

(March 15, 1941)

CONCRETE AND REINFORCED CONCRETE

Publications by Members of the Staff of the National Bureau of Standards, together with a list of Federal Specifications.

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GENERAL INFORMATION

Some of the publications in this list have appeared in the regular series of publications of the Bureau and others in various scientific and technical journals. Unless specifically stated, papers are not obtainable from the National Bureau of Standards.

Where the price is stated, the publication can be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C. The prices quoted are for delivery to addresses in the United States and its territories and possessions and in certain countries which extend the franking privilege. In the case of all other countries, one-third the cost of the publication should be added to cover postage. Remittances should be made either by coupons (obtainable from the Superintendent of Documents in sets of 20 for \$1.00 and good until used), or by check or money order payable to the "Superintendent of Documents, Government

GENERAL INFORMATION (Continued)

Printing Office" and sent to him with order. Letter Circulars are obtainable, without charge, from the Bureau. Publications marked "OP" are out of print, but, in general, may be consulted at technical libraries.

For papers in other scientific or technical journals, the name of the journal or of the organization publishing the article is given in abbreviated form with the volume number (underscored), page, and year of publication, in the order named.

Serial letters are used to designate the several series of Bureau publications:

T = "Technologic Paper." T1 to T370. This series was superseded by the "Bureau of Standards Journal of Research" in 1928.

RP= "Research Paper." These are reprints of articles appearing in the "Bureau of Standards Journal of Research" and the "Journal of Research of the National Bureau of Standards," the latter being the title of this periodical since July 1934 (volume 13, number 1).

BH= "Building and Housing" publication.

BMS="Building Materials and Structures" publication.

C = "Circular."

CS = "Commercial Standard."

LC = "Letter Circular."

R = "Simplified Practice Recommendation."

Circular C24 and supplements, the complete list of the Bureau's publications (1901-1936), is sold by the Superintendent of Documents for 55 cents. Announcement of new publications is made each month in the Technical News Bulletin which is obtainable by subscription at 50 cents per year.

PART I. - TECHNOLOGIC PAPERS

	<u>Series</u>	<u>Price</u>
The strength of reinforced concrete beams, (first series). R. L. Humphrey and L. H. Losse. Tech. Pap. BS <u>1</u> , (1910-12).	T2	OP

PART I. - TECHNOLOGIC PAPERS (Continued)

	<u>Series</u>	<u>Price</u>
Tests of the absorptive and permeable properties of portland cement mortars and concretes, together with tests of dampproofing and waterproofing compounds and materials. R. J. Wig and P. H. Bates. Tech. Pap. BS <u>1</u> , (1910-12).	T3	OP
The effect of high-pressure steam on the crushing strength of portland cement and concrete. R. J. Wig. Tech. Pap. BS <u>1</u> , (1910-12).	T5	OP
Action of the salts in alkali water and sea water on cement. P. H. Bates, A. J. Phillips and R. J. Wig. Tech. Pap. BS <u>2</u> , (1912-14).	T12	OP
Electrolysis in concrete. E. B. Rosa, B. McCollum and O. S. Peters. Tech. Pap. BS <u>2</u> , (1912-14).	T18	OP
Strength and other properties of concretes as affected by materials and methods of preparation. R. J. Wig, G. M. Williams and E. R. Gates. Tech. Pap. BS <u>6</u> , (1915-16).	T58	OP
Durability of stucco and plaster construction. R. J. Wig, J. C. Pearson and W. E. Emley. Tech. Pap. BS <u>7</u> , (1916-17).	T70	OP
Tests of bond resistance between concrete and steel. W. A. Slater, F. E. Richart and G. G. Scofield. Tech. Pap. BS <u>14</u> , (1920-21)	T173	OP
Pouring and pressure tests of concrete. W. A. Slater and A. T. Goldbeck. Tech. Pap. BS <u>14</u> , (1920-21).	T175	OP
Effect of repeated reversals of stress on double-reinforced concrete beams. W. A. Slater, G.A. Smith and H. P. Mueller. Tech. Pap. BS <u>14</u> , (1920-21).	T182	OP
Fire tests of building columns. S. H. Ingberg, H. K. Griffin, W. C. Robinson and R. E. Wilson. Tech. Pap. BS <u>15</u> , (1921).	T184	75¢
Tests of a hollow tile and concrete floor slab reinforced in two directions. W. A. Slater, A. Hagener and G. P. Anthos. Tech. Pap. BS <u>16</u> , 727 (1921-22).	T220	25¢

