

upon iron and galvanized iron when in contact with oak under identical circumstances, he made the following series of experiments.

Plates of galvanized iron, having 18 inches of surface lost, during three months, the following weights :—

	Soft water.	Sea water.
Plate No. 1,	0·10 grains.	—
“ No. 2,	0·11 “	—
“ No. 3,	0·095 grains.
“ No. 4,	0·090 “

Similar plates of iron lost during the same time :—

	Soft water.	Sea water.
Plate No. 1,	1·23 grains.	—
“ No. 2,	1·52 “	—
“ No. 3,	2·40 grains.
“ No. 4,	2 38 “

There can, therefore, be no doubt that galvanized iron offers great advantages, the action of water on it being less than a tenth of the same action on ordinary iron. As there is no doubt that iron when galvanized is in the most favorable electrical condition to resist the action of oxygen, being in an electro-negative condition, it follows that, in all probability, the use of galvanized iron would be very advantageous in armor-plated and other iron ships. The author hoped that government, and other large ship-builders, would avail themselves of this suggestion, and make experiments on a large scale to verify the results he had obtained.

The Salting of Brick-work. By JOS. A. DAVIES.

From the London Builder, No. 917.

The question was, I think, asked some time since in your paper, whether any means could be adopted to prevent the salting of brick-work. In a building to which I was architect last year, we tried, by the advice of a chemist, oiling the facing bricks with linseed oil. The oil was applied with a brush to one face and one end of each brick; and, as no salting has appeared on any part of the brick-work, which was finished about twelve months ago, the experiment seems to have been in this case successful.

I have found the same kind of facing-bricks become salted considerably where they have been used without oiling; and, from the appearance of the mortar joints in the case in question, think that the same would have occurred in the present instance, had the oiling not been adopted.

The salting of brick-work is so detrimental to its appearance, that any means of preventing it is of value; and I therefore send you the result of my own experience on the subject. The oiling rather improves than otherwise the color of the brick.