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# GENERALLY ACCEPTED STANDARDS applicable to STATE BUILDING CONSTRUCTION CODE

January 1, 1975

State of New York
Hugh L. Carey, Governor



**qr**690 N532h

# EXECUTIVE DEPARTMENT DIVISION OF HOUSING AND COMMUNITY RENEWAL Two World Trade Center New York, New York 10047



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#### FOREWORD

A generally accepted standard is defined in the State Building Construction Code as a specification, code, rule, guide or procedure in the field of construction, or related thereto, recognized and accepted as authoritative. The Code Manual for the State Building Construction Code indicates acceptable methods of compliance with the performance requirements of the Code and therefore is acceptable as a generally accepted standard.

The standards are identified by symbols representing the name of the issuing or sponsoring organization or the general category of publications, the title of the standard, and its identification number, the last figures of which frequently indicate the year of issue. The names of the organizations, the abbreviations of their names, and the addresses where copies of the standards may be obtained, are listed herein.

The standards are arranged to correspond with parts 1,2,3,4, and 5 of the State Building Construction Code, relating, in that order to general provisions, space requirements, structural requirements, fire-safety requirements and equipment requirements.

This is the nineteenth edition of the Generally Accepted Standards, superseding the edition dated March 13, 1974.

#### ISSUING ORGANIZATIONS

AA The Aluminum Association

750 Third Avenue

New York, New York 10017

ACI American Concrete Institute

P.O. Box 19150, Redford Station

Detroit, Michigan 48219

AGA American Gas Association Laboratories

8501 East Pleasant Valley Road

Cleveland, Ohio 44131

AIA American Insurance Association

85 John Street

New York, New York 10038

AISC American Institute of Steel Construction, Inc.

1221 Avenue of the Americas New York, New York 10020

AISI American Iron and Steel Institute

1000 16th Street, NW Washington, D.C. 20036

AITC American Institute of Timber Construction

333 West Hampden Avenue Englewood, Colorado 80110

ANSI American National Standards Institute, Inc.

1430 Broadway

New York, New York 10018

APA American Plywood Association

1119 A Street

Tacoma, Washington 98401

API American Petroleum Institute

1801 K Street NW

Washington, D.C. 20006

ASCE American Society of Civil Engineers

345 East 47th Street

New York, New York 10017

ASHRAE American Society of Heating, Refrigerating and Air-Conditioning

Engineers, Inc. 345 East 47th Street New York, New York 10017

ASME American Society of Mechanical Engineers

345 East 47th Street

New York, New York 10017

ASTM American Society for Testing and Materials

1916 Race Street

Philadelphia, Pennsylvania 19103

American Water Works Association AWWA

2 Park Avenue

New York, New York 10016

American Welding Society AWS

2501 NW Seventh Street Miami, Florida 33125

American Wood Preservers' Association AWPA

1625 I Street, NW

Washington, D.C. 20006

Cast Iron Soil Pipe Institute CISPI

2029 K Street NW

Washington, D.C. 20006

Canvas Products Association International CPAI

600 Endicott Building

St. Paul, Minnesota 55101

Commercial Standards CS

> U.S. Department of Commerce National Bureau of Standards Office of Product Standards Washington, D.C. 20234

Department of Agriculture DA\*

Department of Environmental Conservation DEC

50 Wolf Road

Albany, N.Y. 12205

Department of Health, State of New York DH

> 84 Holland Avenue Albany, N.Y. 12208

Federal Communications Commission FCC\*

Factory Mutual System **FMS** 

Factory Mutual Engineering Corporation

1151 Boston-Providence Turnpike Norwood, Massachusetts 02062

Federal Supply Service FS\*

Standardization Division

General Services Administration

Handbooks, U.S. Department of Commerce H\*

National Bureau of Standards

Industrial Code Rules TC

Department of Labor, State of New York NYSDL

Business Administration Office

Two World Trade Center New York, New York 10047 Department of Labor State of New York Office of Administrative Director Building 12, State Campus

Albany, New York 12226

or

MIL Military Specifications

Naval Supply Depot 5801 Tabor Avenue

Philadelphia, Pennsylvania 19111

NBBPVI National Board of Boiler and Pressure Vessel Inspectors

1155 North High Street Columbus, Ohio 43201

NFPA 'National Fire Protection Association

470 Atlantic Avenue

Boston, Massachusetts 02110

NFor.PA National Forest Products Association

1619 Massachusetts Avenue NW

Washington, D.C. 20036

NAPHCC National Association of Plumbing, Heating, Cooling Contractors

1016 20th Street

Washington, D.C. 20036

NSF National Sanitation Foundation

Ann Arbor, Michigan 48160

PDI Plumbing Drainage Institute

1018 N. Austin Boulevard Oak Park, Illinois 60302

PS and R Products Standards Section and Simplified Practice Recommendations

(See address under CS)

