

REMOVAL OF PHREATIC WATER EXCESS OF THE BASEMENT CONSTRUCTIONS LOCATED ON SLOPING LANDS

Oprea RADU¹

Email: opricaradu@yahoo.com

Abstract

In order to insure a high stability and a normal exploitation of a building, both the land and the foundation must fulfill certain conditions, that is the foundation has to be strong and dry. The underground waters are mostly guilty for the problems and damages caused to the civil and industrial constructions, both in the construction's execution phase and during their utilization and exploitation. In this paper, we present a method for removing water excess deriving from the underground water, but also of the rain water coming from the roof of the building and from the sidewalks. By executing an appropriate drainage for the basement constructions, we insure water removal, the hydrostatic pressure exercised on the walls is reduced, the formation of mildew and dampness is avoided, which allows an appropriate use of the basement spaces.

Key words: excessive humidity, building drainage, drainage tube, filtering prism, geotextile

¹ USAMV Iași