BUILDING MATERIALS, BUILDING STANDARDS, HOME BUILDING:

Publications of the National Bureau of Standards

GENERAL INFORMATION

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Series letters with serial numbers are used to designate Bureau publications:

S = "Scientific Paper". Scientific Papers listed herein were published in "Scientific Papers of the Bureau of Standards". This series was superseded by the "Bureau of Standards Journal of Research" in 1928.

T = "Technologic Paper". Technologic Papers were issued as separate publications; however, beginning with T203, they were given volume page numbers to facilitate binding into volumes. This series was superseded by the "Bureau of Standards Journal of Research" in 1928.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 1954 (volume 13, number 1).

C = "Circular".

H = "Handbook".

M = "Miscellaneous Publication".

R = "Simplified Practice Recommendation".

CS = "Commercial Standard".

BH = "Building and Housing" publication.

BMS= "Building Materials and Structures" publication.

LC = "Letter Circular".

Circular C24 and supplements, the complete list of the Bureau's publications, 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, from the Superintendent of Documents, at 50 cents per year.

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SUPPLEMENTARY ENTRIES

(Since the preparation of this list was started, the following publications have been issued.)

	Series	Price
Structural properties of a wall construction of "Knap Concrete Wall Units" sponsored by Knap America Inc. H. L. Whittemore, A. H. Stang, and C. C. Fishburn. (1940). 14pp.	BMS40	10¢
Structural properties of wood-frame wall and partition constructions with "Celotex" insulating boards sponsored by the Celotex Corporation. H.L.Whittemore and A.H.Stang, with collaboration of T.R.C.Wilson, Forest Products Laboratory. (1940). 25pp.	BMS42	10¢
Screw-thread standards for Federal services. 1939. 171pp.	H25	20¢
Literature on drycleaning. (1940). mimeogr. 6pp.	LC583	#
Standard specifications for sieves. (1940). mimeogr. 12pp. (Supersedes LC74.)	LC584	#
Classification of acoustic materials. (1940). mimeogr. 18pp. (Supersedes LC541.)	LC585	#
Ceramics (miscellaneous): Publications by members of the staff of the National Bureau of Standards, together with a list of Federal Specifications and standard samples. (1940). mimeogr. 15pp. (Supersedes LC131.)	LC587	#
Whiteware: Publications by members of the staff of the National Bureau of Standards, together with a list of Federal Specifications and standard samples. (1940). mimeogr. 11pp. (Supersedes LC131-A.)	LC587-A	#
List of Commercial Standards, revised to April 10, 1940. (1940). mimeogr. 5pp. (Supersedes LC579.)	LC589	#
Simplified practice: Its purpose and application. (1940). mimeogr. 16pp. (Supersedes LC456.)	LC590	#

BUILDING MATERIALS

Properties--Specifications--Tests--Uses--Standardization

Asphalt

(See also Roofing materials, and Waterproofing materials)

	Series	Price
Accelerated tests of asphalts. O. G. Strieter. BS J. Research, 5, 247 (1930). 17pp.	RP197	OP
A modified accelerated weathering test for asphalts and other materials. O. G. Strieter and H. R. Snoke. J. Research NBS, 16, 481 (1936). 5pp.	RP886	OP
Accelerated weathering tests of mineral-surfaced asphalt shingles. H. R. Snoke and B. E. Gallup. J. Research NBS, 18, 669 (1937). 15pp.	RP~~1102~~ 1002	10¢
Tests of floor coverings for post-office workrooms. W. E. Emley and C. E. Hofer. J. Research NBS, 19, 567 (1937). 4pp.	RP1046	10¢
Survey of roofing materials in the Southeastern States. H. R. Snoke and L. J. Waldron. (1938). 23pp.	BMS6	15¢
Indentation and recovery of low-cost floor coverings. P. A. Sigler and M. B. Woodward. (1939). 9pp.	BMS14	10¢
Survey of roofing materials in the Northeastern States. H. R. Snoke and L. J. Waldron. (1939). 27pp.	BMS29	10¢
Performance test of floor coverings for use in low-cost housing: Part 1. P. A. Sigler and E. A. Koerner. (1940). 14pp.	BMS34	10¢
Stability of sheathing papers as determined by accelerated aging. S. G. Weissberg, D. A. Jessup, and C. G. Weber. (1939). 7pp.	BMS35	10¢
Performance test of floor coverings for use in low-cost housing: Part 2. P. A. Sigler and E. A. Koerner. (1940). 20pp.	BMS43	10¢
Asphalt. (1936)	R4-36	5¢
Paint, varnish and bituminous materials: Publications by members of the staff of the National Bureau of Standards and a list of Federal Specifications. (1939). mimeogr. 26pp.	LC574	#

Brick	Series	Price
Manufacture and properties of sand-lime brick. W. E. Emley. (1917). 41pp.	T85	20¢
The compressive strength of large brick piers. J. G. Bragg. (1918). 39pp.	T111	OP
Equalizer apparatus for transverse tests of bricks. H. L. Whittemore. Tech. Pap. BS, 18, 107 (1924-25). 7pp.	T251	10¢
Compressive strength of sand-lime brick walls. H. L. Whittemore and A. H. Stang. Tech. Pap. BS, 19, 57 (1924-25). 15pp.	T276	10¢
A portable apparatus for transverse tests of brick. A. H. Stang. Tech. Pap. BS, 21, 347 (1926-27). 6pp.	T341	5¢
Cause and prevention of kiln and dry-house scum and of efflorescence on face-brick walls. L. A. Palmer. Tech. Pap. BS, 22, 579 (1927-28). 51pp.	T370	OP
Studies of machines for extruding clay columns: Augers, spacer, and dies for brick machines. P. C. Grunwell. BS J. Research, 1, 1023 (1928). 35pp.	RP36	15¢
Fire resistance of hollow load-bearing wall tile. S. H. Ingberg and H. D. Foster. BS J. Research, 2, 1 (1929). 554pp.	RP57	75¢
The compressive and transverse strength of brick. J. W. McBurney. BS J. Research, 2, 821 (1929). 15pp.	RP59	5¢
Some absorption properties of clay bricks. L. A. Palmer. BS J. Research, 3, 105 (1929). 25pp.	RP88	10¢
Compressive strength of clay brick walls. A. H. Stang, D. E. Parsons, and J. W. McBurney. BS J. Research, 3, 507 (1929). 65pp.	RP108	OP
Durability and strength of bond between mortar and brick. L. A. Palmer and J. V. Hall, Jr. BS J. Research, 6, 473 (1931). 20pp.	RP290	OP
Heat transfer through building walls. M. S. VanDusen and J. L. Finck. BS J. Research, 6, 493 (1931). 30pp.	RP291	OP

	Series	Price
Volume changes in brick masonry materials. L. A. Palmer. BS J. Research, 6, 1003 (1931). 24pp.	RP321	10¢
Shear tests of reinforced brick masonry beams. D. E. Parsons, A. H. Stang, and J. W. McBurney. BS J. Research, 9, 749 (1932). 20pp.	RP504	OP
Compressive strength of steel columns incased in brick walls. A. L. Harris, A. H. Stang, and J. W. McBurney. BS J. Research, 10, 123 (1933). 16pp.	RP520	5¢
A study of the properties of mortars and bricks and their relation to bond. L. A. Palmer and D. A. Parsons. BS J. Research, 12, 609 (1934). 56pp.	RP683	5¢
Experiments on exterior waterproofing materials for masonry. D. W. Kessler. J. Research NBS, 14, 317 (1935). 27pp.	RP771	5¢
Compressive strength of structural tile masonry. D. E. Parsons and D. Watstein. J. Research NBS, 18, 215 (1937). 12pp.	RP972	10¢
Wick test for efflorescence of building brick. J. W. McBurney and D. E. Parsons. J. Research NBS, 19, 105 (1937). 5pp.	RP1015	5¢
Strength, water absorption, and resistance to freezing and thawing of sand-lime brick. J. W. McBurney and A. R. Eberle. J. Research NBS, 20, 67 (1938). 10pp.	RP1065	5¢
Sand-lime brick--Description and specification. (1921). 9pp.	C109	OP
Recommended specification for quicklime and hydrated lime for use in the manufacture of sand-lime brick. (1933). 6pp.	C150	5¢
Manual of fire-loss prevention of the Federal Fire Council. (1934). 156pp.	H19	20¢
Recommended minimum requirements for masonry wall construction. (1924). 57pp.	BH6	15¢
Recommended minimum requirements for small dwelling construction. (1932). 107pp. (Supersedes BH1)	BH18	10¢

	Series	Price
Structural properties of six masonry wall constructions. H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1938). 31pp.	BMS5	15¢
Water permeability of masonry walls. C. C. Fishburn, D. Watstein, and D. E. Parsons. (1938). 35pp.	BMS7	10¢
Structural properties of a brick cavity-wall construction sponsored by the Brick Manufacturers Association of New York, Inc. H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1939). 12pp.	BMS 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. Whittemore, A. H. Stang, and C. C. Fishburn. (1939). 17pp.	BMS24	10¢
Structural properties of "Insulite" wall and "Insulite" partition constructions sponsored by the Insulite Co. H. L. Whittemore and A. H. Stang, with collaboration of T. R. C. Wilson, Forest Products Laboratory. (1939). 52pp.	BMS31	15¢
Structural properties of two brick-concrete-block wall constructions and a concrete-block wall construction sponsored by the National Concrete Masonry Association. H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1939). 19pp.	BMS32	10¢
Effect of heating and cooling on the permeability of masonry walls. C. C. Fishburn and P. H. Petersen. (1940). 6pp.	BMS41	10¢
Vitrified paving brick. (1936).	R1-36	5¢
Rough and smooth face brick and common brick. (1925).	R7	5¢
Sand-lime brick. (1937).	R38-37	5¢
Publications by the Bureau of Standards on sand-lime brick. (1931). mimeogr. 4pp.	LC146	#
Fire resistance of brick walls. Bricks made of clay and shale. (1927). mimeogr. 5pp.	LC228	#
Fire resistance of brick walls. Walls made of concrete or sand-lime bricks. (1927). mimeogr. 4pp.	LC229	#

	Series	Price
Specifications for portable testing machine for making transverse tests of building bricks. (1929). mimeogr. 4pp.	LC266	#
Structural clay products, stone, and masonry: technical publications by members of the staff of the National Bureau of Standards. (1937). mimeogr. 14pp.	LC496	#
Dampness in masonry walls above grade. (1938). mimeogr. 10pp. (Supersedes LC391.)	LC514	#
Compression tests on brick masonry: A compilation covering 708 individual tests of brick masonry in the form of piers and walls. (1926). mimeogr. 50pp.		#
Proposed coordination of sizes of manufactured building materials. (1935). mimeogr. 8pp.		#

Cement

(See also Mortar, Plaster, Stucco, and Concrete)

