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In an article read before the Detroit Engineering Society by Clarence M. Barber, C. E., the problem of waterproofing concrete was discussed in detail, from which the following has been condensed:

WATERPROOFING CONCRETE.

Concrete can be made practically waterproofby making the aggregate as dense as practicable and using about one-half as much cement as It is also claimed that a little thoroughly hydrated lime is an advantage. In the case of blocks, advantage. In the case of blocks, however, the quantity of cement required for a 2 to 1 mixture in the body of the block is generally pro-hibitive on account of its cost.

The most recent and, we believe, the best, method is to make the body of the block of a good strong concrete with properly graduated sizes of pebbles or broken stone and sand, together with cement enough to make a thoroughly strong concrete and then face the block with a thoroughly dense and waterproof mixture by using I to 2 cement and sand and I per cent of a good waterproof compound. This protects not only the inside face but the entire block and practically no moisture is absorbed even by the outer face.

A glass of water inverted on the face of such a block will hold the water for weeks with practically no absorption by the block. The writer has a glass of water inverted on a piece of a block that has been standing four weeks. About onestanding four weeks. About one-third of the water has escaped in that time. On an ordinary clay

brick the water passed wholly out of the glass in an hour.

In a well equipped concrete block

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factory the freshly made blocks are kept for a time in rooms where the atmosphere is saturated with moisture and generally a sufficient quantity of steam is admitted to hold the moisture above the dew point. This treatment gives sharp, hard corners and edges to the blocks, and together with a little heat, it hastens the setting.

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