

DEPARTMENT OF COMMERCE
BUREAU OF STANDARDS
WASHINGTON, D. C.

Letter
Circular
LC - 290

November 5, 1930

Publications of the Bureau of Standards relating to
BUILDING MATERIALS, HOME BUILDING, HOME OWNERSHIP,
CITY PLANNING, and ZONING

Compiled by the Division of Building and Housing,
Bureau of Standards

Most of the publications on this list may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., at the prices noted. Those marked "out of print" may be consulted at Government depository libraries. Letter Circulars and publications marked * are obtainable, on request, direct from the division of building and housing of the Bureau of Standards.

Abbreviations

BH, Building and Housing	M, Miscellaneus
C, Circular	SPR, Simplified Practice Recommendation
CS, Commercial Standard	RP, Research Paper
H, Handbook	S, Scientific Paper
L, Limitation of Variety Recommendation	T, Technologic Paper
LC, Letter Circular	USGMS, U. S. Gov't Master Specification

Contents

	Page
Building materials (see list next page)	3-44
Builders' supplies and tools	45
Building and plumbing codes	46
Building standards	47
City planning	48
Division of Building and Housing.	48
Electricity.	48
Electrolysis and soil corrosion	49
Heating	51
Home financing.	51
Home ownership.	52
House care and repair	52
House design and construction.	52
House equipment and furnishings	52
Prices and statistics	54
Public utilities	55
Stabilization of construction.	56
Zoning	56
Miscellaneous	57

BUILDING MATERIALS

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

	Page
Asphalt	3
Beams.	3
Brick.	3
Bridge members.	6
Cement	6
Clays.	9
Columns	10
Concrete	11
Enameled metal ware	14
Fire clay and fire-clay brick	15
Fire tests and fire prevention	16
Floors	18
Glass	19
Gypsum	19
Hollow building tile.	20
Insulation	21
Lime	22
Metals--miscellaneous	23
Mortar	25
Paint materials	25
Pipe and pipe fittings	30
Plaster	30
Plumbing	31
Quicklime	32
Roofing materials.	32
Rust-preventive materials	35
Screws	35
Slate	35
Sound and soundproofing.	36
Specifications--general information.	37
Steel	37
Stone.	39
Stucco	40
Wallboard and plaster board	41
Waterproofing	41
Wood	42
Miscellaneous building materials.	42

BUILDING MATERIALS

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

Asphalt (See also Roofing materials, and Waterproofing)

RP197 Accelerated tests of asphalts,
by O. G. Strieter. 10¢.
(Reprint from B. S. Journal of Research, August,
1930; vol. 5, No. 2, p. 247-253.)

SPR4 Asphalt
5¢.

Beams

T2 The strength of reinforced concrete beams--results
of tests of 333 beams (first series), by Richard
L. Humphray and Louis H. Losse
June 27, 1911. 200 pages. (out of print)

T182 Effect of repeated reversals of stress on double-
reinforced concrete beams, by W. A. Slater, G. A. Smith,
and H. P. Mueller
Dec. 20, 1920. 51 pages. 15¢.

T233 Tests of heavily reinforced concrete slab beams:
Effect of direction of reinforcement on strength
and deformation, by W. A. Slater and F. B. Seely
March 20, 1923. 48 pages. 15¢.

T314 Shear tests of reinforced concrete beams, by
W. A. Slater, A. R. Lord, and R. R. Zipprodt
April 13, 1926. 108 pages. 50¢.

RP181 Test of composite beams and slabs of hollow tile
and concrete, by D. E. Parsons and A. H. Stang. 15¢.
(Reprint from B. S. Journal of Research, June,
1930; vol. 4, No. 6, p. 815-849.)

Brick (See also Fire Clay and Fire-Clay Brick)

T85 Manufacture and properties of sand-lime brick,
by Warren E. Emley
March 22, 1917. 41 pages. 10¢.

T111 The compressive strength of large brick piers,
by J. G. Bragg
Sept. 20, 1918. 39 pages. 10¢.

T251 Equalizer apparatus for transverse tests of bricks,
by H. L. Whittemore
Feb. 5, 1924. 7 pages. 10¢.

BUILDING MATERIALS--Brick--Continued

- T276 Compressive strength of sand-lime brick walls,
by F. L. Whittemore and A. H. Stang
Jan. 21, 1925. 15 pages. 10¢.
- T341 A portable apparatus for transverse tests of brick,
by A. H. Stang
May 31, 1927. 6 pages. 5¢.
- T370 Cause and prevention of kiln and dry-house scum and
of efflorescence on face-brick walls,
by L. A. Palmer
June 19, 1928. 51 pages. 20¢.
- RP36 Studies of machines for extruding clay columns.
Augers, spacer, and dies for brick machines,
by Paul C. Grunwell. 15¢.
(Reprint from B. S. Journal of Research, December, 1928;
vol. 1, No. 6, p. 1023-1057.)
- RP37 Fire resistance of hollow load-bearing wall tile,
by S. H. Ingberg and H. D. Foster. 75¢.
(Reprint from B. S. Journal of Research, January 1929;
vol. 2, No. 1, p. 1-334.)
- RP59 The compressive and transverse strength of brick,
by J. W. McBurney. 5¢.
(Reprint from B. S. Journal of Research, April,
1929; vol. 2, No. 4, p. 821-835.)
- RP88 Some absorption properties of clay bricks,
by L. A. Palmer. 10¢.
(Reprint from B. S. Journal of Research, July, 1929;
vol. 3, No. 1, p. 105-127.)
- RP108 Compressive strength of clay brick walls,
by A. H. Stang, D. E. Parsons, and J. W. McBurney. 30¢.
(Reprint from B. S. Journal of Research, October,
1929; vol. 3, No. 4, p. 507-571.)
- Cl09 Sand-lime brick--Description and specification
Jan. 3, 1921. 9 pages. 5¢.
- Cl50 Recommended specification for quicklime and hydrated
lime for use in the manufacture of sand-lime brick
Dec. 28, 1923. 6 pages. 5¢.

BUILDING MATERIALS--Brick--Continued

- C345 U. S. Gov't master specification for common clay brick
Aug. 10, 1927. 5 pages. 5¢.
- C347 U. S. Gov't master specification for brick, sand-lime, common
Sept. 24, 1927. 4 pages. 5¢.
- BH1 Recommended minimum requirements for small dwelling construction
July 20, 1922. 108 pages. 15¢.
- BH6 Recommended minimum requirements for masonry wall construction
June 26, 1924. 57 pages. 15¢.
- SPR1 Vitrified paving brick
5¢.
- SPR7 Rough and smooth face brick and common brick
5¢.
- SPR38 Sand-lime brick
5¢.
- LC29 Ideal wall construction
Nov. 16, 1921. mimeographed.
- LC146 List of publications on sand-lime brick
March 15, 1928. 2 pages. mimeographed.
- LC168 Addresses of sources of publications issued by the lime, gypsum, and sand-lime brick section
Jan. 1, 1929. 2 pages. mimeographed.
- LC169 Miscellaneous publications of lime, gypsum, and sand lime brick section
June 19, 1925. 2 pages. mimeographed.
- LC228 Fire resistance of brick walls. Bricks made of clay and shale
June 8, 1927. 5 pages. mimeographed.
- LC229 Fire resistance of brick walls. Walls made of concrete or sand-lime bricks
June 8, 1927. 4 pages. mimeographed.

BUILDING MATERIALS--Brick--Continued

LC266 Specifications for portable testing machine for making transverse tests of building bricks
June 3, 1929. mimeographed.

- * Compression tests on brick masonry: A compilation covering 708 individual tests of brick masonry in the form of piers and walls
March, 1926. 50 pages. mimeographed.

Bridge members

- T101 Tests of large bridge columns, by J. H. Griffith and J. G. Bragg
June 27, 1918. 139 pages. (out of print)
- RP232 Stress distribution in welded steel pedestals, by James H. Edwards, H. L. Whittemore, and A. H. Stang. ϕ .
(Reprint from B. S. Journal of Research, October, 1930; vol. 5, No. 4, p. 803-811.)
- M72 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
Poster, 14 $\frac{3}{4}$ by 18 inches. 5 ϕ .

Cement (See also mortar, plaster, stucco, and concrete)

- T3 Tests of the absorptive and permeable properties of Portland cement mortars and concretes, together with tests of damp-proofing and waterproofing compounds and materials, by Rudolph J. Wig, and P. H. Bates
Aug. 22, 1911. 127 pages. (out of print)
- T5 The effect of high-pressure steam on the crushing strength of Portland cement mortar and concrete, by Rudolph J. Wig
Sept. 5, 1911. 25 pages. (out of print)
- T12 Action of the salts in alkali water and sea water on cements, by P. H. Bates, A. J. Phillips, and Rudolph J. Wig
Nov. 1, 1912. 157 pages. (out of print)
- T29 Variation in results of sieving with standard cement sieves, by R. J. Wig and J. C. Pearson
Aug. 1, 1913. 16 pages. (out of print)

BUILDING MATERIALS--Cement--Continued

- T42 Standardization of No. 200 cement sieves,
by R. J. Wig and J. C. Pearson
July 30, 1914. 51 pages. 10¢.
- T43 Hydration of Portland cement, by A. A. Klein and
A. J. Phillips
April 18, 1914. 71 pages. (out of print)
- T47 Value of the high-pressure steam test of Portland
cement, by Rudolph J. Wig and Herbert A. Davis
Aug. 18, 1915. 34 pages. 15¢.
- T48 An air analyzer for determining the fineness
of cement, by J. C. Pearson and W. H. Sligh
Sept. 8, 1915. 74 pages. (out of print)
- T78 Properties of the calcium silicates and calcium
aluminate occurring in normal Portland cement,
by P. H. Bates and A. A. Klein
June 9, 1917. 38 pages. (out of print)
- T95 Durability of cement drain tile and concrete
in alkali soils, by R. J. Wig, G. M. Williams, and
A. N. Finn, with S. H. McGroary, E. C. Bebb, and L. R.
Ferguson
Nov. 15, 1917. 94 pages. 50¢.
- T102 The properties of Portland cement having a high
magnesia content, by P. H. Bates
Jan. 19, 1918. 42 pages. 15¢.
- T174 Effects of calcium as an accelerator of the hardening
of Portland cement mixtures, by Roy N. Young
Oct. 11, 1920. 24 pages. 5¢.
- T197 Cementing qualities of the calcium aluminates,
by P. H. Bates
Sept. 27, 1921. 27 pages. 10¢.
- T214 Durability of cement drain tile and concrete in
alkali soils: Third progress report (1919-20),
by G. M. Williams
May 19, 1922. 32 pages. 10¢.
- T239 Tests of caustic magnesia made from magnesite
from several sources, by P. H. Bates, R. N. Young, and
P. Rapp
Sept. 14, 1923. 30 pages. 10¢.