Tests of the absorptive and permeable properties of Portland cement mortars and concretes, together with tests of damp-proofing and water-proofing compounds and materials. R. J. Wig and P. H. Bates. (1911). 127pp.	T3	OP
The effect of high-pressure steam on the crushing strength of Portland cement mortar and concrete. R. J. Wig. (1911). 25pp.	T5	OP
Action of the salts in alkali water and sea water on cements. P. H. Bates, A. J. Phillips, and R. J. Wig. (1912). 157pp.	T12	OP
Variation in results of sieving with standard cement sieves. R. J. Wig and J. C. Pearson. (1913). 16pp.	T29	OP
Standardization of No. 200 cement sieves. R. J. Wig and J. C. Pearson. (1914). 51pp.	T42	10¢
Hydration of Portland cement. A.A.Klein and A. J. Phillips. (1914). 71pp.	T43	OP
Value of the high-pressure steam test of Portland cement. R. J. Wig and H. A. Davis. (1915). 34pp.	T47	OP
An air analyzer for determining the fineness of cement. J. C. Pearson and W. H. Sligh. (1915). 74pp.	T48	OP

	Series	Price
Properties of the calcium silicates and calcium aluminate occurring in normal Portland cement. P. H. Bates and A. A. Klein. (1917). 38pp.	T78	OP
The properties of Portland cement having a high magnesia content. P. H. Bates. (1918). 42pp.	T102	OP
Effects of calcium as an accelerator of the hardening of Portland cement mixtures. R. N. Young. (1920). 24pp.	T174	OP
Cementing qualities of the calcium aluminates. P. H. Bates. (1921). 27pp.	T197	OP
Durability of cement drain tile and concrete in alkali soils: Third progress report (1919-20). G. M. Williams. Tech. Pap. BS 6, 463 (1921-22). 32pp.	T214	OP
Tests of caustic magnesia made from magnesite from several sources. P. H. Bates, R. N. Young, and P. Rapp. Tech. Pap. BS, 17, 529 (1922-24). 30pp.	T239	OP
Durability of cement drain tile and concrete in alkali soils; fourth progress report, 1923. G. M. Williams and I. Furlong. Tech. Pap. BS, 20, 191 (1925-26). 49pp.	T307	OP
Cement-lime mortars. H. V. Johnson. Tech. Pap. BS, 20, 241 (1925-26). 34pp.	T308	OP
A study of sieve specifications. L. V. Judson. Tech. Pap. BS, 20, 597 (1925-26). 8pp.	T321	5¢
Reaction of water on calcium aluminates. L. S. Wells. BS J. Research, 1, 951 (1928). 59pp.	R34	OP
Influence of magnesia, ferric oxide, and soda upon the temperature of liquid formation in certain Portland cement mixtures. W. C. Hansen. BS J. Research, 4, 55 (1930). 18pp.	RP152	10¢
The X-ray method applied to a study of the constitution of Portland cement. L. T. Brownmiller and R. H.Bogue. BS J. Research, 5, 813 (1930). 18pp.	RP233	10¢
Determination of magnesium in Portland cement and similar materials by the use of 8-hydroxyquinoline. J. C. Redmond and H. A. Bright. BS J. Research, 6, 113 (1931). 8pp.	RP265	5¢

	Series	Price
Volume changes in brick masonry materials. L. A. Palmer. BS J. Research, 6, 1003 (1931). 24pp.	RP321	10¢
System $CaO-NA_2O-Al_2O_3$. L. T. Brownmiller and R. H. Bogue. BS J. Research, 8, 289 (1932). 19pp.	RP414	5¢
The precipitation and titration of magnesium oxyquinolate in the presence of calcium oxalate, and its application in the analysis of Portland cement and similar silicates. J. C. Redmond. BS J. Research, 10, 823 (1933). 4pp.	RP569	5¢
Heat of hydration of Portland cement pastes. W. Lerch and R. H. Bogue. BS J. Research, 12, 645 (1934). 20pp.	RP684	5¢
Investigation of commercial masonry cements. J. S. Rogers and R. L. Blaine. J. Research NBS, 13, 811 (1934). 39pp.	RP746	5¢
Effect of granulometric composition of cement on the properties of pastes, mortars, and concretes. J. A. Swenson, L. A. Wagner, and G. L. Pigman. J. Research NBS, 14, 419 (1935). 30pp.	RP777	OP
Effect of calcium chloride on portland cements and concretes. P. Rapp. J. Research NBS, 14, 499 (1935). 19pp.	RP782	OP
Behavior of high-early-strength cement concretes and mortars under various temperature and humidity conditions. L. Schuman and E. A. Pisapia. J. Research NBS, 14, 723 (1935). 25pp.	RP799	5¢
A study for the preparation of a specification for high-early-strength portland cement. G. R. Gause. J. Research NBS, 15, 421 (1935). 19pp.	RP839	OP
Studies on the quaternary system $CaO-MgO-2CaO.SiO_2-5CaO.3Al_2O_3$. H. F. McMurdie and H. Insley. J. Research NBS, 16, 467 (1936). 8pp.	RP884	5¢
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, 16, 487 (1936). 23pp.	RP887	5¢

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A rapid method for the determination of silica in portland cement. E. E. Maczkowske. J. Research NBS, 16, 549 (1936). 4pp.	RP891	5¢
Determination of sulphuric anhydride in portland cement by means of the Wagner turbidimeter. R. B. Rudy. J. Research NBS, 16, 555 (1936). 7pp.	RP893	5¢
Distribution of compounds in portland cement. J. A. Swenson and E. P. Flint. J. Research NBS, 17, 261 (1936). 16pp.	RP910	5¢
Structural characteristics of some constituents of portland cement clinker. H. Insley. J. Research NBS, 17, 353 (1936). 9pp.	RP917	5¢
The system lime--boric oxide--silica. E. P. Flint and L. S. Wells. J. Research NBS, 17, 727 (1936). 26pp.	RP941	5¢
Determination of sulphur occurring as sulphide in portland cement. H. A. Bright. J. Research NBS, 18, 137 (1937). 3pp.	RP968	5¢
Method for approximating the glass content of portland cement clinker. W. Lerch and L. T. Brownmiller. J. Research NBS, 18, 609 (1937). 14pp.	RP997	10¢
Approximate glass content of commercial portland cement clinker. W. Lerch. J. Research NBS, 20, 77 (1938). 5pp.	RP1066	5¢
Heats of hydration and transition of calcium sulfate. E. S. Newman and L. S. Wells. J. Research NBS, 20, 825 (1938). 10pp.	RP1107	5¢
Effect of glass content upon the heat of hydration of portland cement. W. Lerch. J. Research NBS, 21, 235 (1938). 6pp.	RP1127	10¢
Relation of compositions and heats of solution of portland cement clinker. H. Insley, E. P. Flint, E. S. Newman, and J. A. Swenson. J. Research NBS, 21, 355 (1938). 11pp.	RP1135	10¢
Formation of hydrated calcium silicates at elevated temperatures and pressures. E. P. Flint, H. F. McMurdie, and L. S. Wells. J. Research NBS, 21, 617 (1938). 22pp.	RP1147	10¢

	Series	Price
Caustic magnesia cement. (1922). 14pp.	C155	OP
Stucco investigations at the Bureau of Standards with recommendations for Portland cement stucco construction. (1926). 34pp.	C311	15¢
Survey of roofing materials in the Northeastern States. H. R. Snoke and L. J. Waldron. (1939). 27pp.	BMS29	10¢
Wire diameters for mineral aggregate production screens. (1933).	R147-33	5¢
Specifications for 3-inch sieves. (1929). mimeogr. 2pp.	LC58	#
Sieve testing apparatus. (1922). mimeogr. 4pp.	LC72	#
The development of standard sieve specifications in the United States. (1931). mimeogr. 8pp.	LC311	#
Aquarium cement. (1934). mimeogr. 10pp.	LC413	#
Cement: technical publications by members of the staff of the National Bureau of Standards. (1937). mimeogr. 14pp.	LC494	#

Clays and Clay Products

(See also Brick, Fire clay and fire-clay brick, Hollow building tile.)

The effect of overfiring upon the structure of clays. A. V. Bleininger and E. T. Montgomery. (1913). 23pp.	T22	OP
American and English ball clays. H. H. Sortwell. Tech. Pap. BS, 17, 153 (1922-24). 30pp.	T227	10¢
Methods of measuring the plasticity of clays. F. P. Hall. Tech. Pap. BS, 17, 345 (1922-24). 22pp.	T234	OP
Studies of machines for extruding clay columns. Augers, spacer, and dies for brick machines. P. C. Grunwell. BS J. Research, 1, 1023 (1928). 35pp.	RP36	15¢
Moisture expansion of glazes and other ceramic finishes. H. G. Schurecht and G. R. Pole. BS J. Research, 6, 457 (1931). 7pp.	RP288	5¢

	Series	Price
Kaolins: effect of firing temperatures on some of their physical properties. R. A. Heindl, W. L. Pendergast, and L. E. Hong. BS J. Research, 8, 199 (1932). 17pp.	RP410	5¢
"Moisture expansion" of ceramic white ware. R. F. Geller and A. S. Creamer. BS J. Research, 9, 291 (1932). 17pp.	RP472	5¢
A study of some ceramic bodies of low absorption maturing at temperatures below 1,000°C. R. F. Geller and D. N. Evans. BS J. Research, 9, 473 (1932). 13pp.	RP483	5¢
Clay in concrete. D. A. Parsons. BS J. Research, 10, 257 (1933). 17pp.	RP529	5¢
Effects of particle size of a potter's "flint" and a feldspar in whiteware. R. F. Geller, D. N. Evans and A. S. Creamer. BS J. Research, 11, 327 (1933). 16pp.	RP594	5¢
Colloidal nature and related properties of clays. W. W. Meyer. BS J. Research, 13, 245 (1934). 14pp.	RP706	5¢
Thermal behavior of the kaolin minerals. H. Insley and R. H. Ewell. J. Research NBS, 14, 615 (1935). 13pp.	RP792	5¢
Performance of a hollow-ware extrusion machine with different combinations of augers, spacers, and dies. P. V. Johnson and R. T. Stull. J. Research NBS, 14, 711 (1935). 12pp.	RP798	5¢
Hydrothermal synthesis of kaolinite, dickite, beidellite, and nontronite. R. H. Ewell and H. Insley. J. Research NBS, 15, 173 (1935). 14pp.	RP819	5¢
Hydration of magnesia in dolomitic hydrated limes and putties. L. S. Wells and H. Taylor. J. Research NBS, 19, 215 (1937). 22pp.	RP1022	5¢
Relation between moisture content and flow-point pressure of plastic clay. R. T. Stull and P. V. Johnson. J. Research NBS, 22, 529 (1939). 11pp.	RP1186	5¢
Ceramic properties of some white-burning clays of the eastern United States. (1927). 54pp.	C325	20¢

	Series	Price
Water permeability of masonry walls. C. C. Fishburn, D. Watstein, and D. E. Parsons. (1958). 55pp.	BMS7	10¢
Sound insulation of wall and floor constructions. V. L. Chrisler. (1939). 31pp.	BMS17	10¢
Survey of roofing materials in the Northeastern States. H. R. Snoke and L. J. Waldron. (1939). 27pp.	BMS29	10¢
Staple porcelain (all-clay) plumbing fixtures. (1929). mimeogr.	CS4-29	#
Staple vitreous china plumbing fixtures. (1936).	CS20-36	10¢
Clay tiles for floors and walls. (1936).	R61-36	10¢
Structural clay products, stone, and masonry: technical publications by members of the staff of the National Bureau of Standards. (1937). mimeogr. 14pp.	LC496	#

Concrete

(See also Cement)