RCRBS Research Council on Riveted and Bolted Structural Joints of

the Engineering Foundation

345 East 47th Street

New York, New York 10017

SJI Steel Joist Institute

Suite 707, 2001 Jefferson Davis Highway, Crystal City Plaza

Arlington, Virginia

TPI Truss Plate Institute

7100 Baltimore Avenue

College Park, Maryland 20740

ULI Underwriters' Laboratories, Inc.

207 East Ohio Street Chicago, Illinois 60611

or

1285 Walt Whitman Road Melville, New York 11746

<sup>\*</sup>Standards are obtainable from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402

#### Part I

#### Generally Accepted Standards applicable to General Provisions

#### TESTING LABORATORIES

ASTM

Directory of Testing Laboratories, Commercial-Institutional STP - 333 C

#### SAFETY DURING CONSTRUCTION AND DEMOLITION

IC

Protection in Construction, Demolition and Excavation Operations Industrial Code Rule No. 23, as amended effective August 1, 1973

#### TEMPORARY HEAT DURING CONSTRUCTION

ANSI

Safety Requirements for Temporary and Portable Space Heating Devices and Equipment Used in the Construction Industry, Alo.10-1970

#### Part 2

#### Generally Accepted Standards applicable to Space Requirements

ANSI,	Fixed Ladders, Safety Code for, A14.3-1956 Specifications for Making Buildings and Facilities Accessible to,
ANSI,	and Usable by, the Physically Handicapped, All7.1-1961 (Reaffirmed 1971) excluding sections 4.2.4 to 5.13.6 inclusive.
ANSI,	Performance Specifications and Methods of Test for Transparent Safety Glazing Material Used in Buildings, Z97.1-1972
NFPA,	Tents, Grandstands and Air-Supported Structures Used For Places of Assembly No. 102-1972
CPAI,	Minimum Performance Standard For Single Wall Air-Supported Structures, March 31, 1971 with Amendment No. 1, August 1, 1972.
IC,	Rules Relating to Sanitation, Industrial Code Rule No. 9, effective October 1, 1947
NFPA,	Aircraft Hangars, No. 409, 1973

#### Part 3

#### Generally Accepted Standards applicable to Structural Requirements

#### ADHESIVES

MIL,

APA, Performance Specification for Adhesives for Field-Gluing Plywood to

Wood Framing, AFG-01, 1971

FS, Adhesive, Casein-Type, Water and Mold Resistant, MMM-A-125C, 1969 FS, Adhesive, Urea-Resin-Type (Liquid and Powder), MMM-A-188B, 1960

Adhesive, Phenol and Resorcinol Resin Base (for Marine Service Use)

MIL-A-22397, 1960 with 1964 amendment

#### AIR-SUPPORTED STRUCTURES

CPAI Minimum Performance Standard for Single-Wall Air-Supported Structures,

March 31, 1971 with Amendment No. 1, August 1, 1972

#### ALUMINUM

AA, Aluminum Construction Manual, Specifications for Aluminum Structures,

November, 1971

#### CONCRETE AND CONCRETE UNITS

ACI, Building Code Requirements for Reinforced Concrete, ACI 318-63, or

ACI 318-71, with 1973 Supplement

ACI, Recommended Practice for Manufactured Reinforced Concrete Floor and

Roof Units, ACI 512-67

'l'ACI, Minimum Requirements for Thin-Section Precast Concrete Construction,

as Modified, ACI 525-63

ACI, Recommended Practice for Shotcreting, ACI 506-66

#### FOUNDATIONS AND PILES

ANSI, American Standard Building Code Requirements for Excavations and

Foundations, A56.1-1952, Excluding Section 5-1.3(f), Footnotes 1,2,3 and 5

ASCE, Pile Foundations and Pile Structures, Manual of Engineering Practice,

No. 27, 1946

ASTM, Specification for Round Timber Piles, D25-73

ASTM, Specification for Welded and Seamless Steel Piles, A252-74

AWPA, Standards C1, C3 1974

NFPA, Construction and Protection of Piers and Wharves, No. 87, 1971

#### MASONRY MATERIALS

ANSI, Building Code Requirements for Masonry, A41.1-1953 (Reaffirmed 1970)