BUILDING MATERIALS--Cement--Continued

- T307 Durability of cement drain tile and concrete in alkali soils; fourth progress report, 1923, by G. M. Williams and I. Furlong
Jan. 20, 1926. 49 pages. 20¢.
- T308 Cement-lime mortars, by H. V. Johnson
Jan. 29, 1926. 34 pages. 15¢.
- T321 A study of sieve specifications, by L. V. Judson
Aug. 5, 1926. 8 pages. 5¢.
- RP34 Reaction of water on calcium aluminates, by Lansing S. Wells. 25¢.
(Reprint from B. S. Journal of Research, December, 1928; vol. 1, No. 6, p. 951-1009.)
- RP132 Influence of magnesia, ferric oxide, and soda upon the temperature of liquid formation in certain Portland cement mixtures, by W. C. Hansen. 10¢.
(Reprint from B. S. Journal of Research, January, 1930; vol. 4, No. 1, p. 55-72.)
- RP233 The X-ray method applied to a study of the constitution of Portland cement, by L. T. Brownmiller and R. H. Bogue. 5¢.
(Reprint from B. S. Journal of Research, October, 1930; vol. 5, No. 4, p. 813-830.)
- C33 U. S. Gov't master specification for Portland cement
April 25, 1927. 4th ed. 18 pages. 10¢.
- C135 Caustic magnesia cement
Oct. 16, 1922. 14 pages. 5¢.
- C311 Stucco investigations at the Bureau of Standards with recommendations for Portland cement stucco construction
Dec. 13, 1926. 34 pages. 15¢.
- C321 U. S. Gov't master specification for cement masonry
Feb. 1, 1927. 9 pages. 5¢.
- C323 U. S. Gov't master specification for cement, plastic magnesia (magnesia-oxychloride) used as flooring bases, wainscots, etc.
April 13, 1927. 16 pages. 5¢.

BUILDING MATERIALS--Cement--Continued

- C360 U. S. Gov't master specification for integral waterproofing material (for use with Portland cement mortar or concrete)
June 5, 1928. 4 pages. 5¢.
- LC58 Specifications for 3-inch sieves
March 29, 1922. mimeographed.
- LC72 Sieve testing apparatus
July 26, 1922. mimeographed.
- LC74 Standard specifications for sieves
April 15, 1925.
- LC141 Inspection of Portland cement
October, 1924. 15 pages. mimeographed.
- LC142 Principal requirements of the Portland cement specifications of various countries
August 17, 1921. 1 sheet. lithographed.
- LC155 List of publications by the Bureau of Standards on cement, concrete, reinforced concrete, stucco, magnesite, building stone, and related subjects
1930. 8 pages. mimeographed.
- LC156 Publications by members of the Bureau of Standards staff on cement, concrete, reinforced concrete, masonry, and related subjects
Feb. 15, 1930. 14 pages. mimeographed.

Clays

- T1 Effect of preliminary heat treatment upon the drying of clays, by A. V. Bleininger
Dec. 6, 1910. 53 pages. (out of print)
- T17 The function of time in the vitrification of clays, by G. H. Brown and G. A. Murray
May 20, 1913. 26 pages. (out of print)
- T21 The dehydration of clays, by G. H. Brown and E. T. Montgomery
April 25, 1913. 23 pages. (out of print)
- T22 The effect of overfiring upon the structure of clays, by A. V. Bleininger and E. T. Montgomery
April 6, 1913. 23 pages. (out of print)

BUILDING MATERIALS--Clays--Continued

RP36 Studies of machines for extruding clay columns.
Augers, spacer, and dies for brick machines,
by Paul C. Grunwell. 15¢.
(Reprint from B. S. Journal of Research, December, 1928;
vol. 1, No. 6, p. 1023-1057.)

RP37 Fire resistance of hollow load-bearing wall
tile, by S. H. Ingberg and H. D. Foster. 75¢.
(Reprint from B. S. Journal of Research, January 1929;
vol. 2, No. 1, p. 1-334.)

Columns (See also Bridge members, and beams)

T122 Tests of eighteen concrete columns reinforced with
cast iron, by John Tucker, Jr., and J. G. Bragg
Nov. 14, 1919. 38 pages. (out of print)

T184 Fire tests of building columns, by S. H. Ingberg,
H. K. Griffin, W. C. Robinson, and R. E. Wilson
April 21, 1921. 375 pages. 75¢.

T263 Tangent modulus and the strength of steel columns
in tests, by O. H. Basquin
Sept. 18, 1924. 62 pages. 20¢.

T272 Fire resistance of concrete columns, by W. A. Hull
and S. H. Ingberg
Feb. 24, 1925. 74 pages. 25¢.

T327 Compressive strength of column web plates and wide
web columns, by Robert S. Johnston
Oct. 2, 1926. 49 pages. 20¢.

T328 Tests of large columns with H-shaped sections,
by L. B. Tuckerman and A. H. Stang
Oct. 20, 1926. 88 pages. 40¢.

RP157 Transverse tests of H-section column splices, by
James H. Edwards, H. L. Whittemore, and A. H. Stang.
10¢.
(Reprint from B. S. Journal of Research, March, 1930;
vol. 4, No. 3, p. 395-413.)

RP218 Compressive tests on bases for subway columns, by
James H. Edwards, H. L. Whittemore and A. H. Stang. ¢.
(Reprint from B. S. Journal of Research, September,
1930; vol. 5, No. 3, p. 619-626.)

BUILDING MATERIALS--Columns--Continued

RP230 Strength of welded shelf-angle connections,
by James H. Edwards, H. L. Whittmore, and
A. H. Stang. 4¢.
(Reprint from B. S. Journal of Research, October,
1930; vol. 5, No. 4, p. 781-792.)

BH9 Recommended building code requirements for
working stresses in building materials
June 1, 1926. 53 pages. 10¢.

Concrete (See also Cement)

T2 The strength of reinforced concrete beams--
results of tests of 333 beams (first series),
by Richard L. Humphray and Louis H. Losse
June 27, 1911. 200 pages. (out of print)

T3 Tests of the absorptive and permeable properties
of Portland cement mortars and concretes, together
with tests of damp-proofing and waterproofing
compounds and materials, by Rudolph J. Wig and
P. H. Bates.
Aug. 22, 1911. 127 pages. (out of print)

T5 The effect of high-pressure steam on the crushing
strength of Portland cement mortar and concrete,
by Rudolph J. Wig
Sept. 5, 1911. 25 pages. (out of print)

T58 Strength and other properties of concretes as
affected by materials and methods of preparation,
by R. J. Wig, G. M. Williams, and E. R. Gates
June 20, 1916. 172 pages. (out of print)

T95 Durability of cement drain tile and concrete
in alkali soils, by R. J. Wig, G. M. Williams, and
A. N. Finn, with S. H. McCrory, E. C. Bebb, and
L. R. Furguson
Nov. 15, 1917. 94 pages. 50¢.

T122 Tests of eighteen concrete columns reinforced
with cast iron, by John Tucker, Jr., and
J. G. Bragg
Nov. 14, 1919. 38 pages. (out of print)

T173 Tests of bond resistance between concrete and
steel, by W. A. Slater, F. E. Richart, and
G. G. Scofield.
Nov. 1, 1920. 66 pages. 25¢.

BUILDING MATERIALS--Concrete--Continued

- T175 Pouring and pressure tests of concrete by
W. A. Slater, and A. T. Goldbeck
Oct. 11, 1920. 13 pages. 5¢.
- T182 Effect of repeated reversals of stress on
double-reinforced concrete beams, by
W. A. Slater, G. A. Smith, and H. P. Mueller
Dec. 20, 1920. 51 pages. 15¢.
- T214 Durability of cement drain tile and concrete
in alkali soils: Third progress report (1919-20),
by G. M. Williams
May 19, 1922. 32 pages. 10¢.
- T220 Test of a hollow tile and concrete floor slab
reinforced in two directions, by W. A. Slater,
A. Hagener, and G. P. Anthes
Nov. 15, 1922. 67 pages. 25¢.
- T233 Tests of heavily reinforced concrete slab
beams: Effect of direction of reinforcement
on strength and deformation, by W. A. Slater
and F. B. Seely
March 20, 1923. 48 pages. 15¢.
- T236 Loading test of a hollow tile and reinforced
concrete floor of Arlington Building, Washington,
D.C., by L. J. Larson and S. N. Petrenko.
April 21, 1923. 41 pages. 15¢.
- T272 Fire resistance of concrete columns, by W. A. Hull
and S. H. Ingberg
Feb. 24, 1925. 74 pages. 25¢.
- T291 Tests of hollow tile and concrete slabs reinforced
in one direction, by D. E. Parsons and A. H. Stang
Aug. 12, 1925. 50 pages. 25¢.
- T307 Durability of cement drain tile and concrete in
alkali soils: fourth progress report, 1923,
by G. M. Williams and I. Furlong
Jan. 20, 1926. 49 pages. 20¢.
- T314 Shear tests of reinforced concrete beams,
by W. A. Slater, A. R. Lord, and R. R. Zipprodt
April 13, 1926. 108 pages. 50¢.

BUILDING MATERIALS--Concrete--Continued

- RP9 Tests of the effect of brackets in reinforced concrete rigid frames, by Frank E. Richart. 25¢.
(Reprint from B. S. Journal of Research, August, 1928; vol. 1, No. 2, p. 189-253.)
- RP181 Test of composite beams and slabs of hollow tile and concrete, by D. E. Parsons and A. H. Stang. 15¢.
(Reprint from B. S. Journal of Research, June, 1930; vol. 4, No. 6, p. 815-849.)
- C304 Properties and manufacture of concrete building units.
June 11, 1926. 49 pages. 20¢.
- C360 U. S. Gov't master specification for integral waterproofing material (for use with Portland cement mortar or concrete)
June 5, 1928. 4 pages. 5¢.
- BH1 Recommended minimum requirements for small dwelling construction
July 20, 1922. 108 pages. 15¢.
- BH6 Recommended minimum requirements for masonry wall construction
June 26, 1924. 57 pages. 15¢.
- BH9 Recommended building code requirements for working stresses in building materials
June 1, 1926. 53 pages. 10¢.
- SPR26 Steel reinforcing bars
5¢.
- SPR32 Concrete building units (blocks, tile, and bricks)
5¢.
- SPR53 Steel spiral rods (for concrete reinforcement)
5¢.
- SPR87 Sizes of removable and permanent forms, pans, or domes made of wood, steel, or other material used in concrete ribbed floor construction
5¢.
- LC42 Acid-proof coatings for concrete surfaces
Feb. 12, 1923. rev. ed. 15 pages. mimeographed.

BUILDING MATERIALS--Concrete--Continued

- LC139 Report of service test on concrete floor treatments
Oct. 28, 1920. 10 pages. mimeographed.
- LC140 Blast furnace slag as concrete aggregate
September, 1921. 11 pages. mimeographed.
- LC155 List of publications by the Bureau of Standards
on cement, concrete, reinforced concrete, stucco,
magnesite, building stone, and related subjects
1930. 3 pages. mimeographed.
- LC156 Publications by members of the Bureau of Standards
staff on cement, concrete, reinforced concrete,
masonry, and related subjects
Feb. 15, 1930. 14 pages. mimeographed.
- LC229 Fire resistance of brick walls. Walls made of
concrete or sand-lime bricks
June 8, 1927. 4 pages. mimeographed.