The strength of reinforced concrete beams--results of tests of 555 beams (first series). R. L. Humphray and L. H. Losse. (1911). 200pp.	T2	OP
Tests of the absorptive and permeable properties of Portland cement mortars and concretes, together with tests of damp-proofing and waterproofing compounds and materials. R. J. Wig and P. H. Bates. (1911). 127pp.	T3	OP
The effect of high-pressure steam on the crushing strength of Portland cement mortar and concrete. (1911). 25pp.	T5	OP
Electrolysis in concrete. E. B. Rosa, B. McCollum and O. S. Peters. (1913). 137pp.	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. (1916). 172pp.	T58	OP
Tests of eighteen concrete columns reinforced with cast iron. J. Tucker, Jr., and J. G. Bragg. (1919). 58pp.	T122	OP
Tests of bond resistance between concrete and steel. W. A. Slater, E. E. Richart, and G. G. Scofield. (1920. 66pp.	T173	25¢

	Series	Price
Pouring and pressure tests of concrete. W. A. Slater and A. T. Goldbeck. (1920). 13pp.	T175	OP
Effect of repeated reversals of stress on double-reinforced concrete beams. W. A. Slater, G. A. Smith, and H. P. Mueller. (1920). 51pp.	T182	15¢
Durability of cement drain tile and concrete in alkali soils: Third progress report (1919-20). G. M. Williams. Tech. Pap. BS, 16, 463 (1921-22). 32pp.	T214	OP
Test of a hollow tile and concrete floor slab reinforced in two directions. W. A. Slater, A. Hagener, and G. P. Anthes. Tech. Pap. BS, 16, 727 (1921-22). 67pp.	T220	25¢
Tests of heavily reinforced concrete slab beams: Effect of direction of reinforcement on strength and deformation. W. A. Slater and F. B. Seely. Tech. Pap. BS, 17, 297 (1922-24). 48pp.	T233	15¢
Loading test of a hollow tile and reinforced concrete floor of Arlington Building, Washington, D.C. L. J. Larson and S. N. Petrenko. Tech. Pap. BS, 17, 405 (1922-24). 41pp.	T236	15¢
Fire resistance of concrete columns. W. A. Hull and S. H. Ingberg. Tech. Pap. BS, 18, 635 (1924-25). 74pp.	T272	25¢
Tests of hollow tile and concrete slabs reinforced in one direction. D. E. Parsons and A. H. Stang. Tech. Pap. BS, 19, 465 (1924-25). 50pp.	T291	25¢
Durability of cement drain tile and concrete in alkali soils: fourth progress report, 1923. G. M. Williams and I. Furlong. Tech. Pap. BS, 20, 191 (1925-26). 49pp.	T307	OP
Shear tests of reinforced concrete beams. W. A. Slater, A. R. Lord, and R. R. Zipprodt. Tech. Pap. BS, 20, 387 (1925-26). 108pp.	T314	50¢
Tests of the effect of brackets in reinforced concrete rigid frames. F. E. Richart. BS J. Research, 1, 189 (1928). 65pp.	RP9	25¢

	Series	Price
Test of composite beams and slabs of hollow tile and concrete. D. E. Parsons and A. H. Stang. BS J. Research, 4, 815 (1930). 55pp.	RP181	15¢
Tests of integral and surface waterproofings for concrete. C. H. Jumper. BS J. Research, 7, 1147 (1931). 31pp.	RP394	10¢
The areas and tensile properties of deformed concrete-reinforcement bars. A. H. Stang, L. R. Sweetman, and C. Gough. BS J. Research, 9, 509 (1932). 12pp.	RP486	5¢
Clay in concrete. D. A. Parsons. BS J. Research, 10, 257 (1933). 17pp.	RP529	5¢
Tests on a reinforced-concrete arch of the Arlington Memorial Bridge. C. C. Fishburn and J. L. Nagle. BS J. Research, 11, 567 (1933). 32pp.	RP609	5¢
Effect of granulometric composition of cement on the properties of pastes, mortars, and concretes. J. A. Swenson, L. A. Wagner, and G. L. Pigman. J. Research NBS, 14, 419 (1935). 30pp.	RP777	OP
Effect of calcium chloride on portland cements and concretes. P. Rapp. J. Research NBS, 14, 499(1935). 19pp.	RP782	OP
Behavior of high-early-strength cement concretes and mortars under various temperature and humidity conditions. L. Schuman and E.A.Pisapia. J. Research NBS, 14, 725 (1935). 25pp.	RP799	5¢
Some tests of steel columns incased in concrete. A. H. Stang, H. L. Whittemore, and D.E.Parsons. J. Research NBS, 16, 265 (1936). 23pp.	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, 16, 487 (1936). 33pp.	RP887	5¢
Effect of temperature on the stress-deformation of concrete. A. U. Thouer. J. Research NBS, 18, 195 (1937). 10pp.	RP970	5¢

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Report of service test on concrete floor treatments. (1920). mimeogr. 10pp.	LC139	#
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Concrete and reinforced concrete: technical publications by members of the staff of the National Bureau of Standards. (1937). mimeogr. 12pp.	LC495	#

Enameled Ware

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Progress report on investigation of fire-clay bricks and the clays used in their preparation. R. A. Heindl and W. L. Pendergast. BS J. Research, 3, 691 (1929). 39pp.	RP114	15¢
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Deformation and Young's modulus of fire-clay brick in flexure at 1,220°C. R. A. Heindl and W. L. Pendergast. J. Research NBS, 19, 353 (1937). 14pp.	RP1030	10¢
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Flooring Materials

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Data on ultra-violet solar radiation and the solarization of window materials. W. W. Coblentz and R. Stair. BS J. Research, 3, 629 (1929). 61pp.	RP113	15¢
The restoration of solarized ultra-violet transmitting glasses by heat treatment. A. Q. Tool and R. Stair. BS J. Research, 7, 357 (1931). 18pp.	RP345	10¢
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Sound insulation of wall and floor constructions. V. L. Chrisler. (1939). 31pp.	BMS17	10¢
Gypsum: Publications by the staff of the National Bureau of Standards. (1939). mimeogr. 9pp. (Supersedes LC145.)	LC569	#
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Loading test of a hollow tile and reinforced concrete floor of Arlington Building, Washington, D.C. L. J. Larson and S. N. Petrenko. Tech. Pap. BS, 17, 405 (1922-24). 41pp.	T236	15¢
Some compressive tests of hollow-tile walls. H. L. Whittemore and B. D. Hathcock. Tech. Pap. BS, 17, 515 (1922-24). 15pp.	T238	OP
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Structural clay products, stone, and masonry: technical publications by members of the staff of the National Bureau of Standards. (1937). mimeogr. 14pp.	LC496	#

Insulating Materials

(See also Soundproofing materials)

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Manufacture of insulating board from cornstalks. (1930). 27pp.	M112	10¢
Production of pressboard from cornstalks. B. Wingfield, T. R. Naffziger, E. R. Whittemore, C. B. Overman, O. R. Sweeney, and S. F. Acree. (1936). 10pp.	M123	5¢
Properties of fiber building boards. (1931). 14pp.	M132	5¢
Publications on fiber structure and industrial utilization of waste land products. (1935). mimeogr. 15pp.	LC451	#
Thermal insulation. (1936). mimeogr. 4pp. (replaces LC421).	LC471	#
Aluminum foil insulation. (1938). mimeogr. 3pp. (Supplements C376.) (Supersedes LC465).	LC535	#
Classification of acoustic materials. (1939). mimeogr. 10pp.	LC541	#
Sound absorption coefficients of the more common acoustic materials. (1939). 25pp. (Supersedes LC539.)	LC573	#

Lime

(See also Mortar, and Plaster.)

Cement-lime mortars. H. V. Johnson. Tech. Pap. BS, 20, 241 (1925-26). 34pp.	T308	OP
Volume changes in brick masonry materials. L. A. Palmer. BS J. Research, 6, 1005 (1931). 24pp.	RP321	10¢
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Hydration of magnesia in dolomitic hydrated limes and putties. L. S. Wells and K. Taylor, J. Research NBS, 19, 215 (1937). 22pp.	RP1022	5¢
Particle size and plasticity of lime. D. L. Bishop. J. Research NBS, 23, 285 (1939). 8pp.	RP1232	5¢
Lime: its properties and uses. (1920). 25pp.	C30	OP
Lime--definitions and specifications. (1920). 15pp.	C106	OP
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Recommended specification for quicklime and hydrated lime for use in the manufacture of sand-lime brick. (1923). 6pp.	C150	5¢
Recommended specification for quicklime and hydrated lime for the manufacture of silica brick. (1923). 7pp.	C153	5¢
Manufacture of lime. (1927). 104pp. (Supersedes T16, of same title.)	C337	45¢
Suitability of fiber insulating lath as a plaster base. L. S. Wells and D. C. Smith. (1938). 17pp.	BMS3	10¢
Publications by the National Bureau of Standards on lime. (1934). mimeogr. 11pp.	LC144	#

Metals--Miscellaneous (See also Steel)

Pure zinc at normal and elevated temperatures. J. R. Freeman, Jr., F. Sillers, Jr., and P. F. Brandt. BS Sci. Pap., 20, 661 (1924-26). 35pp.	S522	15¢

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Structure of the coating on tinned sheet copper in a specific case of corrosion. P. D. Merica. (1917). 18pp.	T90	OP
Some unusual features in the microstructure of wrought iron. H. S. Rawdon. (1917). 25pp.	T97	5¢
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Behavior of wrought manganese bronze exposed to corrosion while under tensile stress. P. D. Merica and R. W. Woodward. (1919). 9pp.	T135	OP
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Effect of the testing method on the determination of corrosion resistance. H. S. Rawdon and E. C. Groesbeck. Tech. Pap. BS, 23, 409 (1928). 38pp.	T367	20¢
The spotting of plated or finished metals. W. P. Barrows. BS J. Research, 2, 1085 (1929). 32pp.	RP72	10¢
Corrosion of open-valley flashings. K. H. Beij. BS J. Research, 3, 937 (1929). 16pp.	RP123	~~10¢~~ 8
Comparative properties of wrought iron made by hand puddling by Aston process. H. S. Rawdon and O. A. Knight. BS J. Research, 3, 953 (1929). 40pp.	RP124	OP
Seams for copper roofing. K. H. Beij. BS J. Research, 5, 585 (1930). 24pp.	RP216	15¢
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Protective value of nickel and chromium plating on steel. W. Blum, P. W. C. Strausser, and A. Brenner. J. Research NBS, 13, 351 (1934). 25pp.	RP712	10¢
Accelerated tests of nickel and chromium plating on steel. P. W. C. Strausser, A. Brenner, and W. Blum. J. Research NBS, 13, 519 (1934). 16pp.	RP724	5¢
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BUILDING MATERIALS--Metals--Miscel.--Continued