ANSI, Building Code Requirements for Reinforced Masonry, A41.2-1960

(Reaffirmed 1970)

ANSI, Specifications for Gypsum Plastering, A42.1-1964

ANSI, Specifications for Portland Cement-Lime Plastering, Exterior (Stucco)

and Interior, A42.2-1971

ANSI, Specifications for Lathing and Furring for Portland Cement and Portland

Cement-Lime Plastering, (Stucco) and Interior, A42.3-1971

Specifications for Interior Lathing and Furring, A42.4-1967 ANSI, Specifications for Reinforced Gypsum Concrete, A59.1-1968 ANSI, ASTM, Specification for Quicklime for Structural Purposes C5-68 (1974) Specification for Natural Cement Cl0-73 ASTM, Specification for Gypsum, C22-50 (1974) ASTM, Specification for Concrete Aggregates, C33-74a ASTM, Specification for Structural Clay Load-Bearing Wall Tile C34-62 (1970) ASTM, Specification for Gypsum Partition Tile or Block, C52-54 (1972) ASTM. Specification for Concrete Building Brick, C55-71 ASTM. Specification for Structural Clay Non-Load Bearing Tile, C56-71 ASTM, Specification for Building Brick (Solid Masonry Units Made from Clay or Shale) ASTM, c62-69 Specification for Calcium Silicate Facebrick (Sand-Lime Brick) C73-67 (1972) ASTM, Specification for Hollow Load-Bearing Concrete Masonry Units, C90-70 ASTM. ASTM, Specification for Masonry Cement, C91-71 Specification for Ready-Mixed Concrete, C94-74a ASTM, Specification for Hollow Non-Load Bearing Concrete Masonry Units, C129-73 ASTM, Specification for Hydraulic Hydrated Lime for Structural Purposes, C141-67 (197 ASTM, Specification for Aggregate for Masonry Mortar, C144-70 ASTM. Specification for Solid Load-Bearing Concrete Masonry Units, C145-71 ASTM, Specification for Portland Cement, C150-74 ASTM, Specification for Blended Hydraulic Cements, C595-74 ASTM, Specification for Hydrated Lime for Masonry Purposes C207-74 ASTM. Specification for Mortar for Unit Masonry C270-73 ASTM. Specification for Lightweight Aggregate for Structural Concrete C330-69 ASTM.

#### SHEATHING

ANSI, Specifications for the Application and Finishing of Wallboard, A97.1-1965 ASTM, Specification for Gypsum Sheathing Board C79-67 (1973)

ASTM, Specifications for Gypsum Wallboard, C36-73

FS, Insulation Board, Thermal and Insulation Block Thermal, LLL-I-535A(1) 1970

#### STEEL AND IRON

#### Design of Steel Structural Members

AISI, Specification for the Design of Cold-Formed Steel Structural Members, 1968, with Addendum No. 1, dated 1971

AISC, Specification for the Design, Fabrication and Erection of Structural Steel for Buildings, February 12, 1969, with Supplement No. 1, November 1, 1970, Supplement No. 2, December 8, 1971 and Supplement No. 3, June 12, 1974

AISC-SJI, Standard Specifications for Longspan Steel Joists, LJ-Series and LH Series,
Deep Longspan Steel Joists, DLJ-Series and DLH-Series, November 1, 1972
AISC-SJI, Standard Specifications and Load Tables for Open Web Steel Joists, J-Series and

H-Series, November 1, 1972

AWS, Structural Welding Code, AWS D1.1,1972 including Revisions 1973 and 1974 RCRBS, Specifications for Structural Joints using ASTM A325 or A490 Bolts, Approved by the Research Council on Riveted and Bolted Structural Joints of the Engineering Foundation, May 8, 1974

#### Steel Material and Product Specifications

ASTM, Specification for Gray Iron Castings, A48-74

Specification for Welded and Seamless Steel Pipe, A53-73 ASTM,

#### WOOD

AITC, Inspection Manual, AITC 200-73, 201-73 and 202-73

Standard Specification for Structural Glued Laminated Timber, AITC 117-71 AITC,

Plywood Design Specifications and Supplements 1 through 4, 1974 APA,

APA, Plywood Commercial/Industrial Guide, July, 1974

Methods for Establishing Structural Grades and Related Allowable Properties ASTM. for Visually Graded Lumber, D245-74

