3M.-10-'59.

THOMAS J. HUGHES
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT
OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

January 5, 1960

BUILDING COMMISSIONER'S BULLETIN No. 61

Product: SPRAYCRAFT, A Fire Retardant Sprayed Directly On The Underside Of Steel Floors And Roofs And On The Beams Supporting Them.

Applicant: Smith & Kanzler Corporation, Linden, New Jersey.

Approval for use in the City of Boston is hereby granted for the above product, subject to the following conditions:

1. The material shall be applied to the surface to be fire retarded, according to the specifications of the manufacturer which are on file in this office except as noted below.

2. A cellular steel floor shall be finished on top with two and one-half inches of 3000 lbs. per square inch concrete and on the ceiling side with not less than three-quarters of an inch of SprayCraft applied directly to the floor units. SprayCraft used as a protection for the steel beams supporting the floor deck shall have a minimum thickness of two and one-half inches. When SprayCraft is applied to metal lath wrapped around beams, it shall have a thickness of two inches.

3. A suspended metal lath ceiling under a cellular floor shall have a 2" thickness of SprayCraft directly on the metal lath.

4. Ceilings under steel joist floors shall comply with Commissioner's Bulletin No. 38, and shall have a one-inch thickness of SprayCraft as protection on the wire lath.

5. It is expected that an acoustical ceiling, of incombustible material, will be constructed under all finished SprayCraft sprayed ceilings, unless otherwise approved by the Commissioner.

6. The underside of a SprayCraft sprayed ceiling shall in no case be less than 7'0" from the top of the floor below.

7. SprayCraft shall not be used as a fire retardant on interior columns, except the upper portion adjacent to ceiling, or on any exterior beams or columns exposed to the weather.

8. The full thickness, as specified above, shall be applied at all times throughout each application. The material shall be marked, stamped or labelled so as to be readily identified when delivered at the job site.

9. SprayCraft shall not be applied to a flat surface or to a cellular steel deck having a flat plate on the ceiling side, unless it is applied on rib lath as provided in the addendum of Commissioner's Bulletin #38.

This Approval is granted under authority contained in Section 116, Paragraph (L) of the Boston Building Code, Chapter 479, Acts of 1938 as amended, and is based on tests and other information on file in this Department and is good for a period of three years only.

It may not be used in any way for advertising purposes.

/s/ Thomas J. Hughes
Thomas J. Hughes
Building Commissioner

DM/rkr

3M.-10-'59.

THOMAS J. HUGHES
BUILDING COMMISSIONER
THOMAS L. FLYNN
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FRANK J. COUGHLIN
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BOSTON 8, MASSACHUSETTS

January 5, 1960

BUILDING COMMISSIONER'S BULLETIN No. 61

Product: SPRAYCRAFT, A Fire Retardant Sprayed Directly On The Underside Of Steel Floors And Roofs And On The Beams Supporting Them.

Applicant: Smith & Kanzler Corporation, Linden, New Jersey.

Approval for use in the City of Boston is hereby granted for the above product, subject to the following conditions:

1. The material shall be applied to the surface to be fire retarded, according to the specifications of the manufacturer which are on file in this office except as noted below.

2. A cellular steel floor shall be finished on top with two and one-half inches of 3000 lbs. per square inch concrete and on the ceiling side with not less than three-quarters of an inch of SprayCraft applied directly to the floor units. SprayCraft used as a protection for the steel beams supporting the floor deck shall have a minimum thickness of two and one-half inches. When SprayCraft is applied to metal lath wrapped around beams, it shall have a thickness of two inches.

3. A suspended metal lath ceiling under a cellular floor shall have a 2" thickness of SprayCraft directly on the metal lath.

4. Ceilings under steel joist floors shall comply with Commissioner's Bulletin No. 38, and shall have a one-inch thickness of SprayCraft as protection on the wire lath.

5. It is expected that an acoustical ceiling, of incombustible material, will be constructed under all finished SprayCraft sprayed ceilings, unless otherwise approved by the Commissioner.

6. The underside of a SprayCraft sprayed ceiling shall in no case be less than 7'0" from the top of the floor below.

7. SprayCraft shall not be used as a fire retardant on interior columns, except the upper portion adjacent to ceiling, or on any exterior beams or columns exposed to the weather.

8. The full thickness, as specified above, shall be applied at all times throughout each application. The material shall be marked, stamped or labelled so as to be readily identified when delivered at the job site.

9. SprayCraft shall not be applied to a flat surface or to a cellular steel deck having a flat plate on the ceiling side, unless it is applied on rib lath as provided in the addendum of Commissioner's Bulletin #38.

This Approval is granted under authority contained in Section 116, Paragraph (L) of the Boston Building Code, Chapter 479, Acts of 1938 as amended, and is based on tests and other information on file in this Department and is good for a period of three years only.

It may not be used in any way for advertising purposes.

/s/ Thomas J. Hughes
Thomas J. Hughes
Building Commissioner

DM/rkr

1M.-2-'60.

CITY OF BOSTON

BUILDING DEPARTMENT

OFFICE OF THE BUILDING COMMISSIONER

Ninth Floor, City Hall Annex

BOSTON 8, MASSACHUSETTS

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER
FRANK J. COUGHLIN
EXECUTIVE SECRETARY

March 23, 1960.

COMMISSIONER'S BULLETIN NO. 62.

Product: Vinyl Plastic Lighting Panel
(Trade Name "Circlgrid")

Manufacturer: Cirvac Plastics
P. O. Box 655
Erie, Pa.

Approval of "Circlgrid" louvered panels as an integrated electrical ceiling system constructed as a standard inverted tee acoustical type suspension system, according to specifications of the manufacturer which are on file in this office, is hereby granted.

The "Circlgrid" panels may be used in precode and postcode buildings, provided it complies with the following provisos:

1. A plan shall always be submitted to the Building Department for approval showing the location and the area covered by the plastic ceiling and the method of suspension of same.

2. Automatic sprinklers shall be provided in all locations where "Circlgrid" is used.

3. The Commissioner may permit the omission of sprinklers if in his opinion the hazard will not be increased by the omission.

4. When sprinklers are installed they shall conform to the standards of the National Board of Fire Underwriters for the installation of sprinkler systems as recommended by the National Fire Protection Association, published by the National Board of Fire Underwriters, June, 1958, N.F.B.U. No. 13.

5. "Circlgrid" when delivered at the job shall be properly marked as Circlgrid 45, and it shall not differ from the samples submitted to the Building Department for approval.

This approval is granted under authority contained in Section 116, Paragraph L, of the Boston Building Code, Chapter 479 of the Acts of 1938, as amended, and is based on tests and other information on file in this Department.

Robert E. York,
Building Commissioner.

RM:bdf

1M.-2-'60.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER
FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT
OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

March 29, 1960.

COMMISSIONER'S BULLETIN NO. 63.

Product: Plain Porex Roof Slabs.

Applicant: Porete Manufacturing Company
Porete Avenue
North Arlington, New Jersey

Approval is hereby granted for use in structures in the City of Boston of plain porex slabs as incombustible roof decking in structures where no specific fire-resistive time period is required; also in roofs of buildings of Type I and Type II construction where the roof framing is at least 25 feet 0 inches from the floor below as provided in Section 1701 (b) of the Boston Building Code.

Description: The slabs are manufactured in a standard width of 32 inches and in various lengths. The plain porex slabs are of 2-, $2\frac{1}{2}$-, and $3\frac{1}{2}$-inch thickness and have a $\frac{1}{4}$ inch nailable cement topping. The roof slabs shall be designed as simple spans and shall be anchored to the joists, purlins, or tees according to the manufacturer's specifications and to be constructed as limited by the following table:

Slab Thickness	Weight Per Sq. Ft.	Length of Span	Load Per Sq. Ft. Including Weight of Slab
Inches	Pounds	Inches	Pounds
2	6.2	36	42
$2\frac{1}{2}$	7.5	42	44
3	8.2	48	45
$3\frac{1}{2}$	9.2	54	46

Porex slabs when delivered at the job site shall have a proper identifying mark giving the thickness and a statement that this material is the same as approved by the Boston Building Department.

This approval is granted under authority contained in Section 116, Paragraph L, of the Boston Building Code, Chapter 479 of the Acts of 1938 as amended, and is based on tests and other information on file in this department. This approval may not be used in any way for advertising purposes.

DM:bdf

Robert E. York
Building Commissioner.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER
FRANK J. COUGHLIN
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CITY OF BOSTON
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OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

May 31, 1960.

COMMISSIONER'S BULLETIN NO. 64.

Product: PLACEWELL - A liquid water reducing agent sold in two formulations, namely, PLACEWELL-W which entrains air and PLACEWELL-R which entrains not over 1.5 per cent air.

Applicant: Johns-Manville,
22 East 40th Street,
New York 16, New York.

Approval for use in the City of Boston is hereby granted for the above product to be used as an additive in concrete and mortars to increase workability based on the following conditions:

1. The amount used shall not exceed 0.20 pounds per sack of cement.

2. The concrete in which it is used shall be controlled concrete in accordance with Section 2612 of the Boston Building Code, but with no reduction permitted below the minimum cement content given herein.

3. The approval applies only to the formulation of PLACEWELL-W and PLACEWELL-R as of the date of the test data presented.

4. The material when delivered on the job shall have the proper identification in the form of stamps or labels as to its contents, and shall be marked approved by the City of Boston Building Department.

This approval is granted under authority contained in Section 116 (1) of Chapter 479, Acts of 1938, as amended, and is based upon reports of tests and other data on file in the office of the Building Commissioner. This approval may not be used for advertising purposes.

REYork

DM:bdf

R. E. York,
Building Commissioner.

5M.-8-'60.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER
FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT
OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

August 31, 1960.

COMMISSIONER'S BULLETIN No. 65.
(Supersedes Bulletin No. 38 Dated Feb. 1, 1957).

Subject: The Use of Perlite Gypsum Plaster or Vermiculite Gypsum Plaster for Fireproofing Structural Steel Members in Buildings.

Approval is hereby granted for use in the City of Boston of the above products as fire protective materials for structural steel members based on the fire ratings as given below and subject to the following methods and provisos:

1. Fireproofing with perlite or vermiculite plaster on metal or gypsum lath shall conform to ASTM and ASA specifications for Gypsum Plastering and Interior Lathing and Furring and the applicable provisions of Part 22 of the Building Code. Metal lath shall be 3/8" rib lath 3.4 pounds per square yard. Vermiculite and Perlite aggregates used for base and coat plastering shall conform to the requirements of ASTM C37. Plaster scratch coat shall be proportioned 100 pounds gypsum to 2 cubic feet of aggregate, and brown coat shall be proportioned 100 pounds gypsum to 3 cubic feet aggregate. Plaster thickness measured from face of the metal lath to plaster surface.

2. Openings for air-conditioning, electric outlets, etc., in ceilings required to have a fire-resistance rating shall not exceed 100 square inches for each 100 square feet of ceiling. All duct openings shall be protected with 12 gauge gravity operated dampers held open with 160° F fusible links. Dampers at duct openings shall be covered with asbestos paper 1/16" thick. Fireproofing shall extend behind air diffusers to the damper protected duct opening and when flush-type troffer lights or approved plastic light diffusers are used, the fireproofing shall be continuous behind the fixture. The ceiling suspension system shall consist of incombustible materials throughout.

3. FLOOR AND ROOF PROTECTION:

The following materials or assemblies shall be assumed to afford to floor and roof construction fire-protection of the rating indicated.

FOUR HOUR RATING:

a. Suspended ceiling beneath poured concrete floors or roofs on structural steel supports, or approved poured gypsum roofs, or approved precast concrete or gypsum roofs on structural steel supports:

1" gypsum-perlite or gypsum-vermiculite plaster on metal lath with a minimum space of 2" between bottom of structural steel supporting members and back of metal lath.

b. Suspended ceiling beneath a floor or roof assembly consisting of steel decking welded to structural supports with 2½" minimum concrete topping on the steel decking:

1" gypsum-perlite or gypsum-vermiculite plaster on metal lath with a minimum space of 16" from bottom of steel decking to back of lath and/or a minimum space of 3" between bottom of structural steel supporting members and back of lath.

c. Suspended ceiling beneath a floor or roof assembly consisting of steel floor panels or sections, or roof panels or sections welded to structural supports, with a 2½" minimum of concrete topping of 3,000 pounds per square inch on the steel panels or sections:

1" gypsum-perlite or gypsum-vermiculite plaster on 3/8" rib lath tied with No. 8 wire to a continuous 18 gauge hanger strip interlocked in the male and female joints of the panels or sections and tied tight to the bottom of the panel or section with the metal lath 3/8" rib up. The structural supporting members have the lath furring tight to the flange with the metal lath 3/8" rib towards the structural steel and are protected with 1½" gypsum-perlite or gypsum-vermiculite plaster.

THREE HOUR RATING:

d. Suspended ceiling beneath a floor or roof assembly consisting of steel decking welded to structural steel supports with a 2" minimum concrete topping on the steel decking:

7/8" gypsum-perlite or gypsum-vermiculite plaster on metal lath with a minimum space of 2" from bottom of structural steel supporting members to back of lath.

e. Ceiling beneath a floor or roof assembly consisting of 2½" minimum concrete slab on ribbed metal lath attached to top chord of steel joists:

THREE HOUR RATING (Continued)

1" gypsum-perlite or gypsum-vermiculite plaster on metal lath attached to 3/4" furring channels 12" on center secured to the lower chord of the steel joists.

1" gypsum-perlite or gypsum-vermiculite plaster on 3/8" perforated gypsum lath attached to 3/4" furring channels 12" on center secured to the lower chord of the steel joists. Plaster reinforced with metal lath secured to furring channels.

4. STEEL BEAMS AND GIRDERS PROTECTION:

The following materials or assemblies shall be assumed to afford to structural steel beams and girders fire-protection of the rating indicated:

FOUR HOUR RATING:

a. 1 3/4" gypsum-perlite or gypsum-vermiculite plaster on self-furring metal lath wrapped around beams or girders.

THREE HOUR RATING:

b. 1 3/8" gypsum-perlite or gypsum-vermiculite plaster on self-furring metal lath wrapped around beams or girders.

TWO HOUR RATING:

c. 1" gypsum-perlite or gypsum-vermiculite plaster on self-furring metal lath wrapped around beams or girders.

5. STRUCTURAL STEEL COLUMN PROTECTION:

The following materials or assemblies shall be assumed to afford to structural steel columns fire-protection of the rating indicated.

FOUR HOUR RATING:

a. 1 3/4" gypsum-perlite or gypsum-vermiculite plaster on self-furring metal lath wrapped around column and having expanded metal corner beads. No fill.

b. 1½" gypsum-perlite or gypsum-vermiculite plaster on metal lath furred about column by 3/4" furring channels at approximately 24" vertical spacing and having expanded metal corner beads. No fill.

c. 1½" gypsum-perlite or gypsum-vermiculite plaster on metal lath furred 1 1/4" from column flanges by metal lath spacers and having expanded metal corner beads. Space between column flanges and lath filled with plaster.

THREE HOUR RATING:

d. 1 3/8" gypsum-perlite or gypsum-vermiculite plaster on self-furring metal lath wrapped around column and having expanded metal corner beads. No fill.

e. 1" gypsum-perlite or gypsum-vermiculite plaster on metal lath furred 1 1/4" from column flanges by metal lath spacers and having expanded metal corner beads. Space between column flanges and lath filled with plaster.

f. 1 3/4" gypsum-perlite or gypsum-vermiculite plaster on 3/8" perforated gypsum lath secured by means of double strands of 18 gauge tie wire spaced approximately 12" vertically or suitable metal clip arrangement and having expanded metal corner beads. No fill.

TWO HOUR RATING:

g. 1" gypsum-perlite or gypsum-vermiculite plaster on self-furring metal lath wrapped around column and having expanded metal corner beads. No fill.

h. 1" gypsum-perlite or gypsum-vermiculite plaster on 3/8" perforated gypsum lath secured by means of double strand 18 gauge wire spaced approximately 12" vertically or suitable metal clip arrangement and having expanded metal corner beads. No fill.

This approval is granted under authority contained in Section 116 (1) of chapter 479, Acts of 1938, as amended, and is based upon reports of tests and other data on file in the office of the Building Commissioner. This approval may not be used for advertising purposes.

