## A NEW SYSTEM OF TESTING CEMENT.

Prof. T. Hudson Beare, of the Liverpool University College, has contributed to the Builder an account of some experiments with Mr. Arnold's, method of gauging cement for testing, the object of which is to eliminate some of the errors incidental to the ordinary method of gauging test briquettes by hand. In this new system the molds are of the ordinary form and cross-section; but for briquettes, which when finished, are to measure an inch in thickness, they are 2 inches deep. The molds are placed on a stout, flat tray, with a shallow rim all around it, and are then filled with dry cement; a measured quantity (0.3 pound) being placed in each. A brass die of the exact shape and size of a finished briquette is then placed on top of the cement in each mold, compressing the contents. This compression is completed under a small hand screw press, which so compacts the dry powder that it only occupies half the mold; the die being

then flush with the top of the mold. The result of this part of the process is the formation of an exceedingly closely compacted briquette of dry cement exactly an inch thick. Water is then poured into the tray, and is taken · up · by · the · briquettes by capillary attraction, which goes on for 20 minutes, The molds are removed from the tray and placed on a table, die downwards, to set The. for 24 hours. after-procedure is precisely the same as with ordinary . cement . testing. At the end of the 24 hours the briquettes

are removed from the molds and placed in water, where they remain for their appointed time before being broken. Professor Beare found all the briquettes exceedingly compact and close-grained. Owing to the quantity of cement in each being about 15 per cent., in excess of that in ordinary test pieces, the strength was uniformly higher. It was shown, however, that the tests possessed remarkable uniformity-much more, indeed, than a clever manipulator could be expected to obtain by hand gauging. If, therefore, some such system were adopted, Professor Beare thinks one element of uncertainty, due to the personality of the gauger, might be climinated.

## TO MAKE FIREPROOF PAINT.

Twenty parts of finely pulverized glass, twenty parts of finely pulverized porcelain, twenty parts of any sort of stone in powder, ten parts of calcined lime, and thirty parts of water-glass (silicate of soda), such as is usually found in commerce. The solid elements having been powdered as finely

as possible and sifted, are moistened and then intimately mixed with the waterglass. This yields a mass of syrupy consistence that may be employed for painting, either alone or mixed with color. The addition of the lime gives a certain unctuosity to the mass for whitewashing, and its combination with the silicic acid of the soluble glass serves to bind the other materials together. The proportion of the different elements above mentioned may be changed save that of the waterglass, which must remain constant. These elements may even be replaced one by another; but it is always well to preserve the lime. Instead of silicate of soda (sol-uble glass of soda), soluble glass of potash might be usen; but the former is less ex-pensive. The coating is applied with a brush, as other paints are, as uniformly as possible over the surface to be protect-The first coat hardens immediately, and a second one may be applied six hours or more afterwards. Two coats are sufor more afterwards. This paint may likewise be employed as a preservative against rust, and used as a coating for iron bridges, etc.

1424 Notre Dame Street

Montreal. October 14 1690

6. H. Mortimer sag.
Rubosanadian architect & Duilder.
Dear Sie.

I have to inform you, that, the following sesolution was unanimously adopted, at the first annual meeting of the novince of Quebec association of architecto hald in Montreal on 10-4 11-4 inst!:

Moved by the Architecto of the Province of Suebec more assembled in consecuted by:

U. ? Dunlip. Canadian Contract Record afford us a direct communication with the contractor. Resolved: I shall we pleage our support to it by using its columns when calling for teacher.

