

**THE ARCHITECTS' &
CONTRACTORS' HANDBOOK
AND ILLUSTRATED CATALOGUE
OF MATERIALS AND
MANUFACTURES**

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The Architects' & Contractors' Handbook and Illustrated Catalogue of Materials and Manufactures by J. Douglass Mathews

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J. DOUGLASS MATHEWS

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BOYLE'S PATENT SELF-ACTING AIR-PUMP VENTILATORS



Are pronounced by the Highest Authorities in the Kingdom
to be the most efficient in existence.

*They create a continuous extraction of the foul air, are entirely free from
down draught, have no mechanical movement, cannot get out of
order, require no attention, and there is no after cost.*

"Since these excellent Ventilators have been introduced we have now got *perfect*
methods of ventilation."—Dr. B. W. RICHARDSON, F.R.S.

From the late SIR GILBERT SCOTT, Architect.

"I have used your Patent Self-acting Air-pump Ventilators with complete success, and
will always have great pleasure in recommending them."

From SIR WILLIAM THOMSON, F.R.S.

"I have seen several different forms of Mr. Boyle's Air-pump Ventilator in actual
operation, and have much pleasure in testifying to their efficiency."

"Boyle's Patent Self-acting Ventilator, which does not revolve, is the best Soil-pipe
Ventilator that I know of."—ERNEST TURNER, Esq., F.R.I.B.A., etc., London.

LATEST AWARDS.

- Highest (and only) Prize, Hygienic Exhibition, London, June, 1883.
- First Prize (Silver Medal), North-East Coast Exhibition, Tynemouth, Oct. 1882.
- Gold Medal (Highest Prize), International Exhibition of Means and Appliances
for the Protection and Preservation of Human Life, London, July, 1882.
- £50 Prize (only Prize offered), International Ventilation Competition, London,
May, 1882.
- Silver Medal (Highest Prize), Eastbourne Sanitary Exhibition, August, 1881.
- First Prize (only one awarded to Roof Ventilators), International Medical and
Sanitary Exhibition, London, July and August, 1881.

"Messrs. Boyle's Patent Air-pump Ventilators have now established themselves beyond
a doubt as the nearest to perfection of anything of the kind before us."—*Architect.*

"The name of Boyle in connection with Ventilators has come to be on a somewhat
similar footing to that of Chubb in connection with locks."—*British Architect.*

"Messrs. Boyle & Son, as founders of the profession of ventilating engineers, have raised
the subject to the dignity of science."—*Industry.*

ROBERT BOYLE & SON,
Ventilating, Sanitary, & Consulting Engineers,
64, Holborn Viaduct, London; & 110, Bothwell Street, Glasgow.

ADVERTISEMENT APPENDIX.

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THE BUILDERS' ACCIDENT INSURANCE,

LIMITED,

INSURES EMPLOYERS against ACCIDENTS TO WORKMEN,

FOR WHICH THEY WOULD BE LIABLE BY LAW.

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Mr. W. H. PHILLIPS, 1, Small-street, Bristol.

SCALE OF PREMIUMS.

INCLUDING PARTICIPATION IN PROFITS.

This Company now undertakes the Insurance of Builders and kindred trades against Accidents to their Workmen on the following terms, viz. :-

CLASS 1, for a fixed amount of Weekly Wages;

CLASS 2, for an aggregate sum spread over a period not exceeding one year, as under :-

CLASS 1.		CLASS 2.
Amount paid in wages per week.	Ordinary Premium for 12 months.	Aggregate Wages
£9 12 4	£1 0 0	are charged at the rate of 4s. per £100.
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25 0 0	2 12 0	
50 0 0	5 4 0	
100 0 0	10 8 0	

No Policy will be issued for less than £1 premium.

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ADVERTISEMENT APPENDIX.

"Since these excellent Ventilators have been introduced, we have now got PERFECT methods of Ventilation."

Dr. B. W. RICHARDSON, F.R.S.



A FEW OF THE
PUBLIC BUILDINGS
TO WHICH
BOYLE'S SYSTEM
OF
VENTILATION

HAS BEEN RECENTLY APPLIED:—

SIMPLICITY.
EFFICIENCY.
ECONOMY.

EFFICIENT
VENTILATION
GUARANTEED.

London Custom House.
Guildhall.
Reform Club, Pall Mall.
Lloyd's, Royal Exchange.
Admiralty.
Horse Guards.
The Oratory, Brompton.
South Kensington Museum.
King's College, Strand.
Imperial Mint, St. Petersburg.
Caius College, Cambridge.
Spurgeon's New College.
Claremont, residence of His Royal Highness
Prince Leopold.
New Royal Courts of Justice Chambers.
German Athenæum Club.
Portland Prison.
Stoneyhurst College.