Enameled Metal Ware

- T142 Materials and methods used in the manufacture of
enameled cast-iron wares, by Homer F. Staley
Dec. 20, 1919. 158 pages. 20¢.
- T165 Enamels for sheet iron and steel, by J. B. Shaw
July 22, 1920. 88 pages. 15¢.
- T246 Wet-process enamels for cast iron, by R. R. Danielson
and H. P. Reinecker
Dec. 19, 1923. 41 pages. 10¢.
- T356 Controlling the consistency of enamel slips,
by W. N. Harrison
Sept. 30, 1927. 34 pages. 15¢.
- RP179 Blistering phenomena in the enameling of cast
iron, by A. I. Krynsky and W. N. Harrison. 30¢.
(Reprint from B. S. Journal of Research, June,
1930; vol. 4, No. 6, p. 757-807.)

BUILDING MATERIALS--Continued

Fire Clay and Fire-Clay Brick

- T7 The testing of clay refractories, with special reference to their load carrying ability at furnace temperatures, by A. V. Bleininger and G. H. Brown
Dec. 15, 1911. 78 pages. (out of print)
- T10 The melting points of fire brick,
by C. W. Kanolt
June 15, 1912. 17 pages. (out of print)
- T79 Properties of some European plastic fire clays
by A. V. Bleininger and H. G. Schurecht
Aug. 24, 1916. 34 pages. 10¢.
- T116 Silica refractories--Factors affecting their quality and methods of testing the raw materials and finished ware, by Donald W. Ross
April 19, 1919. 84 pages. 20¢.
- T159 Porosity and volume changes of clay fire bricks at furnace temperatures,
by George A. Loomis
April 26, 1920. 29 pages. 5¢.
- T279 Testing of fire-clay brick with special reference to their use in coal-fired boiler settings,
by R. F. Geller
Feb. 13, 1925. 43 pages. 20¢.
- RP114 Progress report on investigation of fire-clay bricks and the clays used in their preparation,
by R. A. Heindl and W. L. Pendergast. 15¢.
(Reprint from B. S. Journal of Research, November, 1929; vol. 3, No. 5, p. 691-729.)
- RP194 Fire clays: Some fundamental properties at several temperatures, by R. A. Heindl and W. L. Pendergast. 10¢.
(Reprint from B. S. Journal of Research, August, 1930; vol. 5, No. 2, p. 213-236.)
- C282 Fire-clay brick: Their manufacture, properties, uses, and specifications.
Feb. 20, 1926. 50 pages. 25¢.

BUILDING MATERIALS--Fire clay and fire-clay brick--Continued

- 0297 U. S. Gov't master specification for refractories, fire clay, plastic
Oct. 20, 1926. 2d ed. 5 pages. 5¢.
- 0298 U. S. Gov't master specification for clay, fire
Oct. 20, 1926. 2d ed. 6 pages. 5¢.
- 0299 U. S. Gov't master specification for brick, fire-clay
Oct. 20, 1926. 2d ed. 7 pages. 5¢.

Fire Tests and Fire Prevention

- T56 Protection of life and property against lightning, by C. S. Peters
Dec. 15, 1915. 127 pages. 35¢.
- T130 A comparison of the heat-insulating properties of some of the materials used in fire-resistive construction, by Walter A. Hull
Nov. 12, 1919. 40 pages. 10¢.
- T184 Fire tests of building columns, by S. H. Ingberg, H. K. Griffin, W. C. Robinson, and R. E. Wilson
April 21, 1921. 375 pages. 75¢.
- T272 Fire resistance of concrete columns, by W. A. Hull and S. H. Ingberg
Feb. 24, 1925. 74 pages. 25¢.
- RP37 Fire resistance of hollow load-bearing wall tile, by S. H. Ingberg and H. D. Foster. 75¢.
(Reprint from B. S. Journal of Research, January, 1929; vol. 2, No. 1, p. 1-334.)
- 050 National standard hose couplings and fittings for public fire service.
June 8, 1917. 2d ed. 34 pages. (out of print)
- 075 Safety for the household
Jan. 10, 1918. 127 pages. 40¢.
- 0134 U. S. Gov't specification for fire-extinguishing liquid (carbon tetrachloride base)
June 30, 1924. 2d ed. 6 pages. 5¢.

BUILDING MATERIALS--Fire tests and fire prevention--Continued

- BH14 Recommended minimum requirements for fire resistance
in buildings
1930 (in preparation)
- SPR83 Kalamein single-acting swing doors, frames, and
trim
5¢.
- M92 Code for protection against lightning
April 8, 1929. 114 pages. 25¢.
- M95 Protection of electrical circuits and equipment
against lightning
Sept. 12, 1929. 107 pages. 25¢.
- LC70 The safety of portable motion picture projectors
July 3, 1922. 6 pages. mimeographed.
- LC71 Tentative classification of building construction
with reference to fire resistance
1922. 6 pages. mimeographed.
- LC137 Safety of theatre proscenium curtains
Dec. 15, 1924. mimeographed.
- LC165 Publications by the Fire Resistance Section
Jan. 20, 1930. 7 pages. mimeographed.
- LC213 Testing clay hollow tile
Nov. 13, 1926. 3 pages. mimeographed.
- LC228 Fire resistance of brick walls. Bricks made
of clay and shale
June 8, 1927. 5 pages. mimeographed.
- LC229 Fire resistance of brick walls. Walls made
of concrete or sand-line bricks
June 8, 1927. 4 pages. mimeographed.
- * Safe construction of built-in garages explained
by Commerce Department.
3 pages. mimeographed.

BUILDING MATERIALS--Continued

Floors

- T220 Test of a hollow tile and concrete floor slab reinforced in two directions, by W. A. Slater, A. Hagener, and G. P. Anthes
Nov. 15, 1922. 67 pages. 25¢.
- T236 Loading test of a hollow tile and reinforced concrete floor of Arlington Building, Washington, D. C., by L. J. Larson and S. N. Petrenko
April 21, 1923. 41 pages. 15¢.
- RP204 A method of measuring frictional coefficients of walk-way materials, by R. B. Hunter. 10¢.
(Reprint from B. S. Journal of Research, August, 1930; vol. 5, No. 2, p. 329-347.)
- RP230 Strength of welded shelf-angle connections, by James H. Edwards, H. L. Whittemore, and A. H. Stang. ¢.
(Reprint from B. S. Journal of Research, October, 1930; vol. 5, No. 4, p. 781-792.)
- C370 Scouring powder for floors
Aug. 28, 1928. 6 pages. 5¢.
- BH1 Recommended minimum requirements for small dwelling construction
July 20, 1922. 108 pages. 15¢.
- BH7 Minimum live loads allowable for use in design of buildings
Nov. 1, 1924. 38 pages. 10¢.
- SPR49 Sidewalk, floor, and roof lights.
5¢.
- SPR87 Sizes of removable and permanent forms, pans, or domes made of wood, steel, or other material used in concrete ribbed floor construction
5¢.
- LC42 Acid-proof coatings for concrete surfaces
Feb. 12, 1923. rev. ed. 15 pages. mimeographed.
- LC139 Report of service test on concrete floor treatments
Oct. 28, 1920. 10 pages. mimeographed.
- LC270 Rubber floor tile
Oct. 10, 1929. 5 pages. mimeographed.

BUILDING MATERIALS--Continued

Glass

- RP113 Data on ultra-violet solar radiation and the solar-ization of window materials, by W. W. Coblenz and R. Stair. 15¢.
(Reprint from B. S. Journal of Research, November, 1929; vol. 3, No. 5, p. 629-689.)
- C118 Recommended specification for limestone, quicklime, and hydrated lime for use in the manufacture of glass
Dec. 8, 1921. 7 pages. 5¢.
- C164 U. S. Gov't master specification for flat glass for glazing purposes
June 4, 1924. 12 pages. 5¢.

Gypsum

- C108 Gypsum--Properties, definitions, and uses
Jan. 3, 1921. 21 pages. 5¢.
- C205 U. S. Gov't master specification for gypsum plaster
March 7, 1925. 5 pages. 5¢.
- C206 U. S. Gov't master specification for calcined gypsum
April 16, 1925. 6 pages. 5¢.
- C210 U. S. Gov't master specification for gypsum plaster board
May 2, 1925. 3 pages. 5¢.
- C211 U. S. Gov't master specification for gypsum wall board
April 30, 1925. 3 pages. 5¢.
- C281 The technology of the manufacture of gypsum products
Jan. 22, 1926. 81 pages. 30¢.
- LC145 List of publications on gypsum
March 15, 1928. 3 pages. mimeographed.
- LC168 Addresses of sources of publications issued by the lime, gypsum, and sand-lime brick section
Jan. 1, 1929. 2 pages. mimeographed.

BUILDING MATERIALS--Gypsum--Continued

LC169 Miscellaneous publications of lime, gypsum, and sand lime brick section
June 19, 1925. 2 pages. mimeographed.

Hollow Building Tile

- T120 Tests of hollow building tiles,
by B. D. Hathcock and E. Skillman
Feb. 8, 1919. 29 pages. 5¢.
- T220 Test of a hollow tile and concrete floor
slab reinforced in two directions, by W. A. Slater,
A. Hagener, and G. P. Anthes
Nov. 15, 1922. 67 pages. 25¢.
- T236 Loading test of a hollow tile and reinforced
concrete floor of Arlington Building, Washington, D. C.,
by L. J. Larson and S. N. Petrenko
April 21, 1923. 41 pages. 15¢.
- T238 Some compressive tests of hollow-tile walls,
by H. L. Whittemore and B. D. Hathcock
July 21, 1923. 15 pages. 5¢.
- T291 Tests of hollow tile and concrete slabs reinforced
in one direction, by D. E. Parsons and A. H. Stang
Aug. 12, 1925. 50 pages. 25¢.
- T311 Compressive and transverse strength of hollow tile
walls, by A. H. Stang, D. E. Parsons, and H. D. Foster
Feb. 25, 1926. 37 pages. 15¢.
- T366 Strength of interlocking-rib tile walls,
by A. H. Stang, D. E. Parsons, and A. B. McDaniel
Feb. 7, 1928. 20 pages. 10¢.
- RP37 Fire resistance of hollow load-bearing wall tile,
by S. H. Ingberg and H. D. Foster. 75¢.
(Reprint from B. S. Journal of Research, January, 1929;
vol. 2, No. 1, p. 1-334.)
- RP181 Test of composite beams and slabs of hollow tile
and concrete, by D. E. Parsons and A. H. Stang. 15¢.
(Reprint from B. S. Journal of Research, June,
1930; vol. 4, No. 6, p. 815-849.)

BUILDING MATERIALS--Hollow building tile--Continued

- C342 U. S. Gov't master specification for hollow, clay, load-bearing wall tile
Aug. 10, 1927. 5 pages. 5¢.
- C343 U. S. Gov't master specification for tile, hollow, clay, fireproofing, partition, and furring
Aug. 10, 1927. 4 pages. 5¢.
- C344 U. S. Gov't master specification for hollow, clay, floor tile
Aug. 10, 1927. 5 pages. 5¢.
- BH1 Recommended minimum requirements for small dwelling construction
July 20, 1922. 108 pages. 15¢.
- BH6 Recommended minimum requirements for masonry wall construction
June 26, 1924. 57 pages. 15¢.
- SPR12 Hollow building tile
5¢.
- LC213 Testing clay hollow tile
Nov. 13, 1926. 3 pages. mimeographed.

