the so-called police regions, as this system was effective in the Czech Republic in connection with the original layout (e.g. Intervention units of the Moravian and Silesian Region perform their activities also in the territory of the Olomouc Region - originally the territory of the North Moravian Region).

5. Conclusion

This report introduces information about the effort of the Public Order Police Service Directorate of the Police Presidium of the Czech Republic to create plans and to help by the project grants to build a polygon assigned for special police unit trainings, especially for intervention units (see Figure 10). This type of a training area has not been available up until now in this form and in such complexity within the whole territory of the Czech Republic. The whole project cost approximately CZK 20 million. We would like to thank the project donator, the country of Switzerland, for its cooperation and financial support, without which this project could not have been realised. The integral part of the project includes also a brief description of the organisation and seats of Intervention Units, in order to gain more comprehensive insight on the topic.

References:
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[3] HRINKO, M.: Public Order Police Service Directorate - Methodology and Support of the Public Order Police (Monographic Publication). Mining University - Technical University of Ostrava, Printing Office of the Ministry of Interior of the Czech Republic, Prague, p. 160, 2015 (in edition).