Gaiety Theatre, Strand.
Westminster Schools.
Princess Theatre, Manchester.
Royal Naval College, Greenwich Hospital.
New Grand Theatre, Islington.
Royal Aquarium, Yarmouth.
Knowsley Hall, and "Fairhill," Tonbridge,
Kent, seats of the Earl of Derby.
Normanhurst Court, Battle, seat of Sir
Thomas Brassey.
Ashburnham House, Westminster.
New Hall of the Medical Society of London.
Christ's Hospital (Blue Coat Boys).
German Hospital
New Police Station, Shepherd's Bush.
New Police Station, Hornsey.
Law Courts, Salisbury; and the
New Naval Barracks, Keyham, Portsmouth.

Besides several thousand Public Institutions, Churches,
Halls, Hospitals, Noblemen's Mansions, Colleges, Schools,
Clubs, Dwelling-Houses, Offices, Public Works, Barracks, &c.

*The above system was adjudged the Victor at the International
Ventilation Competition, London, 1882, and awarded the Prize of £50.
It also gained the Gold Medal, London, 1882, and the Highest and only
Prize at the Hygienic Exhibition, London, June, 1883.*

PRICES AND FULL PARTICULARS ON APPLICATION TO

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THE
ARCHITECTS' & CONTRACTORS' HANDBOOK
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ILLUSTRATED CATALOGUE
OF
MATERIALS AND MANUFACTURES.

Edited by

J. DOUGLASS MATHEWS, ARCHITECT,

*Fellow of the Royal Institute of British Architects, District Surveyor for
Stoke Newington, etc., etc.*

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PREFACE.

THE facilities afforded for the transit of materials in the raw and manufactured state, and the rapid strides made by science in recent years, have placed within reach of the Architect and Builder an immense variety of materials and appliances for the construction and adornment of buildings, and the convenience and health of the inmates. A great difficulty has been experienced in bringing them under the notice of those mostly interested in, or able to use them. The plan of issuing circulars has been largely adopted by Manufacturers and others; but the fact of their being so numerous causes them, if not immediately required, to be frequently thrown aside or destroyed and forgotten.

With a view to bring the producer and the user together, 'THE ARCHITECTS' AND CONTRACTORS' HANDBOOK has been published, with the particulars arranged in a classified form; and for the purpose of recording recent inventions and manufactures, as well as to keep advertisers before their patrons, a fresh edition will be issued each year.

To *Architects and Surveyors* the book will be useful in enabling them to compare manufactures of a similar description, and by giving facilities to obtain the name and address of the firm from whom further information may be gained, if required.

To *Builders and Contractors* the fact of knowing where to ascertain full particulars will be a great saving of time and expense in pricing an estimate, or in ordering articles specified.

To *Manufacturers and Merchants* it will be especially valuable in affording them a means of bringing their goods under the immediate eye of those whose patronage they seek, in a way that no indiscriminate advertising will effect, and, in enlarging the Advertisement Appendix, the general description by means of drawings and list of prices.

To the *Public*, although not a book of general interest, yet to those engaged or taking pleasure in building, the advantage of being able to glance at the many varieties of manufactures and materials will be appreciated.

The objects kept in view are as follows:—To place the book into the hands of those for whom it will be most useful—which is accomplished by issuing it gratuitously to all the members of the Royal Institute of British Architects,

and Central Association of Master Builders, comprising the chief Architects and Builders in the Kingdom : to classify the several items in such a way as to be easy of reference, aided by a copious Index of Articles, and the Makers or Importers thereof : to describe the manufactures so that a general idea may be given, without any expression or bias from the Editor, leaving it to the Manufacturer to give fuller information in the Advertisement Appendix.

Although means have been taken to carry out the foregoing in the present issue, it will be easily understood that, as the scheme of the work is entirely novel, great difficulty has been experienced in procuring the particulars required. The plan adopted has been to epitomize, as far as possible, the descriptions contained in circulars, and to send the proof to the proprietor for approval. In some cases no return has been made, and in others, where particulars were wanting, they have not been supplied ; and this will account for many omissions, and must be pleaded as an excuse for imperfections. But it is anticipated that when the object of the work is known these difficulties will be overcome, so that next edition will be much more complete. To this end the Editor earnestly begs Architects, Surveyors, Contractors, and others, especially those resident out of the Metropolis, to kindly furnish him with any information as to materials and manufactures that are not now included. He will also be glad to receive any suggestions before the next year, so that the book may be of greater value as a reference for all Architects and Contractors.

The Editor thinks it right to add that the efficiency of the items described, are the statements of the manufacturer or inventor, and that he is not responsible for them.

11, DOWGATE HILL, E.C.,

August, 1883.