Insulation

- T130 A comparison of the heat-insulating properties of some of the materials used in fire-resistive construction, by Walter A. Hull
Nov. 12, 1919. 40 pages. 10¢.
- RP207 Heat transfer through metal-enclosed insulation, by M. S. Van Dusen. 5¢.
(Reprint from B. S. Journal of Research, August, 1930; vol. 5, No. 2, p. 385-397.)
- C376 Thermal insulation of buildings
Oct. 17, 1929. 11 pages. 5¢.
- SPR19 Asbestos paper and asbestos millboard
5¢.
- M108 Manufacture and properties of a cellulose product (maisolith) from cornstalks and corncobs, by C. E. Hartford
March 20, 1930. 10 pages. 5¢.

BUILDING MATERIALS--Continued

Lime (See also mortar, and plaster)

- T308 Cement-lime mortars, by H. V. Johnson
Jan. 29, 1926. 34 pages. 15¢.
- C30 Lime: its properties and uses
July 6, 1920. 2d ed. 25 pages. 5¢.
- C106 Lime--definitions and specifications
Nov. 24, 1920. 15 pages. 5¢.
- C118 Recommended specification for limestone,
quicklime, and hydrated lime for use in the
manufacture of glass
Dec. 8, 1921. 7 pages. 5¢.
- C150 Recommended specification for quicklime and
hydrated lime for use in the manufacture of
sand-lime brick
Dec. 28, 1923. 6 pages. 5¢.
- C153 Recommended specification for quicklime and
hydrated lime for the manufacture of silica
brick
Dec. 27, 1923. 7 pages. 5¢.
- C204 U. S. Gov't master specification for hydrated
lime for structural purposes
March 23, 1925. 7 pages. 5¢.
- C337 Manufacture of lime
Sept. 28, 1927. 104 pages. 45¢.
(Supersedes T16, of same title)
- LC144 List of publications on lime
March 15, 1928. 4 pages. mimeographed.
- LC168 Addresses of sources of publications issued by
the lime, gypsum, and sand-lime brick section
Jan. 1, 1929. 2 pages. mimeographed.
- LC169 Miscellaneous publications of lime, gypsum,
and sand lime brick section
June 19, 1925. 2 pages. mimeographed.

BUILDING MATERIALS--Continued.

Metals-Miscellaneous (See also Steel)

- T90 Structure of the coating on tinned sheet copper in a specific case of corrosion, by Paul D. Merica April 21, 1917. 18 pages. (out of print)
- T97 Some unusual features in the microstructure of wrought iron, by Henry S. Rawdon Sept. 20, 1917. 25 pages. 5¢.
- T132 Mechanical properties and resistance to corrosion of rolled light alloys of aluminum and magnesium with copper, with nickel, and with manganese, by P. D. Merica, R. G. Waltenberg, and A. N. Finn Oct. 25, 1919. 11 pages. 5¢.
- T135 Behavior of wrought manganese bronze exposed to corrosion while under tensile stress, by P. D. Merica and R. W. Woodward Oct. 6, 1919. 9 pages. 5¢.
- T257 Development of a method for measurement of internal stress in brass tubing, by R. J. Anderson and E. G. Fahlman May 23, 1924. 13 pages. 5¢.
- T367 Effect of the testing method on the determination of corrosion resistance, by H. S. Rawdon and E. C. Groesbeck March 6, 1928. 38 pages. 20¢.
- RP72 The spotting of plated or finished metals, by W. P. Barrows. 10¢.
(Reprint from B. S. Journal of Research, June, 1929; vol. 2, No. 6, p. 1085-1116.)
- RP123 Corrosion of open-valley flashings, by K. Hilding Beij. 10¢.
(Reprint from B. S. Journal of Research, December, 1929; vol. 3, No. 6, p. 937-952.)
- RP124 Comparative properties of wrought iron made by hand puddling by Aston process, by Henry S. Rawdon and O. A. Knight. 30¢.
(Reprint from B. S. Journal of Research, December, 1929; vol. 3, No. 6, p. 953-992.)

BUILDING MATERIALS--Metals, Miscellaneous--Continued

- RP216 Seams for copper roofing, by K. Hilding Beij. ¢
(Reprint from B. S. Journal of Research, September,
1930; vol. 5, No. 3, p. 585-608.)
- C73 Copper
Nov. 14, 1922. 2d ed. 108 pages. 20¢.
- C100 Nickel
May 9, 1924. 2d ed. 162 pages. 40¢.
- C101 Physical properties of materials: I. Strengths
and related properties of metals and certain
other engineering materials.
April 23, 1924. 2d ed. 204 pages. 40¢.
- C113 The structure and related properties of metals
July 7, 1922. 2d ed. 104 pages. 25¢.
- BH9 Recommended building code requirements for working
stresses in building materials
June 1, 1926. 53 pages. 10¢.
- SPR30 Roofing ternes
5¢.
- USGMS Metal bases for plaster and stucco construction
553 March 23, 1929. 5 pages. 5¢.
- LC172 The protective value of nickel plating on
iron and steel
July 24, 1925. mimeographed.
- LC191 Testing laboratories equipped for mechanical
tests of metals and other engineering materials
Jan. 1, 1926. mimeographed.
- LC230 Glycerine or ethylene-glycol in foundry sand
mold facing mixtures
May 3, 1927. mimeographed.
- LC253 Corrosion resistance of bare and zinc-coated iron
and steel
Sept. 13, 1928. 22 pages. mimeographed.
- LC257 Sources of information on the properties of
metals and alloys (Books)
Feb. 6, 1929. 30 pages. mimeographed.

BUILDING MATERIALS--Metals, Miscellaneous--Continued

- LC268 Nomenclature of the alloys, "brass," "bronze,"
and so-called "Government bronze"
June 24, 1929. 8 pages. mimeographed.

Mortar (See also Plaster and Brick)

- T3 Tests of the absorptive and permeable properties
of Portland cement mortars and concretes, together
with tests of damp-proofing and waterproofing
compounds and materials, by Rudolph J. Wig and
P. H. Bates
Aug. 22, 1911. 127 pages. (out of print)
- T169 Measurement of plasticity of mortars and
plasters, by W. E. Emley
June 28, 1920. 27 pages. 10¢.
- T308 Cement-lime mortars, by H. V. Johnson
Jan. 29, 1926. 34 pages. 15¢.
- T366 Strength of interlocking-rib tile walls,
by A. H. Stang, D. E. Parsons, and A. B. McDaniel
Feb. 7, 1928. 20 pages. 10¢.
- RP37 Fire resistance of hollow load-bearing wall tile,
by S. H. Ingberg and H. D. Foster. 75¢.
(Reprint from B. S. Journal of Research, January, 1929;
vol. 2, No. 1, p. 1-334)
- C360 U. S. Gov't master specification for integral
waterproofing material (for use with Portland
cement mortar or concrete)
June 5, 1928. 4 pages. 5¢.
- BH6 Recommended minimum requirements for masonry
wall construction
June 26, 1924. 57 pages. 15¢.

Paint Materials (See also Rust - preventive materials)

- T9 The density and thermal expansion of linseed
oil and turpentine, by H. W. Bearce
April 15, 1912. 27 pages. (out of print)
- T37 Iodine number of linseed and petroleum oils,
by W. H. Smith and J. B. Tuttle
April 28, 1914. 17 pages. (cut of print)

BUILDING MATERIALS--Paint materials--Continued

- T65 Determination of oil and resin in varnish,
by E. W. Boughton
Feb. 19, 1916. 32 pages. (out of print)
- T66 Detection of resin in drier, by E. W. Boughton
Jan. 15, 1916. 9 pages. (out of print)
- T71 Effect of certain pigments on linseed oil,
by E. W. Boughton
April 13, 1916. 16 pages. (out of print)
- T76 Determination of volatile thinner in oil varnish,
by E. W. Boughton
June 21, 1916. 6 pages. (out of print)
- T176 Slushing oils, by P. H. Walker and L. L. Steele
Oct. 14, 1920. 23 pages. 5¢.
- T232 Shellac, by P. H. Walker and L. L. Steele
March 12, 1923. 20 pages. 5¢.
- T254 Emissive tests of paints for decreasing or
increasing heat radiation from surfaces,
by W. W. Coblentz and C. W. Hughes
March 13, 1924. 17 pages. 5¢.
- T274 Use of U. S. Gov't specification paint and
paint materials, by P. H. Walker and E. F. Hickson
Dec. 15, 1924. 20 pages. 10¢.
- T306 A photometric method for measuring the
hiding power of paints, by H. D. Bruce
Jan. 16, 1926. 18 pages. 10¢.
- RP1 Accelerated tests of organic protective coatings,
by Percy H. Walker and E. F. Hickson. 5¢.
(Reprint from B. S. Journal of Research, July, 1928;
vol. 1, No. 1, p. 1-17.)
- RP7 Tinting strength of pigments,
by H. D. Bruce. 5¢.
(Reprint from B. S. Journal of Research, August,
1928; vol. 1, No. 2, p. 125-150.)
- RP142 The ring and ball method of test for softening
point of bituminous materials, resins, and similar
substances, by P. H. Walker. 5¢.
(Reprint from B. S. Journal of Research, February,
1930; vol. 4, No. 2, p. 195-201.)

BUILDING MATERIALS--Paint materials--Continued

- RP146 Durability tests of spar varnish,
by C. L. Came. 5¢.
(Reprint from B. S. Journal of Research, February,
1930; vol. 4, No. 2, p. 247-259.)
- C69 Paint and varnish
Nov. 17, 1917. 85 pages. 15¢.
- C84 Recommended specifications for basic carbonate
white lead, dry and paste
July 3, 1922. 2d ed. 8 pages. 5¢.
- C85 Recommended specification for basic sulphate
white lead, dry and paste
July 3, 1922. 2d ed. 9 pages. 5¢.
- C86 U. S. Gov't master specification for turpentine
(gum spirits of turpentine and steam-distilled
wood turpentine)
Oct. 11, 1926. 3d ed. 10 pages. 5¢.
- C87 Recommended specifications for zinc oxide, dry
and paste
July 3, 1922. 2d ed. 8 pages. 5¢.
- C88 Recommended specifications for leaded zinc oxide,
dry and paste
July 3, 1922. 2d ed. 8 pages. 5¢.
- C89 U. S. Gov't master specification for paint,
white, and tinted paints made on a white base,
semi-paste and ready mixed
April 25, 1927. 3d ed. 11 pages. 5¢.
- C90 Recommended specifications for red lead, dry
and paste
May 23, 1922. 2d ed. 8 pages. 5¢.
- C91 Recommended specification for ocher, dry and
paste
June 21, 1922. 2d ed. 8 pages. 5¢.
- C93 U. S. Gov't master specification for iron
hydroxide and iron oxide paints
April 29, 1927. 3d ed. 10 pages. 5¢.

