TALLINN UNIVERSITY OF TECHNOLOGY

Department of Civil Engineering and Architecture
RESEARCH AND TESTING LABORATORY OF BUILDING MATERIALS
Accredited by the Estonian Accreditation Centre reg nr L004

Customer:
AS Uninaks

Forelli11
10612 TALLINN

26.11.2018

Experimental Report N° 976/18

Assignment: Determination of depth of water penetration into concrete under pressure.

Concrete designation: Concrete specimens 15x15x15 cm, marked as **Waterproof Concrete C40: 25.10.18**, 4 samples.

Forwarded to the laboratory by customer on 02.11.2018.

Test method: EVS 12390 Testing hardened concrete.
Part 8: Depth of penetration of water under pressure.

Water was applied under pressure (500±50) kPa for (72±2) h to the surface of hardened concrete cubes. The appearance of the surfaces of the test specimen not exposed to the water pressure was periodically observed during the test to note the presence of water. After the specified time, the cubes were split in half, perpendicularly to the face on which the water pressure was applied. The maximum depth of water front was measured and recorded.

Test results:

Determination of depth of water penetration into concrete under pressure was started on 23.11.2018. The presence of water on surfaces of the test specimen not exposed to the water pressure was not observed. Test resuts are given in following table.

Specimen designation		Maximum depth of penetration under pressure, mm
Waterproof Concrete C40 25.10.18 w = 0,124	1	18
	2	16
	3	23
	4	29

Maximum depth of penetration under pressure of concrete cubes, marked as **Waterproof Concrete C40: 25.10.18**, forwarded to the laboratory by customer on 02.11.2018 was **29 mm**.

The test results are valid to the described concrete test specimens only.

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