

staircase and ornamental grille work, for the interior woodwork and hardware, and for the painting, hardwood finishing, glazing, etc., required for new Parliament and Departmental Buildings.—Plans have been prepared by Mr. J. A. Fowler, architect, for a residence in Parkdale for Mr. Kinnear.—The city council has accepted the proposition of Messrs. Marchmont & Co. to build a crematory on the Island for the destruction of refuse and night soil.—Mr. W. R. Gregg, architect, is preparing plans for a block of stores on Spadina avenue for Mr. Wanless.—The City Engineer will receive tenders until the 20th inst., for scraping and painting the Huntley street and Glen road bridges.—Mr. Geo. M. Miller has prepared plans for a hotel for Mrs. Devaney, corner Bathurst and Bloor streets.—The Property Committee has recommended that a site be purchased on Pape avenue for the erection of a new fire station.—Messrs. Post & Holmes, architects, of this city, have prepared plans for an Episcopal Church at Muskegon, Mich.—Tenders are wanted for carpenter work of four houses. Plans at 141 Yorkville avenue.—On the 16th inst. the citizens sanctioned the by-law to expend the sum of \$300,000 on the improvement of the Esplanade, including the erection of a large Union Station.—Royce avenue, St. Mark's Ward, is to be opened out to a width of 65 feet.—The following building permits have been granted: W. S. Thompson, additional 3rd storey of brick and mansard roof, 9½ Adelaide St. e., cost \$10,000; Edgar A. Wills, det. 2-storey residence, cor. Gwynne and Collier Sts., cost \$4,200; Edgar, Williams & Edgar, three att. 2-storey bk. dwellings, e. side Lippincott St., between Nassau and Oxford Sts., cost \$3,600; Wm. Luke, 2-storey and attic bk. dwelling, w. side Dowling Ave., n. of King St., cost \$4,000; Jno Brickley, det. 2-storey and attic bk. store and dwelling, and 1-storey and mansard bk. stable, n. w. cor. Ossington Ave. and Hepburne Sts., cost \$7,000; Temperance League Coffee House Co., 3-storey bk. coffee house, s.w. cor. Elm and Terauley Sts., cost \$19,000; Ferguson Bros., five att. 2-storey b. f. dwellings, w. side Bolton Ave., next to fire hall, cost \$7,000; W. R. Clarke, 10 bk. case 61 and 63 Hazelton Ave., and stone foundations under same, cost \$2,800; J. Baker, four att. 2-storey bk. stores, e. side Dundas St., nr. Arthur St., cost \$12,800; Wm. Totton, pr. s.d. 2-storey and attic bk. dwellings, n. side Harvard Ave., nr. west end, cost \$6,000.

**CONTRACTS AWARDED.**

**LISTOWEL, ONT.**—The contract for the erection of the new furniture factory has been awarded to Mr. J. Large, of this town. Mr. Large's tender was \$8,000.

**TORONTO, ONT.**—The Board of Works has awarded contracts for cedar block pavements on Kensington avenue to A. J. Brown, for \$1,150, and on Christie street to Robert Grant, for \$6,247.

**WATFORD, ONT.**—The contract for the heating apparatus for the High School has been awarded to Dodds Bros., at the price of \$270. The furnaces to be supplied are manufactured by Clare Bros. & Co., of Preston, Ont.

**KINGSTON, ONT.**—Mr. Brooks has been awarded the contract for the carpenter work for the extension to the House of Providence, and Mr. Geo. Newlands the masonry.—Contracts in connection with the improvements to the city buildings have been awarded as follows: Plumbing, Messrs. Nugent & Taylor; painting, S. J. Kelly.

**INFLUENCE OF TITANIC ACID UPON THE FUSIBILITY OF REFRACTORY CLAYS.**

According to H. Seger, 100 parts of zettlitz kaolin, which contains 98.5 per cent. of pure clay substance, were, on the one hand, thoroughly mixed with 5 or 10 per cent. of silicic acid, and on the other, with an equivalent quantity of titanic acid. The mass was then shaped into small

