THE TESTING OF METAL CASTINGS FOR FLAWS.

One of the difficulties which hitherto has been insurmountable is the detection of flaws in castings and forgings. From time to time various appliances have been introduced, but as yet the discovery of weak spots within a piece remains unsolved. A French engineer, Captain Delaplace, has devised a new apparatus which promises better results. It consists of a small pneumatic tapper worked by the hand, and with which the piece of steel or iron to be tested is tapped all over. Connected with the tapper is a telephone, with a microphone interposed in the circuit, Two operations are required, one to apply the tapper, and the other to listen through the telephone to the sounds produced. These operations are in separate compartments, so that the direct sounds of the taps may not disturb the listener whose province it is to detect flaws. The two, however, are in electrical communication, so that the instant the listener hears a false sound he can signal to his colleague to mark the metal at the point of the last tap. In practice the listener sits with the telephone to his ear, and so long as the taps are normal he does nothing. Directly a false sound-which is very distinct from the normal sound-is heard, he at once signals for the spot to be marked. By this means he is able not only to detect a flaw, but to localize it. Some experiments recently made in England to test the apparatus on samples--steel and iron--belonging to the South-Eastern Railway Company. The first sample tested was pronounced to be bad metal throughout, while in others the flaws were localized. On breaking some of the bars of wrought and cast iron, the positions of the internal flaws were found to have been correctly ascertained. With some samples the inventor was less successful. It remains to be seen whether the "Sciseophone"-for so the instrument is called-will serve in the hands of such operators as are likely to be found on engineering works.

EXPANSION OF A LONG STEAM PIPE.

Several months ago, a careful determination of the expansion of a long steam pipe was made by direct measurement, at the University of Minnesota. The pipe was laid in a brick walled trench, or conduit, supported on rollers, and the experiment was made before covering up. This was a 4-inch wrought iron steam pipe, the part measured being a straight section 210,697 feet, or 2528.36 inches long, terminating at each end in an elbow.

The length was first accurately measured (between two points marked on the inner faces of the elbow flanges) by means of a standard steel tape.

At each end of the pipe, a strip of iron was built up in brick piers, so that the strip passed over the top of the pipe, a few inches inside of the elbow flange, with which it was parallel. The strips were stationary and entirely free from the pipe, so that by calipering the distance between a strip and the flange, before and after heating the pipe, the movement at that end could be accurately measured. This operation was, of course, gone through with at the other end as well, the sum of the two giving the total elonga-

The measurements were taken between 3 and 4 p.m. of a cool, cloudy day, and as the temperature had been very constant for several hours, it was assumed that the temperature of the pipe was the same as that of the air in the conduit, viz., 43 degrees F. Having taken the initial measurements and this temperature, steam was turned on and allowed to remain until no further expansion was observed. temperature was read by a good thermometer and checked by a steam gauge, both inserted in the pipe. The average temperature was taken at 300 degrees, making the range of temperature 300-43 = 257 degrees. The clongation in the 2528.36 inches of pipe was found to be 2.28 inches at one end and 2.17 inches at the other, giving a total experience of 4.45 inches. The elongation per unit of length per degree Fahrenheit was therefore:

 $\frac{7.75}{2528.26 \times 257} = .0000685$ units.

This means that the expansion per degree F. was .000c0685 of an inch per inch of original length, or the same fraction of a foot for each foot of the original length, This is equivalent to an extension of .00822 inches in each 100 feet of original length, per degree, or to a linear expansion of 1.48 inches (nearly) per 100 feet, in changing the temperature from 32 degrees to 212 degrees.

