one end over the other about three inches. Spread a layer of cement between the laps and nail down. Then spread a layer over the nails and joints and stick down a strip of common muslin about three inches wide over the nails and laps. If the roof overhangs the ends of the building, cut the lengths of the roofing long enough so as to allow being turned over the ends of the roof, and fasten with wood strips or suitable mouldings.

Where there are chimneys, skylights, fire-walls, etc., fit the roofing close to and around them, but do not turn up the edge unless fastened behind weatherboards. Then take a suitable quantity of cement and mix with it any dry mineral paint to consistency of stiff mortar, and apply it around the chimneys, etc., and nail through the roofing into the roof-boards, and upon the lath spread another heavy layer of cement, and a perfectly water-tight joint is formed. A very nice finish can be made around chimneys and along fire-walls by using a triangularshaped strip of wood.

After the roofing is all fastened to the roof-boards and the joints made secure, apply a thorough coat of cement over the whole surface of the roofing. Sanding the surface as heretofore directed may be omitted unless the roofing is to be used for walking upon, in this case the surface may be sanded when the cement is applied. In cool weather it is best to warm the cement to blood heat, as it then can be spread much more rapidly and with much greater ease.

The roofing should always be laid the same way the roof-boards run. If the boards are laid from eave to peak, run the roofing the same way, but thoroughly cement between the laps before nailing, so that there will be no possibility of the water working under the laps in driving storms.

Care should be taken to have the roofing laid smooth. See that in driving the nails they enter the board, and are not let loose in a crack. Drive the nails down solidly. Follow directions closely, and you will be well pleased with your roof.- The Master Roofer.

PORTLAND CEMENT.

The paper which Mr. Henry Faija read at the meeting of the British Association at Cardiff treated of some of the peculiarities to be observed in Portland cements, and on the most advanced methods for determining their constructive values. After dealing with the manufacture of Portland cement and the materials from which it is manufactured, the author proceeded to describe in detail the proportions of lime, silica and alumina which would constitute an ordinary Portland cement, and explained that their degree of chemical affinity materially affects the quality of the cement produced. With respect to the setting properties of a cement, the speaker explained that there were two periods which might with advantage be noted when carrying out a test; the one being the "initial set," or, in other words, the time which elapsed between the addition of water to the cement and its commencing to set, and the time when

it was "set hard"; the time of "initial set" being considered the most imporant as it represented the commencement of an actual chemical process, and that any disturbance of the cement after the setting or crystallization had commenced would detract from its ultimate strength, whereas the time of "set hard" was only a somewhat undefinable period, and really indicated no change in the chemical process, being only one step towards the ultimate hardness and strength which the cement would attain. The test, however, which the speaker considered the most important was that by which its "soundness," or freedom from expansion or contraction. was determined, and he explained that no matter in what time the cement set, to what fineness it was ground, or what tensue strength it developed within the limited period of an ordinary test, could possibly be of any value if the cement proved an unsound one, and that in the course of time it would "blow" and destroy the work of which it was a component. The method of determining the sile strength it developed within the soundness of a cement, which the speaker devised some ten years ago, was explained. It consists in submitting a freshly-made pat to a moist atmosphere of about 100 deg. F., and when set hard immersing it for some hours in water at a temperature of 115 deg. F. This treatment, he said, greatly expedites the set and hardening of a cement, and in like manner develops any blowing tendency which may exist in it, and consequently in the short time of twenty-four hours the "soundness" or "unsoundness" of a cement may be absolutely determined.

Prices of Building Materials.

LUMBER.

CAR OR CARGO LOTS

CVK ON CVERO PO131				
1½ and thicker clear picks, Am. ins. 1½ and thicker, three uppers, Am ins. 1½ and thicker, pickings, Am ins. 1½ and and 12 dressing and better. 1 x 10 and 12 mill run. 1 x 10 and 12 dressing. 1 x 10 and 12 common. 1 x 10 and 12 spruce cults. 1 x 10 and 12 maple cults. 1 x 10 and 12 maple cults.	18 13 14 12	00 00 00 00 00 00 00 00 00 00 00 00 00	37 27 20 14 16 13 11	888888888888888888888888888888888888888
r inch dressing and better	18	00		00
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z inch siding, ship culls	2:0	∞	211	0:0
z inch siding, mill culls	8	∞	0	00
Cull scantling	8	00	á	00
1% and thicker cutting up plank	22	00		00
1 inch strips, 4 in. to 8 in. mill sun		00		00
1 inch strips, common		00		00
1 1/2 inch flooring		∞		00
t 1/2 inch flooring	14	ω	16	00
XXX shingles, sawn	2	30	(K 2	35
XX shingles, sawn		30		35
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Metallic Roofing Co. of Canada:

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	P	er S	quar	c.
Eastlake steel shingles (galvanized), :	\$ <u>*</u>	25	10 55	75
Eastlake steel shingles (galvanized), : Eastlake steel shingles (painted) Improved Broad Rib Roofing, (gal-	3	75	4	00
vanized)	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, (gal-	-		-	
vanized)			6	25
Tower or Mansard shingles (painted)			4	50
Metallic Terra Cotta Tile				00
Price of Copper shingles according to	v	rci	ht, a	ເກປ
"Hayes" Patent Metallic Lathing acco	ıdı	ng:	to qu	AD:
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Canada Galvanizing & Steel Roofing Co.:

Carried City of the Control of the C	.6
Corrugated Iron, galvanized, 26 W.G.,	
per lb	5 cts.
per lb	5%
per square	4 00
per square Corrugated Iron, painted, 28 W. G., Broad Rib Roofing, galvanized, per	3 50
square squared, per	5 59
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 Standard shingles, "Walter's patent,"	5 50
painted	. 4∞
Northwestern steel siding, patented,	
Metallic Finish Brick, per square	3 50 3 25
Metallic Finish Clapboard, per square	3 46

SARD QUOTATIONS.	
Mill cull boards and scantling Shipping cull boards, promiscuous	to 00
Shipping cull boards, stocks Shipping cull boards, stocks Hemlock canting and joist up to 16 ft.	13 00
Hemlock cantling and joist up to 16 ft.	11 00 4 00
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Cutting up planks, 1 4 and thicker, dry board, Cedar for block naving, per cond.	31 00 33 00 30 00
Cutting up planks, 1 4 and thicker, dry	15 00 27 00 15 00 22 00
Cedar for block paving, per cord	,
	14 00
B. M.	28 ல ம⊲ ச
136 inch flooring rough, B. M	18 00 22 53
1 1/4 inch flooring, dressed, F. M 1/4 inch flooring rough, B. M 1/4 dressed, F. M undressed, B. M dressed, B. M	18 00 19 00
u undressed	18 00 32 (A) 12 00 15 (A)
XXX sawn shingles, per M, 16 in	2 65 2 74
Sawn lath Red oak White	~~ ~~ ~~
Basswood, No. 1 and 2	18 00 20 00
White ash, No. 1 and 2	25 00 25 0c
White Basswood, No. 1 and 2 Cherry, No. 2 and 2 White ash, No. 1 and 2 Black ash, No. 1 and 2 Dressing stocks. Picks, American inspection.	20 00 30 ∞ •6 00 22 00
Picks, American inspection Three uppers, American inspection	40 0-3 50 0-3
BRICK-V M	
Common Walling	\$7 50
Good Facing	8 50 90
Pressed Brick	
Plain brick, f. o. b. at Milton, per M " and quality, per M " 3rd Hard Building	\$18 00 14 00
Hard Roilding	10 05
niodided and Ornamental, per 100	23 10 10 07
Roof Tiles Diamond locking tile	24 00 16 00
First quality, 60.5 at Campbellville, per	M 18 00
ornamental, per 100	Sìto 10 00
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Stone.	-, -, -,
Stone. Common Rubble, Per Toise delivered	14 00
Stone. Common Rubble, Per Torse delivered Large flat " " " " Foundation Blocks, " Cubic Foot	14 00
Stone. Common Rubble, Per Torse delivered Large flat " " Cubic Foot State: Roofing (V square).	14 00 18 00 50
Stone. Common Rubble, Per Torse delivered Large flat " " " Foundation Blocks, " Cubic Foot State: Roofing (V square). " red " purple. " " " " " " " " " " " " " " " " " " "	14 00 18 00 50
Stone. Common Rubble, Per Torse delivered Large flat " " " Foundation Blocks, " Cubic Foot State: Roofing (V square). " red " purple. " " " " " " " " " " " " " " " " " " "	14 00 18 00 50
Stone. Common Rubble, Per Torse delivered Large flat "Foundation Blocks, "Cubic Foot State: Roofing (Viguary). "red "purple" "unlading green black slate	14 00 18 00 50