Methods of Conducting Strength Tests of Panels for Building Construction, ASTM, E72-74a

Structural Glued Laminated Timber, CS 253-63 CS,

CS, Wood Shingles; Red Cedar, Tidewater Red Cypress, California Redwood CS31-52

NFor.PA National Design Specification for Stress-Grade Lumber and Its Fastenings, 1973, except Footnote 1, Table 22

Supplement to National Design Specification for Stress-Grade Lumber and NFor.PA. and its Fastenings, April, 1973

NFor.PA Manual for House Framing, Wood Construction Data No. 1, 1970

Plank-and-Beam Framing for Residential Buildings, Wood Construction NFor.PA, Data No. 4, 1970

NFor.PA, Heavy Timber Construction Details, Wood Construction Data No. 5, 1974

Span Tables for Joists and Rafters, 1973 NFor.PA,

NFor.PA, Wood Structural Design Data, 1970

Working Stresses for Joists and Rafters, April, 1973 NFor.PA,

American Softwood Lumber Standards, PS 20-70 PS, Construction and Industrial Plywood, PS 1-74 PS,

PS, Hardwood and Decorative Plywood, PS-51-71

Design Specifications for Light Metal Plate Connected Wood Trusses, TPI-74 TPI,

#### Wood Treatment

AWPA, Standards for Pressure Treating Wood, 1974

Subterranean Termites, Their Prevention and Control in Buildings. DA,

Home and Garden Bulletin No. 64, revised January 1972

Primer, Coating, Exterior (Undercoat for Wood, Ready-Mixed, White and Tints), FS,

TT-P-25C-1973

FS, Wood Preservation: Treating Practices, TT-W-5711(2) 1972 (AWPA: specifications and instructions are referenced)

#### Flood Proofing for Flood Prone Areas

"Flood Proofing Regulations" - EP 1165 2 314 - June 1972, Office of the Chief of Engineers, U.S. Army, Washington, D.C.

#### Part 4

#### Generally Accepted Standards applicable to Fire-Safety Requirements

#### EXITS AND ENCLOSURES

NFPA Code for Safety to Life from Fire in Buildings and Structures No. 101, 1973

#### EXPLOSION & HEAT VENTS

NFPA, Guide for Explosion Venting, No. 68, 1974

NFPA, Guide for Smoke and Heat Venting, No. 204, 1968

#### FIRE PREVENTION

AIA, Fire Prevention Code, 1970, excluding sections 14.4 thru 14.6

#### FIRE-RESISTANCE RATINGS

ASTM, Methods of Fire Tests of Building Construction and Materials, Ell9-73

NFPA, Methods of Fire Tests of Door Assemblies, No. 252, 1972

NFPA, Methods of Fire Tests of Roof Coverings, No. 256, 1970

NFPA, Roof Coverings, 203M, 1970

NFPA, Fire Doors and Windows, No. 80, 1974

ULI, Building Materials Directory, 1974

ULI, Fire Resistance Index 1974

FMS Factory Mutual System Approval Guide, 1974

#### FLAME-RESISTANT MATERIALS

ASTM Method of Test for Noncombustibility, E-136-65

NFPA, Methods of Fire Tests for Flame-Resistant Textiles and Films, No. 701, 1969

NFPA, Fire Retardant Treatments of Building Materials, No. 703, 1961

AWPA, Fire Retardant Treatment, C20-1974 (Lumber) C27-1974 (Plywood)

#### FLAME SPREAD

ASIM Method of Test for Surface Burning Characteristics of Building Materials,

E84-70 (NFPA No. 255, 1972)

ASIM, Standard Method of Test for Flammability of Self-Supporting Plastics, D635-72

ASIM, Standard Method for Measuring the Density of Smoke from the Burning or

Decomposition of Plastics D2843-70

FS Sound Controlling Blocks & Boards (Acoustical Tiles & Panels, Prefabricated),

SS-S-118a(3), June 14, 1972

#### FIRE PROTECTION SYSTEMS

See part 5, page 11, Fire Protection Equipment

#### HAZARDOUS PROCESSES IN BUILDING

NFPA,	Prevention of Dust Explosions in Flour and Feed Mills, No. 61C-1973
ANSI,	Prevention of Dust Explosions in the Plastics Industry, Z12.16-1971,
	(NFPA No. 654-1970)
TATTATA	December of Deat Hamiltonian in Tudestain Plants II (0.200)

NFPA, Prevention of Dust Explosions in Industrial Plants, No. 63-1971
IC, Manufacturing, Handling and Storage of Military Pyrotechnics, Industrial