Prices of Building Materials. LUMBER.

| LUMBER. | | |
|--|--|--|
| CAN OR CARGO LOTS. 1½ and thicker clear picks, Am. ins. \$30 00@32 00 1½ and thicker, three uppers, Am ins. 37 00 1½ and thicker, pickings, Am ins. 27 00 1½ and thicker, pickings, Am ins. 27 00 1½ and 12 dressing and better. 18 00 20 00 1 x 10 and 12 mill run. 13 00 14 00 1 x 10 and 12 common. 12 00 13 00 1 x 10 and 12 common. 10 00 11 00 1 x 10 and 12 spruce Culls. 10 00 11 00 1 x 10 and 12 mill run. 10 00 11 00 1 inch clear and picks. 28 00 30 00 1 inch derssing and better 18 00 20 00 1 inch siding, mill run. 14 00 16 00 1 inch siding, common 17 00 12 07 1 inch siding, ship culls. \$10 00 \$11 00 | | |
| 1 inch siding, mill culls | | |
| 1 inch strips, common. 11 00 12 00 15 inch strips, common. 12 00 15 00 15 inch flooring. 14 00 15 00 15 inch flooring. 14 00 16 00 XXX shingles, sawn. 2 30 42 35 XX shingles, sawn. 1 50 1 35 | | |
| Metallic Roofing Co. of Canada: Per Square. Eastlake steel shingles (galvanized), \$5 25 to \$5 73 | | |
| Improved Broad Rib Roofing, (gal- vanized) | | |
| North Western steel siding (painted) 3 25 3 50 Manitoba steel siding ainted) 3 25 3 50 | | |
| Tower or Mansard shingles, (ga). vanized) | | |
| Metallic Terra Cotta Tiles | | |
| Canada Galvanizing & Steel Roofing Co.: | | |
| Corrugated Iron, galvanized, 26 W.G., p.r lb Scts. Corrugated Iron, galvanized, 28 W.G., SX Corrugated Iron, painted, 26 W.G., | | |
| per square | | |
| square 5 50 | | |

Wetlake shingles, steel, galvanized, per square...
Westlake shingles, steel, painted...
Standard shingles, "Walter's patent," galvanized, per square...
Sindard shingles, "Walter's patent," painted...
Northwestern steel siding, patented, per square...
Metallic Finish Brick, per square...
Metallic Finish Clapboard, per square