R. E. York,
Building Commissioner.

DM:bdf

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER
FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT
OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

October 25, 1960.

COMMISSIONER'S BULLETIN NO. 67.

Product: The use of WRDA as a water-reducing admixture in structural concrete.

Applicant: W. R Grace & Co.,
Dewey and Almy Chemical Division,
Cambridge 40, Massachusetts.

Approval for use in the City of Boston of the above product as a material-reducing admixture in the preparation of concrete mixes subject to the following provisos:

1. It shall be used in accordance with the recommendations of the manufacturer.

2. It shall be used only in controlled concrete.

3. This approval to apply only to the formulation of WRDA as of January 1, 1959.
WRDA of changed composition not to be used until approved.

This approval shall not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

DM:bdf

ROBERT E. YORK
BUILDING COMMISSIONER
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CITY OF BOSTON
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OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

March 24, 1961.

COMMISSIONER'S BULLETIN NO. 66.

Product: A fire-retardant, incombustible ceiling tile, known as LO-TONE FR Mineral Acoustical Tile

Applicant: Wood Conversion Company
First National Bank Building
Saint Paul 1, Minnesota

Approval for use in the City of Boston is hereby granted for the above-named product, for a two-hour fire-resistive ceiling, subject to the following conditions:

1. The ceiling shall be constructed without openings, and shall be installed as described in the report of test, File R4355-1, by the Underwriters' Laboratories.

2. All channels, angles, etc., supporting the tile shall be concealed in the ceiling construction.

3. The ceiling construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the ceiling construction shall be shown on the plans submitted to the Building Department with application for permit in a particular case.

5. The ceiling tile shall bear the label of the Underwriters' Laboratories, Inc.

This approval is granted under authority contained in Section 116, Paragraph (1) and Section 2201 (b) of Chapter 479, Acts of 1938 as amended, the Boston Building Code, and is based upon a test by the Underwriters' Laboratories and letters of approval by other Building Departments, which are on file in the Building Department of the City of Boston. This approval may not be used in any way for advertising purposes.

DM:bdf

R. E. York,
Building Commissioner.

1M.-6-'61.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER
FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT

OFFICE OF THE BUILDING COMMISSIONER

Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

May 17, 1961.

ADDRESS REPLY TO THE BUILDING COMMISSIONER

COMMISSIONER'S BULLETIN NO. 68.

Product: Spraycraft, a fire-retardant, incombustible material, used to fire-protect metal surfaces, and composed of mineral fibres, with asbestos as a major ingredient; a binder and preservative, applied on the metal surface with a spray gun, after a priming coat or adhesive is first applied.

Applicant: Smith and Kanzler Corporation,
Linden, New Jersey.

Approval for use in the City of Boston is hereby granted for the above-named product, subject to the following conditions:

1. This material shall be applied to the metal surfaces according to the specifications of the manufacturer, which are on file in the Boston Building Department, except as noted below.

2. All surfaces of the metal deck shall be galvanized before the "Spraycraft" is applied.

3. All other surfaces to be protected by "Spraycraft" shall be thoroughly cleaned of dirt, dust, grease, oil, loose paint, and other materials which would prevent good adhesion of the sprayed-on fibres.

4. A metal deck floor, constructed of steel floor units 24 1/4" wide, alternating one 16-gauge fluted section to 18-16-gauge cellular sections, welded to supports 12" o.c., adjacent units button-punched 12" o.c., and when covered with a 2 1/2" sand-limestone concrete, 1 - 3 - 4 3/4 mix, 3,475 lbs. sq.in. fc' on top of the deck and 3/4" of sprayed fibres, Type 1132, on the underside of the deck, shall have a rating of four hours. The beams supporting the deck shall be fireproofed as stated in Item 6.

5. A metal deck constructed of fluted steel floor units, 24" wide, of No. 18 U.S.S. gauge top section, and No. 16 U.S.S. gauge bottom section, sheet welded together to form a unit similar to the Robertson RK 18-16 units, welded to supports 12" o.c. and adjacent units button-punched 12" o.c., and when covered with a 2 1/2" sand-limestone concrete, 1: 2: 3.3, 4,000 lbs. sq.in. fc' on top of the deck, and 1/2" of sprayed fibre type 1132 on the underside of the metal deck, shall have a rating of four hours. The beam supports shall be fireproofed as stated in Item 6.

6. Beams supporting the floor deck shall have a thickness of

   1-7.8" of "Spraycraft" for a four-hour rating;
   1-3/8" of "Spraycraft" for a three-hour rating.

7. Where heater ducts and junction boxes are incorporated in the metal deck, they shall receive 1" and 1½" of "Spraycraft," respectively, for a three-hour rating.

8. The material shall be marked, stamped, or labeled so as to be readily identified when delivered at the site.

9. "Spraycraft" shall not be used as a fire retardant on interior columns, except in the upper portion adjacent to the ceilings, or on any exterior beams or columns exposed to the weather.

10. The provisions of this bulletin do not alter in any way any other provision in the Building Code or in the Commissioner's Bulletins as far as may be applicable to this or similar types of construction.

This approval is granted under authority contained in section 116(L) of Chapter 479, Acts of 1938, as amended, and is based upon reports of tests and other data submitted and on file in the Building Department.

This approval may not be used for advertising purposes.

Robert E. York,
Building Commissioner.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER
FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
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Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

May 23, 1961.

COMMISSIONER'S BULLETIN NO. 69.

Product: 5/8" gypsum wallboard laminated in three layers, total thickness of 1-7/8", applied to a steel column as fireproofing for a two-hour fire-resistive rating.

Applicant: United States Gypsum Company,
75 Third Avenue,
Waltham 54, Massachusetts.

Approval for use in the City of Boston for the above-named product for a two-hour fire-resistive rating is hereby granted subject to the following conditions:

1. The gypsum wallboard shall be the kind listed by the Underwirters Laboratories, Inc., in the building materials list, Guide No. U 18-23, supplied in sheets 48" wide and 8' long, and shall comply with the specifications established for the products under factory inspection and label service.

2. The nails used to hold the first two layers of wallboard in place during construction shall be ringed-shank 1-3/8" long, 1/8" diameter, with 5/16" head.

3. The angles at the corners of the assembly over the second layer of wallboard shall be 1-1/2 by 1-1/4 by 0.021 inches electrogalvanized steel.

4. The metal banding materials to hold the corner angles in place shall be 1/2" high tensile strength steel, 0.015 inches thick.

5. Screws to secure the third layer of wallboard shall be of a special design. The corner beads shall be made of case-hardened steel, self-drilling, self-tapping, 1" long, with outside thread diameter of 0.143 inches and with a flat Phillips head which has a curved taper to the shank.

6. The corner beads shall be formed of No. 26 U.S. gauge galvanized steel with perforated flanges of equal width, 1" wide.

7. A dry mixture compound especially prepared for gypsum wallboard joint treatment applied to the outside as a finish of the column assembly, shall be mixed with water according to the manufacturing instructions which shall appear on each bag.

8. The paper tape at the top of the column shall be 2" perforated porous tape used in gypsum wallboard joint treatment.

9. The studs used to attach the wallboard return to the cap at the top of the column shall be 5/32 by 1-1/4" and they shall be power driven.

This approval is granted under authority contained in section 116 (L) of Chapter 479, Acts of 1938, as amended, and is based on a test by the Underwriters' Laboratories, Inc., No. R 1319-33 of November 3, 1960, on file in the Building Department.

Robert E. York,
Building Commissioner.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER
FRANK J. COUGHLIN
EXECUTIVE SECRETARY

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BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

May 25, 1961.

COMMISSIONER'S BULLETIN NO. 70.

Product: Compacted Concrete Pile known as "Franki Pile."

Applicant: Franki Foundation Company,
103 Park Avenue,
New York 17, New York.

Approval for use in the City of Boston is hereby granted for the above-named pile to be used in the foundation of buildings and structures in the City of Boston subject to the following provisos:

The load on the compacted concrete pile shall be limited by the following provision:

Where weaker materials underlie the bearing material into which the piles are driven, the allowable pile load shall be limited by the provision that the vertical pressures in such underlying materials produced by the loads on all piles in a foundation shall not exceed the allowable bearing values of such materials, as given in section 2904, or determined in accordance with the provisions of sections 2915, 2916, and 2917. Piles or pile groups shall be assumed to transfer their loads to the underlying materials by spreading the load uniformly at an angle of sixty degrees with the horizontal, starting at a polygon circumscribing the piles at the top of the satisfactory bearing material in which they are imbedded; but the area considered as supporting the load shall not extend beyond the intersection of the sixty degrees planes of adjacent piles or pile groups, except that the circumscribing polygon shall start at the junction of the shaft and the enlarged base, and the bearing area shall be taken at planes six feet or more below said junction; nor shall the allowable load on a compacted pile exceed 120 tons.

The installation of such piles shall fulfill the following listed requirements:

1. The drive-pipe used for installing the pile shall be not less than 20 inches outside diameter.

2. The enlarged base of the pile shall be formed on or in bearing materials of Classes 1 to 8, inclusive.

3. The concrete shall be designed for a 28 day strength of at least 4,000 pounds per square inch, and shall be placed at zero slump in batches not to exceed 5 cubic feet in volume.

COMMISSIONER'S BULLETIN NO. 70.

4. The last batch of concrete shall be driven into the enlarged base with not less than 20 blows, each of not less than 130,000 foot-pounds.

5. As the drive-pipe is being withdrawn, not less than 2 blows of not less than 30,000 foot-pounds shall be applied to compact each batch of shaft concrete.

6. An uncased shaft shall not be formed through organic or inorganic clay or silt unless an excavation at least equal to the inside diameter of the drive-pipe is first augured through such soil, or the individual piles are located more than 9 feet apart.

7. An uncased shaft shall not be formed through peat or other highly organic soils.

8. A permanent metal-cased shaft not less than 16 inches in diameter shall be installed through organic or inorganic clay or silt if requirement 6 is not fulfilled. The permanent metal casing shall be fastened to the enlarged base in such a manner that the two will not seperate. The concrete may be placed in the metal casing in the same manner as for poured concrete piles. No metal casing shall be filled with concrete after all piles within a radius of at least 9 feet have been driven. The stresses in metal-cased shafts shall not exceed 900 pounds per square inch on the concrete and 8,500 pounds square inch on the steel, provided that its wall thickness is at least two-tenths of an inch thick.

9. The center-to-center spacing of piles shall be not less than 4 feet and 6 inches.

10. The provisions of sections 2915, 2916, and 2917 of the Boston Building Code shall also apply to compacted concrete piles.

This approval is granted under authority contained in section 116, paragraph L, and section 2908 of the Boston Building Code, chapter 479, Acts of 1938, as amended, and is based on tests and other information on file in this department.

It may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

DM:JPM/lgd

1M.-6-'61.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER
FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT

OFFICE OF THE BUILDING COMMISSIONER

Ninth Floor, City Hall Annex

BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

June 19, 1961.

COMMISSIONER'S BULLETIN NO. 71.

Product: Concrete-filled columns, either cylindrical pipe columns of built-up rectangular columns, known as "Master Column," for use in structures in the City of Boston.

Applicant: Master Column Company,
Arlington, Massachusetts.

The use of the above column known as "Master Column" in structures in the City of Boston is hereby approved subject to the following provisos:

1. Columns may be selected from approved tables submitted by the Master Column Company, Inc., provided they are based on concentric axial loads.

2. The design and inspection of the columns shall comply with the Boston Building Code.

3. Concrete-filled columns shall be inspected during their manufacture as prescribed in section 2811-g.

4. Columns having eccentric loads shall be designed according to established principles of mechanics.

This approval is granted under authority contained in section 116 (1) of the Boston Building Code, Chapter 479, of the Acts of 1938, as amended, and is based on analysis made by the engineering firm of Goldberg and Associates, Inc., and tests conducted at Massachusetts Institute of Technology under the supervision of Albert J. O'Neill, consultant on architectural construction and materials, in the testing laboratory at 77 Massachusetts Avenue, Cambridge, Mass., which are on file in the Building Department of the City of Boston.

R. E. York,
Building Commissioner.

REY:lgd

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER
FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT
OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

June 2, 1961.

COMMISSIONER'S BULLETIN NO. 72.

Product: "Cafco-Spray," also known as "Cafco Blaze-Shield," a fire-retardant incombustible material used to fire-protect metal surfaces and composed of a mixture of mineral wool asbestos and cement, in proper proportions, mixed with water and applied to the metal surface with a spray gun, after a priming coat or adhesive is first applied.

Applicant: Columbia Acoustic and Fireproofing Company,
Stanhope, New Jersey.

Approval for use in the City of Boston of the above-named product is granted, subject to the following conditions:

1. This material shall be applied to the metal surfaces according to the specifications of the manufacturer, which are on file with the Boston Building Department, except as noted below.

2. All surfaces of the metal deck shall be galvanized before the "Cafco Blaze Shield" is applied.

3. All other surfaces to be protected by "Cafco Blaze Shield" shall be thoroughly cleaned of dirt, dust, grease, oil, loose paint, and other materials which would prevent good adhesion of the sprayed-on fibres.

4. A metal deck floor constructed of steel floor units consisting of two types, one fluted and one cellular, the fluted unit formed from 14 U.S. gauge steel 1½" deep, and 2'0" wide; the cellular units to be 24" wide, 1½" deep, and composed of fluted No. 18 U.S. gauge top sheet, and No. 16 U.S. gauge bottom sheet spot-welded together into one unit. When metal deck is covered with a sand-limestone concrete, 1-2-3 1/4 mix, with a minimum average strength of 3,000 pounds per square foot at 28 days, on top of deck, and 3/4" of sprayed fibres on the under side of the deck, it shall have a rating of four hours. The beams supporting the deck shall be fireproofed as state in Item No. 6.

5. A metal deck floor, constructed of steel floor units similar to the "Rosco Type F" floor units, consisting basically of a fluted cellular upper section of No. 18 gauge galvanized steel with a flat lower section of No. 16 gauge galvanized steel welded together and covered on top with 2½" of concrete, 1-2-3 Portland cement, sand, and pea gravel, respectively, having an average strength at 28 days of 3,000 pounds per square inch f_c' and having a ½" of sprayed fibres listed by Underwriters Laboratories of Canada, Guide No.40U18.6, on the under side of the deck, it shall have a rating of two hours. The beams supporting the deck shall be fireproofed with 1-1/8" thickness of fibre spray for a two-hour rating.

6. A metal deck floor constructed of steel floor units similar to the "Rosco Type D" steel deck units formed from 18 gauge galvanized steel covered on top with concrete of 1-2 3/4-4, of Portland cement, sand and pea gravel aggregate respectively, with an average strength at 28 days of 3,000 pounds per square inch of f_c' and $\frac{1}{2}$" of Cafco spray on the under side of the deck shall have a rating of three hours. The beams supporting the deck covered with $1\frac{1}{2}$" of fibre spray shall have a rating of three hours.

7. Open web steel joists supporting a metal deck floor or roof and protected on the under side with "Cafco" spray shall have a rating of two hours, provided it is constructed as follows:

The steel joists shall be of the open web design and shall have rigid bridging not to exceed 8'0" o.c. The corrugated shell steel form units on top of the joists shall be No. 28 U.S. gauge uncoated steel, the kind listed by the Underwriters Laboratories, Inc., under Guide No.40U18.19. The washers used in welding the steel units to the joists shall be No. 16 U.S. gauge uncoated steel, 1 x 1-1/8" with 3/8" diameter holes, formed to the contour of the units. It shall have a $2\frac{1}{2}$" concrete topping of 1-2-3.4 mix. The wire fabric placed in the concrete topping shall be at least 6 x 6" mesh of No. 10 U.S. gauge uncoated wire. The under side shall have 3/8" gypsum lath used as a base for the "Cafco" spray. The gypsum lath shall be applied to channels formed of No. 25 U.S. gauge galvanized steel. The channels shall be attached with No. 18 U.S. gauge galvanized soft annealed steel to the bottom chords of the joists. The nails used to attach the lath to the channels shall be of No. 12 U.S. gauge wire with two $\frac{1}{2}$" diameter heads and with barbed shank. The reinforcing wire to reinforce the sprayed fibre material may be of No. 20 U.S. gauge galvanized steel. The fibres and adhesive are as listed in the Underwriters Laboratories, Inc., under label service as fibre (sprayed) Guide No. 40U8.6.

