

A fire-proof roofing, and one unaffected by the heat of the sun's rays and that will not melt or run, is made by adding burned lime (not slaked) to coal tar. Boil together in the proportion of fifteen pounds of lime to 100 pounds of tar. The lime must be pulverized, and to avoid the tar boiling over stir the lime slowly in the boiling tar. The mixture must be put on while hot.

PRESERVING ROPES.—In order to insure more safety in ropes used for scaffolding purposes, particularly in localities where the atmosphere is destructive of hemp fibre, such rope should be dipped when dry into a bath containing twenty grains of sulphate of copper per liter of water, and kept in soak in this solution some four days, afterwards being dried. The ropes will thus have absorbed a certain quantity of sulphate of copper, which will preserve them for some time both from the attacks of animal parasites and from rot. The copper salt may be fixed in the fibres of a coating of tar or by soapy water, and in order to do this it may be passed through a bath of boiled tar, hot, drawing it through a thimble to press back the excess of tar and suspending it afterwards on a staging to dry and harden. In a second method the rope is soaked in a solution of 100 grams of soap per liter of water.—*English Mechanic.*

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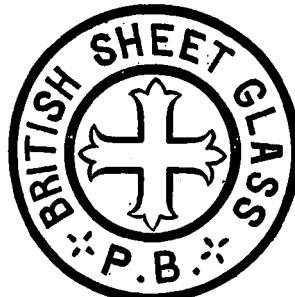
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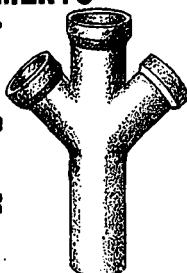
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QUEENSTON CEMENT STANDS AT THE HEAD OF ALL CANADIAN NATURAL CEMENTS.

Tests of Cements made by the Government during progress of work at Kingston Graving Dock, 1891, by Louis Coste, Acting Chief Engineer, Ottawa.

	TIME IN WATER	C. B. Wright & Sons Portland	English Portland Brand.	Green Portland Lion Brand	Synapse Portland	Montréal Portland	Queens- ton Cement	Thorold Cement	Quebec Cement	Napanee Cement	Hamilton Cement	Queens- ton Cement
Average tensile strength of 25 to 50 briquettes each, 1 in. square, made of neat Cement consistency of mortar.	7 days 30 6 months 9 12	371.04 523.70 119.12 154.52 666.16 686.76	310.04 445.96 549.20 654.52 666.16 686.76	392.06 424.32 350.84 594.76 629.36 not given	357.12 523.44 557.44 559.32 601.20 644.00	303.52 447.00 448.20 531.20 601.20 613.96	83.12 190.00 349.56 408.88 428.28	54.20 130.28 257.88 268.40 267.96	66.60 211.72 214.00 211.80 211.00	23.52 55.32 134.24 178.68 199.76 221.00	not given	not given
Average tensile strength of 25 to 50 briquettes of each Cement, 1 in. square, neat Cement rammed in mould.	7 days 30 6 months 9 12	376.12 421.28 337.94 514.71 637.74 649.24	467.70 512.20 541.30 623.40 611.12 628.40	395.80 379.40 420.60 427.60 408.20 416.12	434.72 423.88 488.20 549.88 546.08 533.12	343.32 423.88 510.24 549.88 546.08 533.12	186.18 271.08 417.56 472.16 484.84 484.84	206.92 131.00 147.76 193.76 289.36 256.32	172.12 161.16 193.92 211.80 289.36 306.00	69.92 66.77 131.16 226.84 264.00 278.82	not given	not given

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THOROLD, ONT.

NATURAL CEMENT TESTS.

Tests of Cements made by the Government during progress of Work at Kingston Graving Dock, 1891, by Louis Coste, Acting Chief Engineer, Ottawa.

	Time in water.	Thorold Cement.	Queens- ton Cement.	Napanee Cement.	2,000 Barrels Thorold Cement used in Kingston Graving Dock.
Thorold was the Only Canadian Natural Cement used in this Work.					
Test with 1 per cent. salt in water for tensile strain.	30 days. 60 days. 90 days.	177.10 270.40 297.50	189.90 240.10 248.80	101.40 187. 193.10	
Test with 8 per cent. salt in water for tensile strain.	30 days. 60 days. 90 days.	189.60 301.00 243.60	172.40 182.10 244.40	110.80 115.50 130.00	
Test with 2 per cent. salt in water for tensile strain.	30 days. 60 days. 90 days.	306.90 303.50 217.10	166.20 182.60 236.80	126.80 138. 158.40	
Test with 12 per cent. salt in water for tensile strain.	30 days. 60 days. 90 days.	323.10 371.70 344.30	164.40 175.80 189.30	197.60 207.30 218.50	

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