Code Rule No. 37 (12 NYCRR 37), effective Jule 1, 1943

NFPA Pyroxylin Plastics in Factories No. 42, 1967 NFPA Pyroxylin Plastic Storage and Sale No. 43, 1967

NFPA, Storage, Handling and Processing of Magnesium, No. 48, 1974

NFPA, Production, Processing, Handling and Storage of Titanium, No. 481, 1974

#### Part 5

## Generally Accepted Standards Applicable to Equipment Requirements

#### AIR POLLUTION

DEC,

6 NYCRR, Chapter III, Air Resources, excluding parts 215, 217 and 218

#### CHIMNEYS, FLUES AND GAS VENTS

ANSI,

Chimneys, Fireplaces, and Vents, A52.1-1973 (NFPA No. 211-1972)

ANSI,

Sizes of Clay Flue Linings, A62.4-1947

#### CONVEYORS AND LIFTS

#### Automotive Lifts

CS,

Automotive Lifts, CS 142-65

#### Conveyors

ANSI,

Safety Standards for Conveyors and Related Equipment, B20.1-1972

Safety Code for Mechanized Parking Garage Equipment, All3.1-1964

(Reaffirmed 1971)

#### Cranes, Derricks and Hoists

ANSI,

Safety Code for Overhead and Gantry Cranes, B30.2.0-1967 (Partial

revision of B30.2-1943)

ANSI,

Safety Code for Derricks, B30.6-1969 (Partial revision of B30.2-1943)

#### Industrial Lifts

CS,

Industrial Lifts and Hinged Loading Ramps, CS 202-56 (errata 1960)

#### Manlifts

ANSI,

Safety Standard for Manlifts, A90.1-1969 (Supplement to A90.1-1969,

A90.la-1972)

#### ELECTRICAL WIRING AND EQUIPMENT

NFPA, National Electrical Code, No. 70-1975

ANSI Electrical Code for One and Two-Family Dwellings, Cl.1971

ANSI. National Electrical Safety Code, American National Standard C2, 1973

ULI, Electrical Appliance and Utilization Equipment List, 1974

ULI, Hazardous Location Equipment List, 1974

ULI, Electrical Construction Materials List, 1974

DH, 10 NYCRR, Chapter V (State Hospital Code), August, 1974

#### ELEVATORS, DUMBWAITERS AND ESCALATORS

ANSI,

Safety Code for Elevators, Dumbwaitors, Escalators and Moving Walks, A17.1-1971 with Supplements A17.1a-1972, 17.1b-1973 and A17.1c-1974

Carbon Dioxide Estinguishing Systems, A54.1-1974 (NFPA No. 12-1973)

#### ENGINES FOR EMERGENCY USE

ANSI,

ANSI,

Stationary Combustion Engines and Gas Turbines, B176.1-1974 (NFPA No. 37-1970)

#### FIRE PROTECTION EQUIPMENT

ANOI,	Carbon brokide mading arbiting by socials, 117 1.12-17/1 (11111 110. 22 17/17)
ANSI,	Water Spray Fixed Systems for Fire Protection, A54.2-1974 (NFPA No. 15-1973)
ANSI,	Fire Detecting Thermostats, Z220.1-1971
ANSI,	Standpipe and Hose Systems, Z273.1-1974 (NFPA No. 14-1974)
ANSI,	Centrifugal Fire Pumps, Z277.1-1974 (NFPA No. 20-1974)
ANSI,	Foam Extinguishing Systems, Z286.1-1974 (NFPA No. 11-1974)
FMS,	Factory Mutual System Approval Guide, 1975
IC,	Automatic Fire Extinguishing Systems, Industrial Code Rule No. 20,
,	(12 NYCRR 20) as amended, effective July 1, 1961, excluding Sections
	20-1.10, 20-3.1, 20-3.2 and 20-3.3
NFPA,	Sprinkler Systems, No. 13-1974
NFPA,	Outside Protection, No. 24-1973
NFPA,	Central Station Protective Signaling System for Guard, Fire Alarm, and
,	Supervisory Service, No. 71-1974
NFPA,	Local Protective Signaling Systems for Watchman, Fire Alarm and
	Supervisory Service, No. 72A-1974
NFPA,	Auxiliary Protective Signaling Systems for Fire Alarm Service, No. 72B-1974
NFPA,	Remote Station Protective Signaling System for Fire Alarm and
,	Supervisory Service, No. 72C-1974
NFPA,	Proprietary Protective Signaling Systems for Watchman, Fire Alarm and
,	Supervisory Service, No. 72D-1974
NFPA,	Automatic Fire Detectors, No. 72E-1974
ULI,	Fire Protection Equipment List, January, 1974, including quarterly
,	supplements
ULI,	Building Materials Directory, January, 1974, including quarterly
,	supplements
ULI,	Fire Resistance Index, January, 1974, including quarterly supplements
,	