cones and heated in a crucible in a Deville blast furnace to a temperature between the melting heat of wrought iron and platinum. After heating the zettlitz kaolin was white, almost completely condensed, translucent on the edges, its shape completely preserved and sharp edged with a dull surface. 100 parts of zettlitz kaoline with 5 parts of silicic acid were snow white, somewhat absorbent, translucent on the edges, with a porcelain-like fracture, shape completely preserved, surface dull. 100 parts of zettlitz kaoline with 10 parts of silicic acid were snow white, somewhat more absorbent than the preceding, translucent on the edges, almost as dense as porcelain, with a dull surface. The cone of 100 parts of zettlitz kaolin with 6.65 titanic acid was somewhat laterally inclined, the fracture was densely slagged, the surface dull glazed and dark blue grey. The sample of 100 zettlitz kaolin with 13.3 titanic acid appeared completely shrunk together to a dark blue gray drop of enamel. According to this, titanic acid acts as a decided flux already at temperatures at which silicic acid has still a loosening effect, and, hence, in analyzing refractory clays more attention than heretofore has to be paid to the presence of titanic acid. Remarkable is the dark gray blue coloration acquired by the samples mixed with titanic acid; it calls to mind the blue gray coloration which many clays acquire by strong burning.—*Brickmaker.*

**Prices of Building Materials.**

**LUMBER.**

**CAN OR CARGO LOTS.**

1½ and thicker clear picks, Am. ins.	\$30 00@32 00
1½ and thicker, three uppers, Am ins.	27 00
1½ and thicker, pickings, Am ins.	18 00
1 x 10 and 12 dressing and better.	13 00 14 00
1 x 10 and 12 mill run.	14 00 16 00
1 x 10 and 12 dressing.	12 00 13 00
1 x 10 and 12 spruce culls.	10 00 11 00
1 x 10 and 12 maple culls.	23 00 30 00
1 inch clear and picks.	13 00 20 00
1 inch dressing and better.	14 00 16 00
1 inch siding, mill run.	11 00 12 00
1 inch siding, common.	10 00 11 00
1 inch siding, ship culls.	8 00 9 00
1 inch siding, mill culls.	8 00 9 00
Cull scantling.	22 00 25 00
1½ and thicker cutting up plank.	14 00 15 00
1 inch strips, 4 in. to 8 in. mill run.	21 00 22 00
1 inch strips, common.	14 00 15 00
1½ inch flooring.	14 00 16 00
1½ inch flooring.	2 30 @ 2 35
XXX shingles, sawn.	1 30 1 35

**Metallic Roofing Co. of Canada:**

Eastlake steel shingles (galvanized),	\$2 25 to \$5 75
Eastlake steel shingles (painted),	3 75 4 00
Improved Broad Rib Roofing, (galvanized),	5 00 5 75
Improved Broad Rib Roofing (painted)	3 50 4 00
North Western steel siding (painted),	3 25 3 50
Manitoba steel siding (painted),	3 25 3 50
Metallic Finished Brick	3 25 3 50
Tower or Mansard shingles, (galvanized),	6 25
Tower or Mansard shingles (painted),	4 50
Metallic Terra Cotta Tiles	7 00
Price of Copper shingles according to weight, and "Hayes" Patent Metallic Lathing according to quantity.	

**Canada Galvanizing & Steel Roofing Co.:**

Corrugated Iron, galvanized, 26 W. G., per lb.	5 cts.
Corrugated Iron, galvanized, 28 W. G.,	5½
Corrugated Iron, painted, 26 W. G., per square.	4 00
Corrugated Iron, painted, 28 W. G.,	3 50
Broad Rib Roofing, galvanized, per square.	5 50
Broad Rib Roofing, painted.	4 00
Westlake shingles, steel, galvanized, per square.	5 00
Westlake shingles, steel, painted	3 50
Standard shingles, "Walter's patent," galvanized, per square.	5 50
Standard shingles, "Walter's patent," painted.	4 00
Northwestern steel siding, patented, per square.	3 50
Metallic Finish Brick, per square.	3 25
Metallic Finish Clapboard, per square	3 50

**YARD QUOTATIONS.**

Mill cull boards and scantling.	10 00
Shipping cull boards, promiscuous widths.	13 00
Shipping cull boards, stocks.	1 00
Hemlock cantling and joist up to 16 ft.	11 00 14 00
" " " 18 "	12 00 13 00
" " " 20 "	13 00 14 00
Scantling and joist, up to 16 ft.	14 00
" " " 18 ft.	15 00
" " " 20 ft.	17 00
" " " 22 ft.	19 00
" " " 24 ft.	21 00
" " " 26 ft.	23 00
" " " 28 ft.	25 00
" " " 30 ft.	27 00
" " " 32 ft.	29 50
" " " 34 ft.	31 00
" " " 36 ft.	33 00
" " " 38 ft.	35 00
" " " 40 to 44 ft.	36 00
Cutting up planks, 1½ and thicker, dry board.	25 00 26 00
C "ar for block paving, per cord.	5 00
Cear for Kerbing, 4 x 14, per M.	14 00