5 50

4 00

| YARD QUOTATIONS. | | |
|---|---|--|
| Mill cull boards and scantling Shipping cull boards, promiscuous | ٠. | 10 00 |
| widths | | 13 00 |
| | 1 00 | 13 00 |
| 10 1 | 3 00 | 14 00 |
| Scentling and loist, up to 16 ft | | 14 00 15 00 |
| n 4 20 fl 4 4 22 fl | | 17 00 |
| 11 11 24 ft 11 11 26 ft | | 21 00 23 00 |
| n n 20 ∯ | | 25 00 27 00 |
| 11 11 72 ft 11 11 34 ft | | 27 00 |
| 11 11 36 ft | | 29 50 31 00 |
| " 38 ft " 40 to 44 ft | | 33 00 36 00 |
| Cutting up planks, 1 % and thicker, dry 2 | 5 00 8 00 | 83 00 50 00 |
| Cedar for block paving, per cord Cedar for Kerbing, 4 x 14, per M | | 5 00 14 00 |
| 2. M. | | |
| 1 1/2 inch flooring dressed, F. M 2 1 1/2 inch flooring rough, B. M 1 1 1/2 dressed, F. M 2 | 8 00 8 00 | 31 00 32 00 |
| dressed, F. M s undressed, B. M s | . 00 | 28 OO |
| " dressed, | 8 00 8 00 | 10 00 |
| undressed 1 Beaded sheeting, dressed 2 | 2 00 | 35 OC |
| Beaded sheeting, dressed | a 65 | 13 00 |
| Red oak | 3 00 10 00 | 2 75 2 20 40 00 |
| White | 5 00 8 00 | 45 00 30 00 |
| Cherry, No. 1 and 2 | 000 | 70 00 |
| White ash, No. 1 and 2 | 5 00 | 30 00 35 00 |
| Picks, American inspection | 6 00 | 49 00 49 00 |
| Three uppers, American inspection | | 50 00 |
| BRICK—₩ M Common Walling | | \$7 50 |
| Good Facing Sewer | | 9 00 |
| Pressed Brick: | | yω |
| Plain brick, f. o. b. at Milton, per M " and quality, per M " 3rd " 3rd " 4rd " 4rd | \$ | 18 ∞ |
| 2nd duality, per M | , | 14 00 |
| modiced and Offichierial, per 100 | \$ 3 to | 8 00 |
| Roof Tiles | | 74 00 16 00 |
| First quality, f.o.b. at Campbellville, per 8 | | 18 00 |
| First quality, f.o.5. at Campbellville, per 2 and """"""""""""""""""""""""""""""""""" | | 74 00 |
| ornamental, per 100 | . \$ 3 to | 10 00 24 60 |
| Stone. | • | -4 00 |
| Common Rubble, Per Toise, delivered | | |
| Laire flat u u u | | 14 00 |
| Large flat " " Cubic Foot | | 14 00 18 00 50 |
| Foundation Blocks, " Cubic Foot State: Roofing (P square). | | 18 00 |
| Foundation Blocks, a Cubic Foot State: Roofing (V square). | | 50 18 00 |
| Foundation Blocks, " Cubic Foot State: Roofing (V square). " red " purple | | 38 UO 9 OO 0 OO |
| Foundation Blocks, " Cubic Foot State: Roofing (V square). " red " purple | | 50 18 00 9 00 9 00 7 75 25 00 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (V square). " red " purple " unlading green black slate Terra Cotta Tile, per sq Ornamental Black Slate Roofing | | 38 UO 9 OO 0 OO |
| Foundation Blocks, " Cubic Foot State: Roofing (V square). " red " purple | | 50 18 00 9 00 9 00 7 75 25 00 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (V square). "red | | 50 18 00 9 00 9 00 7 75 25 00 8 25 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (V square). "red | | 30 18 00 9 00 9 00 7 75 25 00 8 25 1 25 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (V square). "red." "purple." "unlading green. "black slate. Terra Cotts Tile, per 80. Ornamental Black Slate Roofing. Sant: Per Load of 1½ Cubic Yards PAINTS. (In oil. * 1b.) White lead, Can. "inc, Can. Red lead, Eng. | 6 25 636 536 | 18 00 9 00 9 00 7 75 25 00 8 25 1 25 6 50 7 50 6 54 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (\$\psi\$ square). " purple. " unlading green. " black slate. Terra Cotta Tile, per \$40. Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards PAINTS. (In oil. \$\psi\$.) White lead, Can. " inc. Can. Red lead, Eng. " venetian. " venetian. | 6 25 61/2 51/4 51/4 50 90 | 50 18 00 9 00 9 00 7 75 25 00 8 25 1 25 6 50 7 50 6 55 1 75 1 75 1 70 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (V square). "purple. "unlading green. "black slate. Terra Cotta Tile, per 80. Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards PAINTS. (In oil, V lb.) White lead, Can. "inc. Can. Red lead, Eng. "venetian. "venetian. "venetian. "lodian, Eng. "Vellow ochre. | 6 25 634 534 1 60 90 | 50 18 00 9 00 7 75 25 00 8 25 1 25 6 50 7 50 6 64 1 75 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (\$\psi\$ square). "purple." "purple." "black slate. Terra Cotta Tile, per sq. Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards. PAINTS. (In oil, \$\psi\$ ib.) White lead, Can. "inc, Can. Red lead, Eng. "vernetian. "vernillion." "Indian, Eng. Vellow ochre. Vellow ochre. | 6 25 6½ 5½ 5 60 90 10 5 | 18 00 9 00 7 75 25 00 8 25 1 25 6 30 7 50 6 30 1 75 1 75 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (\$\psi\$ square). "purple." unlading green. "black slate. Terra Cotta Tile, per sq. Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards. PAINTS. (In oil, \$\psi\$ lb.) White lead, Can. "inc, Can. Red lead, Eng. "verntilan. "verntilan. "verntilan. "lidian, Eng. Yellow ochre. Yellow ochre. Green, chrome. | 6 25 6 33 1 60 90 10 5 15 7 7 7 7 5 | 50 18 00 9 00 7 75 25 00 8 25 1 25 6 30 7 50 6 30 7 75 1 00 20 1 75 1 00 20 40 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (\$\psi\$ square). "purple." unlading green. "black slate. Terra Cotta Tile, per sq. Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards. PAINTS. (In oil, \$\psi\$ lb.) White lead, Can. "inc, Can. Red lead, Eng. "verntilan. "verntilan. "verntilan. "lidian, Eng. Yellow ochre. Yellow ochre. Green, chrome. | 6 25 6½ 5½ 1 60 90 10 5 15 7 | 50 18 00 9 00 7 75 25 00 8 25 1 25 6 50 7 50 6 10 1 75 1 00 20 20 40 20 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (\$\psi\$ square). "purple." unlading green. "black slate. Terra Cotta Tile, per sq. Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards. PAINTS. (In oil, \$\psi\$ lb.) White lead, Can. "inc, Can. Red lead, Eng. "verntilan. "verntilan. "verntilan. "lidian, Eng. Yellow ochre. Yellow ochre. Green, chrome. | 6 25 6½ 5½ 1: 60 90 10 5 15 7 7 15 15 15 | 50 18 00 9 00 7 75 25 00 8 25 1 25 6 50 7 50 6 75 1 20 1 20 1 20 1 20 2 20 2 20 2 20 2 20 |
| Foundation Block, "Cubic Foot. Slate: Roofing (V square). "purple "unlading green. "black slate. Terra Cotta Tile, per 80. Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards PAINTS. (In oil, V lb.) White lead, Can. "zinc, Can. Red lead, Eng. "venetian. "venetian. "venetian. "venetian. "Vellow othre. Yellow chrome. Green, chrome. Faris. Plack, lamp. Blue, ultramarine. Oil, linseed, raw (& Imp. gallon). "boiled" refined, | 6 25 35 60 5 15 7 25 15 15 15 15 15 15 15 15 15 15 15 15 15 | 18 00 9 00 9 00 9 00 8 25 1 25 1 75 1 00 12 10 10 12 10 27 7 75 10 27 12 20 12 20 10 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (\$\psi\$ square). "purple." unlading green. "black slate. Terra Cotts Tile, per sq. Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards. PAINTS. (In oil. \$\psi\$ ib.) White lead, Can. "inc, Can. Red lead, Eng. "verntillion." Indian, Eng. Yellow ochre. Yellow ochre. Yellow chrome. "Paris. "Plack, lamp. Hlue, ultramarine. Oil, linseed, raw (\$\psi\$ imp. gallon). "refined, Putty. Putty. Whiting, dry. Paris white Eng., dry. | 6 25 6 6 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 50 9 00 9 00 9 00 25 00 8 25 1 25 1 25 1 10 10 10 10 10 10 10 10 10 10 10 10 10 1 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (V square). "purple "unlading green "black slate" Terra Cotta Tile, per sq. Ornamental Black Slate Roofing. Sant: Per Load of 1½ Cubic Yards PAINTS. (In oil. V lb.) White lead, Can "inc, Can Red lead, Eng. "venetian "vermillion. "lodian, Eng. Yellow ochre Yellow chrome Green, chrome | 6 25 66 66 66 66 66 66 66 66 