

When one realises that these views were expressed a long time before the war, it is very plain that their force is enhanced rather than diminished by the enormous increase in prices now ruling and likely to rule for some time to come; but to dwell only on the subject of economy of first cost is to obscure the far more important consideration of constructional efficiency.

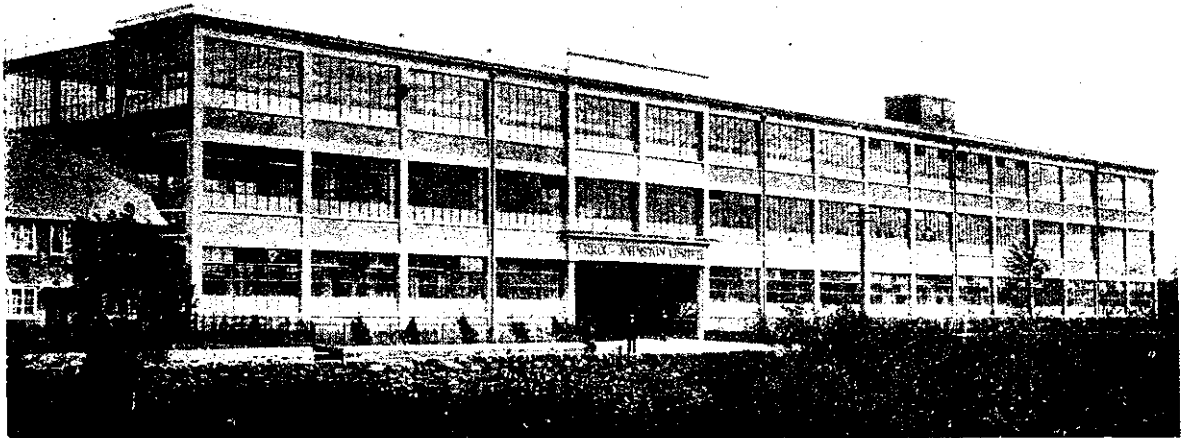
There are many arguments advanced in favour of the use of reinforced concrete in building construction, but probably the one most generally applicable is that the fireproof properties of concrete are considerably greater than those possessed by any other known building material. Brick, stone, terracotta, steel and cast iron may all claim some fire-resisting qualities, but concrete has become universally recognized as superior to all its competitors. It may truthfully be said that up to the present no reinforced concrete structure has

are readily attached to the main reinforcing bar and form an integral part of it. They are all mechanically spaced at the works, and consequently cannot be misplaced by careless workmen. If ordinary stirrups are not properly placed and held in definite position until the concrete is completely poured, they are practically useless.

The Kahn Trussed Bar is used wherever shear stresses are an important factor in the design, the Kahn Rib Bar, where it is beneficial as a mechanical bond reinforcement; Hy-Rib where self-centering reinforcement can eliminate the expense of false work; and spiral reinforcement for members subjected to severe compressive stresses.

KAHN SYSTEM SERVICE

The mere use of these forms of reinforcing bars, however, does not constitute all that is meant by the Kahn System. Of even greater value than the



A model Daylight Factory built for Messrs. Arrol Johnston's Motor Works, Dumfries, on the Kahn System.

been destroyed in a conflagration. Usually the fire is confined to the floor or compartment in which it originated, and only the contents of that floor or apartment are destroyed.

KAHN SYSTEM DEFINED

A Kahn system structure is best defined as monolithic, literally meaning "like one stone," or possessing the continuity and cohesion of a unit mass, being not only fire-proof, but also indestructible under the disintegrating influence of fire and water. The Kahn system is a highly developed scientific and practical arrangement of steel work designed to act in combination with concrete in such a manner as to produce a mathematically correct as well as an economical design for the various units in construction.

KAHN SYSTEM REINFORCEMENT

With regard to the Kahn Trussed Bar, this form of reinforcement was invented to eliminate as much of the human element as possible in the placing of the reinforcing steel. The shear members

advantages obtained by the above named reinforcements is the service rendered.

The company invariably prepares the engineering drawings and designs, which are made in strict accordance with the general plans and estimates supplied by the owner, the architect or the consulting engineer, as the case may be. The company furnishes these drawings free of charge. They show the exact location of each piece of steel work, thus minimising the chances of complications or misunderstanding with regard to erection.

KAHN SYSTEM AND THE ARCHITECT

The services of a specialist engineer are placed at the disposal of the architect and the engineer, who by reason of his wide experience, is able to give expert advice on the many problems which arise in the design of reinforced concrete work.

KAHN SYSTEM AND THE CONTRACTOR

The company are always prepared to offer assistance and practical advice to the contractor, helping him to make his contract a remunerative