BUILDING MATERIALS--Paint materials--Continued

- C94 U. S. Gov't master specification for black, semi-paste and ready-mixed paints
April 29, 1927. 3d ed. 9 pages. 5¢.
- C97 Recommended specifications for green paint, semi-paste and ready mixed
July 3, 1922. 3d ed. 10 pages. 5¢.
- C98 Recommended specifications for volatile mineral spirits for thinning paints
Feb. 28, 1923. 2d ed. 10 pages. 5¢.
- C102 Recommended specification for composite thinner for thinning semi-paste paints when the use of straight linseed oil is not justified
Sept. 22, 1922. 2d ed. 5 pages. 5¢.
- C103 U. S. Gov't master specification for varnish, spar, water-resisting
Oct. 5, 1926. 4th ed. 6 pages. 5¢.
- C104 Recommended specification for asphalt varnish
Jan. 30, 1923. 2d ed. 7 pages. 5¢.
- C105 Recommended specification for liquid paint drier
Sept. 18, 1922. 2d ed. 4 pages. 5¢.
- C111 Recommended specification for flat interior lithopone paint, white and light tints
Feb. 3, 1928. 3d ed. 12 pages. 5¢.
- C117 Recommended specification for interior varnish
July 3, 1922. 2d ed. 6 pages. 5¢.
- C146 U. S. Gov't specification for water resisting red enamel
Sept. 25, 1923. 6 pages. 5¢.
- C147 U. S. Gov't specification for gloss interior lithopone paint. White and light tints
Sept. 19, 1923. 8 pages. 5¢.
- C163 U. S. Gov't specification for titanium pigment, dry and paste
Feb. 20, 1924. 11 pages. 5¢.

BUILDING MATERIALS--Paint materials--Continued

- C165 U. S. Gov't master specification for olive drab (semi-paste and ready-mixed) paints
April 29, 1927. 2d ed. 12 pages. 5¢.
- C215 U. S. Gov't master specification for outside white titanium-zinc paint, semi-paste and ready-mixed
May 9, 1925. 12 pages. 5¢.
- C302 U. S. Gov't master specification for flake orange shellac
Feb. 9, 1926. 6 pages. 5¢.
- C303 U. S. Gov't master specification for shellac varnish
Feb. 9, 1926. 7 pages. 5¢.
- C331 U. S. Gov't master specification for chrome yellow (lemon, medium, and orange; dry, paste in oil, and paste in japan)
April 29, 1927. 11 pages. 5¢.
- C361 U. S. Gov't master specification for oil, linseed, raw
June 23, 1928. 8 pages. 5¢.
- C362 U. S. Gov't master specification for oil, linseed, boiled
June 23, 1928. 8 pages. 5¢.
- L1 Limitation of variety recommendation No. 1--
Paints and varnishes
Sept. 1, 1924. 8 pages. 5¢.
- M15 Some technical methods of testing miscellaneous supplies, including paints and paint materials, inks, lubricating oils, soaps, etc.
Nov. 15, 1916. 68 pages. 15¢.
- LC59 List of publications on paints, varnish, etc.
Dec. 17, 1928. rev. ed. 5 pages. mimeographed.
- LC64 Shingle stains
May 9, 1922. 3 pages. mimeographed.
- LC107 Emissivity of paints for radiators, canopies, etc.
Dec. 6, 1923. mimeographed.
- LC263 Painting steam and hot water radiators
April 1, 1929. 4 pages. mimeographed.

BUILDING MATERIALS--Continued

Pipe and Pipe Fittings (See also Plumbing)

- T258 Strength of steel tubing under combined column and transverse loading, including tests of columns and beams, by Tom W. Greene
May 23, 1924. 34 pages. 15¢.
- T285 Release of internal stress in brass tubing, by R. J. Anderson and E. G. Fahlman
May 14, 1925. 31 pages. 15¢.
- T336 Comparative tests of six-inch cast-iron pipes of American and French manufacture, by S. N. Petrenko
March 1, 1927. 24 pages. 15¢.
- SPR29 Eaves trough and conductor pipe
5¢.
- SPR57 Wrought-iron and wrought-steel pipe valves and fittings
5¢.
- CS5 Steel pipe nipples
10¢.
- CS6 Wrought-iron pipe nipples
10¢.
- CS7 Standard weight malleable iron or steel screwed unions
5¢.
- CS10 Brass pipe nipples
5¢.

Plaster (See also Mortar)

- T70 Durability of stucco and plaster construction, by R. J. Wig, J. C. Pearson, and W. E. Emley
Jan. 31, 1917. 74 pages. 15¢.
- T169 Measurement of plasticity of mortars and plasters, by W. E. Emley
June 28, 1920. 27 pages. 10¢.
- T181 Colored wall plaster, by W. E. Emley and C. F. Faxon
Dec. 15, 1920. 8 pages. 5¢.

BUILDING MATERIALS--Plaster--Continued

RP37 Fire resistance of hollow load-bearing wall tile,
by S. H. Ingberg and H. D. Foster. 75¢.
(Reprint from B. S. Journal of Research, January, 1929;
vol. 2, No. 1, p. 1-334.)

C151 Wall plaster: Its ingredients, preparation,
and properties
Jan. 9, 1924. 66 pages. 15¢.

C205 U. S. Gov't master specification for gypsum
plaster
March 7, 1925. 5 pages. 5¢.

BH1 Recommended minimum requirements for small dwelling
construction
July 20, 1922. 108 pages. 15¢.

USGMS Metal bases for plaster and stucco construction
553 March 23, 1929. 5 pages. 5¢.

Plumbing (See also Pipe and Pipe Fittings)

T243 Stresses in a few welded and riveted tanks tested
under hydrostatic pressure, by A. H. Stang and
T. W. Greene
Oct. 13, 1923. 24 pages. 10¢.

RP189 Method of measuring strains between glazes and
ceramic bodies, by H. G. Schurecht and G. R. Pole. 5¢.
(Reprint from B. S. Journal of Research, July,
1930; vol. 5, No. 1, p. 97-104.)

C310 U. S. Gov't master specification for plumbing
fixtures (for land use)
Oct. 9, 1926. 66 pages. 15¢.

BH13 Recommended minimum requirements for plumbing
Aug. 30, 1928. 280 pages. 35¢.
(Supersedes BH2)

CS20 Staple vitreous china plumbing fixtures
10¢.

SPR8 Range boilers and expansion tanks
10¢.

BUILDING MATERIALS--Plumbing--Continued

- SPR13 Structural slates for plumbing and sanitary purposes
10¢.
- SPR21 Brass lavatory and sink traps
5¢.
- SPR25 Hot water storage tanks
5¢.
- SPR101 Metal partitions for toilets and showers
10¢.
- CS4 Staple porcelain (all-clay) plumbing fixtures
10¢.
- LC254 Treatment of water for boiler use.
Mimeographed.

Quicklime

- C118 Recommended specification for limestone, quicklime,
and hydrated lime for use in the manufacture of
glass
Dec. 8, 1921. 7 pages. 5¢.
- C143 Recommended specification for quicklime for use in
causticizing
June 25, 1923. 5 pages. 5¢.
- C150 Recommended specification for quicklime and
hydrated lime for use in the manufacture of
sand-lime brick
Dec. 28, 1923. 6 pages. 5¢.
- C153 Recommended specification for quicklime and
hydrated lime for the manufacture of silica brick
Dec. 27, 1923. 7 pages. 5¢.
- C201 U. S. Gov't master specification for quick-lime
for structural purposes
Feb. 17, 1925. 5 pages. 5¢.

Roofing Materials

- RP67 Experimental production of roofing felts,
by M. B. Shaw, G. W. Bicking, and O. G. Strieter. 5¢.
(Reprint from B. S. Journal of Research, June, 1929;
vol. 2, No. 6, p. 1001-1016.)

BUILDING MATERIALS--Roofing materials--Continued

- RP123 Corrosion of open-valley flashings,
by K. Hilding Beij. 10¢.
(Reprint from B. S. Journal of Research, December,
1929; vol. 3, No. 6, p. 937-952.)
- RP216 Seams for copper roofing, by K. Hilding Beij. 5¢.
(Reprint from B. S. Journal of Research, September,
1930; vol. 5, No. 3, p. 585-608.)
- C156 U. S. Gov't specification for coal-tar saturated
rag felt for roofing and water-proofing
March 1, 1924. 4 pages. 5¢.
- C157 U. S. Gov't master specification for coal-tar
pitch for roofing
April 8, 1924. 10 pages. 5¢.
- C158 U. S. Gov't master specification for surfacing
materials for bituminous built-up roofing
March 25, 1924. 3 pages. 5¢.
- C159 U. S. Gov't master specification for asphalt
for mineral-surfaced roofing
April 8, 1924. 10 pages. 5¢.
- C161 U. S. Gov't specification for asphalt-saturated
rag felt for roofing and waterproofing
March 1, 1924. 5 pages. 5¢.
- C162 U. S. Gov't master specification for asphalt primer
for roofing and waterproofing
April 8, 1924. 7 pages. 5¢.
- C168 U. S. Gov't master specification for asphalt for
unsurfaced built-up roofing
July 7, 1924. 10 pages. 5¢.
- C170 U. S. Gov't master specification for the construction
of built-up roofing, Type 4AWS
July 8, 1924. 3 pages. 5¢.
- C171 U. S. Gov't master specification for the construction
of built-up roofing, Type 5AWS
July 8, 1924. 3 pages. 5¢.
- C172 U. S. Gov't master specification for the construction
of built-up roofing, Type 3ACS
July 8, 1924. 3 pages. 5¢.

BUILDING MATERIALS--Roofing materials--Continued

- C173 U. S. Gov't master specification for the construction of built-up roofing, Type 4ACS
July 8, 1924. 3 pages. 5¢.
- C174 U. S. Gov't master specification for the construction of built-up roofing, Type 5ACS
July 8, 1924. 3 pages. 5¢.
- C175 U. S. Gov't master specification for the construction of built-up roofing, Type 3TCS
July 8, 1924. 3 pages. 5¢.
- C176 U. S. Gov't master specification for the construction of built-up roofing, Type 4TCS
July 8, 1924. 3 pages. 5¢.
- C177 U. S. Gov't master specification for the construction of built-up roofing, Type 5TCS
July 8, 1924. 3 pages. 5¢.
- C178 U. S. Gov't master specification for the construction of built-up roofing, Type 4TWS
July 8, 1924. 3 pages. 5¢.
- C179 U. S. Gov't master specification for the construction of built-up roofing, Type 5TWS
July 8, 1924. 3 pages. 5¢.
- C180 U. S. Gov't master specification for the installation of metal flashings with built-up bituminous roofing
July 8, 1924. 3 pages. 5¢.
- C181 U. S. Gov't master specification for the installation of plastic flashings with built-up bituminous roofing
July 8, 1924. 3 pages. 5¢.
- C192 U. S. Gov't master specification for asphalt prepared roofing
Oct. 9, 1924. 5 pages. 5¢.
- C285 U. S. Gov't master specification for slate-surfaced asphalt prepared roofing and shingles
Nov. 7, 1925. 6 pages. 5¢.
- C286 U. S. Gov't master specification for asphalt-saturated rag felt for flashings
Nov. 17, 1925. 4 pages. 5¢.

BUILDING MATERIALS--Roofing materials--Continued

- BH1 Recommended minimum requirements for small dwelling construction
July 20, 1922. 103 pages. 15¢.
- SPR29 Eaves trough and conductor pipe
5¢.
- SPR30 Roofing ternes
5¢.
- SPR49 Sidewalk, floor, and roof lights
5¢.
- SPR78 Iron and steel roofing
5¢.
- LC212 Publications of the Bituminous Laboratory
Nov. 16, 1928. 4 pages. mimeographed.

