

FROST-RESISTING POWER OF STONES.

Experiments on "the frost-resisting power of natural and artificial building stones" have been made by Mr. Bauschinger, as stated in the *Journal of the Society of Chemical Industry*, with 21 different kinds of natural building stones, three to six test pieces of each being used. Their tensile strength, dry and wet, their capacity for absorbing water, their alteration in volume, tensile strength and behavior towards water after freezing and and thawing 25 times, and their specific gravity, were determined. Out of this number of samples, ranging from limestone to sandstone, only six were found to resist repeated freezing, viz., one of dolomite, one of diorite and four sandstones. Four other samples were found to resist freezing fairly, but not absolutely; but of 41 samples of artificial stone similarly tested, only three were found thoroughly unaffected, while eight proved fairly resistant.

PRESERVATION OF IRON.

The preservation of iron and steel is a question that has given rise to much controversy. Not long since we noticed the alleged advantages of asphalt and coal-tar paints for ironwork, on the ground that mineral asphalt adhered more firmly to the surface, and did not peel or chip off. Iron oxide paints have been long recommended for their efficacy and suitability, inasmuch as these paints are made from iron or by a process with an iron base. Now a strong claim is put forward for red-lead as the best pigment for preserving iron and steel structures as "forming a hard elastic coating having a great tenacity for the iron." So says Mr. Woodruff Jones, A.M., in a paper in the *Railroad and Engineering Journal*, of New York, and he gives the following practice of one of the largest shipbuilding establishments in the United States, in applying red-lead to the hulls of Government vessels. "The plates are first pickled in a dilute solution of muriatic acid, then passed through rapidly revolving wire brushes, which remove all scale and dirt, leaving the iron with a bright smooth surface, then thoroughly washed with pure water and rubbed entirely dry, and immediately coated with red-lead and pure, raw linseed oil." The red-lead is first thoroughly mixed with enough oil to form a very thick paste. The paste, as wanted for use, is thinned down to the proper consistency for spreading with pure linseed oil, and applied at once. A gallon of paint will cover about 500 sq. ft. as a first coat. By this means it is stated the pigment obtains a close adherence to the iron. The plan of coating the iron with oil before painting with red-lead is said to be a mistake, as it prevents the paint from adhering to the surface. As the proof of the pudding is in the eating, we must wait for the results of this method of treatment, which in theory appears to be reasonable, as many other methods do which have been published of late. No mere theory of iron preservation by coating with paint will be worth much till we have reliable

evidence furnished of the durability of particular plans under certain conditions of the atmosphere.

A SKIN FOR STONE.

Soft oolitic limestone, or limestone with spherical granules, is now hardened into marble by treatment with a certain chemical solution, which gives to the stone a thick, strong skin about half an inch deep capable of fine polish. Soft oolite can thus be worked into any form and hardened afterward. The marble becomes impervious to damp and atmospheric influences.—*Popular Science News.*

TO BUILDERS.

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Prices of Building Materials.

LUMBER.

CAR OR CARGO LOTS.	
1 1/2 and thicker clear picks, Am. ins.	\$30 00/32 00
1 1/2 and thicker, three uppers, Am. ins.	37 00
1 1/2 and thicker, pickings, Am. ins.	27 00
1 x 10 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 dressing.	14 00 16 00
1 x 10 and 12 common.	12 00 13 00
1 x 10 and 12 spruce culls.	10 00 11 00
1 x 10 and 12 maple culls.	9 00
1 inch clear and picks.	28 00 30 00
1 inch dressing and better.	18 00 20 00
1 inch siding, mill run.	14 00 16 00
1 inch siding, common.	11 00 12 00
1 inch siding, ship culls.	\$10 00 \$11 00
1 inch siding, mill culls.	8 00 9 00
Cull scantling.	8 00 9 00
1 1/2 and thicker cutting up plank.	22 00 25 00
1 inch strips, 4 in. to 8 in. mill run.	14 00 15 00
1 inch strips, common.	11 00 12 00
1 1/2 inch flooring.	14 00 15 00
1 1/2 inch flooring.	14 00 16 00
XXX shingles, sawn.	2 30/2 35
XX shingles, sawn.	1 30/1 35

Metallic Roofing Co. of Canada:

Per Square.	
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).	2 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., per square.	5 1/2
Corrugated Iron, painted, 26 W.G., per square.	4 00
Corrugated Iron, painted, 28 W.G., per square.	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
Henlock 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 00
" " " 34 ft.	31 00
" " " 36 ft.	33 00
" " " 38 ft.	35 00
" " " 40 to 44 ft.	36 00
Cutting up planks, 1 1/2 and thicker, dry board.	25 00 26 00
Cedar for block paving, per cord.	18 00 22 00
Cedar for Kerbing, 4 x 14, per M.	5 00 14 00

B. M.

1 1/2 inch flooring, dressed, F. M.	28 00 31 00
1 1/2 inch flooring rough, B. M.	18 00 22 00
1 1/2 " " dressed, F. M.	25 00 28 00
" " " undressed, B. M.	18 00 19 00
" " " dressed.	18 00 22 00
" " " undressed.	12 00 15 00
Headed sheeting, dressed.	22 00 35 00
Clapboarding, dressed.	12 00
XXX sawn shingles, per M, 16 in.	2 65 3 75
Sawn lath.	2 00 2 20
Red oak.	30 00 40 00
White.	25 00 45 00
Basswood, No. 1 and 2.	18 00 20 00
Cherry, No. 1 and 2.	20 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	\$7 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	74 00
Diamond locking tile.	16 00
First quality, f.o.b. at Campbellville, per M	18 00
and " " " "	14 00
3rd " " " "	11 00
Ornamental, per 100.	\$3 to 10 00
Tiles.	24 00

Stone.

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

Slate: Roofing (per square).

" red.	18 00
" purple.	9 00
" untading green.	9 50
" black slate.	7 75
Terra Cotta Tile, per sq.	25 00
Ornamental Black Slate Roofing.	8 25

Sand:

Per Load of 1 1/2 Cubic Yards.	1 25
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PAINTS. (In oil, per lb.)

White lead, Can.	6 25 6 50
" zinc, Can.	6 1/2 7 50
Red lead, Eng.	5 6 6 1/2
" 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).	65 68
" " " boiled.	68 71
" " " refined.	78 85
Putty.	2 1/2 2 1/2
Whiting, dry.	75 1 00
Paris white Eng., dry.	90 1 25
Litharge, Am.	6 1/2 8
Sienna, burnt.	15 20
Umber.	8 1/2 12

CEMENT, LIME, etc.

Lime, Per Barrel of a bushels, Grey	40
" " " White	55
Plaster, Calcined, New Brunswick.	2 00
" " " Nova Scotia.	2 00
Hair, Plasterers', per bag.	1 00
Cement, Portland, per bli.	3 00 3 50
" Thorold.	1 50
" Queenston.	1 50
" Nananee.	1 50
" Hull.	1 50

HARDWARE.

Cut Nails:

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