

"Veandhor" Re-inforced Concrete System

A NEW ZEALAND PATENT

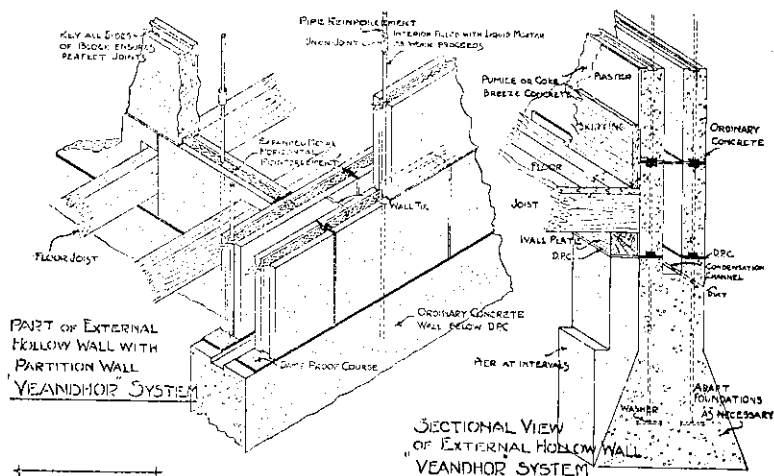
A patent system of building in concrete known as "Veandhor" has been shown to us. It is the invention of a New Zealander who states that several houses have already been built by his system which he has patented. As it will no doubt prove of interest to our readers we give details below. Any further particulars will be given (should any of our readers require them) if they communicate with the Editor.

Walls.—This system is suitable for either single or hollow walls and the illustrations herewith give the details of construction. Internal and partition

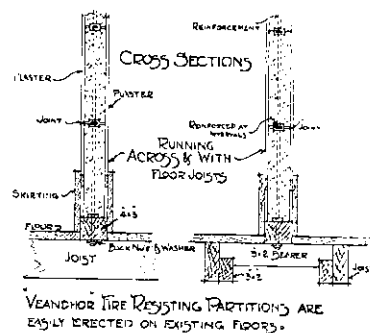
Reinforcements.—The reinforcements hitherto used have been $\frac{3}{4}$ in. iron pipes and expanded metal, the pipes being cut in length and extended as the work proceeds, and the expanded metal cut in strips, but owing to difficulty in obtaining these articles No. 4 wire vertical, and $1\frac{1}{4}$ in. hoop iron horizontal reinforcements would be effective substitutes.

Manufacture.—Wooden forms are used in manufacturing the blocks, these are fairly cheap and lasting but rather expensive in labour for re-assembling after use. A plant sufficient to manufacture 100ft. super a day would cost approximately £30, and would last with minor renewals indefinitely but no doubt a block machine adjusted to requirements and costing approximately £90 would prove cheapest in the end, as not only could the output be considerably increased but also the cost of manufacture reduced.

"VEANDHOR" WALLS AND PARTITIONS.



"VEANDHOR" PARTITIONS.



The Single "Veandhor" Walls

walls are made of either breeze or pumice which owing to their light weight greatly facilitate the handling and also enables partition and the like to be built directly either on the joists or floors.

Single exterior walls $3\frac{1}{2}$ ins. thick finishing about 4ins. have been built and proved absolutely damp-proof (see illustration of cottage) but where preferred the hollow walls with their undoubted advantages can be provided, in which case it is not necessary to carry them right round the building but only around the exterior of rooms used for habitation. It is not necessary to render the outer walls in hollow wall construction, but if desired plain pebble dashing and colouring will give the popular rough cast finish. Where an exterior wall is protected by a verandah, the single breeze concrete wall has proved exceptionally suitable providing it has a cement skirting, it has been customary to pebble dash these walls for effect alone but where cheapness is the chief consideration a coat of good cement wash above the skirting would be quite efficient.

It may be as well to mention here that a good stock of blocks enables one to carry out substantial reinforced concrete buildings very rapidly.

Building.—The rate of building naturally depends on the man doing it, but one bricklayer with labourer would not be overworked by laying 66 blocks (equal to 100 square feet) in 7 hours, when breeze or pumice blocks are being used 6 hours should be more than sufficient.

COST OF MANUFACTURE, &c.

Hereunder is set forth the cost of manufacturing 100 feet super of Veandhor blocks and building based on the cost of labour and materials in Wanganui. The prices given are for actual manufacture and building, and do not include royalty of 5 per cent. on blocks at selling price or any allowances for forms, builders profit, &c.

CONCRETE BLOCKS		
1 yard clean gravel	..	5 0
4 sacks of cement at $4\frac{1}{8}$..	18 8
Labour 2 men 5 hours each	..	13 9