

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

The Canadian Society of Civil Engineers.

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

SOME EXPERIMENTS ON LOSS OF HEAT FROM IRON PIPES.

By R. W. LEONARD, M. C. Soc. C. E.

(Printed for the General Section.)

October, 1904.

The difficulty of obtaining reliable data in convenient form regarding the loss of heat from warm water through the walls of metallic pipes of differing dimensions when exposed to cold air or water under differing conditions, led the writer to make a few experiments during the past winter which was favourable for such purposes. The results of these experiments may be of interest to some members of the society.

A.

1" standard but welded steam pipe. Black—somewhat rusty.

| | |
|------------------|-----------------------------------|
| Inside diam | 1.048" |
| Outside " | 1.315" |
| Thickness | 0.134" |
| Length | 4.25' contains 1. 581 lbs. water. |
| External surface | 1.463 sq. ft. |

B.

2" standard but welded steam pipe. Black.

| | |
|------------------|------------------------------|
| Inside diam | 2.067" |
| Outside " | 2.375" |
| Thickness | 0.154" |
| Length | 3.54' contains 5 lbs. water. |
| External surface | 2.20 sq. ft. |