Stone. Common Rubble, Per Torse delivered Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (V square). "red "purple." "unlading green black slate. Terra Cotta Tile, per \$9. Ornamental Black Slate Roofing. Sand:	14 00 18 00 50 13 00 9 00 9 00 7 75 21 00 8 25
Stone. Common Rubble, Per Torse delivered Large flat "Foundation Blocks, "Cubic Foot State: Roofing (Vaguare). "red "purple" "unlading green black slate. Terra Cotta Tile, per Sq. Ornamental Black Slate Roofing. Band: Per Load of 11/2 Cubic Yards.	14 00 18 00 50 13 00 9 00 9 00 7 75 21 00 8 25
Stone. Common Rubble, Per Torse delivered Large flat "Foundation Blocks, "Cubic Foot State: Roofing (Viguary). "red "purple" "unlading green black slate Terra Cotta Tile, per Sq. Ornamental Black State Roofing. Sand: Per Load of 1½ Cubic Yards PAINTS. (In oil, Vib.)	14 00 18 00 50 13 00 9 00 9 00 7 77 21 00 8 25
Stone. Common Rubble, Per Torse delivered Large flat "Foundation Blocks, "Cubic Foot State: Roofing (Viguary). "red "purple" "unlading green black slate Terra Cotta Tile, per Sq. Ornamental Black State Roofing. Sand: Per Load of 1½ Cubic Yards PAINTS. (In oil, Vib.)	14 00 18 00 50 13 00 9 00 9 00 7 77 21 00 8 25
Stone. Common Rubble, Per Torse delivered Large flat "Foundation Blocks, "Cubic Foot State: Roofing (V square). "red "purple "undading green black slate." Terra Cotta Tile, per Sq. Ornamental Black Slate Roofing. Band: Per Load of 1½ Cubic Yards. PalNTS. (In oil, V lb.) White lead, Can. "zinc, Can Red lead, Eng. "venetian. "venetian.	14 00 18 00 50 13 00 9 00 7 75 25 00 8 25 1 25 6 27 6 50 6 27 6 50 5 27 6 7 50 5 27 6 7 50
Stone. Common Rubble, Per Torse delivered Large flat "Foundation Blocks, "Cubic Foot State: Roofing (V square). "red "purple "undading green black slate." Terra Cotta Tile, per Sq. Ornamental Black Slate Roofing. Band: Per Load of 1½ Cubic Yards. PalNTS. (In oil, V lb.) White lead, Can. "zinc, Can Red lead, Eng. "venetian. "venetian.	14 00 18 00 50 13 00 9 00 7 77 21 00 8 25 1 25 6 23 6 50 6 52 7 50 5 24 6 50 6 27 50 5 27 6 7 7 50 5 27 6 7 7 50 5 27 6 7 7 50 5 27 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7
Stone. Common Rubble, Per Torse delivered Large flat Foundation Blocks, Cubic Foot State: Roofing (& square)	14 00 18 00 50 13 00 9 00 9 00 7 72 21 00 8 25 1 25 6 25 6 50 6 25 7 50 7
Stone. Common Rubble, Per Torse delivered Large flat Foundation Blocks, Cubic Foot State: Roofing (& square)	14 00 18 00 50 13 00 9 00 7 75 21 00 8 25 1 25 6 27 6 50 6 37 7 50 5 36 6 32 1 60 1 7 5 1 60 1 7 5 90 1 00 10 12 5 10
Stone. Common Rubble, Per Torse delivered Large flat "Foundation Blocks, "Cubic Foot State: Roofing (V square). "red "purple." unlading green black slate. Terra Cotta Tile, per Sq. 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. "Vellow ochre. Yellow ochre. Yellow chrome. Green, chrome. "Paris. Black, lamp. Blue. ultramarine	14 00 18 00 9 00 9 00 7 75 22 00 8 25 1 25 6 25 6 50 6 52 7 50 5 55 6 50 1 60 17 50 90 1 00 10 12 10 10 12 10 11 20 12 20 13 40
Stone. Common Rubble, Per Torse delivered Large flat Foundation Blocks, Cubic Foot State: Roofing (V square)	6 23 6 50 656 7 50 10 12 15 10 12 15 10 17 12 15 10 17 12 15 10 17 12 15 10 17 12 15 10 15 12 15 10 15 12 15 10 15 12 15 10 15