8. The material shall be marked, stamped, or labeled so as to be readily identified when delivered at the site.

9. "Cafco Spray" shall not be used as a fire retardant on interior columns, except in the upper portions adjacent to the ceilings, or on any exterior beams or columns exposed to the weather.

10. The provisions of this bulletin do not alter in any way any other provision in the Building Code or in the Commissioner's bulletin as far as may be applicable to this or similar types of construction.

This approval is granted under the authority contained in section 116 (L) of Chapter 479, Acts of 1938 as amended, and is based upon reports of tests and other data submitted and on file in the Building Department.

This approval may not be used for advertising purposes.

R. E. York,
Building Commissioner.

DM:JPM?lgd

1M.-6-'61.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER
FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT

OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

June 27, 1961.

COMMISSIONER'S BULLETIN NO. 73.

Product: A fire-retardant, incombustible tile, known as Gold Bond Fire Shield Acoustiroc Acoustical Tile.

Applicant: National Gypsum Company,
Buffalo 2, New York.

Approval for use in the City of Boston is hereby granted for the above-mentioned product for a two-hour fire-resistive ceiling, subject to the following conditions:

1. The ceiling shall be constructed without openings and shall be installed as described in U L test report, file R4337-5.

2. All channels and suspension system supporting the tile shall be furnished by the manufacturer of the tile, and shall be concealed in the ceiling construction.

3. The ceiling construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the ceiling construction shall be shown on the plans submitted to the Building Department with application for permit in a particular case.

5. The ceiling tile shall bear the label of the Underwriters' Laboratories, Inc.

This approval is granted under authority contained in Section 116, paragraph L, of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

TLF:lgd

1M.-6-'61.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
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EXECUTIVE SECRETARY

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BUILDING DEPARTMENT
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Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

June 23, 1961.

COMMISSIONER'S BULLETIN NO. 74.

Product: A fire-retardant, incombustible tile, known as Gold Bond Fire Shield Solitude Acoustical Tile.

Applicant: National Gypsum Company,
Buffalo 2, New York.

Approval for use in the City of Boston is hereby granted for the above-mentioned product for a two-hour fire-resistive ceiling, subject to the following conditions:

1. The ceiling shall be constructed without openings, and shall be installed as described in U L test report, file R4337-4.

2. All channels and suspension system supporting the tile shall be furnished by the manufacturer of the tile, and shall be concealed in the ceiling construction.

3. The ceiling construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the ceiling construction shall be shown on the plans submitted to the Building Department with application for permit in a particular case.

5. The ceiling tile shall bear the label of the Underwriters' Laboratories, Inc.

This approval is granted under authority contained in Section 116, paragraph L, of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

It may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

TLF:lgd

1M.-6-'61.

ROBERT E. YORK
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Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

June 28, 1961.

COMMISSIONER'S BULLETIN NO. 75.

Product: A fire-retardant, incombustible tile, known as Gold Bond Fire Shield Solitude Acoustical Tile.

Applicant: National Gypsum Company,
Buffalo 2, New York.

Approval for use in the City of Boston is hereby granted for the above-mentioned product for a three-hour fire-resistive ceiling, subject to the following conditions:

1. The ceiling shall be constructed with openings not to exceed 25 per cent of the surface. These openings shall be properly protected as described in the U L test report file R4337-2.

2. All channels and suspension system supporting the tile shall be furnished by the manufacturer of the tile, and shall be concealed in the ceiling construction.

3. The ceiling construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the ceiling construction shall be shown on the plans submitted to the Building Department with application for permit in a particular case.

5. The ceiling tile shall bear the label of the Underwriters' Laboratories, Inc.

This approval is granted under authority contained in Section 116, paragraph L, of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

TLF:lgd

ROBERT E. YORK
BUILDING COMMISSIONER
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BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

June 29, 1961.

COMMISSIONER'S BULLETIN NO. 76.

Product: A fire-retardant, incombustible acoustical tile, known as Armstrong Acoustical Fire Guard.

Applicant: Armstrong Cork Company,
Lancaster, Pennsylvania.

Approval for use in the City of Boston is granted for the above-mentioned product for four-hour fire-resistive ceiling, subject to the following conditions:

1. The ceiling shall be constructed without openings, and shall be installed as described in Underwriters' Laboratories, Inc., Retardant Report 4177-2, March, 1959.

2. All channels, angles, etc., supporting the tile shall be concealed in the ceiling construction.

3. The ceiling construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the ceiling construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case.

5. The ceiling tile shall bear the label of the Underwriters' Laboratories, Inc.

This approval is granted under authority contained in Section 116, paragraph L, of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

TLF:lgd

1M.-6-'61.

ROBERT E. YORK
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BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

June 29, 1961.

COMMISSIONER'S BULLETIN NO. 77.

Product: A fire-retardant, incombustible acoustical tile known as Armstrong Acoustical Fire Guard.

Applicant: Armstrong Cork Company,
Lancaster, Pennsylvania.

Approval for use in the City of Boston is granted for the above-mentioned product for a two-hour fire-resistive ceiling, subject to the following conditions:

1. The ceiling shall be constructed without openings and shall be installed as described in Underwriters' Laboratories, Inc., Retardant Report 4177-3, June, 1959.

2. The suspension system supporting the tile shall be concealed in the ceiling construction.

3. The ceiling construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the ceiling construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case.

5. The ceiling tile shall bear the label of the Underwriters' Laboratories, Inc.

This approval is granted under authority contained in Section 116, paragraph L, of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

TLF: lgd

1M.-6-'01.

ROBERT E. YORK
BUILDING COMMISSIONER
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CITY OF BOSTON
BUILDING DEPARTMENT
OFFICE OF THE BUILDING COMMISSIONER
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BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

June 28, 1961.

COMMISSIONER'S BULLETIN NO. 78.

Product: A fire-retardant, incombustible acoustical tile known as Armstrong Acoustical Fire Guard.

Applicant: Armstrong Cork Company,
Lancaster, Pennsylvania.

Approval for use in the City of Boston is granted for the above-mentioned product for a one-hour fire-resistive ceiling, subject to the following conditions:

1. The ceiling shall be constructed without openings and shall be installed as described in Underwriters' Laboratories, Inc., Retardant Report 4177-4, September, 1959.

2. The suspension system supporting the tile shall be concealed in the ceiling construction.

3. The ceiling construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the ceiling construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case.

5. The ceiling tile shall bear the label of the Underwriters' Laboratories, Inc.

This approval is granted under authority contained in Section 116, paragraph L, of the Boston Building Code, Chapter 479, Acts of 1938, as amended and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

TLF:lgd

1M.-6-'61.

ROBERT E. YORK
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BUILDING DEPARTMENT

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ADDRESS REPLY TO THE BUILDING COMMISSIONER

June 29, 1961.

COMMISSIONER'S BULLETIN NO. 79.

Product: A fire-retardant, incombustible acoustical tile, known as Armstrong Acoustical Fire Guard.

Applicant: Armstrong Cork Company,
Lancaster, Pennsylvania.

Approval for use in the City of Boston is hereby granted for the above-mentioned product, for a four-hour fire-resistive ceiling, subject to the following conditions:

1. The ceiling shall be constructed with openings not to exceed 25 per cent of the surface area of the ceiling. These openings shall be protected, and the ceiling shall be installed as described in Underwriters' Laboratories, Inc., Retardant Report 4177-5, February, 1960.

2. All channels, angles, etc., supporting the tile shall be concealed in the ceiling construction.

3. The ceiling construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the ceiling construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case.

5. The ceiling tile shall bear the label of the Underwriters' Laboratories, Inc.

This approval is granted under authority contained in Section 116, paragraph L, of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

TLF:lgd

1M.-6-'61.

ROBERT E. YORK
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BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

June 28, 1961.

COMMISSIONER'S BULLETIN NO. 80.

Product: A fire-retardant, incombustible acoustical tile known as Armstrong Acoustical Fire Guard Lay In Units.

Applicant: Armstrong Cork Company,
Lancaster, Pennsylvania.

Approval for use in the City of Boston is hereby granted for the above-mentioned product for a two-hour fire-resistive ceiling, subject to the following conditions:

1. The ceiling shall be constructed without openings and shall be installed as described in Underwriters' Laboratories, Inc., Retardant Report File R4177-8, October, 1960.

2. The suspension system shall be Armstrong Acoustical Fire Guard Exposed Grid System as in the U L listing of the time design rated ceilings.

3. The ceiling construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the ceiling construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case.

5. The ceiling tile and the suspension system shall bear the label of the Underwriters' Laboratories, Inc.

This approval is granted under authority contained in Section 116, paragraph L, of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department,

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

TLF:lgd

1M.-6-'61.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
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EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT

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Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

JUL 17 1961

Commissioner's Bulletin # 81

Subject: Approval of copper tubes and pipes for use in plumbing

Approval for use in the City of Boston Types K and L of seamless copper tubes and standard solder joint fittings for interior installations involving general plumbing and water heating purposes is hereby granted, subject to the following provisos:

1. All seamless copper water tubes used in plumbing shall comply with the A.S.T.M. designation B88-55 specifications and with A.S.A. B12.23 dated 1955. Fittings may be of cast brass, or of wrought-copper or wrought bronze conforming to ASA B16.18-1950, or to B16.22-1951, respectively.

2. Only tubes made from 99 % copper, free from cuprous oxide, shall be used in the installation for plumbing purposes in the City of Boston

3. Type K and Type L hard or soft tempered tubes and soldered joints may be used for general plumbing and water heating purposes within limitations in Table 1 below.

4. Copper tubing shall not be used for underground service, or for draining of corrosive liquids.

5. Sizes 2" to 12" included may be used with soldered fittings only, for waste, vent and soil lines, and for other interior non-pressure installations.

6. Straight lengths or coiled tubing may be used.

1M.-6-'61.

ROBERT E. YORK
BUILDING COMMISSIONER
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CITY OF BOSTON
BUILDING DEPARTMENT

OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

July 6, 1961.

Commissioner's Bulletin No. 82

Product: Natco Vitrilite ''Fireproofer'' Facing Tile, designated as 6TC60 (3-cell) cored shells, unglazed, or glazed on one or both faces, to be used in bearing or nonbearing walls or partitions.

Applicant: Natco Corporation
327 Fifth Avenue
Pittsburgh, Pennsylvania

Local Office
476 Statler Building
Boston 16, Mass.

1. The use of Natco Vitrilite ''Fireproofer'' Facing Tile as designated herein is approved for the construction of bearing or non-earing walls and partitions in the City of Boston.

2. A fire resistance rating of two hours is approved for walls and partitions constructed of the designated tile.

3. All walls and partitions must be constructed in accordance with the specifications and directions of the tile manufacturer, and with the Boston Building Code.

4. The above tiles when delivered at the job shall be marked with the letters F P - 6TC60, preferably on each tile or on the outside of the package in which the tiles are delivered.

This approval is granted under authority contained in Section 116-L and Section 2407 of the Boston Building Code, Chapter 479 of the Acts of 1938, as amended, and is based on tests and other information on file in the Building Department.

This approval shall not be used for advertising purposes.

R. E. York,
Building Commissioner.

REY:lgd

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER
FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT

OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

July 25, 1961

Commissioner's Bulletin # 83

Product: A cementitious mixture designated as Type 1, 2 and 3, mixed with water and spray-applied directly to the beams and to the under surface of the steel floor units. Type 2 and 3 will be listed by the Underwriters, as is the presently listed Type 1 material, "Cementitious Mixture" Guide # 40U18.3 and inspected under label service.

Applicant: Zonolite Company
135 South LaSalle St.,
Chicago, Illinois.

Approval is hereby granted for use in the City of Boston of the above described product, subject to the following conditions:

1. This material shall comply with the Vermiculite Institute Specifications and shall be applied to the metal surfaces according to the manufacturer's specifications, which are on file in the Building Department, except as follows:

2. All surfaces of the metal deck shall be galvanized before the cementitious material is applied.

3. All other surfaces to be protected by the above described material shall be thoroughly cleaned of dirt, grease, oil, loose paint and any other materials which would prevent good adhesion of the sprayed-on material.

4. A metal floor deck, constructed of steel floor units $24\frac{1}{4}$" wide, alternating two 16 gauge fluted sections to one cellular section fabricated on #18 gauge galvanized fluted steel, top section spot-welded to #16 gauge galvanized steel bottom flat sheets, to form the cellular unit, welded to supports 12" o.c., adjacent units button-punched or welded 12" o.c., and when the top deck is covered with $2\frac{1}{2}$" of sand-gravel-concrete mix, consisting of one cement to $3\frac{1}{2}$ parts of torpedo sand and $4\frac{1}{2}$ parts of gravel, having a minimum strength of f'_c of 2500 lbs. sq. in., and the underside of the deck is covered with a cementitious mixture 9/16" thick, then the deck is approved for a fire resistive rating of one and one half ($1\frac{1}{2}$) hours, and the steel beam, with a cover of 1-3/8" shall have a rating of two hours.

5. A metal floor deck, constructed of two types of floor units, cellular and fluted, each 24" wide. The cellular floor units, fabricated from one #18 gauge galvanized fluted steel top sections, spot welded to a #16 gauge galvanized steel bottom flat sheet alternating with two 16 gauge galvanized fluted steel sections, welded to supports 12" o.c., adjacent units button punched or welded 12" o.c., and when top of the deck is covered with $2\frac{1}{2}$" of sand, gravel, concrete, 1 cement to 2-3/4" sand and $3\frac{1}{2}$ gravel mix, with a stress of f'_c of 3000#/p.s.i. and the underside of the deck is covered with 7/8" of the cementitious material, then the deck is approved for a fire resistance rating of three hours, the beam, if covered with 1-7/8" of the same cementitious material, shall have a rating of three hours.

6. Steel beams protected with materials of either type 1, 2 or 3 cementitious mixture $1\frac{1}{4}$" thick, shall have a fire rating of four hours. Beams approved in this manner shall not conflict with given fire resistance ratings as approved by the Underwriters Laboratories for the tested metal floor decks and beam construction in their reports submitted and on file in this department.

7. Where heater ducts and junction boxes are incorporated in the metal deck they shall receive 1" and $1-\frac{1}{2}$" of above cementitious material respectively, for a three hour rating.

8. The material shall be marked, stamped or labelled, so as to be readily identified when delivered at the site.

9. The provisions of this bulletin do not alter in any way any provisions of the Building Code or of the Commissioner's Bulletins as far as may be applicable to this or similar types of construction.

This approval is granted under authority contained in Section 116(L) of Chapter 479, Acts of 1938 as amended, and is based upon reports of tests and other data submitted and on file in the Building Department.

This approval may not be used for advertising purposes.

R.E. York
Building Commissioner

REY:FJC:lgd

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER
FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT

OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

August 4, 1961.

COMMISSIONER'S BULLETIN NO. 84.

Product: A fire retardant, incombustible, acoustical tile, known as Gold Bond, Fire-Shield Solitude Grid Panels, 24" x 48" by 5/8" thick, listed by the underwriters under "Acoustical Materials" (Guide No. 40U18.1) and inspected under label service of Underwriters' Laboratories, Inc.

Applicant: National Gypsum Company, Research Division,
1650 Military Road,
Buffalo 17, New York.

Approval for use in the City of Boston is hereby granted for the above-named product for a two-hour, fire-resistive floor and ceiling construction, subject to the following conditions.

1. The ceiling shall be constructed without openings and shall be installed as described in U. L. Test Report, File R4437.6, May, 1961.

2. The suspension system shall be flange-clamp rigid grid fire-rated exposed suspension system as in U. L. listing of the time design rated ceiling.

3. The ceiling construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the ceiling construction shall be shown on the plans submitted to the Building Department with application for permit in a particular case.

5. The ceiling tile shall bear the label of the Inderwriters' Laboratories, Inc.

This approval is granted under authority contained in Section 116, Paragraph L, of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used for advertising purposes.

Robert E. York,
Building Commissioner.

1M.-6-'61.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
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FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT
OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

August 16, 1961.

COMMISSIONER'S BULLETIN NO. 85.