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PART I. - TECHNOLOGIC PAPERS (Continued)

	<u>Series</u>	<u>Price</u>
Tests of heavily reinforced concrete slab beams. W. A. Slater and F. B. Seely. Tech. Pap. BS <u>17</u> , 297 (1922-24).	T233	OP
Loading tests of a hollow tile and reinforced concrete floor of Arlington Building, Washington, D. C. L. J. Larson and S. N. Petrenko. Tech. Pap. BS <u>17</u> , 405(1922-24).	T236	OP
Fire resistance of concrete columns. W. A. Hull and S. H. Ingberg. Tech. Pap. BS <u>18</u> , 635(1924-25).	T272	25¢
Tests of hollow tile and concrete slabs reinforced in one direction. D. E. Parsons and A. H. Stang. Tech. Pap. BS <u>19</u> , 465 (1924-25).	T291	OP
Durability of cement drain tile and concrete in alkali soils; fourth progress report (1923). G. H. Williams and I. Furlong. Tech. Pap. BS <u>20</u> , 191(1925-26).	T307	OP
Shear tests of reinforced concrete beams. W. A. Slater, A. R. Lord and R. R. Zippodt. Tech. Pap. BS <u>20</u> , 387(1925-26).	T314	50¢

PART II - RESEARCH PAPERS

Test of the effect of brackets in reinforced concrete rigid frames. F. E. Richart. BS J. Research <u>1</u> , 189(1928).	RP9	25¢
Tests of composite beams and slabs of hollow tile and concrete. D. E. Parsons and A. H. Stang. BS J. Research <u>4</u> , 215(1930).	RP181	15¢
The physical properties of cast stone. J. Tucker, Jr., G. W. Walker and J. A. Swenson. BS J. Research <u>7</u> , 1067(1931).	RP389	5¢
Tests of integral and surface waterproofings for concrete. C. H. Jumper. BS J. Research <u>7</u> , 1147(1931).	RP394	10¢
Areas and tensile properties of deformed concrete-reinforcement bars. A. H. Stang, R. L. Sweetman and C. Gough. BS J. Research <u>9</u> , 509(1932).	RP486	OP

PART II - RESEARCH PAPERS (Continued)

	<u>Series</u>	<u>Price</u>
Clay in concrete. D. A. Parsons. BS J. Research <u>10</u> , 257(1933).	RP529	OP
Tests on a reinforced-concrete arch of the Arlington Memorial Bridge. C. C. Fishburn and J. L. Nagle. BS J. Research <u>11</u> , 567(1933).	RP609	5¢
Experiments on exterior waterproofing materials for masonry. D. W. Kessler. J. Research NBS <u>14</u> , 317 (1935).	RP771	5¢
Effect of granulometric composition of cement on the properties of pastes, mortars and concretes. J. Arthur Swenson, Lacey A. Wagner and George L. Pigman. J. Research NBS <u>14</u> , 419(1935).	RP777	OP
Effect of calcium chloride on portland cements and concretes. Paul Rapp. J. Research NBS <u>14</u> , 499(1935).	RP782	OP
Behavior of high-early-strength cement concretes and mortars under various temperature and humidity conditions. Louis Schuman and Edward A. Pisapia. J. Research NBS <u>14</u> , 723(1935).	RP799	OP
Some tests of steel columns incased in concrete. Ambrose H. Stang, Herbert L. Whittenore and Douglas E. Parsons. J. Research NBS <u>16</u> , 265(1936).	RP873	10¢
Effects of partial prehydration and different curing temperatures on some of the properties of cement and concrete. F. B. Hornibrook, G. L. Kalousek, and C. H. Jumper. J. Research NBS <u>16</u> , 487(1936).	RP887	5¢
Effect of temperature on the stress-deformation of concrete. Arthur U. Theuer. J. Research NBS <u>18</u> , 195(1937).	RP970	5¢
A study of vibrated concrete. J. Tucker Jr., G. L. Pigman, E. A. Pisapia and J. S. Rogers. J. Research NBS <u>19</u> , 575(1937).	RP1048	10¢



PART II - RESEARCH PAPERS (Continued)