Rust-preventive Materials

- C80 Protective metallic coatings for the rustproofing of iron and steel
Sept. 2, 1922. 2d ed. 34 pages. 20¢.
- C200 U. S. Gov't master specification for heavy rust-preventive compound
Feb. 7, 1925. 4 pages. 5¢.

Screws

- T319 Holding power of wood screws, by I. J. Fairchild
July 17, 1926. 28 pages. 15¢.
- C140 U. S. Gov't master specification for screws, wood
Oct. 8, 1927. 2d ed. 3 pages. 5¢.

Slate

- SPR13 Structural slates for plumbing and sanitary purposes
10¢.
- SPR14 Roofing slate
5¢.
- SPR15 Blackboard slate
5¢.

BUILDING MATERIALS--Continued

Sound and Soundproofing

- S506 Theory and interpretation of experiments on the transmission of sound through partition walls, by Edgar Buckingham
May 26, 1925. 27 pages. 10¢.
- S526 Transmission and absorption of sound by some building materials, by E. A. Eckhardt and V. L. Chrisler
April 28, 1926. 29 pages. 15¢.
- S552 Transmission of sound through building materials, by V. L. Chrisler
June 16, 1927. 9 pages. 5¢.
- T333 Transmission of sound through voice tubes, by E. A. Eckhardt, V. L. Chrisler, P. P. Quayle, and M. J. Evans
With a note on the absorption in rigid pipes, by E. Buckingham
Nov. 8, 1926. 31 pages. 15¢.
- T337 Soundproofing of apartment houses, by V. L. Chrisler
March 11, 1927. 6 pages. 5¢.
- RP48 Transmission of sound through wall and floor structures, by V. L. Chrisler and W. F. Snyder. 10¢.
(Reprint from B. S. Journal of Research, March, 1929; vol. 2, No. 3, p. 541-559.)
- RP149 The absorption of sound at oblique angles of incidence, by P. R. Heyl, V. L. Chrisler, and W. F. Snyder.
5¢.
(Reprint from B. S. Journal of Research, February, 1930; vol. 4, No. 2, p. 289-296.)
- RP242 The measurement of sound absorption, by V. L. Chrisler and W. F. Snyder. 5¢.
(Reprint from B. S. Journal of Research, October, 1930; vol. 5, No. 4, p. 957-972.)
- C380 Architectural acoustics
Jan. 4, 1930. 8 pages. 5¢.
- LC205 Sound-proof partitions
July 22, 1926. 2 pages. mimeographed.
- LC278 Sound absorption coefficients.
Issued monthly. mimeographed.

BUILDING MATERIALS---Continued

Specifications, General Information

- M65 National directory of commodity specifications:
Classified and alphabetical lists and brief
descriptions of existing commodity specifi-
cations
Aug. 28, 1925. 385 pages. \$1.25.
- M79 Standards and specifications in the wood-using
industries
Oct. 5, 1927. 349 pages. \$1.50. Cloth.
- M110 Standards and specifications for nonmetallic minerals
and their products.
April, 1930. 680 pages. \$2.75 (cloth)

Steel (See also Beams, Bridge members, Columns, and Pipe)

- T173 Tests of bond resistance between concrete and steel,
by W. A. Slater, F. E. Richart, and G. G. Scofield
Nov. 1, 1920. 65 pages. 25¢.
- T179 Electric-arc welding of steel: I. Properties of
the arc-fused metal, by H. S. Rawdon, E. C. Groesbeck,
and L. Jordan
Nov. 15, 1920. 63 pages. 15¢.
- T205 Tensile properties of some structural alloy steels
at high temperatures, by H. J. French
Dec. 20, 1921. 18 pages. 5¢.
- T207 Manufacture and properties of steel plates
containing zirconium and other elements,
by Geo. K. Burgess and R. W. Woodward
Feb. 1, 1922. 54 pages. 20¢.
- T218 Results of some compression tests of structural
steel angles, by A. H. Stang and L. R. Strickenberg
Aug. 3, 1922. 17 pages. 10¢.
- T219 Effect of temperature, deformation, and rate
of loading on the tensile properties of low-
carbon steel below the thermal critical range,
by H. J. French
Aug. 22, 1922. 47 pages. 10¢.
- T331 High silicon structural steel, by H. W. Gillett
Nov. 1, 1926. 23 pages. 15¢.

BUILDING MATERIALS--Steel--Continued

- T358 Air-hardening rivet steels, by Harry K. Herschman
Oct. 19, 1927. 29 pages. 15¢.
- RP10 Accelerated laboratory corrosion test methods
for zinc-coated steel,
by E. C. Groesbeck and W. A. Tucker. 35¢.
(Reprint from B. S. Journal of Research, August, 1928;
vol. 1, No. 2, p. 255-295.)
- RP15 Strain markings in mild steel under tension,
by Henry S. Rawdon. 15¢.
(Reprint from B. S. Journal of Research, September, 1928;
vol. 1, No. 3, p. 467-485.)
- RP161 Physical properties of electrically welded steel
tubing, by H. L. Whittemore, J. S. Adelson, and
E. O. Seaquist. 20¢.
(Reprint from B. S. Journal of Research, April, 1930;
vol. 4, No. 4, p. 475-500.)
- RP218 Compressive tests of bases for subway columns,
by James H. Edwards, H. L. Whittemore, and
A. H. Stang. ¢.
(Reprint from B. S. Journal of Research, September,
1930; vol. 5, No. 3, p. 619-626.)
- RP230 Strength of welded shelf-angle connections,
by James H. Edwards, H. L. Whittemore, and
A. H. Stang. ¢.
(Reprint from B. S. Journal of Research, October,
1930; vol. 5, No. 4, p. 781-792.)
- RP232 Stress distribution in welded steel pedestals,
by James H. Edwards, H. L. Whittemore, and
A. H. Stang. ¢.
(Reprint from B. S. Journal of Research, October,
1930; vol. 5, No. 4, p. 803-811.)
- C18 Standard gage for sheet and plate iron and steel
July 1, 1911. 2d ed. 4 pages. 5¢.
- C58 Invar and related nickel steels
June 22, 1923. 93 pages. 2d ed. 30¢.
- BH9 Recommended building code requirements for working
stresses in building materials.
June 1, 1926. 53 pages. 10¢.

BUILDING MATERIALS--Steel--Continued

- SPR26 Steel reinforcing bars
5¢.
- SPR28 Sheet steel
10¢.
- SPR53 Steel spiral rods (for concrete reinforcement)
5¢.
- SPR58 Classification of iron and steel scrap
10¢.
- SPR72 Solid section steel windows
20¢.
- SPR78 Iron and steel roofing
5¢.
- LC104 Heat treatment of steel
Oct. 3, 1923. mimeographed.
- LC172 The protective value of nickel plating on iron
and steel
July 24, 1925. mimeographed.
- LC253 Corrosion resistance of bare and zinc-coated iron
and steel
Sept. 13, 1928. mimeographed.

Stone

- T123 Physical and chemical tests of the commercial
marbles of the United States, by Daniel W. Kessler
July 15, 1919. 54 pages. (out of print)
- T248 Exposure tests on colorless waterproofing
materials (used on stone), by D. W. Kessler
Jan. 7, 1924. 33 pages. 15¢.
- T305 Permeability of stone, by D. W. Kessler
Jan. 14, 1926. 17 pages. 10¢.
- T349 Physical properties of the principal commercial
limestones used for building construction
in the United States, by D. W. Kessler and W. H. Sligh
July 23, 1927. 94 pages. 30¢.

BUILDING MATERIALS--Stone--Continued

- T350 A study of problems relating to the maintenance of interior marble, by D. W. Kessler
July 23, 1927. 90 pages. 35¢.
- BH6 Recommended minimum requirements for masonry wall construction
June 26, 1924. 57 pages. 15¢.
- LC155 List of publications by the Bureau of Standards on cement, concrete, reinforced concrete, stucco, magnesite, building stone, and related subjects
1930. 8 pages. mimeographed.
- LC156 Publications by members of the Bureau of Standards staff on cement, concrete, reinforced concrete, masonry, and related subjects
Feb. 15, 1930. 14 pages. mimeographed.

Stucco

- T70 Durability of stucco and plaster construction, by R. J. Wig, J. C. Pearson, and W. E. Emley
Jan. 31, 1917. 74 pages. 15¢.
- C311 Stucco investigations at the Bureau of Standards with recommendations for Portland cement stucco construction
Dec. 13, 1926. 34 pages. 15¢.
- BH1 Recommended minimum requirements for small dwelling construction
July 20, 1922. 108 pages. 15¢.
- USGMS Metal bases for plaster and stucco construction
553 March 23, 1929. 5 pages. 5¢.
- LC155 List of publications by the Bureau of Standards on cement, concrete, reinforced concrete, stucco, magnesite, building stone, and related subjects
1930. 8 pages. mimeographed.
- LC156 Publications by members of the Bureau of Standards staff on cement, concrete, reinforced concrete, masonry, and related subjects
Feb. 15, 1930. 14 pages. mimeographed.

BUILDING MATERIALS--Continued

Wallboard and Plaster Board

- C210 U. S. Gov't master specification for gypsum plaster board
May 2, 1925. 3 pages. 5¢.
- C211 U. S. Gov't master specification for gypsum wall board
April 30, 1925. 3 pages. 5¢.

Waterproofing

- T3 Tests of the absorptive and permeable properties of Portland cement mortars and concretes, together with tests of damp-proofing and waterproofing compounds and materials, by Rudolph J. Wig and P. H. Bates
Aug. 22, 1911. 127 pages. (out of print)
- T248 Exposure tests on colorless waterproofing materials (used on stone), by D. W. Kessler
Jan. 7, 1924. 33 pages. 15¢.
- C155 U. S. Gov't master specification for coal-tar pitch for waterproofing and damp proofing
April 8, 1924. 11 pages. 5¢.
- C156 U. S. Gov't specification for coal-tar saturated rag felt for roofing and waterproofing
March 1, 1924. 4 pages. 5¢.
- C160 U. S. Gov't master specification for asphalt for waterproofing and damp proofing
April 8, 1924. 9 pages. 5¢.
- C161 U. S. Gov't specification for asphalt-saturated rag felt for roofing and waterproofing
March 1, 1924. 5 pages. 5¢.
- C162 U. S. Gov't master specification for asphalt primer for roofing and waterproofing
April 8, 1924. 7 pages. 5¢.
- C287 U. S. Gov't master specification for asphalt-saturated woven cotton fabric for waterproofing
Nov. 17, 1925. 5 pages. 5¢.

BUILDING MATERIALS--Waterproofing--Continued

- C360 U. S. Gov't master specification for integral waterproofing material (for use with Portland cement mortar or concrete)
June 5, 1928. 4 pages. 5¢.

Wood

- C101 Physical properties of materials: I. Strengths and related properties of metals and certain other engineering materials
April 23, 1924. 2d ed. 204 pages. 40¢.
- BH1 Recommended minimum requirements for small dwelling construction
July 20, 1922. 108 pages. 15¢.
- BH9 Recommended building code requirements for working stresses in building materials
June 1, 1926. 53 pages. 10¢.
- CS26 Aromatic red cedar closet linings (in preparation) mimeographed.
- SPR16 Lumber (Standard nomenclature grades and sizes for soft-wood lumber)
30¢.
- M79 Standards and specifications in the wood-using industries
Oct. 5, 1927. 349 pages. \$1.50. cloth
- LC53 Investigation of effect of Su-dex process of treatment on physical properties of several woods
Nov. 28, 1922. mimeographed.