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Stone. Common Rubble, Per Torse delivered Large flat Foundation Blocks, Cubic Foot State: Roofing (& square)	14 00 18 00 50 18 00 9 00 7 77 21 00 8 25 6 25 6 50 6 56 7 50 5 56 6 57 1 00 10 12 5 10 10 12 5 10 10 12 5 10 10 12 10 12
Stone. Common Rubble, Per Torse delivered Large flat Foundation Blocks, Cubic Foot State: Roofing (& square)	14 00 18 00 50 18 00 9 00 7 75 21 00 8 25 6 27 6 50 6 37 6 50 6 37 7 50 5 36 6 27 7 12 10 12 10 12 10 12 11 20 12 20 13 20 14 20 15 20 16 21 17 20 18 20 19 20 10 20
Stone. Common Rubble, Per Torse delivered Large flat Foundation Blocks, Cubic Foot State: Roofing (V square)	14 00 18 00 50 18 00 9 00 7 77 21 00 8 25 6 25 6 50 6 56 7 50 5 56 6 57 1 00 10 12 5 10 10 12 5 10 10 12 5 10 10 12 10 12
Stone. Common Rubble, Per Torse delivered Large flat Foundation Blocks, "Cubic Foot State: Roofing (V square). "purple" untading green black slate. Terra Cotta Tile, per \$0, Omamental Black Slate Roofing Sand: Per Load of 1½ Cubic Yards. PAINTS. (In oil, V lb.) White lead, Can "rinc, Can Red lead, Eng" vermillion "vermillion" "vermillion "ludian, Eng Yellow ochre Yellow chrome "Green, chrome "Paris Black, lamp Blue, ultramarine Oil, linked, raw fa Inns. callon) "therefore "Paris white Eng., dry Litharg Am Sienna, burnt. Umber, "	14 00 18 00 50 18 00 9 00 7 75 21 00 8 25 6 27 6 50 6 37 6 50 6 37 7 50 5 36 6 27 7 12 10 12 10 12 10 12 11 20 12 20 13 20 14 20 15 20 16 21 17 20 18 20 19 20 10 20
Stone. Common Rubble, Per Tone delivered Large flat Foundation Blocks, Cubic Foot State: Roofing (& square)	14 00 18 00 18 00 9 00 7 75 25 00 8 25 6 27 6 50 6 56 7 50 5 5 6 6 7 7 12 15 100 15 20 16 17 12 15 40 16 17 12 15 40 16 17 12 15 40 16 17 12 17 18 18 19 16 17 12 17 18 18 19 17 18 18 19 18 19 19 18 18 18 18 18 18 18 18 18 18 18 18 18 1
Stone. Common Rubble, Per Torse delivered Large flat Foundation Blocks, Cubic Foot State: Roofing (V square)	6 25 6 50 6 50 6 57 7 50 1 1 2 5 1 50 1 7 1 1 2 1 5 1 50 1 7 1 1 2 1 5 1 50 1 7 1 1 2 1 5 1 50 1 7 1 1 2 1 5 1 50 1 7 1 1 2 1 5 1 50 1 7 1 1 2 1 5 1 50 1 7 1 1 2 1 5 1 50 1 7 1 1 2 1 5 1 50 1 7 1 1 2 1 5 1 50 1 50 1 1 5 1 5 1 5 1 5 1 5 1 5
Stone. Common Rubble, Per Tone delivered Large flat "Foundation Blocks, "Cubic Foot State: Roofing (Viguare). "red "purple. "unlading green black slate. Terra Cotta Tile, per Sq. Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards. PAINTS. (In oil, ¥ lb.) White lead, Can. "inc, Can Red lead, Eng. "vernillien. "Indian, Eng. "vernillien. "Indian, Eng. "Yellow ochre. "Paris. Black, lamp. Blue, ultramarine Oil, linteed, raw fg Inns. Callon). "tefined. Putty. "boiled "tefined. "Paris white Eng., dry Litharg Am., Sienna, burnt. Umber, "CEMENT, LIME, etc. Lime, Per Barrel of 2 bushels, Grey. "White Platteren" are hard. "White Platteren" are hard.	14 00 18 00 9 00 7 750 21 00 8 25 1 25 6 25 6 50 6 56 7 70 5 56 65 7 70 1 00 1 00 1 10 1
Stone. Common Rubble, Per Torse delivered Large flat Foundation Blocks, Cubic Foot State: Roofing (V square)	14 00 18 00 9 00 7 750 21 00 8 25 1 25 6 25 6 50 6 56 7 70 5 56 65 7 70 1 00 1 00 1 10 1
Stone. Common Rubble, Per Torse delivered Large flat Foundation Blocks, "Cubic Foot State: Roofing (V square). "purple" "purple" "untading green black slate	6 25 6 50 6 50 6 50 6 50 7 50 50 10 12 15 10 12 15 10 12 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 15 15 15 15 15 15 15 15 15 15 15