66 66 66 66 66 | 50 9 00 9 00 7 75 8 23 1 25 6 50 7 750 6 24 1 20 1 20 20 7 72 7 75 8 5 2 72 2 72 2 72 2 72 2 72 2 72 2 72 2 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (\$\psi\$ square). "purple "unlading green "block slate" Terra Cotta Tile, per \$0. Ornamental Black Slate Roofing. Sant: Per Load of 1½ Cubic Yards PAINTS. (In oil. \$\psi\$) White lead, Can "inc. Can Red lead, Eng "venetian "vermillion. "Indian, Eng Yellow ochre Yellow chrome Green, chrome "Paris. Plack, lamp. Blue, ultramarine Cil, linseed, saw (\$\psi\$ Imp. gallow). "boiled ""rfined, Putty Whiting, dry Paris white Eng., dry Litharge, Am. Sienna, burnt. Umber, "" | 6 25 6 6 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 50 9 00 9 00 9 00 9 00 1 25 1 25 1 25 1 25 1 25 1 20 1 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (\$\psi\$ square). "purple." "black slate. Terra Cotta Tile, per sq. Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards. PAINTS. (In oil, \$\psi\$ lb.) White lead, Can. "inc, Can. Red lead, Eng. "verntilan. "verntilan. "verntilan. "lidian, Eng. Yellow ochre. Yellow ochre. Yellow chrome. Green, chrome. "Paris. "Plack, lamp. Blue, ultramarine. Cil, Jinseed, raw (\$\psi\$ Imp. gallon). "refined, Putty. Whiting, dry. Paris white Eng., dry. Litharge, Am. Sienna, burnt. Umber, " CEMENT, LIME, etc. | 6 25 66 66 66 66 66 66 66 66 66 66 66 66 66 | 50 9 00 9 00 9 00 25 00 8 25 1 25 1 25 1 25 1 25 1 20 1 20 2 20 2 20 2 20 2 20 2 20 2 20 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (V squarz). "purple. "unlading green. "black slate. Terra Cotts Tile, per \$0. Ornamental Black Slate Roofing. Fand: Per Load of 1½ Cubic Yards PAINTS. (In cil., V lb.) White lead, Can. "inc. Can. Red lead, Eng. "venetian. "venetian. "venetian. "venetian. "lodian, Eng. Yellow ochre. Yellow chrome. Green, chrome. "Paris. Plack, lamp. Blue, ultramarine. Cil, linseed, raw (& Imp. gallon). "refined, Putty. Whiting, dry. Paris white Eng., dry. Litharge, Am., Sienna, burnt. Umber, OEMENT, LIMB, etc. Lume. Per Barrel of a buthele. Grey. | 6 25 66 66 66 66 66 66 66 66 66 66 66 66 66 | 50 18 00 9 00 9 00 25 00 8 25 1 25 6 30 7 50 1 20 1 20 1 20 2 5 2 7 2 7 3 8 2 7 2 7 3 8 2 8 2 8 2 8 2 8 2 8 2 9 2 9 2 9 2 9 2 9 2 9 2 9 2 9 |
| Foundation Block, "Cubic Foot. Slate: Roofing (V square). "purple "unlading green "black slate" Terra Cotta Tile, per 80 Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards PAINTS. (In oil. V lb.) White lead, Can "inc. Can Red lead, Eng "venetian | 6 25 66 66 66 66 66 66 66 66 66 66 66 66 66 | 50 18 00 9 00 9 00 25 00 8 25 1 25 1 75 1 75 1 00 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 |
| Foundation Block, "Cubic Foot. Slate: Roofing (V square). "purple "unlading green "black slate" Terra Cotta Tile, per 80 Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards PAINTS. (In oil. V lb.) White lead, Can "inc. Can Red lead, Eng "venetian | 6 25 66 66 66 66 66 66 66 66 66 66 66 66 66 | 50 18 00 9 00 9 00 9 00 12 5 25 00 8 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 2 10 2 20 2 20 |
| Foundation Block, "Cubic Foot. Slate: Roofing (V square). "purple "unlading green "black slate" Terra Cotta Tile, per 80 Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards PAINTS. (In oil. V lb.) White lead, Can "inc. Can Red lead, Eng "venetian | 6 25 36 5 5 6 5 5 6 5 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 8 5 | 50 18 00 9 00 9 00 125 00 8 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 2 20 2 20 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (V squarz). "purple. "unlading green. "black slate. Terra Cotts Tile, per \$0. Ornamental Black Slate Roofing. Fand: Per Load of 