

(Revised to March 15, 1941)

STRUCTURAL CLAY PRODUCTS, STONE, AND MASONRY

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 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:

S = "Scientific Paper." S1 to S329 are "Reprints" from the "Bulletin of the Bureau of Standards." S330 to S572 were published as "Scientific Papers of the Bureau of Standards." This series was superseded by the "Bureau of Standards Journal of Research" in 1928.

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 This series was superseded by the "Bureau of Standards Journal of Research" in 1928.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."

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 - SCIENTIFIC PAPERS

	<u>Series</u>	<u>Price</u>
Transmission and absorption of sound by some building materials. E. A. Eckhardt and V. L. Chrisler. Sci. Pap. BS <u>21</u> , 37(1926-27).	S526	OP
Transmission of sound through building materials. V. L. Chrisler. Sci. Pap. BS <u>22</u> , 227 (1927-28)	S552	OP

PART II - TECHNOLOGIC PAPERS

	<u>Series</u>	<u>Price</u>
The effect of overfiring upon the structure of clays. A. V. Bleining and E. T. Montgomery. Tech. Pap. BS. <u>3</u> , (1913).	T22	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
Manufacture and properties of sand-lime brick. W. E. Emley. Tech. Pap. BS <u>9</u> , (1916-17).	T85	OP
Compressive strength of large brick piers. J. C. Bragg. Tech. Pap. BS <u>11</u> , (1918-19).	T111	OP
Tests of hollow building tiles. B. D. Hathcock and E. Skillman. Tech. Pap. BS <u>11</u> , (1919).	T120	OP
Physical and chemical tests of the commercial marbles of the United States. D. W. Kessler. Tech. Pap. BS <u>12</u> , (1919).	T123	OP
Heat insulating properties of building materials. W. A. Hull. Tech. Pap. BS <u>12</u> , (1919).	T130	OP
Measurement of plasticity of mortars and plasters. W. E. Emley. Tech. Pap. BS <u>13</u> , (1919).	T169	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¢
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
Some compressive tests of hollow tile walls. H. L. Whittemore and B. D. Hathcock. Tech. Pap. BS <u>17</u> , 513(1922-24).	T238	OP
Exposure tests on colorless waterproofing materials. D. W. Kessler. Tech. Pap. BS <u>18</u> , 1(1924-25).	T248	0

PART II - TECHNOLOGIC PAPERS (Continued)

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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
Permeability of stone. D. W. Kessler. Tech. Pap. BS <u>20</u> , 155(1925-26).	T305	10¢
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
Cement-lime mortars (with bibliography). H. V. Johnson. Tech. Pap. BS <u>20</u> , 241(1925-26).	T308	OP
Compressive and transverse strength of hollow-tile walls. A. H. Stang, D. E. Parsons and H. D. Foster. Tech. Pap. BS <u>20</u> , 317(1925-26).	T311	15¢
A portable apparatus for transverse tests of brick. A. H. Stang. Tech. Pap. BS <u>21</u> , 347(1925-26).	T341	OP
Physical properties of the principal commercial limestones used for building construction in the United States. D. W. Kessler and W. H. Sligh. Tech. Pap. BS <u>21</u> , 497(1926-27).	T340	30¢
A study of problems relating to the maintenance of interior marble. D.W. Kessler. Tech. Pap. BS <u>21</u> , 591(1926-27).	T350	35¢
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Cause and prevention of kiln and dry-house scum and of efflorescence on face-brick walls. L. A. Palmer. Tech. Pap. BS <u>22</u> , 579(1927-28).	T370	OP