Product: A fire retardant, acoustical tile 12" x 12" x 3/4" thick, with either kerfed edges and different pattern or kerfed edges and fissured pattern, or 12" x 12" x 5/8" thick tile with tongue and groove on two sides and kerged edges on the other two sides, and with a small random hole pattern, all three as listed under label service of Underwriters' Laboratories Inc., Guide No. 40U18.1.

Applicant: Celotex Corporation, Chicago, Illinois.
Boston District Office: 907 Park Square Building, Boston 16.

Approval for use in the City of Boston is hereby granted for the above-named product for a two-hour, fire-resistive floor and ceiling construction, subject to the following conditions:

1. The ceiling shall be constructed without openings and shall be installed as described in Underwriters' Laboratories Test Reports, File R-4349.3 April 27, 1961, File R-4349-4 February 10, 1961 and File R-4349-2 December 14, 1960 respectively.

2. The suspension system shall be roll-form, T & T, fire-rated concealed suspension system as in Underwriters' Laboratories listing at the time design rated ceiling.

3. The ceiling construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The detail of the ceiling construction shall be shown on the plans submitted to the Building Department with application for permit in a particular case.

5. The ceiling tile shall bear the label of the Underwriters' Laboratories, Inc.

This approval is granted under authority contained in Section 116 (1) of the Boston Building Code, Chapter 479, Acts of 1938 as amended, and is based upon reports of tests and other data submitted and on file in the Building Department. This report may not be used for advertising purposes.

R. E. York,
Building Commissioners.

DM:bdf

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER
FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT
OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

August 28, 1961.

COMMISSIONER'S BULLETIN NO. 86.

Product: An incombustible fire-retardant tile known as "Lo-Tone Acoustical Tile," 12"x12"x5/8" thick, listed by the underwriters under acoustical materials (guide No. 40U18.1) and inspected under label service of Underwriters Laboratories, Inc.

Applicant: Wood Conversion Company,
St. Paul, Minnesota.

Approval for use in the City of Boston is hereby granted for the above-mentioned product for a two-hour fire-resistive floor and ceiling construction, subject to the following conditions:

1. The ceiling shall be made without openings or shall be made continuous over and around the recessed light fixtures by means of the light fixture boxes formed by 5/8" thick sections of the basic board from which the acoustical tiles were made, and shall be installed as described in U.L. Test reports file No.R4355-3.

2. All channels and suspension system supporting the tile shall be furnished by the manufacturer of the tile and shall be concealed in the ceiling construction.

3. The ceiling construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the ceiling construction shall be shown on the plans submitted to the Building Department with application for permit in a particular case.

5. The ceiling tile shall bear the label of the Underwriters' Laboratories, Inc.

This approval is granted under authority contained in Section 116, paragraph L, of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

It may not be used in any way for advertising purposes.

TLF:cmcl

R. E. York,
Building Commissioner.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER
FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
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Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

August 31, 1961.

COMMISSIONER'S BULLETIN NO. 87.

Product: An incombustible fire-retardar acoustical tile nominally 24x48" and 24x24" by 5/8" thick. The tile is either fissured or needle-perforated pattern and listed in the building material list of Underwriters' Laboratories, Inc., under the classification "acoustical material" (guide No.40U18.1) and inspected under label service.

Applicant: Wood Conversion Company,
St. Paul, Minnesota.

Approval for use in the City of Boston is hereby granted for the above-named product for a two-hour, fire-resistive floor and ceiling construction subject to the following conditions:

1. The ceiling shall be constructed without openings and shall be installed as described in U.L.Test reports file No. R4355-4, June 5, 1961.

2. The suspension system shall be Chicago metallic sash or flange-clamp rigid grid fire-rated exposed suspension system as in U. L. listing of the time design rated ceiling.

3. The ceiling construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the ceiling construction shall be shown on the plans submitted to the Building Department with application for permit in a particular case.

5. The ceiling tile shall bear the label of the Underwriters' Laboratories, Inc.

This approval is granted under authority contained in Section 116, paragraph 1, of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

It may not be used in any way for advertising purposes.

DM:cmcl

R. E. York,
Building Commissioner.

1M.-6-'61.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER
FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT

OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

October 4, 1961.

COMMISSIONER'S BULLETIN NO. 88.

Product: An incombustible fire-retardant tile known as Armstrong Acoustical Fire Guard, 24" x 48" by 5/8" thick, listed by the underwriters under acoustical materials (Guide No. 40U18.1), and inspected under the label service of U.L., Inc.

Applicant: Armstrong Cork Company,
Lancaster, Pennsylvania.

Approval for use in the City of Boston is hereby granted for the above-mentioned product for a two-hour protection of the floor and a three-hour protection of the beam against the passage of flame and dangerous heat transmission, and subject to the following conditions:

1. The ceiling shall be constructed without openings, if openings are made for light fixtures or ducts the area of the openings shall not exceed more than 25 per cent of the area of the room. These openings shall be fire protected by making them continous with the ceiling over and around the recessed light fixtures with boxes formed by 5/8" thick sections of the same basic material of which the tile is made or shall be installed as described in U.L. Report file No. R4177-10.

2. All channels and suspension system supporting the tile shall be furnished by the manufacturer of the tile, and shall be Armstrong Acoustical Fire Guard Lay-in Grid fire rated exposed suspension system as in U.L. listing of time-design rated ceilings for floor and ceiling design No. 30.

3. The ceiling construction shall comply otherwise with applicable provisions of the Boston Building Code.

4. The details of the ceiling construction shall be shown on the plans submitted to the Building Department with application for permit in a particular case.

5. The ceiling tile shall bear the label of the Underwriter's Laboratories, Inc.

COMMISSIONER'S BULLETIN NO. 88 (Con'd)

This approval is granted under authority contained in Section 116, paragraph L, of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

It may not be used in any way for advertising purposes.

ROBERT E. YORK,
Building Commissioner.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER
FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT
OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

October 18, 1961.

COMMISSIONER'S BULLETIN NO. 89.

Product: A cementitious mixture for fire protection of metal surfaces, known as Firecode. It may be either trowel-applied or spray-applied to the metal surfaces. When trowel-applied as a mill-mixed plaster, it is designated as Type "S" and when it is spray-applied the mixture is designated as Type "D", and both are identified by the Underwriters Laboratories, Inc. as "Cementitious Mixture" listed under Guide No. 40U18.3.

Applicant: United States Gypsum Company,
Chicago, Illinois.

Approval is hereby granted for use in the City of Boston of the above-described product, subject to the following conditions:

1. This material shall comply with the method and the proportions as described in the reports by the Underwriters Laboratories, Inc. and shall be applied to the metal surfaces according to the manufacturer's specifications which are on file in the Building Department. The fireproofing of the floor and beams shall also comply to the thickness given below depending on the type of construction.

2. A cellular metal deck constructed as described in Underwriters Laboratories, Inc., Report R4142-1 of August 12, 1959, protected on the underside by $\frac{1}{2}$" of Firecode spray shall have a rating of 2 hours. The beam supporting the floor wrapped with wire lath protected by 1" of Firecode type "S" shall have a rating of 3 hours.

3. A cellular metal deck constructed as described in Underwriters Laboratories, Inc., Report R4142-3 of April 18, 1960, protected on the underside by 1" thickness of Firecode spray shall have a rating of 3 hours. The beams supporting the floor having a thickness of Firecode spray 1 3/4" thick, shall have a rating of 4 hours.

4. A metal deck floor constructed of alternating fluted and cellular units as described in Underwriters Laboratories, Inc., Report R4142-2 of March 25, 1960, protected on the underside by 3/4" of Firecode spray shall have a rating of 2 hours. The beams protected by 1 13/16" thickness of Firecode plaster on wire lath wrapped around the beam shall have a rating of 4 hours.

COMMISSIONER'S BULLETIN NO. 89. (Cont'd)

5. A cofar metal deck constructed as described in Underwriters Laboratories, Inc., Report R4142.4 of May 16, 1960, protected on the underside by 3/4" of Firecode shall have a rating of 3 hours. The beam protected by 1" of Firecode plaster on metal lath wrapped around the beam shall have a rating of 4 hours protection.

6. Where heater ducts and junction boxes are incorporated in the metal deck they shall receive 1" and 1½" of above cementitious material respectively.

7. The material shall be marked, stamped, or labelled, so as to be readily identified when delivered at the site.

8. The provisions of this bulletin do not alter in any way any provisions of the Building Code or of the Commissioner's Bulletin as far as may be applicable to this or similar types of construction.

This approval is granted under authority contained in Section 116(L) of Chapter 479, Acts of 1938, as amended, and is based upon reports of tests and other data submitted and on file in the Building Department.

This approval may not be used for advertising purposes.

R. E. York,
Building Commissioner.

REY:kc

1M.-6-'61.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER
FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT

OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO THE BUILDING COMMISSIONER

October 30, 1961.

COMMISSIONER'S BULLETIN NO. 90.

Product: An incombustible fire-retardant acoustical tile, 12" x 12" x 3/4" thick, with kerfed edges, known as "Acousti-Celotex Protectone Striatone Plaid Natural Fissured," listed by Underwriters' Laboratories, Inc., as acoustical materials (Guide No. 40 U18.1.)

Applicant: The Celotex Corporation,
120 South LaSalle Street,
Chicago, Illinois.

Approval for use in the City of Boston of the above-described product for a two-hour fire-resistive floor and ceiling construction, subject to the following conditions:

1. The ceiling shall be made without openings or shall be made continuous over and around by means of light fixture boxes formed by 3/4" thick sections of the basic board from which the acoustical tiles were made, listed by the Underwriters' Laboratories, Inc. Guide No. 40 U18.2U, and shall be installed as described in Underwriters Laboratories Inc., test report R4349-6 of June 30, 1961.

2. All channels and suspension system supporting the tile shall be furnished by the manufactured of the tile and shall be concealed in the ceiling construction.

3. The ceiling construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the ceiling construction shall be shown on the plans submitted to the Building Department with application for permit in a particular case.

5. The ceiling tile shall bear the label of the Underwriters Laboratories, Inc.

COMMISSIONER'S BULLETIN NO. 90. October 30, 1961.

This approval is granted under the authority contained in Section 116, paragraph L, of the Boston Building Code, Chapter 479, Acts of 1938 as amended, and is based upon tests and other information on file in this department.

It may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT
OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

November 15, 1961
(Revised May 27, 1964)

COMMISSIONER'S BULLETIN NO. 91

NOTE: This bulletin supersedes Bulletin No. 83 dated July 25, 1961.

Product: MonoKote (MK-3), a fire-retardant, incombustible material used to fire protect metal surfaces, and composed of a proprietary cementitious mixture listed by Underwriters Laboratories under Guide No. 40U18.3. Mixed with water, it is sprayed directly upon the metal surfaces to be protected.

Applicant: Zonolite Company
135 South LaSalle Street
Chicago, Illinois

Approval is hereby granted for use in the City of Boston of a floor construction embodying MonoKote (MK-3) as the fire-resistant insulating material subject to the following conditions:

1. MonoKote (MK-3) shall comply with the Vermiculite Institute specifications and shall be applied to the metal surfaces according to the manufacturer's specifications, which are on file in the Boston Building Department, except as follows:

2. All surfaces of the metal deck shall be galvanized before the MonoKote is applied.

3. All other surfaces to be protected by MonoKote shall be thoroughly cleaned of dirt, dust, grease, oil, loose paint, and other materials which would prevent good adhesion of the sprayed-on mixture.

4. A metal deck floor constructed of alternating fluted and cellular units as described in Underwriters Laboratories, Inc., report R4339-1, protected on the underside with 7/8" of MonoKote and on top with 2-1/2" of not less than 3,000 psi concrete, is approved for a fire resistance rating of three hours. Beams supporting the floor protected by 1-1/4 of MonoKote are approved for a rating of four hours.

5. For the same construction as in Item 4, but having the underside of the deck covered with 1/2" of MonoKote as described in Underwriters Laboratories report R-4339-5, the deck is approved for a rating of two hours. Beams protected with 1" of MonoKote are approved for a rating of three hours.

6. A metal deck constructed of steel floor units of the type listed by H. H. Robertson Company as RK-18-16 gauge, welded to supports 12" o.c., and button punched or welded to adjacent units 36" o.c., topped with 2-1/2" of 3,500 psi concrete, and with MonoKote filling the flutes and covering the underside of the deck to an overall depth of 1/2", as described in Underwriters Laboratories report R4339-3, is approved for a fire resistance rating of three hours. Beams supporting the floor, covered with 1-1/4" of MonoKote are approved for a rating of four hours.

7. Where heater ducts and junction boxes are incorporated in the metal deck they shall receive 1" and 1 1/2" of MonoKote, respectively, for a three-hour rating.

8. All details of floor construction shall be shown on the plans accompanying an application for permit to construct a building incorporating any of the floor systems described above herein.

9. MonoKote (MK-3) shall be marked, stamped, or labeled so as to be readily identified when delivered to the site.

10. The provisions of this bulletin do not alter in any way provisions of the Building Code or of the Commissioner's bulleting as far as may be applicable to this or similar types of construction.

This approval is granted under authority contained in Section 116, Paragraph L, of the Boston Building Code, Chapter 479, Acts of 1938 as amended, and is based upon tests and other information on file in this department.

This approval may not be used for advertising purposes.

Robert E. York,
Building Commissioner

REY/pas

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT
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Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

December 5, 1961.

COMMISSIONER'S BULLETIN NO. 92.

Product: Lightweight concrete masonry units for interior bearing or nonbearing partitions known as Glazon prefaced structural masonry units.

Applicant: Glazon Corporation
666 Fifth Avenue
New York 19, New York

Approval for use in the City of Boston is granted to the Glazon concrete masonry block for the construction of bearing or nonbearing interior partitions only.

The concrete unit should comply otherwise with all of the provisions of the Boston Building Code.

This approval is granted under authority contained in Section 116, Paragraph L, Boston Building Code, Chapter 479, Acts of 1938 as amended, and is based upon tests and other information on file in the Building Department.

This approval may not be used in any way for advertising purposes.

Robert E. York,
Building Commissioner.

ROBERT E. YORK
BUILDING COMMISSIONER
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DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT
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Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

January 12, 1962.

COMMISSIONER'S BULLETIN NO. 93.

This bulletin supersedes Bulletin No. 68 dated May 17, 1961.

Product: Spraycraft, a fire-retardant, incombustible material, used to fire-protect metal surfaces, and composed of mineral fibers, with asbestos as a major ingredient; presently designated as Type 1132 and listed as fiber (sprayed) Guide No. 40U18.6 and inspected under label service, a binder and preservative is applied to the metal surface with a spray gun, after a priming coat or adhesive is first applied.

Applicant: Smith and Kanzler Corporation
Linden, New Jersey.

Approval is hereby granted for use in the City of Boston of a floor construction embodying spraycraft as the fire-resistant insulating material, subject to the following conditions:

1. Spraycraft shall be applied to the metal surfaces according to the manufacturer's specifications, which are on file in the Boston Building Department, except as follows:

2. All surfaces of the metal deck shall be galvanized before spraycraft is applied.

3. All other surfaces to be protected by spraycraft shall be thoroughly cleaned of dirt, dust, grease, oil, loose paint, and other materials which would prevent good adhesion of the sprayed on mixture.

4. A metal deck constructed of fluted steel floor units, 24" wide, of No. 18U.S.S. gauge top section and No. 16U.S.S. gauge bottom section, sheet welded together to form a unit similar to the Robertson RK 18-16 units, welded to support 12" O.C. and adjacent units button-punched 12" O.C., as described in Underwriters Laboratories, Inc., report R2923-4-, protected on the underside with $\frac{1}{2}$" of spraycraft, and on top of the deck with $2\frac{1}{2}$" of concrete of 4,000 lbs. per sq. inch f'c is approved for a fire-resistance rating of four hours. Beams supporting the floor protected by 1 7/8" of spraycraft are approved for a rating of four hours.

5. A metal deck floor consisting of cellular and fluted units, 24 1/4" wide, the fluted units fabricated of No. 16 gauge galvanized fluted steel, the cellular floor units fabricated of No. 18 gauge galvanized fluted steel bottom sections, of the types described in Underwriters Laboratories report R2923-7, the underside fire-protected by ½" of spraycraft and the top of the deck covered by 2½" of concrete of approximately 4,000 lbs. per sq. inch f'c is approved for a rating of 3 hours. The beam supporting the floor protected with 1 1/16" of spraycraft is approved for a rating of 4 hours.