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Determination of cross-sectional areas of structural members. J. A. Miller. J. Research NBS, 23, 621 (1939). 16pp.	RP1258	10¢
Copper. (1922). 108pp.	C73	OP
Nickel. (1924). 162pp.	C100	OP
Physical properties of materials: I. Strengths and related properties of metals and certain other engineering materials. (1924). 204pp. (accompanied by 1937 Supplement)	C101	40¢
Supplement to C101--(relates to metals only) (1937). 7pp.	Suppl. to C101	5¢
The structure and related properties of metals. (1922). 104pp.	C113	25¢
Standard thicknesses, weights and tolerances of sheet metal (customary practice). (1931). 32pp.	C391	OP
Zinc and its alloys. (1931). 214pp.	C395	25¢
Recommended building code requirements for working stresses in building materials. (1926). 53pp.	BH9	OP
Survey of roofing materials in the Southeastern States. H. R. Snoke and L. J. Waldron. (1938). 25pp.	BMS6	15¢
Survey of roofing materials in the Northeastern States. H. R. Snoke and L. J. Waldron. (1939). 27pp.	BMS29	10¢
Pipe nipples; brass, copper, steel, and wrought-iron. (1940). (A revision and consolidation of CS5, CS6, & CS10.)	CS5-40	#
Metal lath (expanded and sheet). (1936). (Supersedes R3-28)	R3-36	5¢
Eaves trough, conductor pipe and fittings, and ridge rolls. (1939). mimeogr.	R39-39	#
Roofing ternes. (1937).	R30-37	5¢

	Series	Price
Hollow metal single-acting swing doors, frames, and trim. (1928).	R82-28	5¢
Kalamein single-acting swing doors, frames, and trim. (1928).	R83-28	5¢
Metal partitions for toilets and showers. (1929).	R101-29	10¢
Large tube cast-iron radiators. (1940).	R174-40	#
Standards and specifications for metals and metal products. (1933). 1359pp.	M120	$3.00 ($4.00 foreign)
The painting of structural metal (steel, galvanized metal, tin plate and copper). P. H. Walker and E. F. Hickson. (1934). mimeogr. 13pp.	LC422	#
Hardened copper. (1935). mimeogr. 6pp. (Supersedes LC61.)	LC444	#
Metals do not "crystallize" under vibration. (1937). mimeogr. 2pp. (Supersedes LC204.)	LC486	#
Nomenclature of copper alloys--brass and bronze. (1937). mimeogr. 4pp. (Supersedes LC268.)	LC487	#
Solders and soldering. (1937). mimeogr. 9pp. (Supersedes LC343.)	LC493	#
Metallurgy: Publications by staff of the National Bureau of Standards. (1938). mimeogr. 72pp.	LC522	#
Salt spray test. (1938). mimeogr. 21pp.	LC530	#
Sources of information on the properties of metals and alloys (books). (1938). mimeogr. 22pp. (Supersedes LC479.)	LC533	#
Aluminum foil insulation. (1938). mimeogr. 3pp. (Supersedes LC465.) (Supplements C376.)	LC535	#

Mortar

(See also Cement, Brick, and Plaster)

Tests of the absorptive and permeable properties of Portland cement mortars and concretes, together with tests of damp-proofing and waterproofing compounds and materials. R. J. Wig and P. H. Bates. (1911). 127pp.	T3	OP

	Series	Price
Measurement of plasticity of mortars and plasters. W. E. Emley. (1920). 27pp.	T169	OP
Cement-lime mortars. H. V. Johnson. Tech. Pap. BS, 20, 241 (1925-26). 34pp.	T308	OP
Strength of interlocking-rib tile walls. A. H. Stang, D. E. Parsons, and A. B. McDaniel. Tech. Pap. BS, 22, 389 (1927-28). 20pp.	T366	10
Fire resistance of hollow load-bearing wall tile. S. H. Ingberg and H. D. Foster. BS J. Research, 2, 1 (1929). 334pp.	RP37	75¢
Durability and strength of bond between mortar and brick. L. A.Palmer and J. V. Hall, Jr. BS J. Research, 6, 473 (1931). 20pp.	RP290	OP
Factors affecting the strength of masonry hollow units. D. E. Parsons. BS J. Research, 6, 857 (1951). 11pp.	RP310	5¢
Volume changes in brick masonry materials. L. A. Palmer. BS J. Research, 6, 1003 (1931). 24pp.	RP321	10¢
Shear tests of reinforced brick masonry beams. D. E. Parsons, A. H. Stang, and J. W. McBurney. BS J. Research, 9, 749 (1932). 20pp.	RP504	OP
Compressive strength of steel columns incased in brick walls. A. L. Harris, A. H. Stang, and J. W. McBurney. BS J. Research, 10, 123 (1933). 16pp.	RP520	5¢
A study of the properties of mortars and bricks and their relation to bond. L. A. Palmer and D. A. Parsons. BS J. Research, 12, 609 (1934). 36pp.	RP683	5¢
Investigation of commercial masonry cements. J. S. Rogers and R. L. Blaine. J. Research NBS, 13, 811 (1934). 39pp.	RP746	5¢
Experiments on exterior waterproofing materials for masonry. D. W. Kessler. J. Research NBS, 14, 317 (1935). 27pp.	RP771	5¢
Effect of granulometric composition of cement on the properties of pastes, mortars, and concretes. J.A.Swenson, L.A.Wagner, and G.L.Pigman. J. Research NBS, 14, 419 (1935). 30pp.	RP777	OP

	Series	Price
Behavior of high-early-strength cement concretes and mortars under various temperature and humidity conditions. L. Schuman and E.A.Pisapia. J. Research NBS, 14, 723 (1935). 25pp.	RP799	5¢
A study for the preparation of a specification for high-early-strength portland cement. G. R. Gause. J. Research NBS, 15, 421 (1935). 19pp.	RP839	OP
Differences in limes as reflected in certain properties of masonry mortars. L. S. Wells, D. L. Bishop, and D. Watstein. J. Research NBS, 17, 895 (1936). 18pp.	RP952	5¢
Compressive strength of structural tile masonry. D. E. Parsons and D. Watstein. J. Research NBS, 18, 215 (1937). 12pp.	RP972	10¢
Wick test for efflorescence of building brick. J. W. McBurney and D. E. Parsons. J. Research NBS, 19, 105 (1937). 5pp.	RP1015	5¢
Application of vibrators for measuring mortar consistency and fabricating mortar cubes. R. L. Blaine and J. Tucker, Jr. J. Research NBS, 24, 103 (1940). 21pp.	RP1273	10¢
Recommended minimum requirements for masonry wall construction. (1924). 57pp.	BH6	15¢
Structural properties of six masonry wall constructions. H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1938). 31pp.	BMS5	15¢
Water permeability of masonry walls. C. C. Fishburn, D. Watstein, and D. E. Parsons. (1938). 35pp.	BMS7	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). 10pp.	BMS21	10¢
Structural properties of "Dun-Ti-Stone" wall construction sponsored by the W.E. Dunn Manufacturing Company. H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1939). 11pp.	BMS22	10¢
Structural properties of a brick cavity-wall construction sponsored by the Brick Manufacturers Association of New York, Inc. H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1939). 12pp.	BMS23	10¢

	Series	Price
Structural properties of a reinforced brick construction and a brick-tile cavity-wall construction sponsored by the Structural Clay Products Institute. H. L. Whittemore, A. H. Stang, and C. C. Fishburn. (1939). 17pp.	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. Whittemore, A. H. Stang, and D. E. Parsons.(1939). 19pp.	BMS32	10¢
Structural properties of two "Dunstone" wall constructions sponsored by the W. E. Dunn Manufacturing Co. H. L. Whittemore, A. H. Stang, and D. E. Parsons. (1940). 15pp.	BMS38	10¢
Effect of heating and cooling on the permeability of masonry walls. C. C. Fishburn and P. H. Petersen. (1940). 6pp.	BMS41	10¢
Structural clay products, stone, and masonry: technical publications by members of the staff of the National Bureau of Standards. (1937). mimeogr. 14pp.	LC496	#

Paint Materials

The density and thermal expansion of linseed oil and turpentine. H. W. Bearce. (1912). 27pp.	T9	10¢
Iodine number of linseed and petroleum oils. W. H. Smith and J. B. Tuttle. (1914). 17pp.	T57	OP
Effect of certain pigments on linseed oil. E. W. Boughton. (1916). 16pp.	T71	OP
Determination of volatile thinner in oil varnish. E. W. Boughton. (1916). 6pp.	T76	OP
Slushing oils. P. H. Walker and L. L. Steele. (1920). 23pp.	T176	OP
Shellac. P. H. Walker and L. L. Steele. Tech. Pap. BS, 17, 277 (1922-24). 20pp.	T232	5¢
Emissive tests of paints for decreasing or increasing heat radiation from surfaces. W. W. Coblentz and C. W. Hughes. Tech Pap. BS, 18, 171 (1924). 17pp.	T254	OP

	Series	Price
Use of U. S. Gov't specification paint and paint materials. P. H. Walker and E. F. Hickson. Tech. Pap. BS, 19, 27 (1924-25). 20pp.	T274	OP
A photometric method for measuring the hiding power of paints. H. D. Bruce. Tech. Pap. BS, 20, 173 (1925-26). 18pp.	T306	10¢
Accelerated tests of organic protective coatings. P. H. Walker and E. F. Hickson. BS J. Research, 1, (1928). 17pp.	RP1	OP
Tinting strength of pigments. H. D. Bruce. BS J. Research, 1, 125 (1928). 26pp.	RP7	10¢
The ring and ball method of test for softening point of bituminous materials, resins, and similar substances. P. H. Walker. BS J. Research, 4, 195 (1930). 7pp.	RP142	5¢
Durability tests of spar varnish. C. L. Came. BS J. Research, 4, 247 (1930). 15pp.	RP146	OP
A new test for predicting the durability of varnishes. J. W. Wilson. BS J. Research, 7, 73 (1931). 11pp. The photochemical embrittling test.)	RP333	5¢
Determination of insoluble matter in shellac. C. C. Hartman. BS J. Research, 7, 1105 (1931). 9pp.	RP391	5¢
Paint and varnish. (1917). 85pp.	C69	OP
Water permeability of masonry walls. C. C. Fishburn, D. Watstein, and D. E. Parsons. (1938). 35pp.	BMS7	10¢
Methods of investigation of surface treatment for corrosion protection of steel. R. E. Pollard and W. C. Porter. (1938). 10pp.	BMS8	10¢
Structural properties of wood-frame wall, partition, floor, and roof constructions with "Red Stripe" lath sponsored by the Weston Paper and Manufacturing Co. H. L. Whittemore and A. H. Stang, with collaboration of T. R. C. Wilson, Forest Products Laboratory. (1940). 26pp.	BMS36	10¢
Paints, varnishes, and related products (shades and containers). (1937).	R144-37	5¢

	Series	Price
Some technical methods of testing miscellaneous supplies, including paints and paint materials, inks, lubricating oils, soaps, etc. (1916). 68pp.	M15	OP
Paint for priming plaster surfaces. P. H. Walker and E. F. Hickson. (1932). 13pp.	M137	5¢
Acid-proof coatings for concrete surfaces. (1933). mimeogr. 15pp.	LC42	#
Protection of track-scale parts from corrosion. (1922). mimeogr. 4pp.	LC54	#
Specifications for paint for use on railroad track scales. (1924). mimeogr. 3pp.	LC81	#
Painting plaster. (1933). mimeogr. 7pp.	LC304	#
Outside house painting. (1932). mimeogr. 5pp.	LC335	#
Spray painting. (1932). mimeogr. 4pp.	LC334	#
Luminous paints. (1932). mimeogr. 3pp.	LC336	#
Painting water tanks. (1932). mimeogr. 2pp.	LC337	#
The painting of structural metal (steel, galvanized metal, tin plate, and copper). P. H. Walker and E. F. Hickson. (1934). mimeogr. 13pp.	LC422	#
Painting of steam and hot water radiators. (1935). mimeogr. 4pp.	LC445	#
Quality of linseed oil for government use. (1935). mimeogr. 3pp.	LC457	#
Wood and shingle stains. (1936). mimeogr. 4pp. (Supersedes LC64.)	LC464	#
The reflectance of paints and pigments. (1936). mimeogr. 6pp.	LC470	#
Inside wall paint for chemical laboratories (heat- and fume-resisting enamel paint). (1937). mimeogr. 7pp.	LC489	#
List of publications relating to paint, painting, varnish, lacquer, bitumens, and allied subjects. (1939). mimeogr. 30pp. (Supersedes LC478.)	LC542	#