	<u>Series</u>	<u>Price</u>
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Concrete as a protective material against high-voltage X-rays. George Singer, Lauiston S. Taylor, and Arvid L. Charlton. J. Research NBS <u>21</u> , 723(1938).	RP1155	5¢
A portable apparatus for determining the relative wear resistance of concrete floors L. Schuman and J. Tucker, Jr. J. Research NBS, <u>23</u> , 549(1939).	RP1252	OP
Application of vibrators for measuring mortar consistency and fabricating mortar cubes R. L. Blaine and J. Tucker, Jr. J. Research NBS <u>24</u> , 103(1940).	RP1273	10¢
Method for determining the moisture condition in hardened concrete. G. R. Gause and J. Tucker, Jr. J. Research NBS <u>25</u> , 403(1940).	RP1334	5¢

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Stucco investigations at the Bureau of Standards with recommendations for portland cement stucco construction. Cir. BS, (1926).	C311	OP

PART IV - LETTER CIRCULARS

(Free on Application to Bureau)

Acid-proof coatings for concrete surfaces. Let. Cir. BS, (February 12, 1933).	LC42
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Recommended building code requirements for working stresses in building materials. (1926)	BH9	OP
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Structural properties of two nonreinforced Monolithic concrete wall constructions. A. H. Stang and D. E. Parsons. (October 1940).	BMS61	10¢
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The specifications listed below are issued by the Federal Specifications Executive Committee, Procurement Division, Federal Warehouse, Washington, D. C. Copies may be secured from the Superintendent of Documents, Government Printing Office, this city, at the prices indicated.

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Cement; portland, sulphate-resisting.	SS-C-211	5¢
Concrete-Units; masonry, hollow.	SS-C-621	5¢
Stone; architectural, cast	SS-C-721	5¢
Pipe; cement-asbestos.	SS-P-351	5¢
Pipe, concrete; non-pressure non-reinforced and reinforced.	SS-P-371	5¢

PART X - OUTSIDE PUBLICATIONS

The articles listed below are not for distribution or sale by the Government, but may be consulted at most large libraries



PART X - OUTSIDE PUBLICATIONS (Continued)

or in some cases may be purchased directly from the publishers:

- Action of the salts in alkali water and sea water on cement. R. J. Wig and P. H. Bates. J. Franklin Inst. (Journal of the Franklin Institute, 20th & Parkway, Philadelphia, Pa.), 175, 65(1913).
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- Use of the strain gage in the testing of materials. W. A. Slater and H. F. Moore. Proc. Am. Soc. Testing Materials, 13, 1019 (1913).
- Properties of portland cement having a high MgO content. P. H. Bates. Proc. Am. Concrete Inst. (American Concrete Institute, 7400 Second Blvd., Detroit, Mich.), 10, 470(1914).
- Some further results obtained in investigations of the properties of portland cement having a high MgO content. P. H. Bates. Proc. Am. Concrete Inst., 11, (1915).
- The effect of fine grinding and a higher SO<sub>3</sub> content upon the physical properties of portland cement. P. H. Bates. Proc. Am. Soc. Testing Materials, 15, Part II, 126(1915).
- What is the trouble with concrete in seawater? R. J. Wig and Lewis R. Ferguson. Series of five articles in Eng. News-Record (McGraw-Hill Publishing Co., Inc., 330 West 42d St., New York, N. Y.), September 1917.
- Tests of stucco. J. C. Pearson. Proc. Am. Concrete Inst., 14, 109(1918).
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- Tentative report on design of reinforced gypsum. W. A. Slater. Proc. Am. Soc. Testing Materials, 19, Part II, 348(1919).
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- Elasticity of concrete. G. M. Williams. Proc. Am. Soc. Testing Materials, 19, Part II, 594(1919).

