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TORONTO

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Write for Catalogue of above Goods. Estimates given on Special Hardware by any Architect.

Illustrations of various mechanical devices and tools, including a circular saw, a hand saw, and a power mill. Text: FOOTPOWER MACHINERY. CHEAPEST OVERSICUT FOR CARPENTERS AND BUILDERS. Machines for cutting, cross-cutting, scroll-sawing, mortising and planing, forming pipes, grooving, gaging, rabbeting, cutting dados, and turning. Builders use our Hand Circular Rip Saw for the greater portion of their ripping in preference to carrying their lumber to a mill five miles from their shops. The same is true in regard to axes, saws, mortising, crosscutting, and for drawers, boxes, etc. Builders using these machines can bid lower and save more money from their contracts than by any other means. Road the Following Letters from Builders: CHARLES B. LEEK, Carpenter and Builder, Hamilton, N. Y.: "I have bid one of your Hand Circular Rip-saws for about three months, and am much pleased with it. Have done the ripping for 25 boxes in that time, which is over forty piles through lock boards. Have ripped as high as six inch thick. It is the best tool for rabbet; having rabbeted all feather and sawed all drips for 200 windows." ALEX. BAILEY, Saw Maker, says: "A few days since you had some 10 small drawers to make for a drug store; these your power mill wasted 50 cents each for making them. With my foot power machinery I made them and saved above good wages on the job. If ordered, these machines will be sold for \$7.50." The purchaser can have ample time to test them in his own shop and on the work he wishes them to do. Descriptive Catalogue and Price List Free. W. E. & J. O. BARNES CO., No. 106 Rockford, Ill.

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Telephone No. 27.

Established 1841

THOROLD HYDRAULIC CEMENT MILLS

JOHN BATTLE, Proprietor,

THOROLD, - - - ONTARIO.

OTTAWA, 23d June, 1888.

DEAR SIR, - I duly received your letter of the 21st ultimo, requesting my opinion relative to the Cement manufactured at your establishment in Thorold, in reference to which the following is respectfully submitted: For the past forty years the natural Hydraulic Cement obtained at Thorold, Province of Ontario, has been used to my knowledge, on various extensive public works, and in every instance the result has proved highly satisfactory. When properly burned, ground fine, and used fresh from the mill, it will compare favorably with any natural or artificial cement that I know of for building or other purposes in a masonry position, or for walls that have been built a few weeks before water has been let on them. It is well adapted for concrete foundations, walls, drains, cisterns, or indeed, for any hydraulic works; when properly prepared and mixed with two parts of clean sharp sand to one of cement. I am, sir, yours very truly,

JOHN BATTLE, Esq., cement Manufacturer, etc., Thorold, Ont.

JOHN PAGE, Chief Engineer of Canals, Canada.

QUEBEC, MONTREAL, OTTAWA & OCCIDENTAL RAILWAY.

CHIEF ENGINEER'S OFFICE.

JOHN BATTLE, Esq., Thorold:

MONTREAL, 31st March, 1881.

DEAR SIR, - I have tested with Reib's Testing Machine the tensile strength of six blocks made from the barrel of Thorold Hydraulic cement which you sent me last summer. The blocks were made of neat cement, and were 1 1/2 inches square at the smallest part. Four of them were kept 93 days in air, and only broke under the following weights: No. 1, 450 lbs.; No. 2, 470 lbs.; No. 3, 435 lbs.; No. 4, 420 lbs.; averaging 437 lbs. each, or 19 1/2 lbs. per square inch. The remaining two were kept one day in air and forty-seven in water, and broke under the following weights: No. 5, 470 lbs.; No. 6, 450 lbs.; averaging 455 lbs. each, or 19 1/2 lbs. per square inch.

Yours truly,

F. A. PETERSON, Chief Engineer.

Quebec, Montreal, Ottawa & Occidental Railway.

THE THOROLD CEMENT is sold by the following dealers:

Toronto, - Edward Terry, 27 George St. " Robert Carr, 60 Adelaide St. West. " Joseph Adams, Esplanade, Foot of George St.

Hamilton, - J. A. Freeman, James St. " W. J. P. Gordon, James St. London, - A. D. Cameron, Burwell St. " Deveraux & Co., 240 Bathurst St.

CHARLES BECK, (Successor to A. Fike.) PROPRIETOR OF THE CELEBRATED RIVERVIEW STONE QUARRIES AND LIME KILNS. DEALER IN ALL KINDS OF BUILDING STONE AND LIME. Practical Stone Cutter, 25 Years' Experience. ORDERS SOLICITED. CORRESPONDENCE IN ENGLISH, GERMAN OR FRENCH. C. BECK, Guelph, Ont.

MAGUIRE'S Ventilating Self-Flushing and Self-Cleaning Trap. Sewer Pipe, Chimney Tops, Fire Brick, Fire Clay, PORTLAND THOROLD CEMENTS always on hand. Robert Carroll, 66 Adelaide St. West, Telephone No. 208.

Maguire's Tile Drain Trap, particularly adapted for house drainage and overhead sewer ventilation. The only reliable self-cleaning Trap in the market. Owing to the fact that the outlet C is below the inlet A and formed as shown, any liquid or solid matter entering the Trap B must, when it once reaches the top of seal D, flow over and fall clear into the outlet C, not only increasing the velocity of the flow of the water and solid matter through the Trap B by creating a fall from the said Trap, but it is also so shaped that it effectually prevents any backwash through the outlet C into the trap B.

Montreal Terra Cotta Lumber Co. Works at Matsonnouve, Office 86 St. Peter St. J. BARSALOU, PRESIDENT.

Porous Terra Cotta Building Material FOR FIREPROOF BUILDING PURPOSES.

It is not excelled by any other material and does not crack or fall to pieces on the application of cold water when red hot. It is also proof against damp, frost, and vermin, and can be sawn, nailed and worked with carpenters' tools. Mortar adheres to it without either furring or lathing, and makes the house built of it cooler in summer and warmer in winter, and weighs less than half what brick does. It is much better in every way than either wood or brick for inside walls, partitions, floors, ceilings, furring and roofs, and on the average cheaper than either. It has the recommendation of architects and is certain to reduce the cost of fire insurance.

Further information will be cheerfully given to parties repairing, building or intending to build.

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