Miscellaneous Building Materials

- T202 Results of a survey of elevator interlocks and an analysis of elevator accident statistics, by C. E. Oakes and J. A. Dickinson
Oct. 17, 1921. 30 pages. 5¢.
- RP85 A study of sheathing papers, by F. T. Carson and F. V. Worthington. 5¢.
(Reprint from B. S. Journal of Research, July, 1929; vol. 3, No. 1, p. 75-89.)

BUILDING MATERIALS--Miscellaneous building materials--Continued

- RP161 Physical properties of electrically-welded steel tubing, by H. L. Whittemore, J. S. Adelson, and E. O. Seagquist. 20¢.
(Reprint from B. S. Journal of Research, April, 1930; vol. 4, No. 4, p. 475-500.)
- RP204 A method of measuring frictional coefficients of walk-way materials, by R. B. Hunter. 10¢.
(Reprint from B. S. Journal of Research, August, 1930; vol. 5, No. 2, p. 329-347.)
- C25 Standard samples--general information
June 26, 1923. 8th ed. 14 pages.
With supplement giving list of samples.
Free on application to Bureau of Standards
- C37 Electric wire and cable terminology
Jan. 1, 1915. 2d ed. 13 pages. (out of print)
- C152 Recommended specification for ceramic whiting
Dec. 8, 1923. 7 pages. 5¢.
- C216 U. S. Gov't master specification for putty
May 9, 1925. 9 pages. 5¢.
- C275 U. S. Gov't master specification for builders' hardware
Aug. 29, 1925. 47 pages. 15¢.
- CS9 Builders' template hardware
10¢.
- CS16 Wall paper
5¢.
- CS22 Builders' hardware (non-template)
Mimeographed.
- SPR3 Metal lath
5¢.
- SPR9 Woven wire fencing
5¢.
- SPR18 Builders' hardware
15¢.
- SPR19 Asbestos paper and asbestos millboard
5¢.

BUILDING MATERIALS--Miscellaneous building materials--Continued

- SPR47 Cut tacks and small cut nails
10¢.
- SPR49 Sidewalk, floor, and roof lights
5¢.
- SPR61 White glazed tile and unglazed ceramic mosaic
10¢.
- SPR72 Solid section steel windows
20¢.
- SPR75 Composition blackboard
5¢
- SPR82 Hollow metal single-acting swing doors, frames,
and trim
5¢.
- SPR83 Kalamein single-acting swing doors, frames, and
trim
5¢.
- LC131 Publications relating to ceramics: whiteware,
glass, refractories, enamels, heavy clay products
Dec. 31, 1928. 28 pages. mimeographed.
- LC155 List of publications by the Bureau of Standards
on cement, concrete, reinforced concrete, stucco,
magnesite, building stone, and related subjects
1930. 8 pages. mimeographed.
- LC156 Publications by members of the Bureau of Standards
staff on cement, concrete, reinforced concrete,
masonry, and related subjects
Feb. 15, 1930. 14 pages. mimeographed.
- LC191 Testing laboratories equipped for mechanical
testing of metals and other engineering materials
Jan. 1, 1926. mimeographed.
- LC270 Rubber floor tile
Oct. 10, 1929. 5 pages. mimeographed.

BUILDERS' SUPPLIES & TOOLS

- T187 A study of test methods for the purpose of developing standard specifications for paper bags for cement and lime,
by Paul L. Houston
March 21, 1921. 19 pages. 5¢.
- T198 Results of some tests of manila rope,
by A. H. Stang and L. R. Strickenberg
Sept. 15, 1921. 11 pages. (out of print)
- T200 An investigation of oxyacetylene welding and cutting blowpipes with special reference to their economy in operation, safety, and design, by R. S. Johnston
Dec. 28, 1921. 108 pages. 35¢.
- T229 Some tests of steel-wire rope on sheaves,
by Edward Skillman
March 2, 1923. 17 pages. 10¢.
- T260 Tests of some girder hooks, by H. L. Whittemore and A. H. Stang
June 28, 1924. 21 pages. 10¢.
- T292 Relative merits of cotton and jute cement sacks, by R. J. Morris
Aug. 7, 1925. 22 pages. 10¢.
- T315 Nondestructive testing of wire hoisting rope by magnetic analysis, by R. L. Sanford
April 16, 1926. 22 pages. 10¢.
- C64 Rules and regulations for enforcement of lime-barrel act.
April 20, 1917. 6 pages. 5¢.
- C208 U. S. Gov't master specification for wire rope
May, 1925. 37 pages. 15¢.
- SPR6 Files and rasps
5¢.
- SPR43 Paint and varnish brushes
5¢.
- SPR48 Shovels, spades, and scoops
5¢.

Builders' Supplies & Tools--Continued

SPR90 Hack-saw blades
10¢.

SPR105 Wheelbarrows
10¢.

LC136 Memorandum regarding preparation of wire rope
specimens for tensile strength tests
Dec. 5, 1924. mimeographed.

BUILDING AND PLUMBING CODES

BH1 Recommended minimum requirements for small
dwelling construction
July 20, 1922. 108 pages. 15¢.

BH6 Recommended minimum requirements for masonry
wall construction
June 26, 1924. 57 pages. 15¢.

BH7 Minimum live loads allowable for use in design
of buildings
Nov. 1, 1924. 38 pages. 10¢.

BH8 Recommended practice for arrangement of building
codes
July 5, 1925. 29 pages. 10¢.

BH9 Recommended building code requirements for
working stresses in building materials
June 1, 1926. 53 pages. 10¢.

BH13 Recommended minimum requirements for plumbing
Aug. 30, 1928. 280 pages. 35¢.
(Supersedes BH2)

BH14 Recommended minimum requirements for fire resistance
in buildings
1930 (in preparation)

* Compression tests on brick masonry: A compila-
tion covering 708 individual tests of brick
masonry in the form of piers and walls
March, 1926. 50 pages. mimeographed.

* Key to Minimum requirements recommended by the
Building Code Committee, Department of Commerce
December, 1926. 4 pages. mimeographed.

Building and Plumbing Codes--Continued

- * Building code tabulation, 1930.
June, 1930. 62 pages. mimeographed.

BUILDING STANDARDS

(See also: Building codes; House design and construction; Insulation; sound and soundproofing; Specifications.)

- S523 Wind pressure on structures, by Hugh L. Dryden and George C. Hill
April 3, 1926. 36 pages. 20¢.
- RP221 Wind pressure on circular cylinders and chimneys, by H. L. Dryden and George C. Hill. ¢.
(Reprint from B. S. Journal of Research, September, 1930; vol. 5, No. 3, p. 653-693.)
- H9 Safety rules for radio installations
July 15, 1926. 24 pages. 10¢.
- SPR87 Sizes of removable and permanent forms, pans, or domes made of wood, steel, or other material used in concrete ribbed floor construction
5¢.
- SPRXI Simplified practice--what it is and what it offers
10¢.
- SPRXIII A primer of simplified practice, by Ernest L. Priest
Nov. 1, 1926. 53 pages. 15¢.
- OSO-30 The commercial standards service and its value to business
10¢.
- LC71 Tentative classification of building construction with reference to fire resistance
July 3, 1922. mimeographed.
- LC149 Welding practice
April 29, 1921. 11 pages. mimeographed.
- * An analysis of forms of application for building permits, by Division of Building and Housing.
November, 1930. xx and 101 pages. mimeographed.

CITY PLANNING
(See also Zoning)

- BH10 A city planning primer
1928. 18 pages. 5¢.
- BH11 A standard city planning enabling act
1928. 54 pages. 15¢.
- * A tabulation of city planning commissions in the
United States, by Lester G. Chase
December, 1929. 34 pages. mimeographed.
- * Survey of city planning and related laws in 1927
and 1928, by Lester G. Chase
1929. 25 pages. mimeographed.
- * Survey of city planning and related laws in 1929,
by Lester G. Chase
1930. 41 pages. mimeographed.

DIVISION OF BUILDING AND HOUSING

- * The Division of Building and Housing and its ser-
vices, by James S. Taylor
March 1, 1930. 6 pages. mimeographed.

ELECTRICITY

- T108 Ground connections for electrical systems,
by O. S. Peters
June 20, 1918. 224 pages. 50¢.
- C56 Standards for electric service
Sept. 26, 1923. 2d ed. 344 pages. 60¢.
- C68 Public utility service standards of
quality and safety
Oct. 6, 1917. 3 pages. 5¢.
- C72 The scope and application of the national
electrical safety code
June 17, 1918. 34 pages. 20¢.
- C75 Safety for the household
Jan. 10, 1918. 127 pages. 40¢.

Electricity--Continued

- H3 National Electrical safety code
Dec. 31, 1926. 4th ed. 525 pages. \$1.00.
- H4 Discussion of the national electrical safety code
(to accompany 4th edition of the code)
1928. 334 pages. \$1.00.
- H6 Safety rules for the installation and maintenance
of electrical supply stations
Feb. 5, 1926. 56 pages. 10¢.
- H7 Safety rules for the installation and maintenance
of electrical utilization equipment. Consists
of Sec. 9 and Part 3, of H3, 4th ed.
March 12, 1926. 71 pages. 15¢.
- H8 Rules for the operation of electrical
equipment and lines
July 15, 1926. 63 pages. 15¢.
- H10 National electrical safety code, Part 5.
Construction and maintenance of electrical
supply and communication
April 15, 1927. 322 pages. 60¢.
- USGMS Lamps, electric, incandescent, large, tungsten
23c filament
March 25, 1929. 12 pages. 5¢.
1930 supplement. 5¢.
- USGMS Lamps, electric, incandescent, miniature,
618 tungsten filament
5¢.
1930 supplement. 5¢.
- M95 Protection of electrical circuits and equipment
against lightning
Sept. 12, 1929. 107 pages. 25¢.
- LC261 Application of the national electrical safety code
March 8, 1929. 4 pages. mimeographed.

ELECTROLYSIS AND SOIL CORROSION

- T15 Surface insulation of pipes as a means of
preventing electrolysis, by Burton McCollum and
O. S. Peters
Jan. 5, 1914. 44 pages. (out of print)

Electrolysis and Soil Corrosion--Continued

- T18 Electrolysis in concrete, by E. B. Rosa, Burton McCollum, and O. S. Peters
March 19, 1913. 137 pages. 35¢.
- T25 Electrolytic corrosion of iron in soils,
by Burton McCollum and K. H. Logan
June 12, 1913. 69 pages. 15¢.
- T26 Earth resistance and its relation to electrolysis
of underground structures, by Burton McCollum
and K. H. Logan
Dec. 20, 1915. 48 pages. (out of print)
- T28 Methods of making electrolysis surveys,
by Burton McCollum and G. H. Ahlborn
Aug. 26, 1916. 84 pages. (out of print)
- T52 Electrolysis and its mitigation,
by E. B. Rosa and Burton McCollum
Dec. 27, 1915. 143 pages. (out of print)
- T72 Influence of frequency of alternating or in-
frequently reversed current on electrolytic
corrosion,
by Burton McCollum and G. H. Ahlborn
Aug. 15, 1916. 31 pages. (out of print)
- T127 Leakage resistance of street-railway
roadbeds and its relation to electrolysis
of underground structures,
by E. R. Shepard
Oct. 6, 1919. 39 pages. 10¢.
- T351 Practical applications of the earth-current
meter, by Burton McCollum and K. H. Logan
Aug. 18, 1927. 45 pages. 20¢.
- T355 Electrolysis testing,
by Burton McCollum and K. H. Logan
Sept. 28, 1927. 75 pages. 30¢.
- T363 Soil-Corrosion Studies. I. Soils, materials,
and results of early observations, by K. H. Logan,
S. P. Ewing, and C. D. Yeomans
April 28, 1928. 103 pages. 50¢.