PART X - OUTSIDE PUBLICATIONS (Continued)

- Structural laboratory investigations in reinforced concrete made by Concrete Ship Section, Emergency Fleet Corporation. W. A. Slater. Proc. Am. Concrete Inst., 15, 24(1919).
- Tests of concrete tanks for oil storage. J. C. Pearson and G. A. Smith. Proc. Am. Concrete Inst. (American Concrete Institute, 7400 Second Blvd., Detroit, Mich.), 15, 186(1919).
- Tests of two recent theories for proportioning concrete. G. L. Williams and Watson Davis. Eng. News-Record (McGraw-Hill Publishing Co., Inc., 330 W. 42nd St., New York, N. Y.), June 12, 1919; Subsequent discussions and contributions, Eng. News-Record, August 14, 1919 and April 22, 1920.
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- New developments in surface treated concrete and stucco. J. C. Pearson and J. J. Earley. Proc. Am. Concrete Inst., 16, 70(1920).
- Compressive strength of concrete in flexure. W. A. Slater and R. R. Zippodt. Proc. Am. Concrete Inst., 16, 120(1920).
- Some determinations of the stress deformation relations for concrete under repeated and continuous loadings. G. L. Williams. Proc. Am. Soc. Testing Materials (American Society for Testing Materials, 260 South Broad St., Philadelphia, Pa.), 20, Part II, 233(1920).
- Modulus of elasticity of concrete. G. L. Williams. Proc. Am. Soc. Testing Materials, 20, Part II, 262(1920).
- How can laboratory tests of concrete materials be made of greater value to the field engineer and contractor? G. L. Williams. Concrete (Concrete Publishing Co., 400 W. Madison St., Chicago, Illinois), 16, 194, April 1920.
- Flowability of concrete and its measurement by means of the flow table. G. L. Williams. Eng. News-Record, May 27, 1920.
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- Moments and stresses in slabs. H. M. Westergaard and W. A. Slater. Proc. Am. Concrete Inst., 17, 415(1921).
- Time of set of concrete. Watson Davis. Proc. Am. Soc. Testing Materials (American Society for Testing Materials, 260 South Broad St., Philadelphia, Pa.), 21, Part II, 995(1921).
- Discussion on tentative specifications for concrete and reinforced concrete. W. A. Slater. Proc. Am. Soc. Civil Engrs. (American Society of Civil Engineers, 33 W. 39th St., New York, N. Y.), September 1921.
- Concrete by strength - Austrian specifications, translations, and comments. W. A. Slater. Concrete (Concrete Publishing Co., 400 W. Madison St., Chicago, Illinois), 19, 231, December 1921.
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- Girderless floors in Malmo, Sweden - Translation and comments. W. A. Slater. Concrete, 20, 264, June 1922.
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- What quality of concrete block should become standard? J. C. Pearson. Concrete, 21, 135, November 1922.
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- A penetration test for the workability of concrete mixtures with particular reference to the effects of certain powdered admixtures. J. C. Pearson and F. A. Hitchcock. Proc. Am. Soc. Testing Materials, 23, Part II, 276(1923).
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PART X - OUTSIDE PUBLICATIONS (Continued)

- Inundation methods for measurement of sand in making concrete. G. A. Smith and W. A. Slater. Proc. Am. Concrete Inst., 19, 222(1923).
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- Crazing on cement products. P. H. Bates. Proc. Am. Concrete Inst., 21, 126(1925).
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- Tests of bond resistance in reinforced concrete beams - Translation and discussion. W. A. Slater. Eng. News-Record (McGraw-Hill Publishing Co., Inc., 330 W. 42d St., New York, N. Y.), June 25, 1925.
- Fine grinding of cement increases strength of concrete. Morris Temin and W. H. Sligh. Concrete, 27, 47, September 1925.
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- What the Bureau of Standards is doing to solve many problems relating to concrete. Frank A. Hitchcock. Concrete, 17, 30, October 1925.
- Relation of 7-day to 28-day compressive strengths of mortar and concrete. W. A. Slater. Proc. Am. Concrete Inst., 22, 437(1926).

PART X - OUTSIDE PUBLICATIONS (Continued)