<u>PART III - RESEARCH PAPERS</u>	<u>Series</u>	<u>Price</u>
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Tests of composite beams and slabs of hollow tile and concrete. D. E. Parsons and A. H. Stang. BS J. Research <u>4</u> , 815(1930).	RP181	15¢
Methods of measuring strains between glazes and ceramic bodies. H. G. Schurecht and G. R. Pole. BS J. Research <u>5</u> , 97(1930).	RP189	OP
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Factors affecting the strength of masonry of hollow units. D. E. Parsons. BS J. Research <u>6</u> , 857(1931).	RP310	5¢
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Compressive strength of steel columns incased in brick walls. A. L. Harris, A. H. Stang and J. W. McBurney. BS J. Research <u>10</u> , 123(1933).	RP520	5¢
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The wick test for efflorescence of building brick- J. W. McBurney and D. E. Parsons. J. Research NBS <u>19</u> , No. 1, 105(July 1937). Also Proc. A.S.T.M. 37, Pt. II, 332(1937).	RP1015	5¢
Hydration of magnesia in dolomitic hydrated limes and putties. L. S. Wells and K. Taylor. J. Research NBS <u>19</u> , 215(1937).	RP1022	5¢
Strength, water absorption and resistance to freezing and thawing of sand-lime brick - J. W. McBurney and A. R. Eberle. J. Research NBS <u>20</u> , 67(1938).	RP1065	5¢
Relation between moisture content and flow-point pressure of plastic clay - Ray T. Stull and Paul V. Johnson. J. Research NBS <u>22</u> , 329 (1939).	RP1186	5¢
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Physical, mineralogical and durability studies on the building and monumental granites of the U. S. - D. W. Kessler, H. Insley and W. H. Sligh. J. Research NBS <u>25</u> , 161(1940).	RP1320	15¢

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Some properties of the pore system in bricks and their relation to frost action. R.T. Stull and P. V. Johnson. J. Research NBS <u>25</u> , 711(1940).	RP1349	10¢

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Publications on acoustics by members of the staff of the National Bureau of Standards. (1937).	LC380	
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Recommended minimum requirements for masonry wall construction. BH6 (1924).	BH6	15¢
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Recommended minimum requirements for small dwelling construction. BH18 (1932).	BH18	10¢

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Structural properties of six masonry wall constructions. H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1938).	BMS5	15¢
Water permeability of masonry walls. C. C. Fishburn, D. Watstein, and D. E. Parsons. (1938).	BMS7	10¢
Structural properties of a "Tilecrete" floor construction sponsored by Tilecrete Floors, Inc., H. L. Whittemore, A. H. Stang, and C. C. Fishburn. (1939).	BMS16	10¢
Sound insulation of wall and floor constructions. V. L. Chrisler. (1939).	BMS17	10¢
Structural properties of a concrete-block cavity-wall construction sponsored by the National Concrete Masonry Association. H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1939).	BMS21	10¢

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Structural properties of "Dun-Ti-Stone" Wall construction sponsored by the W. E. Dunn Manufacturing Company. H. L. Whitternore, A. H. Stang, and D. E. Parsons. (1939).	BMS22	10¢
Structural properties of a brick cavity-wall construction sponsored by the Brick Manufacturers Association of New York, Inc. H. L. Whitternore, A. H. Stang, and D. E. Parsons. (1939).	BMS23	10¢
Structural properties of a reinforced brick construction and a brick-tile cavity-wall construction sponsored by the Structural Clay Products Institute. H. L. Whitternore, A. H. Stang, and C. C. Fishburn. (1939).	BMS24	10¢
Structural properties of two brick-concrete-block wall constructions and a concrete-block wall construction sponsored by the National Concrete Masonry Association. H. L. Whitternore, A. H. Stang, and D. E. Parsons. (1939).	BMS32	10¢
Plastic calking materials. J. J. Treconing, T. A. Milliken, A. Hockman, W. H. Sligh, and D. W. Kessler. (1940).	BMS33	10¢
Structural properties of two "Dunstone" wall constructions sponsored by the W. E. Dunn manufacturing Co. H. L. Whitternore, A. H. Stang, and D. E. Parsons. (1940). 13pp.	BMS38	10¢
Structural properties of a wall construction of "Pfeifer Units" sponsored by the Wisconsin Units Company. H. L. Whitternore, A. H. Stang, and D. E. Parsons. (1940).	BMS39	10¢
Effect of heating and cooling on the permeability of masonry walls. C. C. Fishburn and P. H. Petersen. (1940).	BMS41	10¢
Structural properties of a masonry wall construction of "Dunlock Dry Wall Brick." H. L. Whitternore, A. H. Stang and D. E. Parsons. (1940)	BMS53	10¢
Effect of wetting and drying on the permeability of masonry walls. C. C. Fishburn (1940).	BMS55	10¢

PART VII - BUILDING MATERIALS AND STRUCTURES (Continued)

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Strength, absorption, and resistance to laboratory freezing and thawing of building bricks produced in the United States. John W. McBurney and Joseph C. Richmond. Nov. 1940.	BMS60	15¢

PART VIII - SIMPLIFIED PRACTICE RECOMMENDATIONS.