Electrolysis and Soil Corrosion--Continued

- RP95 Soil-corrosion studies, 1927-1928,
by K. H. Logan. 10¢.
(Reprint from B. S. Journal of Research, August,
1929; vol. 3, No. 2, p. 275-302.)
Supplementing T368

HEATING

- CS12 Domestic and industrial fuel oils
5¢.
- LC110 Information on heating and ventilation
Jan. 26, 1924. 1 page. mimeographed.
- LC263 Painting steam and hot water radiators
April 1, 1929. 4 pages. mimeographed.
- *LC284 List of publications and articles relating to home
heating problems
June 28, 1930. 6 pages. mimeographed.

HOME FINANCING

- BH12 Present home financing methods,
by John M. Gries and Thomas M. Curran
(Preliminary edition) 1928. 23 pages. 5¢.
- *Per capita savings in building and loan
associations for 1910 and 1920
Chart, 1 page.
- *Assets of building and loan associations,
total for United States, 1910-1929
Chart, 1 page
- *Membership in building and loan associations,
total for United States, 1910-1929
Chart, 1 page
- *Statistical table of membership and assets of
building and loan associations (from report of
H. F. Cellarius)
1929. 1 page. mimeographed.

HOME OWNERSHIP

BH4 How to own your home: a handbook for prospective home owners
1923. 28 pages. 5¢.

* Percentage of home ownership, 1920,
in 68 largest cities
Chart, 1 page

* Dwellings by states in United States in 1920
Photostat chart of rural and urban dwellings

HOUSE CARE AND REPAIR

BH-- Care and repair of the house,
by V. B. Phelan
1930. (in preparation)

*LC287 List of published material relating to home building
and maintenance
Nov. 12, 1930. 23 pages. mimeographed.

HOUSE DESIGN AND CONSTRUCTION

(See also: Building and plumbing codes; Building standards)

BH-- Recent trends in small dwelling construction
1930 (in preparation)

*LC287 List of published material relating to home building
and maintenance
Nov. 12, 1930. 23 pages. mimeographed.

* Small house plans (Describes work of
Architects' Small House Service Bureau)
3 pages. mimeographed.

* New trends in home design, by James S. Taylor
June 26, 1929. 25 pages. mimeographed.

* Some problems of the small home, by James S. Taylor
June, 1930. 17 pages. mimeographed.

* Planning the house with the children in mind,
by James S. Taylor
Oct. 30, 1930. 2 pages. mimeographed.

HOUSE EQUIPMENT AND FURNISHINGS

T133 Tests of flexible gas tubing, by R. S. McBride
and Walter M. Berry
Oct. 27, 1919. 37 pages. (out of print)

House Equipment and Furnishings--Continued

- T193 Design of atmospheric gas burners, by W. M. Berry, I. V. Brumbaugh, G. F. Moulton, and G. B. Shawn
Sept. 6, 1921. 62 pages. (out of print)
- T212 Carbon monoxide in the products of combustion from natural gas burners, by I. V. Brumbaugh and G. W. Jones
May 1, 1922. 20 pages. 10¢.
- T222 Relative usefulness of gases of different heating value and adjustments of burners for changes in heating value and specific gravity, by W. M. Berry, I. V. Brumbaugh, J. H. Eiseman, G. F. Moulton, and G. B. Shawn
Oct. 4, 1922. 77 pages. 25¢.
- T290 Relation between the heating value of gas and its usefulness to the customer, by E. R. Weaver
July 19, 1925. 117 pages. 30¢.
- T303 Causes of some accidents from gas appliances, by I. V. Brumbaugh
Jan. 11, 1926. 76 pages. 30¢.
- T304 A method for testing gas appliances to determine their safety from producing carbon monoxide, by E. R. Weaver, J. H. Eiseman, and G. B. Shawn
Jan. 11, 1926. 30 pages. 10¢.
- C55 Measurements for the household
Aug. 28, 1915. 149 pages. 45¢.
- C70 Materials for the household
Dec. 5, 1917. 259 pages. 50¢.
- C75 Safety for the household
Jan. 10, 1918. 127 pages. 40¢.
- C116 How to get better service with less natural gas in domestic gas appliances
Aug. 17, 1921. 5 pages. 5¢.
- C190 U. S. Gov't master specification for plain, inlaid, and printed linoleums
Sept. 4, 1924. 4 pages. 5¢.

House Equipment and Furnishings--Continued

- C191 U. S. Gov't master specification for battleship
linoleum
Sept. 4, 1924. 6 pages. 5¢.
- C290 U. S. Gov't master specification for gas hose
Nov. 18, 1925. 3 pages. 5¢.
- C327 Selection and care of garden hose
April 20, 1927. 12 pages. 10¢.
- C364 U. S. Gov't master specification for shade cloth
July 27, 1928. 4 pages. 5¢.
- C368 U. S. Gov't master specification for shades, win-
dow; rollers; slats; cords; and accessories
July 27, 1928. 5 pages. 5¢.
- SPR109 Refrigerator ice compartments
10¢.
- M39 Household weights and measures
3d ed. card. 2 pages. 5¢.
- M45 Buying commodities by weight or measure
Dec. 9, 1920. 42 pages. 10¢.
Reprint from C55.
- LC80 Publications relating to gas
1926. 4 pages. mimeographed.
- LC255 Electric and gas refrigerators
Nov. 17, 1928. 6 pages. mimeographed.

PRICES AND STATISTICS

- * Retail building material prices, approximately
55 cities
Monthly. 6 pages. mimeographed.
- * Apartment vacancy survey (Washington, D. C.)--
tabulation and analysis, by I. Mansfield Spasoff
November, 1929. 40 pages. mimeographed.
- * Methods used in making an apartment house survey,
by I. Mansfield Spasoff
1930. about 25 pages. mimeographed. (in preparation)

Prices and Statistics--Continued

- * Construction statistics, by Arthur B. Fridinger
1930. 21 pages. mimeographed. (in preparation)
A compilation of current construction statistics.

PUBLIC UTILITIES

- T114 Legal specifications for illuminating gas,
by E. B. Rosa, and R. S. McBride
Jan. 10, 1913. 31 pages. (out of print)
- T99 Gas-mantle lighting conditions in ten large
cities in the United States, by R. S. McBride
and C. E. Reinicker
Oct. 29, 1917. 37 pages. 10¢.
- T110 The influence of quality of gas and other factors
upon the efficiency of gas-mantle lamps,
by R. S. McBride, W. A. Dunkley, E. C. Crittenden, and
A. H. Taylor
Oct. 25, 1918. 49 pages. 15¢.
- T114 A portable cubic-foot standard for gas,
by M. H. Stillman
Jan. 28, 1919. 13 pages. 5¢.
- C32 Standards for gas service
Dec. 7, 1920. 4th ed. 140 pages. 20¢.
- C48 Standard methods of gas testing
June 10, 1916. 2d ed. 202 pages. 40¢.
- C68 Public utility service standards of quality and
safety
Oct. 6, 1917. 8 pages. 5¢.
- C112 Telephone service
June 24, 1921. 214 pages. 65¢.
- C309 Gas-measuring instruments
Dec. 8, 1926. 109 pages. 40¢.
- LC36 Public utilities
Jan. 20, 1922. 4 pages. mimeographed.

STABILIZATION OF CONSTRUCTION

Seasonal operation in the construction industries
1924. 24 pages. 5¢.

Summary of report and recommendations of a
Committee of the President's Conference on
Unemployment, with a foreword by Herbert Hoover.

Planning and control of public works
1930. 11 pages. 5¢.

A report of the Committee on Recent Economic
Changes of the President's Conference on Un-
employment.

- * Statement by Secretary of Commerce, R. P. Lamont
at the meeting of construction groups of the
National Business Survey Conference, January 21, 1930.
4 pages. mimeographed.
- * Construction as a stabilizing influence,
by John M. Gries
Feb. 25, 1930. 17 pages. mimeographed.
- * Twelve month construction,
by James S. Taylor.
Oct. 2, 1930. 12 pages. mimeographed.

Organization to promote employment in the State
of Ohio, 1929 and 1930.

Oct. 10, 1930. 47 pages. 10¢.

A report prepared by the Division of Public
Construction.

ZONING

(See also City Planning)

- BH3a A Zoning primer
1926. rev. ed. 10 pages. 5¢.
- BH5 A Standard state zoning enabling act under which
municipalities may adopt zoning regulations
1926. rev. ed. 13 pages. 5¢.
- * Zoning and health, by George C. Whipple
Oct. 24, 1924. 14 pages. mimeographed.
- * Lists of zoned municipalities, arranged according
to population
April 1, 1929. 20 pages. mimeographed.

Zoning--Continued

- * Zoning progress in the United States: Part I, Zoning and the courts, by Edward M. Bassett; Part II, Zoned municipalities in the United States, and Part III, Zoning legislation in the United States, by Norman L. Knauss 1929 and 1930. 12, 20, and 55 pages. mimeographed.
- * Survey of zoning laws and ordinances adopted during 1928 and 1929, by Norman L. Knauss 1930. 38 pages. mimeographed.
- * The preparation of zoning ordinances 1930. mimeographed. (in preparation)

MISCELLANEOUS

- C1 National Bureau of Standards
Oct. 29, 1925. 2d ed. 113 pages. 50¢.
Describes organization, functions, and work of the bureau.
- C383 Washing, cleaning, and polishing materials.
Sept. 10, 1930. 47 pages. 10¢.
- SPR111 Color for school furniture
5¢.
- M77 Standards yearbook, 1927.
398 pages. Cloth bound. (out of print)
- M83 Standards yearbook, 1928.
399 pages. \$1.00. Cloth bound.
- M90 Directory of commercial testing and college
research laboratories
April, 1927. 39 pages. 15¢.
- M90 Supplement to M90: Supplement to the Directory
of commercial testing and college research
laboratories
Jan. 4, 1929. 4 pages. 5¢.
- M91 Standards yearbook, 1929
401 pages. \$1.00. Cloth.
- M106 Standards yearbook, 1930
301 pages. 75¢. Cloth.

Miscellaneous--Continued

LC166 Publications of Engineering Mechanics Section
Jan. 1930. 16 pages. mimeographed.

LC209 General policy of the Bureau of Standards
with regard to testing
Sept. 24, 1926. 2 pages. mimeographed.

* Department of Commerce services available to
municipalities, by James S. Taylor
June, 1930. 7 pages. mimeographed.