	Series	Price
Paint, varnish and bituminous materials: Publications by members of the staff of the National Bureau of Standards and a list of Federal Specifications. (1939). mimeogr. 26pp.	LC574	#

Pipe and Pipe Fittings

(See also Plumbing)

Strength of steel tubing under combined column and transverse loading, including tests of columns and beams. T. W. Greene. Tech. Pap. BS, 18, 243 (1924-25). 34pp.	T258	15¢
Release of internal stress in brass tubing. R. J. Anderson and E. G. Fahlman. Tech. Pap. BS, 19, 235 (1924-25). 31pp.	T285	15¢
Comparative tests of six-inch cast-iron pipes of American and French manufacture. S. N. Petrenko. Tech. Pap. BS, 21, 231 (1926-27). 24pp.	T336	15¢
Pipe nipples; brass, copper, steel, and wrought-iron. (1940). (A revision and consolidation of CS5, CS6, and CS10.) mimeogr.	CS5-40	#
Standard weight malleable iron or steel screwed unions. (1929).	CS7-29	5¢
Eaves trough, conductor pipe and fittings, and ridge rolls. (1939). mimeogr.	R29-39	#
Wrought-iron and wrought-steel pipe valves and fittings. (1932).	R57-32	5¢
Drainpipe cleaners or solvents. (1932). mimeogr. 2pp.	LC341	#

Plaster

(See also Mortar)

Durability of stucco and plaster construction. R. J. Wig, J. C. Pearson, and W. E. Emley. (1917). 74pp.	T70	OP
Measurement of plasticity of mortars and plasters. W. E. Emley. (1920). 27pp.	T169	OP
Colored wall plaster. W. E. Emley and C. F. Faxon. (1920). 8pp.	T181	OP
Fire resistance of hollow load-bearing wall tile. S. H. Ingberg and H. D. Foster. BS J. Research, 2, 1 (1929). 354pp.	RP37	75¢

	Series	Price
Wall plaster: Its ingredients, preparation, and properties. (1924). 66pp.	C151	15¢
Recommended minimum requirements for small dwelling construction. (1932). 107pp. (Supersedes BH1.)	BH18	10¢
Suitability of fiber insulating lath as a plaster base. L. S. Wells and D. C. Smith. (1938). 17pp.	BMS5	10¢
Water permeability of masonry walls. C. C. Fishburn, D. Watstein, and D. E. Parsons. (1938). 35pp.	BMS7	10¢
Structural properties of "Wheeling Long-Span Steel Floor" construction sponsored by the Wheeling Corrugating Company. H. L. Whittemore, A. H. Stang, and V. B. Phelan. (1939). 7pp.	BMS15	10¢
Structural properties of a "Tilecrete" floor construction sponsored by Tilecrete Floors, Inc. H. L. Whittemore, A. H. Stang, and C. C. Fishburn. (1939). 6pp.	BMS16	10¢
Structural properties of "pre-fab" constructions for walls, partitions, and floors sponsored by the Harnischfeger Corporation. H. L. Shittemore, A. H. Stang, and V. B. Phelan. (1939). 20pp.	BMS18	10¢
Structural properties of conventional wood-frame constructions for walls, partitions, floors, and roofs. G. E. Heck, Forest Products Laboratory. (1939). 25pp.	BMS25	15¢
Structural properties of "insulite" wall and "insulite" partition constructions sponsored by the Insulite Co. H. L. Whittemore and A. H. Stang, with collaboration of T. R. C. Wilson, Forest Products Laboratory. (1939). 52pp.	BMS31	15¢
Structural properties of wood-frame wall, partition, floor, and roof constructions with "Red Stripe" lath sponsored by the Weston Paper and Manufacturing Co. H. L. Whittemore and A. H. Stang, with collaboration of T. R. C. Wilson, Forest Products Laboratory. (1940). 26pp.	BMS36	10¢
Paint for priming plaster surfaces. P. H. Walker and E. F. Hickson. (1932). 13pp.	M137	5¢

	Series	Price
Painting plaster. (1933). mimeogr. 7pp.	LC304	#
Gypsum: Publications by the staff of the National Bureau of Standards. (1939). mimeogr. 9pp. (Supersedes LC145.)	LC569	#
Sound absorption coefficients of the more common acoustic materials. (1939). mimeogr. 25pp. (Supersedes LC539.)	LC573	#

Plumbing Materials

(See also Pipe and pipe fittings; Building and plumbing codes; and Plumbing.)

Stresses in a few welded and riveted tanks tested under hydrostatic pressure. A. H. Stang and T. W. Greene. Tech. Pap. BS, 17, 645 (1922-24). 24pp.	T243	10¢
Moisture expansion of glazes and other ceramic finishes. H. G. Schurecht and G. R. Pole. BS J. Research, 6, 457 (1931). 7pp.	RP288	5¢
Backflow prevention in over-rim water supplies. G. E. Golden and R. B. Hunter. (1939). 17pp.	BMS28	10¢
Staple porcelain (all-clay) plumbing fixtures. (1929). mimeogr.	CS4-29	#
Staple vitreous china plumbing fixtures. (1936).	CS20-36	10¢
Staple seats for water-closet bowls. (1931).	CS29-31	5¢
Colors for sanitary ware. (1931).	CS30-31	20¢
Colors for kitchen accessories. (1938).	CS62-38	5¢
Colors for bathroom accessories. (1938).	CS63-38	5¢
Sanitary cast-iron enameled ware. (1939). mimeogr.	CS77-39	#
Range boilers and expansion tanks. (1929).	R8-29	10¢
Structural slate for plumbing and sanitary purposes. (1928).	R13-28	10¢
Brass lavatory and sink traps. (1925). mimeogr.	R21	#
Hot water storage tanks. (1925). mimeogr.	R25	#

	Series	Price
Metal partitions for toilets and showers. (1929).	R101-29	10¢
Hospital plumbing fixtures. (1930).	R106-30	10¢
Steel horizontal firebox heating boilers. (1937).	R157-37	5¢
Large tube cast-iron radiators. (1940). mimeogr.	R174-40	#

Quicklime

Recommended specification for limestone, quicklime, and hydrated lime for use in the manufacture of glass. (1921). 7pp.	C118	5¢
Recommended specification for quicklime for use in causticizing. (1923). 5pp.	C143	5¢
Recommended specification for quicklime and hydrated lime for use in the manufacture of sand-lime brick. (1923). 6pp.	C150	5¢
Recommended specification for quicklime and hydrated lime for the manufacture of silica brick. (1923). 7pp.	C153	5¢

Roofing Materials

Experimental production of roofing felts. M. B. Shaw, G. W. Bicking, and O. G. Strieter. BS J. Research, 2, 1001 (1929). 16pp.	RP67	5¢
Corrosion of open-valley flashings. K. H. Beij. BS J. Research, 3, 937 (1929). 16pp.	RP123	OP
Seams for copper roofing. K. H. Beij. BS J. Research, 5, 585 (1930). 24pp.	RP216	15¢
Accelerated weathering tests of soldered and tinned sheet copper. P. R. Hosting. BS J. Research, 8, 365 (1932). 15pp.	RP422	10¢
Physical properties and weathering characteristics of slate. D. W. Kessler and J. H. Sligh. BS J. Research, 9, 377 (1932). 35pp.	RP477	10¢
Flow in roof gutters. K. H. Beij. BS J. Research, 12, 193 (1934). 21pp.	RP644	5¢
A study of the weathering quality of roofing felts made from various fibers. O.G.Strieter. J. Research NBS, 16, 511 (1936). 15pp.	RP888	OP

	Series	Price
Accelerated weathering tests of mineral-surfaced asphalt shingles. H. R. Snoke and B. E. Gallup. J. Research NBS, 18, 669 (1937). 13pp.	RP1002	10¢
Manual of fire-loss prevention of the Federal Fire Council. (1934). 156pp.	H19	20¢
Recommended minimum requirements for small dwelling construction. (1932). 107pp. (Supersedes BH1.)	BH18	10¢
Survey of roofing materials in the Southeastern States. H. R. Snoke and L. J. Waldron. (1938). 23pp.	BMS6	15¢
Structural properties of the Insulated Steel Construction Company's "Frameless-Steel" constructions for walls, partitions, floors, and roofs. H. L. Whittemore, A. H. Stang, and V. B. Phelan. (1938). 18pp.	BMS9	10¢
Structural properties of "Steelox" constructions for walls, partitions, floors, and roofs sponsored by Steel Buildings, Inc. H. L. Whittemore, A. H. Stang, and V. B. Phelan. (1939). 17pp.	BMS12	15¢
Survey of roofing materials in the Northeastern States. H. R. Snoke and L. J. Waldron. (1939). 27pp.	BMS29	10¢
Wood shingles (red cedar, tidewater red cypress, California redwood). (1938).	CS31-38	5¢
Roofing slate. (1928). mimeogr.	R14-28	#
Lumber (American lumber standards for softwood lumber). (1939). mimeogr.	R16-39	#
Eaves trough, conductor pipe and fittings, and ridge rolls. (1939). mimeogr.	R29-39	#
Roofing ternes. (1937).	R30-37	5¢
Sidewalk, floor, and roof lights. (1926).	R49	5¢
Iron and steel roofing. (1928).	R78-28	5¢
Wood and shingle stains. (1936). mimeogr. 4pp.	LC464	#
Paint, varnish and bituminous materials: Publications by members of the staff of the National Bureau of Standards and a list of Federal Specifications. (1939). mimeogr. 26pp.	LC574	#

Rust-Preventive Materials	Series	Price
Protective metallic coatings for the rust-proofing of iron and steel. (1922). 34pp.	C80	20¢
Methods of investigation of surface treatment for corrosion protection of steel. R. E. Pollard and W. C. Porter. (1938). 10pp.	BMS8	10¢
Protection of track-scale parts from corrosion. (1922). mimeogr. 4pp.	LC54	#
Specifications for paint for use on railroad track scales. (1924). mimeogr. 3pp.	LC81	#
Painting water tanks. (1932). mimeogr. 2pp.	LC337	#
The painting of structural metal (steel, galvanized metal, tin plate, and copper). P. H. Walker and E. F. Hickson. (1934). mimeogr. 13pp.	LC422	#
Slate		
Physical properties and weathering characteristics of slate. D. W. Kessler and W. H. Sligh. BS J. Research, 9, 377 (1932). 35pp.	RP477	10¢
Wear resistance of natural stone flooring. D. W. Kessler. BS J. Research, 11, 635 (1933). 14pp.	RP612	OP
Survey of roofing materials in the Southeastern States. H. R. Snoke and L. J. Waldron. (1938). 23pp.	BMS6	15¢
Survey of roofing materials in the Northeastern States. H. R. Snoke and L. J. Waldron. (1939). 27pp.	BMS29	10¢
Structural slate for plumbing and sanitary purposes. (1928).	R13-28	10¢
Roofing slate. (1928). mimeogr.	R14-28	#
Blackboard slate. (1935). mimeogr.	R15	#
Soundproofing Materials (See also Soundproofing.)		
Transmission and absorption of sound by some building materials. C. A. Eckhardt and V. L. Chrisler. BS Sci. Pap., 21, 57 (1926-27). 29pp.	S526	OP

	Series	Price
Transmission of sound through building materials. V. L. Chrisler. BS Sci. Pap., 22, 227 (1927-28). 9pp.	S552	OP
Dependence of sound absorption upon the area and distribution of the absorbent material. V. L. Chrisler. J. Research NBS, 13, 169 (1934). 18pp.	RP700	5¢
Classification of acoustic materials. (1939). mimeogr. 16pp. (Supersedes LC505.)	LC541	#
Sound absorption coefficients of the more common acoustic materials. (1939). mimeogr. 25pp. (Supersedes LC539.)	LC573	#

Steel

(See also: Structural elements: Beams, Bridge members, and Columns.)