1½ Cubic Yards PAINTS. (In cil., V lb.) White lead, Can. "inc. Can. Red lead, Eng. "venetian. "venetian. "venetian. "venetian. "lodian, Eng. Yellow ochre. Yellow chrome. Green, chrome. "Paris. Plack, lamp. Blue, ultramarine. Cil, linseed, raw (& Imp. gallon). "refined, Putty. Whiting, dry. Paris white Eng., dry. Litharge, Am., Sienna, burnt. Umber, OEMENT, LIMB, etc. Lume. Per Barrel of a buthele. Grey. | 6 25 36 5 5 6 5 5 6 5 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 8 5 | 50 18 00 9 9 00 25 00 8 25 1 75 1 75 1 1 00 1 2 2 1 2 3 1 7 5 2 1 2 3 2 2 0 2 2 2 0 2 3 2 0 3 3 0 3 3 0 3 3 0 3 3 0 3 3 0 3 5 0 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (\$\psi\$ square). "purple." unlading green. "black slate. Terra Cotts Tile, per sq. Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards PAINTS. (In oil. \$\psi\$ lb.) White lead, Can. "inc, Can. Red lead, Eng. "venetian. "vermillion. Indian, Eng. Yellow ochre. Yellow ochre. Yellow chrome. Green, chrome. Green, chrome. "Paris. Black, lamp. Blue, ultramarine. Cil, Jinsed, raw (\$\psi\$ imp. gallom). "" boiled "" refined, "" Whiting, dry. Paris white Eng., dry. Litharge, Am., Sienna, burnt. Umber, "" OEMENT, LIMB, etc. Lume, Per Barrel of 2 bushels, Grey. "" White Plaster, Calcined, New Brunswick. "" Nova Scotia. "" Nova Scotia. "" Hair, Plasterers', per beg. Cement, Portland, per bbl. "" "Napanee, "" "" HARDWARE. | 6 25 36 5 5 6 5 5 6 5 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 8 5 | 18 00 00 9 00 12 00 8 25 1 25 1 25 1 25 1 25 2 20 2 2 20 2 2 20 2 2 2 2 2 2 2 2 2 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (\$\psi\$ square). " purple "United space of the content of the | 6 25 36 5 5 6 5 5 6 5 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 8 5 | 50 18 00 9 00 9 00 12 00 8 25 1 25 1 25 1 25 1 20 1 20 2 20 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (\$\psi\$ square). " purple "United space of the content of the | 6 25 36 5 5 6 5 5 6 5 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 8 5 | 50 18 00 9 00 9 00 12 00 8 25 1 25 1 25 1 25 1 20 1 20 2 20 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (\$\psi\$ square). " purple "United space of the content of the | 6 25 36 5 5 6 5 5 6 5 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 8 5 | 18 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (\$\psi\$ square). " purple "Unitading green black slate." Terra Cotta Tile, per \$0. Ornamental Black Slate Roofing. Sant: Per Load of 1½ Cubic Yards PAINTS. (In oil. \$\psi\$) White lead, Can. "inc. Can. Red lead, Eng. "venetian. "vermillion "Indian, Eng. Yellow ochre. Yellow ochre. "Paris. Plack, lamp. Blue, ultramarine. Oil, linseed, saw (\$\psi\$ lm\(p\) gallon). "boiled" "refined, "putty. Whiting, dry. Paris white Eng., dry. Litharge, Am. Sienna, burnt. Umber, CEMENT, LIMB, etc. Lune, Per Barrel of 2 bushels, Grey. "White Plaster, Calcined, New Brunswick. "Nova Scotia. Hair, Plasterers', per bag. Cement, Portland, per bbl. "Thorold, "Queenston, "Napanee, "Hull, " HARDWARE. Cut Natls: American Pattern, 1½ inch, per keg. "1½ to 1½ inch, per keg. | 6 25 36 5 5 6 5 5 6 5 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 8 5 | 18 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (\$\psi\$ square). " purple " unlading green " black slate. Terra Cotta Tile, per \$0. Ornamental Black Slate Roofing. Sant: Per Load of 1½ Cubic Yards PAINTS. (In oil. \$\psi\$) White lead, Can. "inc. Can. Red lead, Eng. "venetian. "vermillion. Indian, Eng. Yellow ochre. Yellow chrome. "Paris. Holeck, lamp. "Blue, ultramarine. Cil. Jinsed, raw (\$\psi\$ Im\$ gallow). "boiled " refined, Putty Whiting, dry. Paris white