#### FLAMMABLE LIQUIDS (See also Oil-Fired Equipment)

ANSĮ,	Flammable and Combustible Liquids Code, Z288.1-1974 (NFPA No. 30-1973)
אכדים זוו	Described and a standard stand

NFPA, Drycleaning plants, No. 32-1974

Spray application Using Flammable and Combustible Materials, No. 33-1973 NFPA.

Dip Tanks Containing Flammable or Combustible Liquids, No. 34-1974 NFPA. Storage of Flammable and Combustible Liquids on Farms and Isolated NFPA,

Construction Projects, No. 395-1972.

#### Tanks for Flammable Liquids

API,	Recommended	Rules	for	Design a	and	Construction	of	Large,	Welded,	

Low-Pressure Storage Tanks, STD 620, Fifth Edition, 1973

Specification for Oil Storage Tanks with Riveted Shell, STD 12A, API,

Seventh Edition, 1941, Reissued 1951

Welded Steel Tanks for Oil Storage, STD 650, Fifth Edition, 1973 API, ULI, Gas and Oil Equipment List, October 1974, including quarterly

supplements

#### Gases

#### Liquified Flammable Gas

ANSI,	Liquified	Petroleum	Gases	at	Utility	Gas	Plants.	Z106.2-1974

(NFPA No. 59-1974)

ANSI, Liquified Natural Gas, Z225.1-1972 (NFPA No. 59A-1972)

ASME, Boiler and Pressure Vessel Code. 1974; Section VIII-Pressure Vessels NFPA,

Storage and Handling of Liquified Petroleum Gases, No. 58, 1974

#### Other Hazardous Gases

ANSI,	Nonflammable	Medical Ga	s System	MDF 1-107F	(NFPA 56F-1974)
* TT 1 O T 3		TICULCOL UC	ib Divident	ロルフィーエーエフィア	(1)11 (1) (1) (1)

Bulk Oxygen Systems at Consumer Sites, Z292.1-1974 (NFPA No. 50-1974) ANSI.

NFPA, Oxygen-Fuel Gas Systems for Welding and Cutting, No. 51-1974

Inhalation Anesthetics (Flammable and Non-flammable) No. 56A-1973 NFPA,

#### HEATING, VENTILATING, REFRIGERATION AND AIR CONDITIONING

#### General Design and Installation

ANSI,	Safety Code for Mechanical Refrigeration, By.1-1971
ANSI,	Installation of Blower and Exhaust Systems for Duct, Stock and Vapor

Removal or Conveying Z33.1-1974 (NFPA No. 91-1973)

ANSI, Air-Conditioning and Ventilating Systems B144.2-1973 (NFPA No. 90A-1974 Warm Air Heating and Air Conditioning Systems, B144.3-1973 (NFPA No.90B-197) ANSI,

Handbook of Fundamentals, 1972 ASHRAE,

Guide and Data Book: Equipment, 1972 ASHRAE,

Handbook and Product Directory: Systems, 1973 ASHRAE,

Handbook and Product Directory: Applications, 1974, excluding Sections III, ASHRAE,

IV and V

NFPA, Parking Structures, No. 88 A-1973

Repair Garages, No. 88B-1973 NFPA,

NFPA, Vapor Removal from Commercial Cooking Equipment, No. 96-1973 ULI, Electrical Appliance and Utilization Equipment List, June, 1974,

including quarterly supplements

#### Boilers, Furnaces, and Central Systems

ANSI, Gas-Fired Low-Pressure Steam and Hot Water Boilers, Z21.13-1972 with addenda Z21.13a-1973 and Z21.13b-1974

ANSI, Gas-Fired Duct Furnaces, Z21.34-1971 with addenda Z21.34a-1973 and Z21.34b-1974

ANSI, Gas-Fired Gravity and Forced Air Central Furnaces, Z21.47-1973 with addendum Z21.47a-1974

ANSI, Gas-Fired Gravity and Fan Type Floor Furnaces, Z21.48-1973, with addendum Z21.48a-1974