Tests of bond resistance between concrete and steel. W. A. Slater, F. E. Richart, and G. G. Scofield. (1920). 66pp.	T173	25¢
Electric-arc welding of steel: I. Properties of the arc-fused metal. H. S. Rawdon, E. C. Groesbeck, and L. Jordan. (1920). 63pp.	T179	OP
Tensile properties of some structural alloy steels at high temperatures. H. J. French. Tech. Pap. BS, 16, 77 (1921-22). 18pp.	T205	OP
Manufacture and properties of steel plates containing zirconium and other elements. G. K. Burgess and R. W. Woodward. Tech. Pap. BS, 16, 123 (1921-22). 54pp.	T207	OP
Results of some compression tests of structural steel angles. A. H. Stang and L. R. Strickenberg. Tech. Pap. BS, 16, 651 (1921-22). 17pp.	T218	10¢
Effect of temperature, deformation, and rate of loading on the tensile properties of low-carbon steel below the thermal critical range. H. J. French. Tech. Pap. BS, 16, 679 (1921-22). 47pp.	T219	OP
Strength of steel tubing under combined column and transverse loading, including tests of columns and beams. T. W. Greene. Tech. Pap. BS, 18, 243 (1924-25). 34pp.	T258	15¢

	Series	Price
High silicon structural steel. H. W. Gillett. Tech. Pap. BS, 21, 121 (1926-27). 33pp.	T331	15¢
Air-hardening rivet steels. H. K. Herschman. Tech. Pap. BS, 22, 141 (1927-28). 29pp.	T358	15¢
Accelerated laboratory corrosion test methods for zinc-coated steel. E. C. Groesbeck and W. A. Tucker. BS J. Research, 1, 255 (1928). 41pp.	RP10	35¢
Strain markings in mild steel under tension. H. S. Rawdon. BS J. Research, 1, 467 (1928). 19pp.	RP15	5¢
Transverse tests of H-section column splices. J. H. Edwards, H. L. Whittemore, and A. H. Stang. BS J.Research, 4, 395 (1930). 19pp.	RP157	10¢
Physical properties of electrically welded steel tubing. H. L. Whittemore, J. S. Adelson, and E. O. Seaquist. BS J. Research, 4, 475 (1930). 26pp.	RP161	OP
Compressive tests of bases for subway columns. J. H. Edwards, H.L.Whittemore, and A.H.Stang. BS J. Research, 5, 619 (1930). 8pp.	RP218	10¢
Strength of welded shelf-angle connections. J.H.Edwards, H.L.Whittemore, and A.H.Stang. BS J. Research, 5, 781 (1930). 12pp.	RP230	10¢
Stress distribution in welded steel pedestals. J.H.Edwards, H.L.Whittemore, and A.H.Stang. BS J. Research, 5, 805 (1930). 9pp.	RP232	10¢
Compressive tests of jointed H-section steel columns. J. H. Edwards, H. L. Whittemore, and A. H. Stang. BS J. Research, 6, 305 (1931). 33pp.	RP277	15¢
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Tests of steel tower columns for the George Washington Bridge. A. H. Stang and H. L. Whittemore. J. Research NBS, 15, 317 (1935). 23pp.	RP831	10¢
Some tests of steel columns incased in concrete. A.H.Stang, H.L.Whittemore, and D.E.Parsons. J. Research NBS, 16, 265 (1936). 23pp.	RP873	10¢
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Structural properties of the Insulated Steel Construction Company's "Frameless-Steel" constructions for walls, partitions, floors, and roofs. H. L. Whittemore, A.H. Stang, and V. B. Phelan. (1938). 18pp.	BMS9	10¢
Structural properties of one of the "Keystone Beam Steel Floor" constructions sponsored by the H. H. Robertson Company. H. L. Whittemore, A. H. Stang, and C. C. Fishburn. (1939). 8pp.	BMS10	10¢

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Exposure tests on colorless waterproofing materials (used on stone). D. W.Kessler. Tech. Pap. BS, 18, 1 (1924-25). 33pp.	T248	OP
Permeability of stone. D. W. Kessler. Tech. Pap. BS, 20, 155 (1925-26). 17pp.	T305	10¢
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, 21, 497 (1926-27). 94pp.	T349	30¢
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Wood and shingle stains. (1936). mimeogr. 4pp. (Supersedes LC64.)	LC464	#

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List of ommercial tandards, revised to January 1, 1940. (1940). mimeogr. 5pp. (Supersedes LC568.)	LC579	#
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Files and rasps. (1940). mimeogr.	R6-40	#
Forged tools. (1935).	R17-35	10¢
Paint and varnish brushes. (1928).	R45-28	5¢
Shovels, spades, and scoops. (1928). mimeogr.	R48	#
Hickory handles. (1939).	R77-39	5¢
Forms for concrete joist construction floors. (1932). mimeogr.	R87-32	#
Hack-saw blades. (1936).	R90-36	5¢
Wheelbarrows. (1932).	R105-32	5¢

	Series	Price
Block sizes for calcimine brushes. (1931).	R121-31	5¢
Copper wire nails. (1934).	R150-34	5¢
Forged axes. (1937).	R158-37	5¢
Forged hammers. (1937).	R159-37	5¢
Forged hatchets. (1937).	R160-37	5¢
Specifications, standardization, and use of steel tapes. (1931). mimeogr. 5pp.	LC310	#

BUILDING AND PLUMBING CODES

Recommended minimum requirements for masonry wall construction. (1924). 57pp.	BH6	15¢
Minimum live loads allowable for use in design of buildings. (1924). 38pp.	BH7	10¢
Recommended practice for arrangement of building codes. (1925). 29pp.	BH8	OP
Recommended building code requirements for working stresses in building materials. (1926). 53pp.	BH9	OP
Recommended minimum requirements for plumbing (including Supplement, Progress Revision, May, 1931). (1932). 283pp. (Supersedes BH2.)	BH13	35¢
Recommended minimum requirements for fire resistance in buildings. (1930). 58pp.	BH14	10¢
Recommended minimum requirements for small dwelling construction. (1932). 107pp. (Supersedes BH1.)	BH18	10¢
Preparation and revision of building codes. G. N. Thompson. (1939). 18pp.	BMS19	15¢
Design and construction of building exits. (1935). 76pp.	M151	10¢
Publications relating to building codes and construction practice, home building, building material specifications, home maintenance. (list). (1939). mimeogr. 2pp.	LC432	#

	Series	Price
Building regulation: Publications issued by the National Bureau of Standards (descriptive list). (1939). mimeogr. 4pp.	LC555	#
Compression tests on brick masonry: A compilation covering 708 individual tests of brick masonry in the form of piers and walls. (1923). mimeogr. 50pp.		#

BUILDING DESIGN AND CONSTRUCTION

(See also Bldg & Plumbing Codes; and Structural Elements)

Wind pressure on structures. H. L. Dryden and G. C. Hill. BS Sci. Pap. 20, 697 (1924-26). 36pp.	S523	20¢
Wind pressure on circular cylinders and chimneys. H. L. Dryden and G. C. Hill. BS J. Research, 5, 653 (1930). 41pp.	RP221	15¢
Strain measurement in the reinforcement for the dome of the Natural History Building. W. C. Lyon, H. L. Whittemore, A. H. Stang, and L. R. Sweetman. BS J. Research, 6, 183 (1931). 12pp.	RP268	15¢
Wind pressure on a model of a mill building. H. L. Dryden and G. C. Hill. BS J. Research, 6, 735 (1931). 21pp.	RP301	10¢
Wind pressure on a model of the Empire State Building. H. L. Dryden and G. C. Hill. BS J. Research, 10, 493 (1933). 31pp.	RP545	5¢
Influence of neighboring structures on the wind pressure on tall buildings. C. L. Harris. BS J. Research, 12, 103 (1934). 16pp.	RP637	5¢
Flow in roof gutters. K. H. Beij. BS J. Research, 12, 193 (1934). 21pp.	RP644	5¢
Determination of principal stresses from strains on four intersecting gage lines 45° apart. W. R. Osgood. J. Research NBS, 15, 579 (1935). 3pp.	RP851	5¢
Strength of riveted steel rigid frame having straight flanges. A. H. Stang, M. Greenspan, and W. R. Osgood. J. Research NBS, 21, 269 (1938). 55pp.	RP1130	15¢
Strength of riveted steel rigid frame having a curved inner flange. A. H. Stang, M. Greenspan, and W. R. Osgood. J. Research NBS, 21, 853 (1938). 19pp.	RP1161	10¢

	Series	Price
Strength of a welded steel rigid frame. A. H. Stang and M. Greenspan. J. Research NBS, 23, 145 (1939). 6pp.	RP1224	5¢
Determination of cross-sectional areas of structural members. J. A. Miller. J. Research NBS, 23, 621 (1939). 16pp. Relates specifically to a typical airship box girder.	RP1258	10¢
Research on building materials and structures for use in low-cost housing. H. L. Dryden. (1938). 5pp.	BMS1	10¢
Methods of determining the structural properties of low-cost house constructions. H. L. Whittemore and A. H. Stang. (1938). 18pp.	BMS2	10¢
Safety for the household. (1932). 102pp. (Supersedes C75.)	C397	25¢
Design and construction of building exits. (1935). 76pp.	M151	10¢
Tentative classification of building construction with reference to fire resistance. (1922). mimeogr. 6pp.	LC71	#
List of published material relating to home building and maintenance. (1938). mimeogr. 28pp.	LC287	#
Publications of the engineering mechanics section of the Bureau of Standards. (1935). mimeogr. 26pp.	LC316	#
House-plan services. (1937). mimeogr. 1p.	LC428	#
Publications relating to building codes and construction practice, home building, building material specifications, home maintenance. (list). (1939). mimeogr. 2pp.	LC432	#
Proposed coordination of sizes of manufactured building materials. (Includes masonry opening dimensions based on standard brick size.) (1935). mimeogr. 8pp.		#

CITY AND REGIONAL PLANNING

(See also Zoning)

The optical requirements of airplane mapping. I. C. Gardner. BS J. Research, 8, 445 (1932). 11pp.	RP427	5¢

