

Since the experiments made in 1878 by Flugge on the quantity of air that passes through the walls of a room and produces what has been called "spontaneous ventilation," it has been believed, says the Revue Scientifique, that for small rooms with reasonably tight walls, the air is renewed in the proportion of 0.077 of the volume per hour and per degree (Centigrade) of difference between the inside and outside temperatures. For instance, for a difference of fourteen degrees C. (25.2 degrees Fahr.) the entire air would be renewed in one hour. Experiments to verify the exactness of these figures have been made by H. Wolpert,

who has determined hour by hour the proportion of carbonic acid gas contained in the atmosphere of an empty room, the measured diminution enabling him to show the activity of the air, movement inward. The Bulletin des Ingenieurs Civils gives the following results: For rooms with a capacity of sixty cubic metres (about 2,000 cubic feet), with masonry walls covered with paper, the hourly co-efficient of renewal was 0.025 per degree of difference of temperature, the actual difference being 12.6 degrees C. (22.7 degrees Fahr.) For rooms with walls covered with oil-paint the co-efficient fell to 0.017, and it rose to 0.053 for ordinary whitewashed walls.

THE
**CANADA
PAINT
COMPANY**
LIMITED

☞ The "ELEPHANT"
Brand of White Lead
has stood the test for
forty years. ☞

THE
**CANADA
PAINT
COMPANY**
LIMITED

Correspondence invited.
Montreal and Toronto.

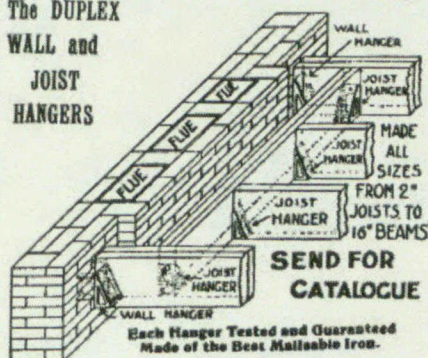
Troy Laundry Machinery Co., LTD

OUR LINE IS THE LARGEST, BEST AND MOST COMPLETE

WRITE US FOR CATALOGUE AND LAUNDRY GUIDE.

Troy Chicago New York San Francisco

The DUPLEX
WALL and
JOIST
HANGERS



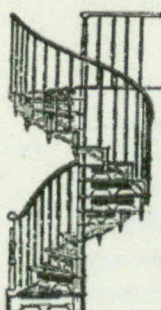
OUR SPECIALTIES.

BUILDERS' HARDWARE.
Artistic and up-to-date.
CONSTRUCTIONAL HARDWARE.
Duplex Wall and Joist Hangers
Post Caps and Bases, I Beams
UNDERWRITERS' HARDWARE.
"Acme" Fire-Door Fittings.
"Acme" Fire-Shutter Fittings.
STABLE AND BARN HARDWARE.
Stable Fittings (full line)

ASK FOR CATALOGUE.

THE VOKES HARDWARE CO.,
LIMITED.
Toronto, Canada.

Please mention the Canadian Architect and Builder
when corresponding with advertisers.



Elevators, Enclosures and Cars Iron Stairs of every description

Ornamental Railings for Offices and Banks,
Fire Escapes, Etc.

Columns and Castings of all kinds.

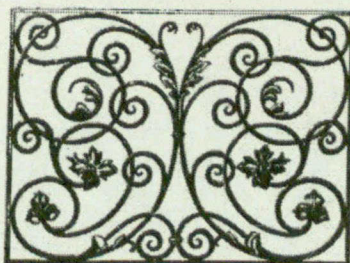
John Watson & Son,

ARCHITECTURAL IRON WORKS

59-63 Dalhousie Street,

Phone, Main 4189x.

MONTREAL, Que.



Lincrusta Walton

(The Sunbury Wall Decoration)

Solid in Relief

Solid in Color

Artistic Decorations for Walls and Ceilings. Will
stand any climate and never wear out.

For Price Lists, Illustrations, Samples, Etc., write to

Fredk. Walton & Co., Limited.

1 NEWMAN STREET, LONDON, W.



Sole Manufacturers and
Patentees.

AMÉOIO
(Sunbury)

New high relief material for Ceilings
and Friezes, is Firm in Relief and
Light in Weight.
Beautiful as Plaster at much less cost.
A large assortment of cheap patterns in
low relief.

Canadian Agents:

ARTHUR LAURENT, 187 St. John St., Quebec.
Agent for Ontario and Quebec.
F. T. BAGSHAVE, Assiniboine Block, Winnipeg