Eng., dry. Litharge, Am. Sienna, burnt. Umber, " OEMENT, LIME, etc. Lime, Per Barrel of 2 bushels, Grey. "White Plaster, Calcined, New Brunswick. New | 6 25 36 5 5 6 5 5 6 5 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 8 5 | 50 18 00 9 00 9 00 12 00 8 25 1 25 1 25 1 25 1 20 1 20 2 20 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (\$\psi\$ square). " purple " unlading green " black slate. Terra Cotta Tile, per \$0. Ornamental Black Slate Roofing. Sant: Per Load of 1½ Cubic Yards PAINTS. (In oil. \$\psi\$) White lead, Can. "inc. Can. Red lead, Eng. "venetian. "vermillion. Indian, Eng. Yellow ochre. Yellow chrome. "Paris. Holeck, lamp. "Blue, ultramarine. Cil. Jinsed, raw (\$\psi\$ Im\$ gallow). "boiled " refined, Putty Whiting, dry. Paris white Eng., dry. Litharge, Am. Sienna, burnt. Umber, " OEMENT, LIME, etc. Lime, Per Barrel of 2 bushels, Grey. "White Plaster, Calcined, New Brunswick. New | 6 25 36 5 5 6 5 5 6 5 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 8 5 | 50 00 99 00 1 25 00 1 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (\$\psi\$ square). " purple " unlading green. " black slate. Terra Cotta Tile, per \$0. Ornamental Black Slate Roofing. Sant: Per Load of 1½ Cubic Yards PAINTS. (In oil. \$\psi\$ 16.) White lead, Can. " inc. Can. Red lead, Eng. " venetian. " vernetian. " vernetian. " lindian, Eng. Yellow ochre. Yellow chrome. Green, chrome. " Paris. Blue, ultramarine. Cil., linseed, saw (\$\psi\$ imp. gallow). " boiled" " refined, Putty Whiting, dry. Paris white Eng., dry. Litharge, Am. Sienna, burnt. Umber, CEMENT, LIMB, etc. Lune, Per Barrel of 2 bushels, Grey. " White Plaster, Calcined, New Brunswick. " Nova Scotia. Hair, Plasterer: per bag. Cement, Portland, per bbl. " Thorold, " Queenston, " Napanee, " " Hull, WARDWARE. Cut Nails: American Pattern, 1½ inch, per keg. " 1½ to 1½ inch, per keg. " 2 to 2½ inch, " " Steel nails 10c. per keg. " 1½ to 1½ inch, per keg. " 1½ to 1½ inch, per keg. " 1½ inch, " " Steel nails 10c. per keg. " 1½ inch, " " 1½ inch, | 6 25 36 5 5 6 5 5 6 5 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 8 5 | 50 00 00 00 12 12 10 10 10 12 12 10 10 10 12 12 10 10 10 12 12 10 10 10 12 12 10 10 10 12 12 10 10 10 12 12 10 10 10 12 12 10 10 10 12 12 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| Foundation Blocks, "Cubic Foot. Slate: Roofing (\$\psi\$ square). "purple." "unlading green. "black slate. Terra Cotta Tile, per \$0. Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards PAINTS. (In cil. \$\psi\$ lb.) White lead, Can. "sinc, Can. Red lead, Eng. "venetian. "vernetian. "vernetian. "lodian, Eng. Yellow ochre. Yellow chrome. Green, chrome. "Paris. Plack, lamp. Blue, ultramarine. Cil, linseed, raw (\$\psi\$ Imp. gallon). "refined, Putty. Whiting, dry. Paris white Eng., dry. Litharge, Am., Sienna, burnt. Umber, OEMENT, LIME, etc. Lume, Per Barrel of 2 bushels, Grey. "Whiting, dry. Plaster, Calcined, New Brunswick. "Nova Scotia. Hair, Plasterers', per beg. Cement, Portland, per bbl. "Nova Scotia. "Hair, Plasterers' per beg. Cement, Portland, per bbl. "Nova Scotia. "Hair, Plasterers' per beg. Cement, Portland, per bbl. "Nova Scotia. "Hair, Plasterers' per beg. Cement, Portland, per bbl. "Nova Scotia. "Hair, Plasterers' per beg. Cement, Portland, per bbl. "Nova Scotia. "Hair, Plasterers' per beg. Cement, Portland, per bbl. "Nova Scotia. "Hair, Plasterers' per beg. Cement, Portland, per bbl. "Nova Scotia. "Hair, Plasterers' per beg. Cement, Portland, per beg. "Yho 1½ inch, per keg." "1½ to 1½ inch, per keg." | 6 25 36 5 5 6 5 5 6 5 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 7 8 5 6 7 8 5 | 50 00 00 9 7 50 1 25 00 00 1 25 00 1 2 |