Stone. Common Rubble, Per Torse delivered Large flat "Cubic Foot State: Roofing (V square). " purple " purple " untading green black slate." Terra Cotta Tile, per \$4. Omamental Black Slate Roofing. Band: Per Load of 1½ Cubic Yards. PAINTS. (In oil, V lb.) White lead, Can " inc. Can " vernetian "	6 25 6 50 6 50 6 57 7 50 1 1 5 6 5 7 1 7 1 1 1 1 5 6 5 6 5 7 1 7 1 1 1 1 5 6 5 6 5 7 1 7 1 1 1 1 5 6 5 6 5 7 1 7 1 1 1 1 5 6 5 6 5 6 5 7 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Stone. Common Rubble, Per Tone delivered Large flat "Foundation Blocks, "Cubic Foot State: Roofing (Viguare). "red "purple" unlading green black slate. Terra Cotta Tile, per Sq. Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards. PAINTS. (In oil, ¥ lb.) White lead, Can	6 25 6 50 6 50 6 50 6 50 7 50 50 10 12 15 10 12 15 10 12 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 15 15 15 15 15 15 15 15 15 15 15 15 15
Stone. Common Rubble, Per Torse delivered Large flat Foundation Blocks, Cubic Foot State: Roofing (V square)	14 00 18 00 9 00 9 00 9 00 9 00 17 75 00 18 25 16 0 17 17 17 17 17 17 17 17 17 17 17 17 17
Stone. Common Rubble, Per Torse delivered Large flat Foundation Blocks, "Cubic Foot State: Roofing (V square). " purple	6 33 6 50 6 50 6 50 7 750 5 37 6 50 7 750 5 100 10 10 10 10 10 10 10 10 10 10 10 10
Stone. Common Rubble, Per Torse delivered Large flat Foundation Blocks, "Cubic Foot State: Roofing (V square). " purple	6 33 6 50 6 50 6 50 7 750 5 37 6 50 7 750 5 100 10 10 10 10 10 10 10 10 10 10 10 10
Stone. Common Rubble, Per Torse delivered Large flat Foundation Blocks, "Cubic Foot State: Roofing (V square). " purple. " untading green black slate. Terra Cotta Tile, per \$0, Omamental Black Slate Roofing Sand: Per Load of 1½ Cubic Yards. PAINTS. (In oil, V lb.) White lead, Can. " inc, Can Red lead, Eng. " venetian. " vermillien. Indian, Eng. Yellow ochre. Yellow chrome. "Paris. Black, lamp. " Blue, ultramarine Oil, linteed, raw fa Inne. Callon). " interfaced, raw fa Inne. Callon). " interfaced, raw fa Inne. Callon). " interfaced, raw fa Inne. Callon). " CESIENT, LIAIE, etc. Lime, Per Barrel of 2 bushels, Grey. " White Plaster, Calcined, New Brunswick " Nova Scotta. Hair, Plasteres, per bag. Cement, Portland, per bbl. " Nova Scotta. Hair, Plasteres, per bag. Cement, Portland, per bbl. " Nova Scotta. Hair, Plasteres, per bag. Cement, Portland, per bbl. " Nova Scotta. Hair, Plasteres, per bag. Cement, Portland, per bbl. " Nova Scotta. Hair, Plasteres, per bag. Cement, Portland, per bbl. " Nova Scotta. Hair, Plasteres, per bag. Cement, Portland, per bbl. " Nova Scotta. Hair, Plasteres, per bag. Cement, Portland, per bdl. " Nova Scotta. Hail, Plasteres, per bag. Cement, Portland, per bdl. " Nova Scotta. Hair, Plasteres, per bag. Cement, Portland, per bdl. " Nova Scotta. Hail, Plasteres, per bag. Cement, Portland, per bdl. " Nova Scotta. Hail, Plasteres, per bag. Cement, Portland, per bdl. " Nova Scotta. Hail, per keg. " 1½ to 1½ inch, per keg. " 1½ to 1½ inch, per keg. " 2½ to 2½ inch, " 2½ to 2½ inch," " 2½ to 2½	6 25 6 50 6 50 6 50 7 750 6 50 7 750 100 110 110 110 110 110 110 110 110 1
Stone. Common Rubble, Per Torse delivered Large flat Cubic Foot Cubic Foot State: Roofing (V square). " purple	6 25 6 50 6 50 6 57 7 50 5 5 5 6 5 7 7 50 5 5 5 6 5 7 7 50 5 5 7 5 6 5 7 7 5 7 5 7 5 7 5 7 5 7 5 7