ANSI, Gas-Fired Gravity and Fan Type Vented Wall Furnaces, Z21.49-1972 with addenda Z21.49a-1973 and Z21.49b-1974

ASME, Boiler and Pressure Vessel Code, 1974

Section I, Power Boilers Section IV, Heating Boilers Section VIII, Pressure Vessels

IC, Boilers, Industrial Code Rule No. 4, (12 NYCRR 4) Effective March 31, 1965

IC, Construction, Installation, Inspection and Maintenance of Steam Boilers,

Industrial Code Rule No. 14 (12 NYCRR 14) as amended, effective November 18, 1958

NFPA, Installation and Operation of Pulverized - Fuel Systems, No. 60-1973

ULI, Gas and Oil Equipment List, October 1974, including quarterly supplements

#### Gas-Fired Equipment (See also Piping Equipment and Systems)

AGA, Directory of Certified Appliances and Accessories, July 1974 (including monthly supplemental directories)

ANSI, National Fuel Gas Code, Z223.1-1974 (NFPA No. 54-1974)

ANSI. Gas Utilization Equipment in Large Boilers, Z83.3-1971 with addendum Z83.3a-1972

#### Miscellaneous Heating Equipment

ANSI, Ovens and Furnaces, Z294.2-1974 (NFPA No. 86A-1973)

NBBPVI, Relieving Capacities of Safety Valves and Relief Valves, 1970 Second Edition, Reprint 1973

#### Oil-Fired Equipment

ANSI, Performance Requirements for Oil-Powered Central Furnaces Z91.1-1972, with addendum Z90.1a-1973

ANSI, Safety Standard for Oil-Fired Central Furnaces, Z96.1-1973

CS, Automatic Mechanical-Draft Oil Burners Designed for Domestic Installation, CS 75-76

NFPA, Oil Burning Equipment, No. 31-1974

ULI, Gas and Oil Equipment List, October 1974, including quarterly supplements

#### INCINERATORS

NFPA, Incinerators and Rubbish Handling, No. 82-1972

#### LIGHTING

NFPA, Code for Safety to Life from Fire in Buildings and Structures, No. 101-1973

#### LIGHTNING PROTECTION

NFPA, Lightning Protection Code, No. 78-1968

#### PIPING EQUIPMENT AND SYSTEMS

ANSI, Power Piping, B31.1-1973, with Addenda B31.1a-1973, B31.1c and B31.1d-1974

ANSI, Fuel Gas Piping, B31.2-1968

ANSI, Refrigeration Piping, B31.5-1974

ANSI, Gas Transmission and Distribution Piping Systems, B31.8-1968 with supplement

B31.8b-1969

ANSI, National Fuel Gas Code, Z223.1-1974 (NFPA No. 54-1974)

PLUMBING (See pages 17 through 22 - Standards for Plumbing Materials)

#### General Design and Installation

NAPHCC, National Standard Plumbing Code, 1973, Chapters 1 through 15, and Appendices A and B inclusive.

#### Drinking Water Supplies

DH, 10 NYCRR, Part 5 - Drinking Water Supplies (State Sanitary Code) May 31, 1974

DH, 10 NYCRR, Part 72 - Drinking Water Standards, April 30, 1967

#### Swimming Pools

DH, Swimming Pools and Bathing Beaches, Bulletin 27

DH, 10 NYCRR, Part 6 - Swimming Pools and Bathing Beaches (State Sanitary Code)

May 31, 1973

#### Sewage Disposal Systems

DH, 10 NYCRR, Appendix 72-B, Individual Household Systems, Waste Treatment Handbook, April 30, 1974

### Equipment for Hospitals, Nursing Homes and Other Medical Care Facilities

10 NYCRR, Chapter V (State Hospital Code), August 31, 1974 DH,

#### Tanks, Water Supply

Standard for Steel Tanks - Standpipes, Reservoirs, and Elevated Tanks for AWWA,

Water Storage D100-73

NFPA, Water Tanks for Private Fire Protection, No. 22-1971

#### STATIC ELECTRICITY

Specifications for Nonspark Conductive Oxychloride Composition Flooring ANSI,

and Its Installation, A88.9-1955

NFPA, Static Electricity, No. 77-1972

TANKS (See Flammable Liquids and Plumbing)

