Project 1 Report

Building Materials and Construction-I (AE 111)

**Water Absorption Test on Bricks.**



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* **INTRODUCTION**

Water absorption test on bricks are conducted to determine durability property of bricks such as degree of burning, quality and behavior of bricks in weathering. A brick with water absorption of less than 7% provides better resistance to damage by freezing. The degree of compactness of bricks can be obtained by water absorption test, as water is absorbed by pores in bricks. The water absorption by bricks increase with increase in pores. So, the bricks, which have water absorption less than 3 percent can be called as vitrified. This test provides the percentage of water absorption of bricks and procedure of the same is discussed below.

1. **APPARATUS:**
2. **SPECIMEN:**

Three numbers of whole bricks from samples collected for testing should be taken.

* **METHODOLOGY**

**These are the steps through which the water absorption capability of the brick can be calculated.**

**1.Note the dimensions and weight initially:**

**2.Place in water (temp?idk) for 24 hours:**

**3.Place in oven at 120\*C for 24 hours:**

**4.Weigh again:**

**5.Calculate %water absorption thing :-):**

* **CONCLUSIONS AND FUTURE ENHANCEMENTS**
* **REFERENCES**
* [**https://gharpedia.com/blog/water-absorption-test-of-bricks/**](https://gharpedia.com/blog/water-absorption-test-of-bricks/)
* [**https://gharpedia.com/blog/water-absorption-test-of-bricks/**](https://gharpedia.com/blog/water-absorption-test-of-bricks/)
* **APPENDIX**
* **EXCEL GRAPH:**

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**Thank You.**