City and Regional Planning--Continued

	Series	Price
A city planning primer. (1928). 18pp.	BH10	5¢
A standard city planning enabling act. (1928). 54pp.	BH11	15¢

ELECTRICITY

Ground connections for electrical systems. O. S. Peters. (1918). 224pp.	T108	50¢
Safety for the household. (1932). 102pp. (Supersedes C75.)	C397	25¢
National electrical safety code. (1926). 4th ed. 525pp. (Supersedes C54.)	H5	OP
Discussion of the national electrical safety code (to accompany 4th edition of the code). (1928). 354pp.	H4	$1.00
Safety rules for the installation and maintenance of electrical supply and communication lines (Part 2 of 4th edition, National electrical safety code). (1927). 522pp.	H10	60¢
Wood poles for overhead electrical lines. (1931). 24pp. (Supplements H5 and H10.)	H16	OP
Manual of fire-loss prevention of the Federal Fire Council. (1934). 156pp.	H19	20¢
Code for protection against lightning. (1937). 3rd ed. 96pp. (Supersedes M92 and H17.)	H21	15¢
Safety rules for the installation and maintenance of electrical supply stations. (Part 1 and grounding rules of the 5th edition, National electrical safety code.) (Supersedes H6.)	H31	In press.
Safety rules for the installation and maintenance of electric utilization equipment (Part 3 and grounding rules of the 5th edition, National electrical safety code.(1940). 80pp. (Supersedes H7.)	H33	15¢
Safety rules for the operation of electric equipment and lines. (Part 4 of the 5th edition, National electrical safety code). (1938). 56pp. (Supersedes C49 and H8.)	H34	10¢

	Series	Price
Safety rules for radio installations (Part 5 of 5th edition of the National electrical safety code. (1939). 25pp. (Supersedes H9.)	H35	10¢
Protection of electrical circuits and equipment against lightning. (1929). 107pp.	M95	25¢
Domestic electric and gas refrigerators. (1936). mimeogr. 7pp. (Supersedes LC412.)	LC472	#
Electrical interference with radio reception. (1937). mimeogr. 8pp. (Supersedes LC415.)	LC491	#

FIRE TESTS AND FIRE PREVENTION

A comparison of the heat-insulating properties of some of the materials used in fire-resistive construction. W. A. Hull. (1919). 40pp.	T130	OP
Fire tests of building columns, S. H. Ingberg, H. K. Griffin, W. C. Robinson, and R. E. Wilson. (1921). 375pp.	T184	75¢
Fire resistance of concrete columns. W. A. Hull and S.H. Ingberg. Tech. Pap. BS, 18, 635 (1924-25). 74pp.	T272	25¢
Fire resistance of hollow load-bearing wall tile. S. H. Ingberg and H. D. Foster. BS J. Research, 2, 1 (1929). 334pp.	RP37	75¢
Fire tests of columns protected with gypsum. N. D. Mitchell. BS J. Research, 10, 737 (1933). 19pp.	RP563	5¢
Fire hazard of domestic heating installations. G. Q. Voigt. BS J. Research, 11, 553 (1933). 20pp.	RP596	OP
Tests of theatre-proscenium curtains. N.D.Mitchell. BS J. Research, 11, 491 (1933). 25pp.	RP605	5¢
Compressive tests of structural steel at elevated temperatures. P. D. Sale. J. Research NBS, 13, 713 (1934). 31pp.	RP741	OP
Fire-resistant doped fabric for aircraft. G. M. Kline. J. Research NBS, 14, 575 (1935). 15pp.	RP788	5¢
National standard hose couplings and fittings for public fire service. (1917). 34pp.	050	OP

	Series	Price
Safety for the household. (1932). 102pp. (Supersedes C75 of same title)	C397	25¢
Manual of fire-loss prevention of the Federal Fire Council. (1934). 156pp.	H19	20¢
Code for protection against lightning. (1937). 3rd ed. 96pp. (Supersedes M92 and H17.)	H21	15¢
Recommended minimum requirements for fire resistance in buildings. (1930). 58pp.	BH14	10¢
Asbestos paper and asbestos millboard. (1937).	R19-37	~~5¢~~
Kalamein single-acting swing doors, frames, and trim. (1928).	R85-28	5¢
Protection of electrical circuits and equipment against lightning. (1929). 107pp.	M95	~~35¢~~ 25¢
Design and construction of building exits. (1935). 76pp.	M151	10¢
Publications relating to accident prevention and safety. (1940). mimeogr. 7pp.	LC60	#
Tentative classification of building construction with reference to fire resistance. (1922). mimeogr. 6pp.	LC71	#
Publications relating to fire resistance and fire prevention. (1936). mimeogr. 9pp.	LC165	#
Fire resistance of brick walls. Bricks made of clay and shale. (1927). mimeogr. 5pp.	LC228	#
Fire resistance of brick walls. Walls made of concrete or sand-lime bricks. (1927). mimeogr. 4pp.	LC229	#
Theatre safety curtains. (1934). mimeogr. 6pp. (Supersedes LC137.)	LC406	#
Flameproofing of textiles. (1936). mimeogr. 9pp.	LC467	#
Classification of acoustic materials (includes fire resistance). (1939). mimeogr. 16pp. (Supersedes LC505.)	LC541	#

HEATING

(See also House equipment; Insulating materials.)

Fire hazard of domestic heating installations. G. Q. Voigt. BS J. Research, 11, 353 (1933). 20pp.	RP596	OP

Heating--Continued

	Series	Price
Standards for gas service. (1934). 258pp. (Supersedes C32.)	C405	20¢
Propane, butane, and related fuels. E. R. Weaver. (1938). 21pp.	C420	5¢
Manual of fire-loss prevention of the Federal Fire Council. (1934). 156pp.	H19	20¢
Care and repair of the house. V. B. Phelan. (1931). 121pp.	BH15	15¢
Recommended minimum requirements for small dwelling construction. (1932). 107pp. (Supersedes BH1.)	BH18	10¢
Fuel oils (5th ed.). (1940). mimeogr.	CS12-40	#
Domestic burners for Pennsylvania anthracite (underfeed type). (1934).	CS48-34	5¢
Automatic mechanical draft oil burners. (1939).	CS75-39	5¢
Steel horizontal firebox heating boilers. (1937).	R157-37	5¢
Large tube cast-iron radiators. (1940). mimeogr.	R174-40	#
Simplification of sizes and terminology of high volatile bituminous coal. (1929). 14pp.	M113	5¢
List of publications and articles relating to home heating problems. (1939). mimeogr. 6pp.	LC284	#
Painting of steam and hot water radiators. (1935). mimeogr. 4pp. (Supersedes LC263.)	LC445	#

HOUSE CARE AND REPAIR

Care and repair of the house. V. B. Phelan. (1931). 121pp.	BH15	15¢
Modernizing the home--Suggestions for remodeling and modernization of houses and apartments. (check list). (1931). 5pp. printed.		#
Suggestions for possible repairs and improvements in the house and its equipment. (check list). (1931). 5pp. printed.		#
List of published material relating to home building and maintenance. (1938). mimeogr. 28pp.	LC287	#

	Series	Price
Outside house painting. (1932). mimeogr. 3pp.	LC333	#
The care of floors. (1933). mimeogr. 19pp.	LC388	#

HOUSE EQUIPMENT AND FURNISHINGS

(See also Electricity; Heating; Housekeeping, cleaning, etc.; and Plumbing.)

Tests of flexible gas tubing. R. S. McBride and W. M. Berry. (1919). 37pp.	T133	OP
Design of atmospheric gas burners. W. M. Berry, I. V. Brumbaugh, G. F. Moulton, and G. B. Shawn. (1921). 62pp.	T193	OP
Carbon monoxide in the products of combustion from natural gas burners. I. V. Brumbaugh and G. W. Jones. Tech. Pap. BS, 16, 431 (1922). 20pp.	T212	10¢
Relative usefulness of gases of different heating value and adjustments of burners for changes in heating value and specific gravity. W. M. Berry, I. V.Brumbaugh, J. H. Eiseman, G. F. Moulton, and G. B. Shawn. Tech. Pap. BS, 17, 15 (1922-24). 77pp.	T222	OP
Relation between the heating value of gas and its usefulness to the customer. E.R.Weaver. Tech. Pap. BS, 19, 347 (1924-25). 117pp.	T290	30¢
Causes of some accidents from gas appliances. I. V. Brumbaugh. Tech. Pap. BS, 20, 47 (1925-26). 76pp.	T303	30¢
A method for testing gas appliances to determine their safety from producing carbon monoxide. E. R. Weaver, J. H. Eiseman, and G. B. Shawn. Tech. Pap. BS, 20, 125 (1925-26). 30pp.	T304	OP
Carpet wear testing machine. H. F. Schiefer and A. S. Best. BS J. Research, 6, 927 (1931). 10pp.	RP315	10¢
A method for determining the most favorable design of gas burners. J. H. Eiseman, E. R. Weaver, and F. A. Smith. BS J. Research, 8, 669 (1932). 41pp.	RP446	5¢
The effect of altitude on the limits of safe operation of gas appliances. J. H. Eiseman, F. A. Smith, and C. J. Merritt. BS J. Research, 10, 619 (1933). 19pp.	RP553	5¢

House Equipment and Furnishings--Continued

	Series	Price
Fire hazard of domestic heating installations. G. Q. Voigt. BS J. Research, 11, 553 (1933). 20pp.	RP596	OP
Wear of carpets. H. F. Schiefer and R. S. Cleveland. BS J. Research, 12, 155 (1934). 12pp.	RP640	OP
Effect of the depth of drilled ports on the limits of operation of domestic gas burners. J. H. Eiseman and F. A. Smith. J. Research NBS, 18, 485 (1937). 13pp.	RP988	10¢
Measurements for the household. (1915). 149pp.	C55	OP
Materials for the household. (1917). 259pp.	C70	50¢
Selection and care of garden hose. (1927). 12pp.	C327	10¢
Design of gas burners for domestic use. (1951). 25pp.	C394	10¢
Safety for the household. (1932). 102pp. (Supersedes C75.)	C397	25¢
Cautions regarding gas-appliance attachments. J. H. Eiseman. (1934). 11pp.	C404	5¢
Standards for gas service. (1934). 258pp. (Supersedes C32.)	C405	20¢
Propane, butane, and related fuels. E. R. Weaver. (1938). 21pp.	C420	5¢
Performance test of floor coverings for use in low-cost housing: Part 1. P. A. Sigler and E. A. Koerner. (1940). 14pp.	BMS34	10¢
Performance test of floor coverings for use in low-cost housing: Part 2. P. A. Sigler and E. A. Koerner. (1940). 20pp.	BMS45	10¢
Mirrors. (1936).	CS27-36	5¢
Domestic burners for Pennsylvania anthracite (underfeed type). (1934).	CS48-34	5¢
Wood-slat Venetian blinds. (1937).	CS61-37	5¢
Automatic mechanical draft oil burners designed for domestic installations. (1939).	CS75-39	5¢
Refrigerator ice compartments. (1929).	R109-29	10¢

	Series	Price
Steel horizontal firebox heating boilers. (1937).	R157-37	5¢
Large tube cast-iron radiators. (1940). mimeogr.	R174-40	#
Household weights and measures. (1926). 3rd ed. (card). 2pp.	M39	OP
Buying commodities by weight or measure. (1920). 42pp. (Reprint from C55.)	M45	OP
Publications relating to accident prevention and safety. (1940). mimeogr. 7pp.	LC460	#
Domestic electric and gas refrigerators. (1936). mimeogr. 7pp. (Supersedes LC412.)	LC472	#
Air conditioning: Publications of interest. (List of selected publications.) (1937). mimeogr. 5pp.	LC488	#
Electrical interference with radio reception. (1937). mimeogr. 8pp.(Supersedes LC415.)	LC491	#
Gases: Publications by the staff of the National Bureau of Standards. (1939). mimeogr. 18pp. (Supersedes LC80.)	LC546	#

HOUSEKEEPING, CLEANING, ETC.

