

## Theatre Royal

Friday and Saturday, March 1st and 2nd.—Fred Groves as Pete in "The Manx-Man, by Hall Cain, 8 reels.

Sunday and Tuesday, March 3rd and 5th.—The Near Do Well, in 10 reels; Here's a Present from your Lover, scenes filmed in the Panama Canal zone; A Worthy Successor to the Spoilers.

The "Red Ace" series will start on Tuesday and Wednesday, February 26th and 27th.

The "Bull's Eye" series will start on Thursday and Friday, March 7th and 8th.

Admission always the same:—10 and 15 cts. No War Tax.

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standard wall thickness,) and further protected by rails on top and earth in front; and the structure to be only enough above ground level to give observation out. The front wall will be carried ten to twelve feet below the surface. Such would be a battle headquarters, a blocked-in room ten feet square, with a lower story under. Reserve shelters are of "elephant corridor" (arched steel) completely surrounded by a belt of concrete. These, at the top, may have only a few inches of earth over them and nothing except sometimes a very small ventilating shaft will indicate that there is anything there.

Where there are difficulties in the way of making concrete in the front line, concrete blocks are made in the rear and carried up.

The British also use blocks three or four inches thick by two feet long and a foot wide. These are used as bursting courses over semi-deep dugouts. Thus, over a dugout two feet of earth, then a mattress of logs, two feet more of earth, a concrete bursting course, covered with five or six inches more earth, will protect against a 5.9 H.E. shell.

The British also employ a portable concrete observation post. It is a hollow, low dome of 5-inch concrete, about two and a half feet in diameter, resting on a rectangular concrete block having an opening, and is set upon a series of plank "box-like" cases at the front edge of shell hole or recess, so that the observer inside can look out at the ground level through a slit between the dome and its supporting block.

Iron and steel rods or rails greatly increase the resistance against shell fire. Concrete alone, plain or reinforced, is not, when possible to avoid, exposed to direct shell hits, but "cushioned" with courses of earth above and below.

The German "Manual" gives detailed directions for the use of concrete in field works. The proportions recommended are—cement 1, sand 2, stone 4, by volume. The sand and stone must be hard and sharp, with no dirt whatever. Generally, sand and stone found on the spot is rejected as unsuitable. The "manual" continues:

"If there are no concrete mixing machines available in the Engineer Parks, the sand should be spread for mixing on a large board in a thin even layer, and cement scattered over it. The two materials should first be mixed together dry by means of a shovel and then sprinkled with water until the mixture has a uniform colour. It

should be just wet enough to "ball" in the hand. The ballast (stone) after being cleaned and dried, should be spread out carefully on another board and the sand and cement mixture divided over it. The whole mass should then be turned over two or three times with a shovel. It should then be taken at once to the place where it is to be used, and applied in layers 8 to 12 inches thick, each layer being carefully rammed before the next layer is put on. To attain its full strength, concrete should be allowed several weeks to set.

"Hand mixed concrete rarely has the strength of machine mixed.

"It is sometimes advisable, e.g., when concrete must be made in the front line, to mix it dry, somewhere in rear and to add the necessary water at the place where it is to be used.

"If concrete has to be made during a frost, the ballast, sand, and water should be warmed, and the amount of water decreased. Freshly made concrete should be protected from the air. Concrete additions should not be made to frozen buildings. If there is no necessity for the structure to be dry 2 per cent of salt may be added to the water. If the temperature falls below 10 degrees of frost (fahrenheit), concreting should be stopped.

"Frost that occurs before the setting of the concrete is complete, is more injurious than frost after setting, that is, during the period of progressive hardening.

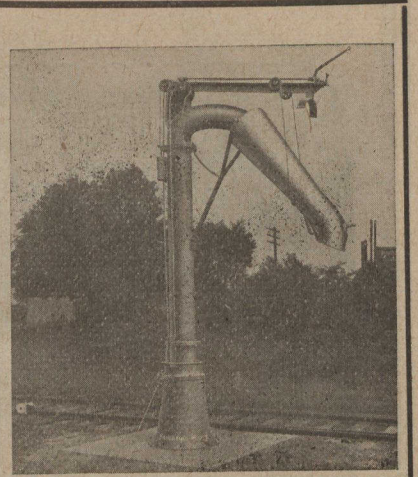
"Ferro-concrete (reinforced concrete) is made by laying iron in concrete, generally in the form of a network of round iron rods. If these are not available, rails and joists, in layers applied crosswise, can be built in. The rods must not be so close together that careful ramming of the concrete is made impossible. To ensure that the iron is completely covered, the proportions of the concrete should be 1:2:2 instead of 1:2:4, and more water must be used than with plain concrete.

"The materials for a cubic yard of concrete make about 69 man loads."

In all concrete construction within the shelled area, it is essential that a cushion of earth or an air cushion formed by cavity walls be provided. In the British type of construction of "Pill Boxes" the air cushion plan is adopted with marked success.

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