- Use of sulphur in rendering concrete drain tile resistant to attack of alkali. P. H. Bates. Ind. & Eng. Chem. (Industrial and Engineering Chemistry, Mills Bldg., Washington, D. C.), March 1926.
- Long-time tests of high magnesia cements. P. H. Bates. Proc. Am. Soc. Testing Materials (American Society for Testing Materials, 260 South Broad St., Philadelphia, Pa.), 27, Part II, 324(1927).
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- Why time is a factor in the study and use of cement. P. H. Bates. Proc. Am. Concrete Inst., 23, 436(1927).
- Adhesion of plaster and stucco to hollow building tile. J. A. Murray and H. D. Foster. An. Architect (Hearst Magazine, Inc., 572 Madison Ave., New York, N. Y.), 132, 839, December 20, 1927.
- A study of some methods of measuring workability of concrete. George A. Smith and George Conshéy. Proc. Am. Concrete Inst. (American Concrete Institute, 7400 Second Blvd., Detroit, Mich.), 24, 24(1928).
- Cement as a factor in the workability of concrete. P. H. Bates and J. R. Dwyer. Proc. Am. Concrete Inst., 24, 43(1928).
- Notes on the progress of some studies of the crazing of portland cement mortars. P. H. Bates and C. H. Jumper. Proc. Am. Concrete Inst., 24, 179(1928).
- Some features of the testing of Stevenson Creek arch dam. W. A. Slater. Proc. Am. Concrete Inst., 24, 273(1928).
- Bond between concrete and hollow tile. J. C. Oleinik. Eng. and Contr. (Engineering and Contracting, Gillette Publishing Co., 401 W. Madison St., Chicago, Illinois), 37, 19, January 1928.
- Report of tests on Stevenson Creek Dam. W. A. Slater. Proc. Am. Soc. Civil Engrs. (American Society of Civil Engineers, 33 W. 39th St., New York, N. Y.), May 1928.
- Tension, bend and impact tests on reinforcement bars. W. A. Slater and G. A. Smith. Proc. Am. Soc. Testing Materials (American Society for Testing Materials, 260 South Broad St., Philadelphia, Pa.), 29, Part II, 183(1929).



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- Influence of mineral composition of aggregates on fire resistance of concrete. S. H. Ingberg. Proc. Am. Soc. Testing Materials, 29, Part II, 824(1929).
- The physical properties of commercial cast stone. J. Tucker, Jr. and G. W. Walker. Proc. Am. Concrete Inst., 25, 501(1929).
- Discussion of paper by Searcy B. Slack on "The behavior of a reinforced concrete arch during construction." D. E. Parsons. Proc. Am. Soc. Civil Engrs., 2279, November 1929.
- High strength, high early strength and waterproof concrete. P. H. Bates. Engrs. and Eng. (Engineers and Engineering - Ceased publication with Vol. 49, March 1932), 46, 177, July 1929.
- The relation between the strengths of cements developed by mortar specimens and concrete specimens. J. R. Dwyer and P.H. Bates. Proc. Am. Soc. Testing Materials, 30, Part II, 598(1930).
- Some properties of high alumina cement from six countries. P. H. Bates. Proc. New Intern. Assoc. Testing Materials (New International Association for Testing Materials, Leonhardstrasse 27, Zurich, Switzerland), Group B, 210(1930).
- Cement and concrete (Chapter XXVIII, Annual Survey of American Chemistry, 1930). John Tucker, Jr., Annual Survey Am. Chem. (Annual Survey of American Chemistry, National Research Council, Washington, D. C.), May 1931.
- The selection of durable aggregates for concrete. H. Temin, J. Tucker, Jr., and Ward Pigman. Rock Products (Tradepress Publishing Corp., 205 W. Wacker Drive, Chicago, Illinois), 34, 37, August 1, 1931.
- The physical properties of cast stone. J. Tucker, Jr., G. W. Walker and J. Arthur Swenson. Proc. Am. Concrete Inst. (American Concrete Institute, 7400 Second Blvd., Detroit, Michigan), 28, 243(1931); also BS J. Research 7, 1037(1931) RP389.
- Tests of integral and surface waterproofings for concrete. C. H. Jumper. Proc. Am. Concrete Inst., 28, 209(1931); also BS J. Research 7, 1147(1931), RP394.
- Volume changes of gypsum fiber concrete. H. F. McIurdie and F. L. Marsh. Rock Products, 35, March 26, 1932.
- Tests of Mesnager hinges. D. E. Parsons and A. H. Stang. Proc. Am. Concrete Inst., 31, 304(1935).

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Factors of workability of portland cement concrete. W. H. Herschel and E. A. Pisapia. Proc. Am. Concrete Inst., 32, 641(1936).

Effect of departure from planeness of bearing surfaces on the compressive strength of 2-in. mortar cubes. J. R. Dwyer. Proc. Am. Soc. Testing Materials (American Society for Testing Materials, 260 South Broad St., Philadelphia, Pa.) 36, Part II, 351(1936).

An apparatus for determining Young's modulus of building materials by the dynamic method - F. B. Hornibrook. Bull. A.S.T.M., Dec. 1939.