**D. M.**

1½ inch flooring, dressed, F. M.	28 00 31 00
1½ inch flooring rough, B. M.	18 00 22 00
1½ " " dressed, F. M.	25 00 28 00
1½ " " undressed, B. M.	18 00 19 00
" " " dressed	18 00 22 00
" " " undressed	12 00 15 00
Beaded sheeting, dressed	22 00 35 00
Clapboarding, dressed	12 00
XXX sawn shingles, per M, 16 in.	3 65 3 75
Sawn lath.	2 00 2 80
Red oak	30 00 40 00
White	15 00 45 00
Basswood, No. 1 and 2	18 00 20 00
Cherry, No. 1 and 2	70 00 70 00
White ash, No. 1 and 2	25 00 25 00
Black ash, No. 1 and 2	20 00 30 00
Dressing stocks.	16 00 22 00
Picks, American inspection.	40 00
Three uppers, American inspection.	50 00

**BRICK—M**

Common Walling	\$3 50
Good Facing	9 00
Sewer	8 50 9 00

**Pressed Brick:**

Plain brick, f. o. b. at Milton, per M.	\$18 00
" " and quality, per M.	14 00
" " 3rd " "	10 00
Hard Building	8 00
Moulded and Ornamental, per 100.	\$3 to 10 00
Roof Tiles.	24 00
Diamond locking tile.	16 00
First quality, f. o. b. at Campbellville, per M	18 00
2nd " " " "	14 00
3rd " " " "	11 00
Ornamental, per 100	\$3 to 10 00
Tiles.	24 00

**Stone.**

Common Rubble, Per Touse, delivered	14 00
Large flat " "	18 00
Foundation Blocks, " Cubic Foot.	50

**Slate: Roofing (per square).**

" red.	18 00
" purple.	9 00
" unloading green.	9 00
" black slate.	7 75
Terra Cotta Tile, per sq.	25 00
Ornamental Black Slate Roofing.	8 25

**Sand:**

Per Load of 1½ Cubic Yards.	1 25
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**PAINTS. (In oil, per lb.)**

White lead, Can.	6 25 6 50
" zinc, Can.	6¼ 7 50
Red lead, Eng.	5¼ 6¼
" venetian.	1 60 1 75
" vermilion.	90 1 00
" Indian, Eng.	10 12
Yellow ochre.	5 10
Yellow chrome.	15 20
Green, chrome.	7 12
" Paris.	25 40
Black, lamp.	15 25
Blue, ultramarine.	15 20
Oil, linseed, raw (per Imp. gallon).	68 72
" " boiled.	72 75
" " refined.	78 85
Putty.	2¼ 2¼
Whiting, dry.	75 1 00
Paris white Eng., dry.	90 1 25
Litharge, Am.	6¼ 8
Sienna, burnt.	15 20
Umber,	8¼ 12

**CEMENT, LIME, etc.**

Lime, Per Barrel of a bushels, Grey.	46
" " " White	55
Plaster, Calcined, New Brunswick.	2 00
" " Nova Scotia.	2 00
Hair, Plasterers, per bag.	1 00
Cement, Portland, per bbl.	3 00 3 50
" Thorold, "	1 50
" Queenston, "	1 50
" Napanee, "	1 50
" Hull, "	1 50

**HARDWARE.**

**Cut Nails:**

American Pattern, 1½ inch, per keg.	3 90
" " 1½ to 1¾ inch, per keg	3 10
Canadian Pattern, 1½ inch, per keg	3 40
" " 1¾ to 1½ inch, per keg	2 95
" " 2 to 1½ inch, "	2 90
" " 2½ to 1½ inch, "	2 45
" " 3 inch and larger.	2 65
Steel nails 10c. per keg extra.	
Finishing nails, 1 inch, per keg.	5 45
" " 1½ inch, "	4 65
" " 2 inch, "	4 15
" " 3 inch, "	3 90
" " and larger.	3 90