6. A metal deck floor consisting of fluted and cellular units, 18" wide, the fluted units fabricated of No. 16 gauge galvanized steel and the cellular form units fabricated of No. 16 gauge galvanized steel, described in Underwriters Laboratories report R2923-9, the underside fire-protected by 9/16" of spraycraft and the top of the deck with 2½" of 3,700 lbs. 1 sq. inch of concrete is approved for a fire rating of three hours. The beam protected iwth 1 5/16 inch of spraycraft on wire lath and plaster is approved for a fire rating of three hours.

7. Where heater ducts and junction boxes are incorporated in the metal deck, they shall receive 1" and 1½" of spraycraft respectively, for a three-hour rating.

8. The material shall be marked, stamped, or labeled so as to be readily identified when delivered at the site.

9. Spraycraft shall not be used as a fire retardant on interior columns, except in the upper portion adjacent to the ceilings, or on any exterior beams or columns exposed to the weather.

10. All details of floor construction shall be shown on the plans accompanying an application for permit to construct a building incorporating any of the floor systems described above herein.

11. The provisions of this bulletin do not alter in any way other provision in the Building Code or in the Commissioner's Bulletins as far as may be applicable to this or similar types of construction.

This approval is granted under authority contained in section 116(L) of Chapter 479, Acts of 1938, as amended, and is based upon reports of tests and other data submitted and on file in the Building Department.

This approval may not be used for advertising purposes.

Robert E. York,
Building Commissioner.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

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Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

February 23, 1962.

COMMISSIONER'S BULLETIN NO. 94.

Product: Fenestra floor panel floor system with floor panels and steel beams. Fire protected by Cafco "Blaze-Shield" plastered ceiling.

Applicant: Fenestra Incorporated Product Engineering and Research Department, Building Panel Division, Buffalo, New York.

Approval for use in the City of Boston of the above-named product is granted subject to the following coditions:

1. The structural system shall be composed of a Fenestra steel cellular decking of Fenestra Type 1-½D - 18 ga. hat section and a 16 ga. flat plate attached to the bottom of the panels, the ceiling side of the plate is fireproofed, with a 9/16" thickness of Cafco Blaze-Shield.

2. The metal deck shall be constructed as specified in Commissioner's Bulletin No. 44.

3. The Cafco Blaze-Shield shall be applied to the deck according to the specifications of the manufacturer which are on file with the Boston Building Department.

4. All surfaces of the metal deck shall be galvanized before Cafco Blaze-Shield is applied.

5. The Fenestra metal floor deck when constructed with panels and deck with the min. gauges as given in the test report by the Fire Prevention Research Institute No.SFT-7 of September 3, 1960, and when the deck is covered with 9/16" of Cafco Blaze-Shield, shall have a rating of 3 hours. The beam supporting the deck when covered with 1½" Cafco Blaze-Shield shall have a rating of 4 hours.

6. The floor shall have a 2½" concrete of a least 3,000 lbs. per sq. inch on top of the deck.

7. All details of floor construction shall be shown on the plans accompanying an application for permit to construct a building incorporating the floor system described above herein.

8. The provisions of this bulletin do not alter in any way other provisions in the Building Code or in the Commissioner's Bulletins as far as they may be applicable to this or similar types of construction.

COMMISSIONER'S BULLETIN NO. 94.

This approval is granted under authority contained in section 116 (L) of Chapter 479, Acts of 1938, as amended, and is based upon reports of tests and other data submitted and on file in the Building Department.

This approval may not be used for advertising purposes.

Robert E. York,
Building Commissioner.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT

OFFICE OF THE BUILDING COMMISSIONER

Ninth Floor, City Hall Annex

BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

March 7, 1962.

COMMISSIONER'S BULLETIN NO. 95.

(Supersedes Bulletin No. 72)

Product: "Cafco-Spray," also known as "Cafco Blaze-Shield," a fire-retardant incombustible material used to fire-protect metal surfaces and composed of a mixture of mineral wool asbestos and cement, in proper proportions, mixed with water and applied to the metal surface with a spray gun, after a prining coat or adhesive is first applied.

Applicant: Columbia Acoustic and Fireproofing Company
Stanhope, New Jersey.

Approval for use in the City of Boston of the above-named product is granted, subject to the following conditions:

1. Cafco Blaze-Shield shall be applied to the metal surfaces according to the specifications of the manufacturer and in accord with the requirements of this bulletin.

2. All surfaces of the metal deck shall be galvanized before the "Cafco Blaze-Shield" is applied.

3. All other surfaces to be protected by "Cafco Blaze-Shield" shall be thoroughly cleaned of dirt, dust, grease, oil, loose paint, and other materials which would prevent good adhesion of the sprayed-on fibres.

4. A metal deck floor constructed of fluted and cellular steel floor units as described in the Canadian Underwriter's Report R 200 application 59T 196, April 25, 1960. Protected on the underside with 1/2" of Cafco Blaze-Shield and on the top of the deck with $2\frac{1}{2}$" of concrete of 3,000 pounds per square inch f'c. Approved for a fire resistance rating of four hours. Beams supporting the floor deck protected by $1\frac{1}{2}$" of Cafco Blaze-Shield approved for a rating of four hours.

COMMISSIONER'S BULLETIN NO. 95. March 7, 1962.

5. A metal floor deck constructed with the same panels and arrangement as described in Underwriter's Report C R 200 application No. 60T56, December 1, 1960, but protected on the underside by 1/4" of Cafco Blaze-Shield and the beam supporting the deck by 1 1/16" of Cafco Blaze-Shield. The beam and ceiling are approved for a rating of three hours.

6. A metal deck floor constructed of steel floor units similar to the Rosco Type D steel panels covered on top with 2½" of concrete having a strength of 3,000 pounds per square inch of f'c, as described in C R report - 193 application No. 57T128B, and having a cover of 7/16" of Cafco Blaze-Shield on the under side of the deck. Approved for a rating of three hours. The beam supporting the floor covered with 1 7/16" of Cafco Blaze-Shield is approved for a rating of three hours.

7. Open web steel joists supporting a metal deck floor or roof and protected on the under side with "Carco" spray shall have a rating of two hours, provided it is constructed as follows:

The steel joists shall be of the open web design and shall have rigid bridging not to exceed 8'0" o.c. The corrugated shell steel form units on top of the joists shall be No. 28 U.S. guage uncoated steel, the kind listed by the Underwriters Laboratories, Inc. under Guide No. 40U11.19. The washers used in welding the steel units to the joists shall be No. 16 U. S. gauge uncoated steel, 1 x 1-1/8" with 3/8" diameter holes, formed to the contour of the units. It shall have a 2½" concrete topping of 1-2-3.4 mix. The wire fabric placed in the concrete topping shall be at least 6 x 6" mesh of No. 10 U. S. gauge uncoated wire. The under side shall have 3/8" gypsum lath used as a base for the "Cafco" spray. The gypsum lath shall be applied to channels formed of No. 25 U. S. gauge galvanized steel. The channels shall be attached with No. 18 U. S. gauge galvanized soft annealed steel to the bottom chords of the joists. The nails used to attach the lath to the channels shall be of No. 12 U. S. gauge wire with two ½" diameter heads and with barbed shank. The reinforcing wire to reinforce the sprayed fibre material may be of No. 20 U. S. guage galvanizing steel. The fibres and adhesive are as listed in the Underwriters Laboratories, Inc., under label service as fibre (sprayed) Guide No. 40U8.6.

8. A metal deck constructed of two types of floor units consisting of a blend "Holorib reinforcing floor units" and "Elect-re-form units" as manufactured by Fenestra, Inc. The Holorib reinforcing floor units shall be formed from galvanized steel at least 0.036" in thickness. The Elect-re-form units shall be formed from galvanized steel at least 0.52" in thickness and when provided with electrical raceways they shall be formed from galvanized steel at least 0.067" in thickness spot-welded to the upper surface of the valleys. The top shall be covered with a 2½" of concrete of 4,000 pounds per square inch cu f'_c after a prefabricated wire grid of No. 10 gauge 6 x 6" inch mesh is placed on top of the units. Negative steel not less than ½" round reinforcing bars be placed over the beams 3/4" from the top of the concrete. When the under side of the panels are covered with 3/8" of Cafco Blaze-Shield it shall be approved for two hours. The beams covered with 1" of Cafco Blaze-Shield directly to the steel or when wrapped with 3/8" rib lath and covered with 1" of Cafco Blaze-Shield shall be approved for four hours. The floor system shall be constructed as described in C R report 200-6 application No. 60T97 of November 17, 1961, and shall comply with the specifications of the manufacturer.

9. The details of floor construction and fireproofing shall be shown in the construction plans presented for approval and building permit.

10. "Cafco Blaze-Shield" shall be marked, stamped, or labeled so as to be readily identified when delivered at the site.

11. "Cafco Blaze-Shield Spray" shall not be used as a fire retardant on interior columns, except in the upper portions adjacent to the ceilings, or on any exterior beams or columns exposed to the weather.

12. The provisions of this bulletin do not alter in any way any other provision in the Building Code as may be applicable to this or similar types of construction.

This approval is granted under the authority contained in section 116 (1) of Chapter 479, Acts of 1938, as amended, and is based upon reports of tests and other data submitted and on file in the Building Department.

This approval may not be used for advertising purposes.

R. E. York,
Building Commissioner.

DM/kc

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT
OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

March 13, 1962.

COMMISSIONER'S BULLETIN NO. 96.

Product: A fire-retardant material, known as asbestospray, composed of asbestos and other mineral fibers in proper proportions mixed with water and applied to metal surfaces to be fire protected with a spray gun after a priming coat or adhesive is first applied.

Applicant: Asbestospray Corporation,
Newark, New Jersey.

Approval for use in the City of Boston of the above-named product is granted, subject to the following conditions:

1. Asbestospray shall be applied to the metal surfaces according to the specifications of the manufacturer and in accord with the requirements of this bulletin.

2. All surfaces of the metal deck shall be galvanized before asbestospray is applied.

3. All other surfaces to be protected with asbestospray shall be thoroughly cleaned of dirt, dust, grease, oil, loose paint, and other materials which would prevent good adhesion of the sprayed-on fibers.

4. A metal deck floor composed of steel floor units as described in the Underwriters' Laboratories, Inc., Report R3372-3 of September 20, 1957, having a 2½" concrete of 3,000 pounds per square inch f'c on top of the deck and protected on the underside with 5/8" of asbestospray shall have a rating of four hours, The beams supporting the deck protected with 1 1/8" of vermiculite plaster on wire lath wrapped around the beam shall have a rating of four hours.

5. The details of floor construction and fireproofing shall be shown in the construction plans presented for approval and building permit.

6. Asbestospray shall be marked, stamped, or labeled so as to be readily identified when delivered at the site.

7. Asbestospray shall not be used as a fire retardant on interior columns, except in the upper portions adjacent to the ceiling, or on any exterior beams or columns exposed to weather.

8. The provisions of this bulletin do not alter in any way any other provisions in the building code as may be applicable to this or similar types of construction.

This approval is granted under the authority contained in Section 116 (L) of Chapter 479, Acts of 1938, as amended, and is based upon reports of tests and other data submitted and on file in the Building Department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

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BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

April 11, 1962.

COMMISSIONER'S BULLETIN NO. 97.

Product: A fire-retardant incombustible acoustical tile 24" x 48" x 5/8 inches thick. Listed by the Underwriters' Laboratories Inc. under acoustical materials guide No. 40U18.1 and inspected under label service.

Applicant: Wood Conversion Company,
St. Paul, Minnesota.

Approval for use in the City of Boston is hereby granted for the above-named product for a one and one-half hour fire resistive floor and ceiling construction, subject to the following conditions:

1. The ceiling shall be constructed without openings and shall be installed as described in Underwriters' Laboratories Test Report File R4335-6, January 30, 1962. Without recessed light fixtures.

2. The suspension system shall be as described in the Underwriters' Laboratories Report File R4355-5.

3. The ceiling construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the ceiling construction shall be shown on the plans submitted to the Building Department with application for permit in a particular case.

5. The ceiling tile shall bear the label of the Underwriters' Laboratories Inc.

This approval is granted under authority contained in Section 116, Paragraph L, of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

R. E. York,
Building Commissioner.

DM/kac

ROBERT E. YORK
BUILDING COMMISSIONER
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BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

April 11, 1962.

COMMISSIONER'S BULLETIN NO. 98.

Product: A fire-retardant incombustible acoustical tile 24" x 48" x 5/8 inches thick. Listed by the Underwriters' Laboratories Inc., under acoustical materials guide No. 40U18.1 and inspected under label service.

Applicant: Wood Conversion Company,
St. Paul, Minnesota.

Approval for use in the City of Boston is hereby granted for the above-named product for a two-hour fire-resistive floor and ceiling construction, subject to the following conditions:

1. The ceiling shall be constructed without openings or shall be made continuous over and around the recessed light fixtures by means of light fixture boxes formed of 5/8-inch thick sections of building units of the same incombustible material the tiles are made of, and shall be installed as described in Underwriters' Laboratory Test Report File R4355-5, December 22, 1961.

2. The suspension system shall be as described in the Underwriters' Laboratories Report File R4355-5.

3. The ceiling construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the ceiling construction shall be shown on the plans submitted to the Building Department with application for permit in a particular case.

5. The ceiling tile shall bear the label of the Underwriters' Laboratories, Inc.

This approval is granted under authority contained in Section 116, paragraph L, of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

DM/kac

R. E. York,
Building Commissioner.

ROBERT E. YORK
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ADDRESS REPLY TO
THE BUILDING COMMISSIONER

April 12, 1962.

COMMISSIONER'S BULLETIN NO. 99.

Product: 5/8-inch Firecode 60 Sheetrock Wallboard as a ceiling for the fire protection of wood joists floor construction.

Applicant: U. S. Gypsum Company,
Chicago, Illinois.

The use in the City of Boston of the above-named product as a component of a floor and ceiling assembly is approved. The assembly is classified and approved for fire-protective and fire-resistive purposes, as provided in Section 2201 (a) of the Boston Building Code, for a one-hour protection against the passage of flame and dangerous transmission of heat.

The above-named product, when used as an interior finish on one side of wood joist or rafter ceilings, is approved as affording 16 minutes protection for the combustible supports.

1. The floor and ceiling assembly shall be constructed without openings and as otherwise described in Underwriters' Test Report File 1319-2-3, June 5, 1962, for a live load not to exceed 70 pounds per sq. ft.

2. The ceiling and floor construction shall comply otherwise with applicable provisions of the Boston Building Code.

3. The details of the ceiling and floor construction shall be shown on the plans submitted to the Building Department with application for permit in a particular case.

4. The 5/8-inch Firecode 60 Sheetrock when delivered at the job shall be stamped and marked so as to be readily identified.

This approval is granted under the authority contained in Section 116 (L) of Chapter 479, Acts of 1938, as amended, and is based upon reports of tests and other data submitted and on file in the Building Department.

This approval may not be used for advertising purposes.

R. E. York,
Building Commissioner.

DM/kac

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BUILDING DEPARTMENT
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ADDRESS REPLY TO
THE BUILDING COMMISSIONER

June 1, 1962.

COMMISSIONER'S BULLETIN NO. 100.

Product: "Floor and Modified Beam Assembly" - A fire-retardant (Sprayed Limpet Asbestos) protecting the underside of steel deck floors and the modified beams supporting them.

Applicant: Keasby and Mattison Company, Ambler, Pennsylvania, submitting test of Atlas Asbestos Co. L'td. Montreal, Quebec, by Underwriters' Laboratories of Canada.

Use: The floor and ceiling design covered by this bulletin is intended for use in general construction where a three-hour fire retardant rating is required, where it is found necessary to pass air-conditioning ductwork through the web of beams or girders.

Approval for use in the City of Boston is hereby granted for the above-named assembly, subject to the following conditions:

1. The floor and ceiling design is judged to be capable of providing protection against the passage of flames and dangerous transmission of heat for three hours. The beam protection design is judged to qualify for a four-hour rating.