	<u>Series</u>	<u>Price</u>
Vitrified paving brick. (1940).	R1-40	5¢
Metal lath. (Expanded and sheet) (1936).	R3-36	5¢
Face brick and common brick. (1923)	R7	5¢
Hollow building tile. (1925).	R12	0P
Structural slate (for plumbing and sanitary purposes). (1928).	R13-28	10¢
Roofing slate. (1928).	R14-28	0P
Blackboard slate. (1935)	R15-35	0P
Sand-lime brick. (1937).	R38-37	5¢
Steel reinforcing spirals. (1932).	R53-32	5¢
Clay tiles for floors and walls. (1930).	R61-30	10¢

PART IX - FEDERAL SPECIFICATIONS

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 Document, Government Printing Office, this city, at the prices indicated.

HH-M-611	5¢ Mortar; air-setting, refractory, bonding, (wet-type).
QQ-B-71a	5¢ Bars: reinforcement, (for) concrete.
QQ-B-101c	5¢ Bases, Metal; (For) Plaster and stucco construction.
SS-B-656	5¢ Brick; building, (common), clay.
SS-B-663	5¢ Brick; concrete.
SS-B-681	5¢ Brick; sand-lime
SS-B-691	5¢ Brick; sewer, clay.
SS-C-621	5¢ Concrete-Units; masonry, hollow.
SS-L-351	5¢ Lime; hydrated (for) structural purposes.
SS-L-361	5¢ Lime; hydraulic, hydrated.

PART IX - FEDERAL SPECIFICATIONS (Continued)

SS-P-361	5¢	Pipe; clay, sewer.
SS-P-686	5¢	Products; acoustic, cast.
SS-Q-351	5¢	Quickline; (for) structural purposes.
SS-S-291	5¢	Shingles; roofing, cement-asbestos.
SS-S-451	5¢	Slate; roofing.
SS-S-721	5¢	Stone, architectural, cast.
SS-T-321	5¢	Tile; structural, clay, floor.
SS-T-341	5¢	Tile; structural, load-bearing, wall.
SS-T-351	5¢	Tile; structural, clay, non-load-bearing.

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

The relation between the porosity and crushing strength of clay products. A. W. Bleining. Trans. Am. Ceram. Soc. (American Ceramic Society, 2525 North High St., Columbus, Ohio), 12, 564(1910).

Tests for sewer pipe. R. J. Wis. Proc. Am. Soc. Testing Materials (American Society for Testing Materials, 250 South Broad St., Philadelphia, Pa.), 11, 854(1911).

The relation between the crushing strength and porosity of clay products. G. H. Brown. Trans. Am. Ceram. Soc., 14, 292(1912).

Use of the strain gage in the testing of materials. W. A. Slater and H. P. Moore. Proc. Am. Soc. Testing Materials, 13, 1019 (1913).

Some comparative corrosion tests of plastered metal lath. J. C. Pearson. Proc. Am. Concrete Inst. (American Concrete Institute, 7400 Second Blvd., Detroit, Mich.), 10, 445 (1914).

Properties of cement-line-sand mortars. W. E. Enley. Proc. Am. Soc. Testing Materials, 17, Part II, 261 (1917).

Tests of stucco. J. C. Pearson. Proc. Am. Concrete Inst., 14, 109(1918).

Compressive strength of cement-line mortars. F. A. Kirkpatrick and W. P. Orange. J. Am. Ceram. Soc., 2, 44(1919).

PART X - OUTSIDE PUBLICATIONS (Continued)

New developments in surface treated concrete and stucco.  
J. C. Pearson and J. J. Earley. Proc. Am. Concrete  
Inst., 16, 70(1920).

Possibilities of terra cotta castings. R. F. Geller.  
J. Am. Ceram. Soc., 4, 883(1921).

Shrinkage of cement mortars and its importance in stucco  
construction. J. C. Pearson. Proc. Am. Concrete  
Inst., 17, 133(1921).

Preliminary report of exposure tests on colorless water-  
proofing materials. D. W. Kessler. J. Am. Inst.  
Architects (American Institute of Architects, 1741  
New York Ave., N. W., Washington, D. C.), Oct. 1921.