## Prices of Building Materials.

Mill cull boards and scantling Shipping cull boards, promiscuous		10 00
Shipping cull boards, promiscuous widths.		13 00
widths. Shipping cull boards, promiscuous widths. Shipping cull boards, stocks Hemlock cantling and joist up to 16 ft.		14 00
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Scantling and loist, up to 16 ft		14 00 14 00
11 18 ft		15 00 17 00
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u u 28 ft		25 00 27 00
11 12 ft		27 00
11 11 34 ft		19 50 31 ∞
n n 38 ft n 40 to 44 ft		33 00 30 00
Cutting up planks, 1 % and thicker, dry	15 00	<b>26 0</b> 0
Cedar for block paving, per cord Cedar for Kerbing, 4 x 14, per M	18 00	## 00 5 00
		14 00
	8 oa	31 CO
1½ inch flooring rough, B. M	18 00	28 CO
undressed, B. M	8 00	19 00
" undressed	12 00	12 00 23 00
Braded sheeting, dressed 2 Clapboarding, dressed 2 XXX sawn shingles, per M, 16 in	2 00	12 00 35 00
XXX sawn shingles, per M, 16 in	2 65	2 75 2 20
Red oak	2 00 30 00	40 00
White	₹5 00	45 00 20 00
Cherry, No. 1 and 2	70 00	70 ∞
Black ash. No. 1 and 2	25 00 20 00	35 OC 30 OO
Dressing stocks	•6 ∞	22 00
Three uppers, American inspection		40 '00 50 00
BRICK-V M		
Common Walling		\$7 50 9 00
Sewer	8 50	9 00
Pressed Brick:		
Plain brick, f. o. b. at Milton, per M  " 2nd quality, per M " 3rd		18 co 4 00
Hard Building	,	4 00
Moulded and Ornamental, per 100	\$3 to	10 00
First quality, f.o.b. at Campbellville, per l	M	18 00
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Hard Building		8 00
Ornamental, per 100		10 00 24 00
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Foundation Blocks, ii Cubic Foot		
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Large Hat Foundation Blocks, "Cubic Foot. Slate: Roofing (V square). "red. "purple" unlading green. "black slate. "Terra Cotta Tile, per sq" Ornamental Black Slate Roofing		18 00 16 00 9 00
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Large Bat Foundation Blocks, "Cubic Foot. Foundation Blocks, "Cubic Foot. State: Roofing (\$\varphi\$ 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, \$\varphi\$ lb.) White lead, Can. "zinc, Can. Red lead, Eng. "verneitan. "vermillion. "Indian, Eng. Yellow ochre. Yellow chrome. "Yellow chrome. "Paris. Black lamp.	6 25 634 534 2 60 90 10 5 15 7 25	18 00 9 00 9 00 9 00 9 7 50 25 00 8 co 1 5 6 50 7 50 6 7 50 1 7 50 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1
Large. Hat Foundation Blocks, "Cubic Foot State: Roofing (\$\varphi\$ square).  "purple" "purple" "black slate" "black slate	6 25 632 5 360 90 10 5 25 7 25 15 68	18 00 16 00 9 00 9 00 17 50 18 00 1 5 6 50 7 50 6 1/3 1 00 1 10 1
Large. Hat Foundation Blocks, "Cubic Foot. State: Roofing (\$ square). "red." "purple." "unlading green. "unlading green. "Unlading green. "It black slate. "Cornamental Black Slate Roofing. "Sand: "PAINTS. (In oil, \$ lb.) White lead, Can. "inc, Can. "vernition. "vernition. "vernition. "Vernition. "Indian, Eng. "Vellow ochre. "Yellow ochre. "Paris. "Black, lamp. "Blue, ultramarine. "Black, lamp. "Blue, ultramarine. "Unlock of the poiled "" refined """ "efford """ "efford """ "efford """ "" "" "" "" "" "" "" "" "" "" "" "	6 25 5% 5% 2 60 90 10 5 15 72 15 15 68 72	16 00 9 00 9 00 9 00 9 00 9 00 9 00 9 00
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Large. Hat red Cubic Foot. State: Roofing (\$\varphi\$ square). red red red red red purple unlading green black slate Cornamental Black Slate Roofing State: Terra Cotta Tile, per sq Ornamental Black Slate Roofing Stand: Per Load of 1½ Cubic Yards.  PAINTS. (In oil, \$\varphi tb.) White lead, Can (In oil, \$\varphi tb.) White lead, Can	6 25 634 2 56 2 57 2 7 2 5 2 7 2 7 3 5 2 7 3 6 6 7 2 7 7 5 9 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7	18 00 00 00 00 00 00 00 00 00 00 00 00 00
Large. Hat red Cubic Foot. State: Roofing (\$ square).  " red red red red purple uniading green black slate Ornamental Black Slate Roofing Sand: PAINTS. (In oil, \$ lb.) White lead, Can rinc, Can verneitan verneitan verneitan verneitan verneitan verneitan vernillion Indian, Eng verneitan vernillion Indian, Eng verneitan vernillion Black, lamp Black, lamp Black, lamp Black, lamp boiled refined, Paris boiled refined, Putty white Eng., dry Litharge, Am., Sienna, burnt. Umber, White Plasterers, per bag Cement, Portland, per bbl White Plasterers, per bag Cement, Portland, per bbl White Plasterers, per bag Cement, Portland, per bbl Thorold,	6 25 634 2 56 2 57 2 7 2 5 2 7 2 7 3 5 2 7 3 6 6 7 2 7 7 5 9 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7	18 00 00 00 00 00 00 00 00 00 00 00 00 00
Large. Hat red Cubic Foot. State: Roofing (\$\varphi\$ square). red red red purple uniading green black slate Ornamental Black Slate Roofing Sand: Per Load of 1½ Cubic Yards PAINTS. (In oil, \$\varphi\$ lb.) White lead, Can rinc, Can Red lead, Eng vernetian vermillion Indian, Eng Yellow ochre Yellow ochre Yellow ochre Yellow chrome Green, chrome Black, lamp Black, lamp Black, lamp Black, lamp boiled refined, Putty white Eng., dry. Litharge, Am., Sienna, burnt Umber, White Plaster, Calcined, New Brunswick White Plaster, Calcined, New Brunswick	6 25 634 2 56 2 57 2 7 2 5 2 7 2 7 3 5 2 7 3 6 6 7 2 7 7 5 9 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7	18 00 00 00 00 00 00 00 00 00 00 00 00 00