2. The assembly shall be constructed as described in Underwriters' Laboratories of Canada report: referal - Canadian Retardant 166-5, Application No. 60T139 dated July 11, 1961. Design No. C113.

3. The modified beams or girders shall not be cut for clearance of pipes, ducts, or for other reasons, in such a way as to impair their strength unless provision therefore has been made in the design as required by Section 2815 - (b) of the Boston Building Code.

4. The details of the assembly construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case.

This approval is granted under authority contained in Section 116, paragraph L, of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

TLF/kac

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ADDRESS REPLY TO
THE BUILDING COMMISSIONER

June 28, 1962.

COMMISSIONER'S BULLETIN NO. 101.

Product: A floor and ceiling assembly composed of a concrete floor supported by a blend of cellular and fluted-steel floor units and a steel beam, protected with sprayed fiber applied directly to the steel surfaces.

Applicant: Keasbey and Mattison Company
Ambler, Pennsylvania

Approval for use in the City of Boston of the above-named assembly for a four-hour fire-resistive rating is granted subject to the following conditions:

1. The assembly shall be composed of materials conforming in quality and physical properties as those used in test report R 3705-7, Underwriters' Laboratories, Inc., dated December 18, 1959, and constructed and installed as directed in that report.

2. The metal deck shall be constructed and engineered by a manufacturer listed in Commissioner's Bulletin No. 44 or its addendums.

3. The assembly construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the assembly construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as designed in U. L. test report R 3705-7, dated December 18, 1959.

This approval is granted under authority contained in Section 116, paragraph (1), of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

Robert E. York,
Building Commissioner.

TLF
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BUILDING COMMISSIONER
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DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

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BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 2, 1962.

COMMISSIONER'S BULLETIN NO. 102.

Product: A 4 1/4-inch thick, nonload bearing partition constructed of 3/8-inch gold bond plain gypsum lath nailed to 2½-inch Gold Bond nailable steel studs and ½-inch thick Perlite plaster (1:2 mix) applied to both faces.

Applicant: National Gypsum Company
Buffalo 2, New York

Approval for use in the City of Boston is hereby granted for the above-mentioned partition for a one-hour fire-resistive rating subject to the following conditions:

1. The partition shall be constructed as described in test report T-1580, conducted by the Engineering Experiment Station of the Ohio State University, Columbus 10, Ohio, March 9 and 16, 1961.

2. The partition construction shall comply with the applicable provisions of Section 1416 (i) and other pertinent provisions of the Boston Building Code.

3. The details of the partition construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as designed in test report T-1580 of the Engineering Experiment Station, Ohio State University.

This approval is granted under authority contained in Section 116, paragraph (L), of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department. This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner

TLF
JLO'F:pao'b

ROBERT E. YORK
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Ninth Floor, City Hall Annex
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ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 2, 1962.

COMMISSIONER'S BULLETIN NO. 103.

Product: A floor and ceiling assembly consisting of a 2-inch concrete floor supported by open-web steel joists protected with a 5/8-inch gypsum wallboard ceiling.

Applicant: National Gypsum Company
Buffalo 2, New York

Approval for use in the City of Boston is hereby granted for the above-mentioned assembly for a one-hour fire-resistive rating, subject to the following conditions:

1. The assembly shall be constructed as described in test report R 3501-18, dated January 29, 1959.

2. The assembly construction shall comply otherwise with applicable provisions of the Boston Building Code.

3. The details of the assembly construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case.

This approval is granted under the authority contained in Section 116, paragraph (1), of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

TLF:arh

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

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BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

June 29, 1962.

BUILDING COMMISSIONER'S BULLETIN NO. 104.

Applicant: Gypsum Association,
Chicago 6, Illinois.

1. Approval for use in the City of Boston of the constructions listed below for the listed fire-resistive ratings is hereby granted, subject to the following conditions:

(a) All assemblies shall be constructed as described in tests listed below and conducted by the National Bureau of Standards (referral file 10.2/u), U. S. Department of Commerce, Washington 25.

(b) The various assembly constructions shall comply otherwise with the applicable provisions of the Boston Building Code.

(c) The details of various assembly constructions shall be shown on the plans submitted to the Building Department with application for permit in each individual case.

(d) Gypsum lath shall comply with A.S.T.M. C 37-50. Gypsum plaster shall comply with A.S.T.M. C 28-50. Perlite and vermiculite aggregate shall comply with ASA A 42.1-50 and A.S.T.M. C 35-52T.

2. Incombustible Floor Ceiling Construction

Open-web steel joists (Steel Joist Institute No. 103) supporting concrete slabs, fire protected with gypsum lath and lightweight gypsum plaster ceilings.

Floor-ceiling construction consists of a 2-inch concrete slab poured over ribbed metal lath, supported by 10-inch bar joists spaced 24 inches on centers, gypsum plaster ceiling with lightweight aggregate on 3/8-inch perforated gypsum lath attached by interlocking wire clips to furring channels wired with 18-gauge wire to the joists.

Gypsum Floor-Ceiling Constructions

Nat'l Bur. Stds. Test No.	Spacing 3/4" Channels	Lightweight Aggregate Plaster			Fire Resistance Rating
		Reinforcement	Mix	Thickness (1)	
287	16"	None	A	5/8"	1 hour
295	16"	None	B	1"	1½ hours
312	16"	1" mesh 20 ga.	A	1/2"	3 hours
313	12"	14 ga. diag. wire (2)	B	5/8"	3 hours
311	12"	1" mesh 20 ga. wire	B	1"	4 hours

Mix A - One 100 lb. bag gypsum plaster to 2½ cu. ft. of aggregate
Mix B - Scratch coat one 100 lb. bag gypsum plaster to 2 cu.ft. of aggregate
Brown " " " " " " " " 3 " " " "
1 - Thickness includes finish coat
2 - 14 ga. galv. wire secured diagonally to clips or channels

3. Incombustible Column Fire Protection Construction

Structural steel columns (10" W.F. - 49# sections) protected with plain or perforated gypsum lath and gypsum plaster with lightweight aggregates according to the following schedule:

Nat'l Bur.Stds Test No.	Gypsum lath		Plaster				Total thickness lath & plaster	Fire Resistive Rating
	Type	No. of layers	Aggregate	Thickness (1)	Mix	Coats		
273	3/8" perf.	1	Sand	1/2"	A	1	7/8"	1 hour
274	3/8" perf.	1	Sand	5/8"	A	1	1"	1½ hours
275	3/8" perf.	1	Perlite	1"	A	1	1-3/8"	2 hours
294	3/8" perf.	1	Vermiculite	1"	A	1	1-3/8"	2 hours
276	1/2" plain	2 (2)	Perlite	1"	A	1	2"	3 hours
294	1/2" plain	2 (2)	Vermiculite	1"	A	1	2"	3 hours
277	1/2" plain	1	Perlite	1-1/2"	A (3)	2	2"	3 hours
314	3/8" perf.	1	Perlite	1-3/4"	B	2	2-1/8"	3 hours
278	1/2" plain	2 (2)	Perlite	1-1/2"	B	2	2-1/2"	4 hours
294	1/2" plain	2 (2)	Vermiculite	1-1/2"	B	2	2-1/2"	4 hours

Mix A - One 100 lb. bag gypsum plaster to 2½ cu. ft. of aggregate.
Mix B - Scratch coat one 100 lb. bag gypsum plaster to 2 cu. ft. of aggregate
Brown " " " " " " " " 3 " " " "

1 - Thickness includes finish coat
2 - Wire fabric, 1" mesh 20 ga. wire, wrapped around the lath
3 - Wire fabric, 1" mesh 20 ga. wire, between the two coats of plaster

4. Incombustible Solid Studless Partitions Constructions (Nonbearing)

Nonbearing partitions of incombustible floor and ceiling runners which support or engage ½-inch thick gypsum lath 10 feet long (full ceiling height); plastered both sides with gypsum plaster and lightweight aggregates (vermiculite or perlite).

Bur.Stds Test No.	Gypsum Lath	Aggregate	Plaster (1) Coats	Plaster (1) Mix	Partition Thickness Lath & Pl.	Fire Resistive Rating
282-283	1/2" plain	Perlite	Scratch Brown Finish	100:2 100:3 1/8" white coat	2"	1½ hours
300 & 301	1/2" plain	Vermiculite	same as above		2"	1½ hours
300 & 301	1/2" plain	Vermiculite	same as above		2½"	2 hours

1 - One hundred pounds (one bag) gypsum plaster to cubic feet of aggregate

5. Either perlite or vermiculite aggregate may be used in the foregoing constructions.

6. This approval is granted under the authority contained in Section 116, paragraph (L) of the Boston Building Code. Chapter 479, Acts of 1938, as amended, and based upon test and other information on file in this department.

This approval may not be used in any way for advertising purposes.

JLO'F:kab

R. E. York,
Building Commissioner.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

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ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 11, 1962.

COMMISSIONER'S BULLETIN NO. 105.

Product: A 4 1/4-inch thick, nonload-bearing partition constructed of 3/8-inch thick Gold Bond perforated gypsum lath nailed to 2½-inch Gold Bond nailable steel studs with ½-inch thick sanded plaster (1:2 mix) applied to both faces.

Applicant: National Gypsum Company,
Buffalo 2, New York.

Approval for use in the City of Boston is hereby granted for the above-mentioned partition for a one-hour fire-resistive rating, subject to the following conditions:

1. The partition shall be constructed as described in Test Report T-1578 conducted by the Engineering Experiment Station of the Ohio State University, Columbus 10, Ohio, March 6 and 7, 1961.

2. The partition construction shall comply with the applicable provisions of Section 1416 (i) and other pertinent provisions of the Boston Building Code.

3. The details of the partition construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as designed in Test Report T-1578 of the Engineering Experiment Station, Ohio State University.

This approval is granted under authority contained in Section 116, paragraph (L), of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

TLF
JLOF/pao'b

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

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BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 18, 1962.

COMMISSIONER'S BULLETIN NO. 106.

Product: A 4 1/4-inch thick, nonload-bearing partition constructed of 3/8-inch Gold Bond plain gypsum lath stapled to Gold Bond 2½-inch nailable steel studs with ½-inch thick Perlite plaster (1:2 mix) applied to both faces.

Applicant: National Gypsum Company,
Buffalo 2, New York.

Approval for use in the City of Boston is hereby granted for the above-mentioned partition for a one-hour fire-resistive rating, subject to the following conditions:

1. The partition shall be constructed as described in Test Report T-1581 conducted by the Engineering Experiment Station of the the Ohio State University, Columbus 10, Ohio, March 10 and 17, 1961.

2. The partition construction shall comply with the applicable provisions of Section 1416 (i) and other pertinent provisions of the Boston Building Code.

3. The details of the partition construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as designed in Test Report T-1581 of the Engineering Experiment Station, Ohio State University.

This approval is granted under authority contained in Section 116, paragraph (L), of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

TLF
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R. E. York,
Building Commissioner.

ROBERT E. YORK
BUILDING COMMISSIONER
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EXECUTIVE SECRETARY

CITY OF BOSTON
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Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 19, 1962.

COMMISSIONER'S BULLETIN NO. 107.

Product: A floor and ceiling assembly composed of a concrete floor supported by a blend of cellular and fluted - steel form units and a steel beam, protected by sprayed fiber applied directly to the underside of the form units and to the metal lath enclosing the beam.

Applicant: Fenestra, Incorporated,
Detroit 14, Michigan.

Approval for use in the City of Boston of the above-named assembly for a three-hour fire-resistive rating is granted subject to the following conditions:

1. The assembly shall be composed of materials conforming in quality and physical properties to those used in Test Report R2923-9, Underwriters' Laboratories, Inc., dated June 30, 1961, and constructed and installed as directed in that report, submitted by Smith & Kanzler Corporation, Linden, New Jersey.

2. The metal deck shall be constructed and engineered by Fenestra, Incorporated.

3. The assembly construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the assembly construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as designed in Underwriters' Laboratories Test Report R2923-9, dated June 30, 1961.

This approval is granted under authority contained in Section 116, paragraph (L), of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

JLO'F:kab

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT
OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 20, 1962.

COMMISSIONERS BULLETIN NO. 108.

Product: A floor and ceiling assembly composed of a blend system of cellular and fluted-steel form units, electrical header ducts and junction boxes, reinforcing bars and concrete topping protected with vermiculite acoustical plastic or plaster applied directly to the steel ceiling face, and vermiculite gypsum plaster on the metal lath enclosing the steel beam.

Applicant: Fenestra, Incorporated,
Detroit 14, Michigan.

Approval for use in the City of Boston of the above-named assembly for a three-hour fire-resistive rating is granted subject to the following conditions:

1. The assembly shall be composed of materials conforming in quality and physical properties to those used in Test Report R3355-4 Underwriters' Laboratories, Inc., dated December 14, 1959, and constructed and installed as directed in that report.

2. The metal deck shall be constructed and engineered by Fenestra, Incorporated.

3. The assembly construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the assembly construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as designed in Underwriters' Laboratories Test Report R3355-4, dated December 14, 1959.

This approval is granted under authority contained in Section 116, paragraph (L) of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

JLO'F:kab

R. E. York,
Building Commissioner.

ROBERT E. YORK
BUILDING COMMISSIONER
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DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

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ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 20, 1962.

COMMISSIONER'S BULLETIN NO. 109.

Product: A floor and ceiling assembly composed of a concrete floor supported by a blend of cellular and fluted-steel form units and a steel beam, electrical header ducts, and junction boxes protected by a sprayed plaster applied directly to the steel surfaces.

Applicant: Fenestra, Incorporated
Detroit 14, Michigan.

Approval for use in the City of Boston of the above-named assembly for a three-hour fire-resistive rating is granted subject to the following conditions:

1. The assembly shall be composed of materials conforming in quality and physical properties as those used in Test Report R4142-7, Underwriters' Laboratories, Inc. dated March 20, 1961, and constructed and installed as directed in that report, submitted by United States Gypsum Company, Chicago, Illinois.

2. The metal deck shall be constructed and engineered by Fenestra, Incorporated.

3. The assembly construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the assembly construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as designed in Underwriters' Laboratories Test Report R4142-7, dated March 20, 1961.

This approval is granted under authority contained in Section 116, paragraph (L), of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

JLO'F:kab

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EXECUTIVE SECRETARY

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 20, 1962.

COMMISSIONER'S BULLETIN NO. 110.

Product: A 2-inch thick nonload-bearing partition constructed of 1-inch solid gypsum plaster Baxbord core units and faced on each side with $\frac{1}{2}$-inch thick solid sheet rock.

Applicant: U.S. Gypsum Company,
Chicago, Illinois.

Approval for use in the City of Boston is hereby granted for the above-mentioned product for one-hour fire-resistive rating, subject to the following conditions:

1. The partition shall be constructed as described in Test Report T-1175, conducted by the Engineering Experiment Station of the Ohio State University, Columbus 10, Ohio, April 20 and 21, 1959.

2. The height of the partition shall be limited to 10'-0".

3. The partition construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the partition construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case.

This approval is granted under the authority contained in Section 116, paragraph (L), of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

JLO'F:kab

ROBERT E. YORK
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ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 20, 1962.

COMMISSIONER'S BULLETIN NO. 111.

Product: A 4-inch thick, nonload-bearing partition constructed of 2½-inch Gold Bond nailable steel studs with metal lath stapled to the studs and 5/8-inch thick sanded plaster (1:2 mix) measured from the face of the lath.

Applicant: National Gypsum Company,
Buffalo 2, New York.

Approval for use in the City of Boston is hereby granted for the above-mentioned partition for a one-hour fire-resistive rating subject to the following conditions:

1. The partition shall be constructed as described in test report T-1577 conducted by the Engineering Experiment Station of the Ohio State University, Columbus 10, Ohio, February 15 and 17, 1961.

2. The partition construction shall comply with the applicable provisions of Section 1416 (i) and other pertinent provisions of the Boston Building Code.

3. The details of the partition construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as designed in test report T-1577 of the Engineering Experiment Station, Ohio State University.

This approval is granted under authority contained in Section 116, Paragraph (L), of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

JLO'F:kab

ROBERT E. YORK
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ADDRESS REPLY TO
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July 20, 1962.

