

Reconstruction of the Warehouse complex at the Ādaži Military Base, Kadaga, Ādaži region, Latvia

The Design envisages a reconstruction of the territory of the existing warehouses and construction of 8 new ammunition warehouses, a shed for charging and storing vehicles, driveways, maneuvering areas, a back-up exit and a reconstruction of the existing perimeter fence. The project is related to a parallel separately developed 4 warehouses construction project within the same territory, which will be implemented within a separate contract. Plot area: 6014.3 ha.

The area is in the territory of the Ādažu military landfill. Currently, 12 warehouses covered with earth in a fenced area are already in use on the plot of land. During construction work, the warehouse buildings are planned to be operated in the territory, for provisioning their functionality have been developed solutions in the Work Organization project.

The building design envisages the expanding of the existing fenced area, reaching 1120m of perimeter.

It is also planned to build new driveways and maneuvering areas that will serve the warehouses to be built, linking carriageways to the existing part of the territory in one complex. The buildings are intended to be connected to existing networks, partially also anticipating for their reconstruction.

Technical economic indicators

Warehouse buildings according to general building regulations are group 3 buildings (warehouse buildings with an estimated fire load is greater than 600 MJ/m²).

Shed - 2nd group building.

Building area 1777.6m² (207.2x8 warehouses+120 shed).

Warehouse technical parameters and solutions

Warehouses solutions according to the building design are based on the US ARMY CORPS OF ENGINEERS HUNTSVILLE CENTER developed and DEPARTMENT OF DEFENCE EXPLOSIVES SAFETY BOARD (DDESB) approved ECM design MODULAR STORAGE MAGAZINE, BOX-TYPE STD 421-80-07 WITH 10'-8" DOOR.

Warehouse overall gauge size are 7.620 x 24.000m, h3.35m.

Building area of one warehouse is 207.2m².

Intended two types of warehouse: type A - single-volume warehouse buildings and type B - warehouse buildings divided by two bulkheads into three identical rooms.

Warehouses demarcated constructions are as follows:

- monolithic foundations;
- folding reinforced concrete wall panels
- folding reinforced concrete cover panels,
- folding reinforced concrete wall panels partitions(for type B),
- monolithic reinforced concrete support wall (front facade).