Please read and send in as full a discussion as possible at earliest date.

## The Canadian Society of Civil Engineers.

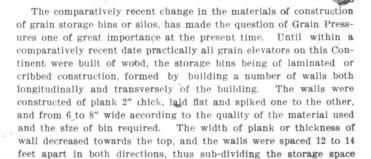
INCORPORATED 1887.

ADVANCE PROOF-(Subject to revision.)

N.B.- This Society, as a body, does not hold itself responsible for the statements and opinions advanced in any of its publications.

## GRAIN PRESSURES IN DEEP BINS.

By J. A. Jamieson, C. E., Mem. Can. Soc. C. E.



So long as this construction and size of bin was maintained, there was no great urgency for knowing accurately the lateral pressures produced by grain, as the thickness or necessary strength of the walls to safely resist the lateral pressure, and the strength of the hopper bottoms of the bins to carry the vertical load, had been well established by practice.

into deep bins 12 to 14 feet square and 60 to 70 feet deep.

With a wooden bin wall of sufficient strength to resist the lateral pressure, the wall had ample area as a column to carry the vertical

NOTE. -On page 28, read :-

<sup>5.000</sup> lbs. x 40 sq. ft. x 0.6 x 0.41667 = 500 lbs. carried by the walls.