COMMISSIONER'S BULLETIN NO. 112.

Product: A 4-inch thick, nonload-bearing partition constructed of 2½-inch Gold Bond nailable steel studs with metal lath nailed to the studs and 5/8-inch thich sanded plaster (1:2 mix) measured from the face of the lath.

Applicant: National Gypsum Company,
Buffalo, New York.

Approval for use in the City of Boston is hereby granted for the above-mentioned partition for a one-hour fire-resistive rating subject to the following conditions:

1. The partition shall be constructed as described in test report T-1576, conducted by the Engineering Experiment Station of the Ohio State University, Columbus 10, Ohio, February 14 and 16, 1961.

2. The partition construction shall comply with the applicable provisions of Section 1416 (i) and other pertinent provisions of the Boston Building Code.

3. The details of the partition construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as designed in test report T-1576 of the Engineering Experiment Station, Ohio State University.

This approval is granted under authority contained in Section 116, paragraph (L), of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

JLO'F:kab

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ADDRESS REPLY TO
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July 20, 1962.

COMMISSIONER'S BULLETIN NO. 113.

Product: A 4 1/4-inch thick, nonload-bearing partition constructed of 3/8-inch thick Gold Bond perforated gypsum lath stapled to 2½-inch Gold Bond nailable steel studs with ½-inch thick sanded plaster (1:? mix) applied to both faces.

Applicant: National Gypsum Company,
Buffalo 2, New York.

Approval for use in the City of Boston is hereby granted for the above-mentioned partition for a one-hour fire-resistive rating subject to the following conditions:

1. The partition shall be constructed as described in test report T-1579, conducted by the Engineering Experiment Station of the Ohio State University, Columbus 10, Ohio, March 8 and 13, 1961.

2. The partition construction shall comply with the applicable provisions of Section 1416 (i) and other pertinent provisions of the Boston Building Code.

3. The details of the partition construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as designed in test report T-1579 of the Engineering Experiment Station, Ohio State University.

This approval is granted under authority contained in Section 116, paragraph (L), of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

JLO'F:kab

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ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 20, 1962.

COMMISSIONER'S BULLETIN NO. 114.

Product: A 4½-inch thick, nonload-bearing partition constructed of 3 1/4-inch Gold Bond nailable steel studs spaced 24 inches on center with 5/8-inch thick Gold Bond fireshield wallboard applied to each face.

Applicant: National Gypsum Company,
Buffalo 2, New York.

Approval for use in the City of Boston is hereby granted for the above-mentioned partition for a one-hour fire-resistive rating subject to the following conditions:

1. The partition shall be constructed as described in test report T-1746 conducted by the Engineering Experiment Station of the Ohio State University, Columbus 10, Ohio, April 7 and 10, 1961.

2. The partition construction shall comply with the applicable provisions of Section 1416 (i) and other pertinent provisions of the Boston Building Code.

3. The details of the partition construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as designed in test report T-1746 of the Engineering Experiment Station, Ohio State University.

This approval is granted under authority contained in Section 116, paragraph (L), of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

JLO'F:kab

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ADDRESS REPLY TO
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July 20, 1962.

COMMISSIONER'S BULLETIN NO. 115.

Product: A 5 3/4-inch thick nonload-bearing partition constructed of 3 1/4-inch Gold Bond nailable steel studs spaced 24 inches on center faced with double thickness laminated 5/8-inch thick Gold Bond fireshield wallboard applied to each face.

Applicant: National Gypsum Company,
Buffalo 2, New York.

Approval for use in the City of Boston is hereby granted for the above-mentioned partition for a two-hour fire-resistive rating subject to the following conditions:

1. The partition shall be constructed as described in test report T-1620 conducted by the Engineering Experiment Station of the Ohio State University, Columbus 10, Ohio, May 22 and 24, 1961.

2. The partition construction shall comply with the applicable provisions of Section 1416 (i) and other pertinent provisions of the Boston Building Code.

3. The details of the partition construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as designed in test report T-1620 of the Engineering Experiment Station, Ohio State University.

This approval is granted under authority contained in Section 116, paragraph (L) of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

JLO'F;kab

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ADDRESS REPLY TO
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July 20, 1962.

COMMISSIONER'S BULLETIN NO. 116.

Product: A 2-inch thick, nonload-bearing Drywall partition constructed of 1-inch "V" edge gypsum coreboard units and faced with $\frac{1}{2}$-inch thick Sheetrock Firecode wallboard panels.

Applicant: U. S. Gypsum Company,
Chicago, Illinois.

Approval for use in the City of Boston is hereby granted for the above-mentioned product for a two-hour fire-resistive rating, subject to the following conditions:

1. The partition shall be constructed as described in test report T-1339 conducted by the Engineering Experiment Station, of the Ohio State University, Columbus 10, Ohio, December 16 and 17, ~~1960~~ 1959.
2. The height of the partition shall be limited to 10'-0".
3. The partition construction shall comply otherwise with the applicable provisions of the Boston Building Code.
4. The details of the partition construction shall be shown on the plans submitted to the Building Department with application for permit in each individual care.

This approval is granted under the authority contained in Section 116, paragraph (1) of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

JLO'F:kab

ROBERT E. YORK
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BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 25, 1962.

COMMISSIONER'S BULLETIN NO. 117.

Product: Cadweld method of butt splicing reinforcing bars.

Applicant: Erico Products, Inc.
2070 East 61st Place,
Cleveland 3, Ohio.

Approval for use in the City of Boston is hereby granted for the above-named product and method of splicing reinforcing bars subject to the following conditions:

1. The method of splicing as described in the manufacturer's catalog and as approved by laboratory test shall be used only to splice reinforcing bars that were designed for stress in bars not to exceed the yield point in tension and compression.

2. The Cadweld butt splice shall not be used in structures when the design was based on ultimate strength.

3. Cadweld butt splice shall not be used to splice reinforcing bars in columns designed on ultimate strength.

This approval is granted under authority contained in Section 116, paragraph (1), of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

TLF:kab

ROBERT E. YORK
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BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

August 17, 1962.

COMMISSIONER'S BULLETIN NO. 117 (REVISED).

Product: CADWELD Method of Butt Splicing Reinforcing Bars.

Applicant: Erico ~~Erico~~ Products, Inc.,
2070 East 61st Place,
Cleveland 3, Ohio.

Approval for use in the City of Boston is hereby granted for the above-named product and method of splicing reinforcing bars subject to the following conditions:

1. The method of splicing as described in the manufacturer's catalog and as approved by laboratory test shall be used only to splice reinforcing bars designed for stress not to exceed the yield point in tension and compression.

2. The Cadweld butt splice shall not be used in structures or components thereof for design based on ultimate strength.

This approval is granted under authority contained in Section 116, paragraph (1), of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

TLF:bdf

ROBERT E. YORK
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ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 27, 1962.

COMMISSIONER'S BULLETIN NO. 118.

Product: A 4 7/8-inch thick nonload-bearing partition constructed of U. S. Gypsum 3 5/8-inch channel studs with 5/8-inch thick sheetrock Firecode wallboard, screw applied to both faces.

Applicant: U. S. Gypsum Company,
Chicago, Illinois.

Approval for use in the City of Boston is hereby granted for the above-mentioned partition for a one-hour fire-resistive rating, subject to the following conditions:

1. The partition shall be constructed as described in test report T-1174 conducted by the Engineering Experiment Station of the Ohio State University, Columbus 10, Ohio, April 22 and 23, 1959.

2. The partition construction shall comply with the applicable provisions of Section 1416 (i) and other pertinent provisions of the Boston Building Code.

3. The details of the partition construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case.

This approval is granted under the authority contained in Section 116, paragraph (1), of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

JLO'F:kab

ROBERT E. YORK
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ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 27, 1962.

COMMISSIONER'S BULLETIN NO. 119.

Product: A steel column protected with three layers of labelled 5/8-inch gypsum wallboard having a total thickness of 1 7/8 inches.

Applicant: U. S. Gypsum Company,
Chicago, Illinois.

Approval for use in the City of Boston is hereby granted for the above-mentioned assembly for a three-hour fire-resistive rating, subject to the following conditions:

1. The assembly shall be constructed as described in test report R 1319-36 conducted by Underwriters' Laboratories, Inc., dated January 17, 1962.

2. The assembly construction shall comply otherwise with the applicable provisions of the Boston Building Code.

3. The details of the assembly construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case.

This approval is granted under the authority contained in Section 116, paragraph (1), of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

JLO'F:kab

ROBERT E. YORK
BUILDING COMMISSIONER
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ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 27, 1962.

COMMISSIONER'S BULLETIN NO. 120.

Product: A Vaughan Movable Solid Sheetrock 2 1/4-inch nonload-bearing partition constructed from 1-inch solid gypsum core units with 5/8-inch thick gypsum wallboard laminated to both faces.

Applicant: U. S. Gypsum Company,
Chicago, Illinois.

Approval for use in the City of Boston is hereby granted for the above-mentioned partition for a one-hour fire-resistive rating, subject to the following conditions:

1. The partition shall be constructed and installed as described in test report T-1235, conducted by the Engineering Experiment Station of the Ohio State University on June 22 and 26, 1959.

2. All ceiling, base, side runners, and metal trim shall be furnished by the manfacturer of the gypsum wallboard.

3. The partition construction shall comply with the applicable provisions of Section 1416 (i) and other pertinent provisions of the Boston Building Code.

4. The details of the partition construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case.

This approval is granted under the authority contained in Section 116, paragraph (1), of the Boston Building Code, Chapter 479, Acts of 1938, as amended and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

JLO'F:kab

ROBERT E. YORK
BUILDING COMMISSIONER
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ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 30, 1962.

COMMISSIONER'S BULLETIN NO. 121.

Product: A 6 1/8-inch laminated nonload-bearing partition formed of two layers of labelled 5/8-inch gypsum wallboard on each face of steel studs.

Applicant; U. S. Gypsum Company,
Chicago, Illinois.

Approval for use in the City of Boston is hereby granted for the above-mentioned partition for a two-hour fire-resistive rating, subject to the following conditions:

1. The partition shall be as described in test report R-1319-31, conducted by Underwriters' Laboratories, Inc., dated June 2, 1960.

2. The partition construction shall comply with the applicable provisions of Section 1416 (i), and other pertinent provisions of the Boston Building Code.

3. The details of the partition construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case.

This approval is granted under the authority contained in Section 116, paragraph (1), of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

JLO'F:kab

ROBERT E. YORK
BUILDING COMMISSIONER
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ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 30, 1962.

COMMISSIONER'S BULLETIN NO. 122.

Product: A floor and ceiling assembly consisting of a 2-inch concrete floor supported by open-web steel joists protected by a 5/8-inch thick gypsum wallboard ceiling.

Applicant: U. S. Gypsum Company,
Chicago, Illinois.

Approval for use in the City of Boston is hereby granted for the above-mentioned assembly for a one-hour fire-resistive rating subject to the following conditions:

1. The assembly shall be constructed as described in test report R-1319-30 conducted by Underwriters' Laboratories, Inc., dated March 15, 1960.

2. The assembly construction shall comply otherwise with the applicable provisions of the Boston Building Code.

3. The details of the assembly construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case.

This approval is granted under the authority contained in Section 116, paragraph (1) of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

JLO'F:kab

R. E. York,
Building Commissioner.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

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ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 31, 1962.

COMMISSIONER'S BULLETIN NO. 123.

Product: A 2 3/8-inch thick, nonload-bearing partition constructed of 1-inch solid gypsum tongue and groove core units faced on each side with 5/8-inch thick sheetrock firecode gypsum board.

Applicant: U. S. Gypsum Company,
Chicago, Illinois.

Approval for use in the City of Boston is hereby granted for the above-mentioned product for a two-hour fire-resistive rating, subject to the following conditions:

1. The partition shall be constructed as described in test report T-1231 conducted by the Engineering Experiment Station of the Ohio State University, Columbus 10, Ohio, June 23 and July 2, 1959.

2. The height of the partition shall be limited to 10'-0".

3. The partition construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the partition construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case.

This approval is granted under the authority contained in section 116, paragraph (1) of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

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R. E. York,
Building Commissioner.

JLO'F:kab

ROBERT E. YORK
BUILDING COMMISSIONER
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ADDRESS REPLY TO
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July 31, 1962.

COMMISSIONER'S BULLETIN NO. 124.

(Supersedes Bulletin No. 52 - expired)

Product: A floor and ceiling assembly consisting of a 2 3/8-inch thick, concrete topping on a blend system of 1 5/8-inch deep cellular and fluted decking (the cellular composed of 18 and 16 USS gauge top and bottom respectively and the fluted 16 USS gauge) supported by a steel beam, protected on the underside with "Sprayed 'Limpet' Asbestos" fiber, Grade LW 25 applied directly to the steel surfaces.

Applicant: Keasbey & Mattison Company,
Ambler, Pennsylvania.

Approval for use in the City of Boston of the above-described assembly for a four-hour fire-resistive rating is granted subject to the following conditions:

1. The assembly shall be composed of materials conforming in quality and physical properties as those used in test report R-3705-7, Underwriters' Laboratories, Inc., dated December 18, 1959, and constructed and installed as described in that report.

2. The underside of the decking to be protected by "Limpet" applied to fill the flutes plus a minimum 11/16-inch thickness after tamping below the entire decking. The "Limpet" to be applied directly to the beams following the contours to a minimum depth of 1 3/4-inch after tamping.

3. The assembly construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the assembly construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as designed in Underwriters' Laboratories test report R-3705-7, dated December 18, 1959.

This approval is granted under the authority contained in Section 116, paragraph (1) of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

JLO'F:kab

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT
OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 31, 1962.

COMMISSIONER'S BULLETIN NO. 125.

(Supersedes Bulletin No. 52 - expired)

Product: Steel beams protected with 7/8-inch and 5/8-inch "Sprayed 'Limpet' Asbestos" fiber grade LW. 25 applied directly to the steel surfaces (supporting a floor and ceiling assembly).

Applicant: Keasbey & Mattison Company,
Ambler, Pennsylvania.

Approval for use in the City of Boston of the above-described protected beams for a three-hour and two-hour fire-resistive rating, respectively, is granted subject to the following conditions:

1. The assembly shall be composed of materials conforming in quality and physical properties as those used in test report R-3705-8, Underwriters' Laboratories, Inc., dated June 8, 1962, and constructed and installed as described in that report.

2. The "Limpet" to be applied directly to the beams following the contours to a minimum depth after tamping of 7/8-inch and 5/8-inch respectively.

3. The assembly construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the beam protection and assembly construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as designed in Underwriters' Laboratories test report R-3705-8, dated June 8, 1962.

This approval is granted under the authority contained in section 116, paragraph (1) of the Boston Building Code, Chapter 479, Acts of 1938, as amended and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

JLO'F:kab

CITY OF BOSTON
BUILDING DEPARTMENT
OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER
FRANK J. COUGHLIN
EXECUTIVE SECRETARY

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 31, 1962.

COMMISSIONER'S BULLETIN NO. 126.

(Supersedes Bulletin No. 52 - expired)

Product: A floor and ceiling assembly consisting of a 2½-inch thick concrete topping on a 3 1/8-inch deep cellular deck (composed of top units of 18 USS gauge and No. 16 USS gauge bottom sheet) supported by a steel beam. The entire assembly protected on the ceiling side with "Sprayed 'Limpet' Asbestos" fiber, Grade LW.25.

Applicant: Keasbey & Mattison Company,
Ambler, Pennsylvania.

Approval for use in the City of Boston of the above-described assembly for a four-hour fire-resistive rating is granted subject to the following conditions:

1. The assembly shall be composed of materials conforming in quality and physical properties as those used in test report R 3705-3, Underwriters' Laboratories, Inc., dated July 30, 1958, and constructed and installed as described in that report.

2. The underside of the decking to be protected by "Limpet" applied to fill the flutes plus a minimum thickness of ½-inch after tamping below the entire decking. The beams to be encased in metal lath and "Limpet" applied a minimum thickness of 1 1/4-inch after tamping on the sides and a minimum thickness of 1½-inch after tamping on the bottom flanges.

3. The assembly construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the assembly construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as designed in Underwriters' Laboratories test report R 3705-3 dated July 30, 1958.