Effectiveness of different methods of making absorption  
determinations as applied to hollow building tile.  
H. D. Foster. J. Am. Ceram. Soc. (American Ceramic  
Society, 2525 North High St., Columbus, Ohio), 5,  
788(1922).

Effect of grog additions on fire resistance of hollow tile.  
H. D. Foster. J. Am. Ceram. Soc., 6, 748(1923).

Capping for compression specimens. H. D. Foster. J. Am.  
Ceram. Soc., 6, 623(1923).

Sulphur impregnated sandstone. D. V. Kessler. Stone(Stone  
Publishing Company, Inc., 353 Fifth Avenue, New York,  
N. Y.), 44, June 1923.

Factors affecting brick masonry strength. S. H. Ingberg.  
Proc. Am. Soc. Testing Materials (American Society for  
Testing Materials, 260 South Broad St., Philadelphia,  
Pa.), 24, Part II, 909(1924).

Stucco investigations of the Bureau of Standards. J. C.  
Pearson. Proc. of Building Officials Conference, 10,  
143(1924).

Strength absorption and freezing resistance of hollow build-  
ing tile. H. D. Foster. J. Am. Ceram. Soc., 7, 189(1924).

Properties of gypsum tile. J. M. Porter. Proc. Am. Soc.  
Testing Materials, 24, Part II, 901(1924).

The fire resistance of gypsum partitions. S. H. Ingberg.  
Proc. Am. Soc. Testing Materials, 25, Part II, 299(1925).

PART X - OUTSIDE PUBLICATIONS (Continued)

- Determining the weather resistance of stone. D. W. Kessler. Stone, 46, 351, June 1925.
- Comments on the permeability of stone. D. W. Kessler. Stone, 46, July 1925.
- A study of practical problems for the marble industry. D. W. Kessler. Stone, 46, August 1925.
- Resistance of marble to various salt solutions. D. W. Kessler. Through the Ages (National Association of Marble Dealers, Cleveland, Ohio), 3, February 1926.
- Cleaning materials for marble. D. W. Kessler. Through the Ages, 3, Part I, March 1926; Part II, April 1926; 4, Part III, June 1926; Part IV, August 1926.
- Steam cleaning a stone building. H. H. Dutton. Am. Architect (Hearst Magazine, Inc., 572 Madison Ave., New York, N. Y.), June 20, 1926.
- Discussion of specification requirements for common brick. C. O. Christiansen. Am. Architect, 130, 23, July 5, 1926.
- Removal of stains from marble. D. W. Kessler. Through the Ages, 4, September 1926; Arch. and Bldg. (Architecture and Building, Wm. T. Comstock Co., 28 Warren St., New York, N. Y., October 1926.
- Comparative tests on brick masonry at the Bureau of Standards. J. W. McBurney. Bricklayer, Mason and Plasterer, 29, 225, October 1926.
- Bases for specification and building code requirements for building bricks. S. H. Ingberg. Proc. 23d Annual Meeting of Sand-Lime Brick Assoc. (Saginaw, Mich.), 78(1927).
- Removal of stains from marble. D. W. Kessler. Through the Ages, 4, January 1927.
- Development of steam cleaning process. H. H. Dutton. Stone, 48, 225, April 1927, and 288, May 1927.
- Effect of workmanship on the strength of brick masonry. J. W. McBurney. Am. Architect, 132, 613, November 5, 1927.
- The strength of solid and of hollow walls of brick. A. H. Stang. Ceram. Age (Ceramic Age, The Ceramic Publishing Co., 425 Parker Street, Newark, N. J.), 198, December 1927.

PART X - OUTSIDE PUBLICATIONS (Continued)

- Adhesion of plaster and stucco to hollow building tile. J. A. Murray and H. D. Foster. Am. Architect, 132, 839, December 30, 1927.
- Effect of strength of brick on comparative strength of brick masonry. J. W. McBurney. Proc. Am. Soc. Testing Materials (American Society for Testing Materials, 260 South Broad St., Philadelphia, Pa.), 28, Part II, 605(1928).
- The development of an apparatus for wear tests on flooring materials. D. W. Kessler. Proc. Am. Soc. Testing Materials, 28, Part II, 855(1928).
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