(See also: House equipment and furnishings.)

Measurements for the household. (1915). 149pp.	C55	OP
Materials for the household. (1917). 259pp.	C70	50¢
Safety for the household. (1932). 102pp. (Supersedes C75.)	C397	25¢
Washing, cleaning, and polishing materials. F. W.Smither. (1939). 63pp. (Supersedes C385.)	C424	15¢
Mopsticks. (1930).	CS2-30	5¢
Stoddard solvent (dry cleaning). (1938).	CS3-38	5¢
Household insecticide (liquid spray type). (1938).	CS72-38	5¢
Floor sweeps (household, institutional, garage, warehouse, and industrial). (1937).	R88-37	5¢
Counter, window, and radiator brushes. (1937).	R167-37	5¢

Housekeeping, Cleaning, Etc.--Continued

	Series	Price
Polishes (furniture, automobile, metal, floor, glass, stove, and shoe polishes, and polishing cloths). (1929). mimeogr. 11pp.	LC275	#
Detergents and certain detergent aids. (1932). mimeogr. 6pp.	LC338	#
Floor oils. (1932). mimeogr. 2pp.	LC339	#
Sweeping compounds. (1932). mimeogr. 2pp.	LC340	#
Drainpipe cleaners or solvents. (1932). mimeogr. 2pp.	LC341	#
The care of floors. (1933). mimeogr. 19pp.	LC388	#
Detergents and related subjects. (1934). mimeogr. 9pp.	LC403	#
List of publications of interest to household purchasers. (1938). mimeogr. 25pp.	LC416	#

ILLUMINATION

Standards for gas service. (1934). 258pp. (Supersedes C32.)	C405	20¢
Manual of fire-loss prevention of the Federal Fire Council. (1934). 156pp.	H19	20¢
Color of illuminant and efficiency of the worker. (1940). mimeogr. 4pp. (Supersedes LC352.)	LC581	#

PLUMBING

(See also Plumbing materials.

Cross connections in plumbing systems. R. B. Hunter, G. E. Golden, and H. N. Eaton. (includes list of references.) J. Research NBS, 20, 479 (1938). 64pp.	RP1086	15¢
Recommended minimum requirements for plumbing. (1932). 283pp. (Supersedes BH2.)	BH13	35¢
Backflow prevention in over-rim water supplies. G. E. Golden and R. B. Hunter. (1939). 17pp.	BMS28	10¢

PUBLIC UTILITIES

The influence of quality of gas and other factors upon the efficiency of gas-mantle lamps. R. S. McBride, W. A. Dunkley, E. C. Crittenden, and A. H. Taylor. (1918). 49pp.	T110	15¢
A portable cubic-foot standard for gas. M. H. Stillman. (1919). 13pp.	T114	5¢

	Series	Price
Joliet reference gas meter. H. S. Bean, M. E. Benesh, and F. C. Witting. J. Research NBS, 17, 207 (1936). 40pp.	RP908	10¢
Standard methods of gas testing. (1916). 202pp.	C48	OP
Telephone service. (1921). 214pp.	C112	OP
Gas-measuring instruments. (1926). 109pp.	C309	OP
Standards for gas service. (1934). 258pp. (Supersedes C32.)	C405	20¢

SOUNDPROOFING

(See also Soundproofing materials.)

Soundproofing of apartment houses. V.L.Chrisler. Tech. Pap. BS, 21, 255 (1926-27). 6pp.	T337	OP
Transmission of sound through wall and floor structures. V.L.Chrisler and W.F.Snyder. BS J. Research, 2, 541 (1929). 19pp.	RP48	5¢
The absorption of sound at oblique angles of incidence. P. R. Heyl, V. L. Chrisler, and W. F. Snyder. BS J. Research, 4, 289 (1930). 8pp.	RP149	5¢
The measurement of sound absorption. V. L. Chrisler and W. F. Snyder. BS J. Research, 5, 957 (1930). 16pp.	RP242	OP
An automatic reverberation meter for the measurement of sound absorption. W. F. Snyder. BS J. Research, 9, 47 (1932). 6pp.	RP457	5¢
Some of the factors which affect the measurement of sound absorption. V. L. Chrisler and C. E. Miller. BS J. Research, 9, 175 (1932). 11pp.	RP465	5¢
Recent sound-transmission measurements at the National Bureau of Standards. V. L. Chrisler and W. F. Snyder. J. Research NBS, 14, 749 (1935). 16pp.	RP800	5¢
A discussion of some of the principles of acoustical insulation. V.L.Chrisler. (1933).12pp.	C403	5¢
Sound insulation of wall and floor constructions. V. L. Chrisler. (1939). 31pp.	BMS17	10¢

	Series	Price
Publications on acoustics by members of the staff of the National Bureau of Standards. (1937). mimeogr. 4pp.	LC380	#

SPECIFICATIONS--GENERAL INFORMATION

Note: Federal Specifications, intended primarily for use in connection with Federal Government purchases, are prepared by committees representing the various Federal agencies concerned. Titles and prices of certain of these Federal Specifications, and directions for obtaining copies of them, are included in LC570 (see last entry this page).

Standards and specifications in the wood-using industries. (1927). 349pp.	M79	OP
Standards and specifications for nonmetallic minerals and their products. (1930). 680pp.	M110	$2.75 (cloth)
Standards and specifications for metals and metal products. (1933). 1359pp.	M120	$3.00 (cloth) (foreign, $4.00)
National directory of commodity specifications: classified and alphabetical lists and brief descriptions of specifications of national recognition. (1932). 548pp.	M130	$1.75 (cloth)
Lists of sources of supply of commodities covered by Federal Specifications. As of current date. mimeogr. (Note: Lists relate to given commodities. When requesting, specify materials in which interested.)	LC256 Supplements	#
The certification plan: Its significance, scope, and application to selected Federal Specifications, and Commercial Standards. (1939). mimeogr. 34pp.	LC559	#
Standards and specifications for building and construction materials, fixtures, supplies, and equipment (a list). (1939). mimeogr. 14pp. (Supersedes LC323.)	LC570	#

Beams	Series	Price
The strength of reinforced concrete beams--results of tests of 353 beams (first series). R. L. Humphray and L. H. Losse. (1911). 200pp.	T2	OP
Effect of repeated reversals of stress on double-reinforced concrete beams. W. A. Slater, G. A. Smith, and H. P. Mueller. (1920). 51pp.	T182	15¢
Tests of heavily reinforced concrete slab beams: Effect of direction of reinforcement on strength and deformation. W. A. Slater and F. B. Seely. Tech. Pap. BS, 17, 297 (1922-24). 48pp.	T233	15¢
Strength of steel tubing under combined column and transverse loading, including tests of columns and beams. T. W. Greene. Tech. Pap. BS, 18, 243 (1924-25). 34pp.	T258	15¢
Shear tests of reinforced concrete beams. W. A. Slater, A. R. Lord, and R. R. Zipprodt. Tech. Pap. BS, 20, 387 (1925-26). 108pp.	T314	50¢
Test of composite beams and slabs of hollow tile and concrete. D.E.Parsons and A.H.Stang. BS J. Research, 4, 815 (1930). 35pp.	RP181	15¢
Strength of welded shelf-angle connections. J.H.Edwards, H.L.Whittemore, and A.H.Stang. BS J. Research, 5, 781 (1930). 12pp.	RP230	10¢
Shear tests of reinforced brick masonry beams. D. E. Parsons, A. H. Stang, and J.W.McBurney. BS J. Research, 9, 749 (1932). 20pp.	RP504	OP
Test of a flat steel-plate floor under loads. L.B.Tuckerman, A.H.Stang, and W.R.Osgood. BS J. Research, 12, 363 (1934). 15pp.	RP662	OP
Compression tests of structural steel at elevated temperatures. P. D. Sale. J. Research NBS, 13, 715 (1934). 31pp.	RP741	OP ~~5¢~~
Strength of riveted steel rigid frame having straight flanges. A. H. Stang, M. Greenspan, and W.R.Osgood. J. Research NBS, 21, 269 (1938). 55pp.	RP1130	15¢
Determination of cross-sectional areas of structural members. J. A. Miller. J. Research NBS, 23, 621 (1939). 16pp.	RP1258	10¢

	Series	Price
Manual of fire-loss prevention of the Federal Fire Council. (1934). 156pp.	H19	20¢
Open web steel joists. (1930).	R94-30	5¢

Bridge Members

Tests of large bridge columns. J. H. Griffith and J. G. Bragg. (1918). 139pp.	T101	30¢
Stress distribution in welded steel pedestals. J.H.Edwards, H.L.Whittemore, and A.H.Stang. BS J. Research, 5, 803 (1930). 9pp.	RP232	10¢
Tests on a reinforced-concrete arch of the Arlington Memorial Bridge. C. C. Fishburn and J. L. Nagle. BS J. Research, 11, 567 (1933). 32pp.	RP609	5¢
Fatigue properties of steel wire. S. M. Shelton and W. H. Swanger. J. Research NBS, 14, 17 (1935). 16pp.	RP754	5¢
Tests of steel tower columns for the George Washington Bridge. A. H. Stang and H. L. Whittemore. J. Research NBS, 15, 317 (1935). 23pp.	RP831	10¢
Tests of eight large H-shaped columns fabricated from carbon-manganese steel. A. H. Stang, H. L. Whittemore, and L.R.Sweetman. J. Research NBS, 16, 595 (1936). 32pp.	RP896	5¢
Tests of steel chord members for the Bayonne Bridge. A. H. Stang, H. L. Whittemore, and L. R. Sweetman. J. Research NBS, 16, 627 (1936). 22pp.	RP897	5¢
Inspection and tensile tests of some worn wire ropes. W. H. Fulweiler, A. H. Stang, and L. R. Sweetman. J. Research NBS, 17, 401 (1936). 51pp.	RP920	OP
Strength of riveted steel rigid frame having straight flanges. A. H. Stang, M. Greenspan, and W. R. Osgood. J. Research NBS, 21, 269 (1938). 55pp.	RP1130	15¢
Strain lines developed by compressive tests on structural members of the Delaware River Bridge at the U. S. Bureau of Standards for the Delaware River Bridge Joint Commission. (1926). (poster, 14 3/4 by 18 inches)	M72	5¢

	Series	Price
Columns		
Tests of eighteen concrete columns reinforced with cast iron. J.Tucker, Jr., and J.G.Bragg. (1919). 38pp.	T122	OP
Fire tests of building columns. S. H. Ingberg, H. K. Griffin, W. C. Robinson, and R. E. Wilson. (1921). 375pp.	T184	75¢
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Recommended building code requirements for working stresses in building materials. (1926). 55pp.	BH9	OP

Floors

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(See also: City and regional planning)

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