This approval is granted under the authority contained in section 116, paragraph (1) of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
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CITY OF BOSTON
BUILDING DEPARTMENT
OFFICE OF THE BUILDING COMMISSIONER
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BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

August 13, 1962.

COMMISSIONER'S BULLETIN NO. 127.

Product: A 4 1/4-inch thick nonload-bearing Service Core Wall partition constructed of 1-inch thick "V" Edge Gypsum Coreboard units spaced 1 1/8-inch apart and faced with $\frac{1}{2}$-inch thick Sheetrock gypsum wallboard panels.

Applicant: U. S. Gypsum Company,
Chicago, Illinois.

Approval for use in the City of Boston is hereby granted for the above-mentioned product for a two-hour fire resistive rating, subject to the following conditions:

1. The partition shall be constructed as described in test report T-1310 conducted by the Engineering Experiment Station of the Ohio State University, Columbus 10, Ohio, October 15 and 16, 1959.

2. The height of the partition shall be limited to 10'-0".

3. The partition construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the partition construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case.

This approval is hereby granted under the authority contained in section 116, paragraph (1) of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

JLO'F:kab

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT
OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

January 24, 1963.

BUILDING COMMISSIONER'S BULLETIN NO. 128.

Product: A floor system composed of 2 1/2-inch thick concrete topping on 3-inch cellular steel decking supported by steel beams with Gold Bond Fire-Shield Plaster sprayed directly on the exposed surfaces, following the contours of the decking and beams.

Applicant: National Gypsum Company,
Buffalo 2, New York.

Approval for use in the City of Boston of the above-described floor system for a 3-hour fire-resistive rating of the floor system and a 4-hour fire-resistive rating of the beams is granted subject to the following conditions:

1. The system shall be composed of materials conforming in quality and physical properties as those used in test report T-1680, conducted by the Engineering Experiment Station of Ohio State University on October 12, 1961, and constructed and installed as described in that report.

2. The exposed surfaces of the floor units and the steel beams to be protected, following their contours, by Gold Bond Fire-Shield Plaster spray applied a minimum depth of 5/8-inch thick on the deck, 1-inch thick below the metal header ducts and 1 1/4-inch thick on the beams.

3. The system construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the system construction shall be shown on the plans submitted to the Building Department with approval for permit in each individual case and marked as designed in test report T-1680, of the Engineering Experiment Station of Ohio State University dated October 12, 1961.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT
OFFICE OF THE BUILDING COMMISSIONER
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ADDRESS REPLY TO
THE BUILDING COMMISSIONER

January 24, 1963.

BUILDING COMMISSIONER'S BULLETIN NO. 129.

Product: A floor system composed of 2 1/2-inch thick concrete topping on blend steel floor units (Holorib Deck & Elect - Re-Form steel units) supported by steel beams with Gold Bond Fire-Shield Plaster sprayed directly on the exposed surfaces, following the contours of the decking and beams.

Applicant: National Gypsum Company,
Buffalo 2, New York.

Approval for use in the City of Boston of the above-described floor system for a 3-hour fire-resistive rating is granted subject to the following conditions:

1. The system shall be composed of materials conforming in quality and physical properties as those used in test report T-1681, conducted by the Engineering Experiment Station of Ohio State University on October 5, 1961, and constructed and installed as described in that report.

2. The exposed surfaces of the floor units and the steel beams to be protected, following their contours, by the Gold Bond Fire-Shield Plaster spray, applied a minimum depth of 1 1/2-inch thick on the Holo-Rib Deck, 3/4-inch thick on the Elect-Re-Form units, 1-inch thick on the metal Header Ducts and 1 1/2-inch thick on the beams.

3. The system construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the system construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as designed in test report T-1681, of the Engineering Experiment Station of Ohio State University dated October 5, 1961.

January 24, 1963.

BUILDING COMMISSIONER'S BULLETIN NO. 129.

This approval is granted under the authority contained in Section 116, paragraph (1) of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

Robert E. York,
Building Commissioner.

JLO'F/kab

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
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BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

January 24, 1963.

BUILDING COMMISSIONER'S BULLETIN NO. 130.

Product: A floor system composed of 2 1/2-inch thick, concrete topping over blend steel floor units (cellular and fluted) supported by steel beams, with Gold Bond Fire-Shield Plaster spray applied directly on the exposed surfaces, following the contours of the decking and beams.

Applicant: National Gypsum Company,
Buffalo 2, New York.

Approval for use in the City of Boston of the above-described floor system for a 2-hour fire-resistive rating of the floor and a 4-hour fire-resistive rating of the beams is granted, subject to the following conditions:

1. The system shall be composed of materials conforming in quality and physical properties as those used in test report T-1679, conducted by the Engineering Experiment Station of Ohio State University on October 27, 1961, and constructed and installed as described in that report.

2. The exposed surfaces of the floor units and the steel beams to be protected, following their contours, by Gold Bond Fire-Shield Plaster spray, applied a minimum depth of 3/4-inch thick on the deck and 1-inch thick on the beams.

3. The system construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the system construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as designed in test report T-1679 of the Engineering Experiment Station of Ohio State University dated October 27, 1961.

January 24, 1963.

BUILDING COMMISSIONER'S BULLETIN NO. 130.

This approval is granted under the authority contained in Section 116, paragraph (1) of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based on tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

Robert E. York,
Building Commissioner.

JLO'F/kab

May 22, 1963

COMMISSIONER'S BULLETIN NO. 137

APPLICANT: Durastone Flexicore Corporation
P. O. Box 61
Saylesville, Rhode Island

RE: Approval for use of hi-stress flexicore floor and roof slabs

Approval for use in the City of Boston is hereby granted for hi-stress flexicore floor and roof slabs as developed by the Flexicore Company, Inc. The installation shall be engineered by the manufacturer and erected according to these specifications:

1. Hi-stress flexicore slabs may be used in floors and roofs when a three-hour fire resistance is required, if the reinforcing steel is fireproofed with a 1 1/8" of cover.

2. Plans filed for permit shall show the arrangement of the slabs, details of anchorage, and reference to the standard load charts filed and approved by the Building Department.

3. Use of the hollow cores for passage of piping electrical wiring or heated air, the cutting of holes in the slabs, or cutting of reinforcement shall be provided for in the structural design and have the approval of the Building Department.

4. Use of flexicore slabs in floors of garages, dance halls, or other locations where vibration exists should be avoided unless special consideration be given to design and distribution of the concentrated loads.

5. Precast hi-stress flexicore units shall be adequately braced and supported during erection to insure proper alignment and safety, and such bracing of support shall be maintained until there is adequate permanent connection.

The standard load charts for the 6" x 16", 8" x 16", and 10" x 20" hi-stress flexicore section may be used as the basis for plans approval of projects on which hi-stress flexicore slabs are used. It shall be mandatory that the standard designation for units as shown on this chart shall be clearly marked on all slabs and erection shop drawings furnished by the Flexicore Company for use in the City of Boston. These load tables and instructions shall be used by the architects and engineers in choosing their span and load condition requirements.

This approval is granted under authority contained in Section 116, Paragraph 1, of the Boston Building Code, Chapter 479, Acts of 1938 as amended, and is based on test by engineering experiment station, Ohio State University, Columbus, Ohio, and a letter from Thompson & Litchner Company, Inc., about setting up an inspection system which is on file in this department.

R. E. York,

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT
OFFICE OF THE BUILDING COMMISSIONER
Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

May 22, 1963

COMMISSIONER'S BULLETIN NO. 138

Product: Cofar composite floor and roof construction as manufactured and engineered by the Granco Steel Product Company, Granite City, Illinois.

Applicant: Granco Steel Products Company
Granite City
Illinois.

Approval of the above floor and roof cofar construction for a three-hour fire-resistive rating is granted for use in the City of Boston. The beam supporting the cofar floor or roof is approved for a two-hour fire-resistive rating. This approval is subject to the following conditions.

1. The construction shall be composed of material conforming in quality and physical properties as those used in the Underwriter's Laboratories, Inc. Test Report R-3413-9, Septeimber 13, 1955, and shall be constructed and installed as described in that report.

2. The assembly construction shall comply otherwise with the applicable provisions of the Boston Building Code and Commissioner's Bulletin 45, as revised.

3. The detail of the assembly construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as designed in the Underwriter;s Laboratories Inc. Test Report R-3413-9, September 13, 1955.

This approval is granted under the authority contained in Section 116, Paragraph 7, of the Boston Building Code, Chapter 479, Acts of 1938, as amended and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner

DN:mml

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

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BUILDING DEPARTMENT
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BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 2, 1963.

COMMISSIONER'S BULLETIN NO. 139.

Product: U S G sheathing as manufactured by the U. S. Gypsum Co. 1/2" x 24" x 8'-0" or 1/2" x 48" x 8'-0" or 9'0"

Applicant: U. S. Gypsum Company,
75 Third Avenue,
Waltham 54, Massachusetts.

Approval for use in the City of Boston is hereby granted for 1/2-inch Gypsum Board known as U S G sheathing subject to the following conditions:

1. The use of gypsum sheathing is limited to one or two story single residences of Type VI construction only.

2. The U S G sheathing shall be applied in accordance with the manufacturer's specification and framed on 2-inch x 4-inch studs 16 inches o. c. and should also comply with Federal specification for Gypsum Sheathing Board, SS-S-276 and the American Society for Testing Materials Standard Specification for Gypsum Sheathing Board, A. S. T. M. Designation - C79.

3. U S G Sheathing may be used as a base, for siding of wood, brick veneer, or for any other approved material used as siding.

This approval is granted under authority contained in Section 116, paragraph 1, of the Boston Building Code, Chapter 479, Acts of 1938, as amended. It may not be used in any way for advertising purposes, and is based on information, tests, and other data submitted, and is on file at the Commissioner's office.

This approval may not be used in any way for advertising purposes.

DM:mml

R. E. York,
Building Commissioner.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

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Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

January 27, 1964

COMMISSIONER'S BULLETIN NO. 139 (Revised January 27, 1964)
(Cancelling bulletin of same number issued on July 2, 1963)

Product: Insulating Nailable Sheathing, as manufactured by the U. S. Gypsum Company 1/2" X 48" x 8'-0" or 9'0"

Applicant: U. S. Gypsum Company,
75 Third Avenue,
Waltham 54, Massachusetts

Main Office, Code 130
101 So. Wacker Drive
Chicago 6, Illinois

Approval for use in the City of Boston is hereby granted for 1/2-inch Insulating Nailable Sheathing Board known as U.S.G. super strength ½" insulating sheathing subject to the following conditions:

1. The use of above sheathing is limited to one or two story single residences of Type VI construction only.

2. The U S G sheathing shall be applied in accordance with the manufacturer's specification and framed on 2-inch x 4-inch studs 16 inches o. c. and should also comply with Federal specification for Sheathing Board, LLL-1-535 and the American Society for Testing Materials Standard Specification for Gypsum Sheathing Board, A.S.T.M. Designation - C208 for insulating.

3. U S G Insulating Sheathing may be used as a base, for siding of wood, brick veneer, or for any other approved material used as siding.

This approval is granted under authority contained in Section 116, paragraph 1, of the Boston Building Code, Chapter 479, Acts of 1938, as amended. It may not be used in any way for advertising purposes, and is based on information, tests, and other data submitted, and is on file at the Commissioner's office.

R. E. York
Building Commissioner

DM/pjg

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
BUILDING DEPARTMENT
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Ninth Floor, City Hall Annex
BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 2, 1963.

COMMISSIONER'S BULLETIN NO. 140.

Product: An unprotected gypsum concrete roof deck, composed of bulb-T rails, 1/2-inch gypsum formboard wire mesh reinforcement, and 2 1/2-inch gypsum concrete.

Applicant: Gypsum Association
201 North Wells Street
Chicago, Illinois.

Approval for use in the City of Boston is hereby granted for the above described roof deck for a ~~one~~ two-hour fire-resistive rating subject to the following conditions:-

1. The roof decking shall be constructed as described in test No. 406 (T R 10218-30: F P 3530) conducted by the National Bureau of Standards August 11, 1959.

2. The gypsum concrete shall be Class A with a minimum compressive strength of 500 psi at age of 28 days.

3. The roof construction shall comply otherwise with the applicable provisions of the Boston Building Code.

4. The details of the roof construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as designed in National Bureau of Standards test report No. 406 dated August 11, 1959.

This approval is granted under the authority contained in Section 116, paragraph (1) of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based on test and other information on file in this department.

This approval may not be used in any way for advertising purposes.

R. E. York,
Building Commissioner.

JL'OF:mml

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

CITY OF BOSTON
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BOSTON 8, MASSACHUSETTS

ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 2, 1963.

COMMISSIONER'S BULLETIN NO. 141.

Product: A floor and ceiling assembly consisting of 2 1/2" thick concrete floor supported by open-web steel bar joists protected by 5/8" thick labeled gypsum wallboard ceiling.

Applicant: U. S. Gypsum Company
Chicago, Illinois.

Approval for use in the City of Boston of the above described assembly for a two-hour fire-resistive rating is granted subject to the following conditions.

1. The assembly shall be composed of materials conforming in quality and physical properties as those used in test report R 4024-3, Underwriters' Laboratories Inc., dated January 25, 1963, conducted for the Gypsum Association, Chicago, Illinois and constructed and installed as directed in that report

2. The assembly construction shall comply otherwise with the applicable provisions of the Boston Building Code.

3. The details of the assembly construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as described in Underwriters' Laboratories test report R 4024-3 dated June 30, 1960.

This approval is granted under the authority contained in Section 116, paragraph 1, of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

J. O'F:mml

R. E. York,
Building Commissioner.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

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ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 2, 1963.

COMMISSIONER'S BULLETIN NO. 142.

Product: A 4 1/2-inch thick, non-load bearing partition constructed of 2 1/2-inch steel studs with 3/8-inch thick perforated rocklath screwed to the studs and 1/2-inch thick sanded plaster (1:2 mix), on each side.

Applicant: U. S. Gypsum Company,
Chicago, Illinois.

Approval for use in the City of Boston of the above described partition for a one-hour fire-resistive rating is granted subject to the following conditions.

1. The partitions shall be composed of materials conforming in quality and physical properties as those used in test report T-1974, conducted by the Engineering Experiment station of the Ohio State University, Columbus 10, Ohio, November 27 - 28, 1961.

2. The partition construction shall comply otherwise with the applicable provisions of the Boston Building Code.

3. The details of the partition construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as described in test report T-1974 of the Engineering Experiment Station, Ohio State University.

This approval is granted under the authority contained in Section 116, paragraph 1 of the Boston Building Code, Chapter 479, Acts of 1938 as amended, and is based upon tests and other information on file in this department.

This approval may not be used in any way for advertising purposes.

J. O'F:mml

R. E. York,
Building Commissioner.

ROBERT E. YORK
BUILDING COMMISSIONER
THOMAS L. FLYNN
DEPUTY BUILDING COMMISSIONER

FRANK J. COUGHLIN
EXECUTIVE SECRETARY

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ADDRESS REPLY TO
THE BUILDING COMMISSIONER

July 2, 1963.

COMMISSIONER'S BULLETIN NO. 143.

Product: A floor and ceiling assembly, consisting of a 2 1/2-inch thick concrete floor supported by open-web steel joists, protected with 3/4-inch thick (Acoustone "120") acoustical-tile ceiling.

Applicant: U. S. Gypsum Company,
Chicago Illinois.

Approval for use in the City of Boston of the above described assembly for a two-hour fire-resistive rating is granted subject to the following conditions.

1. The assembly shall be composed of materials conforming in quality and physical properties as those used in test report R 4351-4, Underwriters' Laboratories, Inc., dated August 15, 1961 and constructed and installed as directed in that report.

2. The assembly construction shall comply otherwise with the applicable provisions of the Boston Building Code.

3. The details of the assembly construction shall be shown on the plans submitted to the Building Department with application for permit in each individual case and marked as described in Underwriters' Laboratories test report R 4351-4 dated August 15, 1961.

This approval is granted under authority contained in Section 116, paragraph 1, of the Boston Building Code, Chapter 479, Acts of 1938, as amended, and is based upon tests and other information on file in this department

This approval may not be used in any way for advertising purposes.

J. O'F:mml

R. E. York,
Building Commissioner.