#### VENTING: Explosion, Smoke and Heat

Explosion Venting Guide, No. 68-1974 NFPA,

Smoke and Heat Venting Guide, No. 204-1968 NFPA,

#### WINDOW CLEANING EQUIPMENT

Safety Requirements for Window Cleaning, A39.1-1969 ANSI,

IC, Protection of Persons Employed at Window Cleaning - Structural Requirements, Equipment and Procedures, Industrial Code Rule No. 21 (12 NYCRR) as amended, effective October 1, 1966

Advisory Standards for Construction, Operation and Maintenance of Suspended NYSDL, Scaffolds used for Window Cleaning and Light Maintenance, AS 101, effective May 23, 1973

#### X-RAY AND GAMMA RAY RADIATION

Ionizing Radiation, Part 16, State Sanitary Code, September 1974 DH,

Protection Against Radiations from Sealed Gamma Sources, NBS Handbook H73, 1960 Η,

Medical X-Ray and Gamma Ray Protection up to Three Million Volts, NBS Handbook Η,

H 76, 1961 with 1964 Addendum

Safe Handling of Radioactive Materials, NBS Handbook H 92, 1964 Η,

Radiation Protection, Industrial Code Rule No. 38, (12 NYCRR 38) as amended, IC,

effective September 1, 1971

Fire Protection Practice for Facilities Handling Radioactive Materials, NFPA,

No. 801, 1970

#### High Frequency Radiation

Rules Governing Industrial, Scientific and Medical Equipment, Volume II, Part 18 FCC, September, 1972 (CC1.6/2:972)

TABLE P 603 -- STANDARDS FOR PLUMBING MATERIALS (Revised January 1, 1975)
(This table is cited in section P 603 of the STATE BUILDING CONSTRUCTION CODE APPLICABLE TO PLUMBING and presents the latest edition of applicable generally accepted standards for plumbing materials.)

Materials ANSI	ASTM	FS	Other Standards
Plumbing fixtures:  Drinking-water coolers, self-contained, mechanically refrigerated	/3 Ncne	None None None None	(ARI 1010-73) None None PS5-66 None
Gel-coated glass-fiber reinforced polyester resin shower receptor and shower stall units	None None None None	None WW-P-541D-1971 None None RR-S-726(1)1950 None	None None CS243-62 None None

## TABLE P 603 -- STANDARDS FOR PLUMBING MATERIALS (Revised January 1, 1975)

(Continued from page 16)

	Materials	ANSI	ASTM	FS	Other Standards
Fe	errous pipe and fittings:				
	Cast-iron soil pipe and fittings, extra heavy and				
	service weight	All2.5.1-1973	(A74 <b>-7</b> 2	) None	None
	Cast-iron water pipe, cast in metal molds	A21.6-1970	None	None	(AWWA C106-70)
	Cast-iron water pipe, cast in sand lined molds	A21.8-1970 `	None	${\tt None}$	(AWWA C108-70)
	Cast-iron water pipe fittings	A21.10a-1972	None	None	(AWWA CllOa-1972)
	Cast-iron water pipe (2")		None	None	(AWWA Cll2-71)
	Cast-iron (threaded) pipe		None	None	None
	Cast-iron (threaded) fittings		None	None	None
	Cast-iron (threaded) drainage fittings		None	None	None
	Hubless cast-iron sanitary system with No-Hub	•			
	pipe and fittings	None	None	None	CISPI 301-72
	Malleable iron fittings (threaded), 150 lb		None	None	None
1	Nipples, pipe, threaded			WW-N-351B(1)1970	None
17-	Pipe fittingsbushings, locknuts and plugs;	2.0		= 0, = (=, ), =	
ı	iron and steel (threaded), 125-150 lb	None	None 1	WW-P-4 <b>7</b> 1B-1970	None
	Steel pipe (seamless and welded, black and zinc coated)	2,0110	2.000	2 11>11-	
	(galvanized)	B125, 2-1972	(Al20-7	3) None	None
	Unions, pipe, steel or malleable iron			WW-U-531D-19 <b>7</b> 3	None
	Valves, gate, cast-iron, threaded and flanged,	1,0110	1.0110	U-/Jub 1/1J	2, 2-2-2
	125-250 lb	None	None	ww-v-588- <b>1</b> 971	None

TABLE P 603 -- STANDARDS FOR PLUMBING MATERIALS (Revised January 1, 1975) (Continued from page 17)

Materials	ANSI	ASTM	FS	Other Standards
Nonferrous metallic pipe and fittings:  Brass pipe.  Brass tube.  Bronze flanges and flanged fittings,  150 & 300 lb.  Cast bronze fittings for flared copper tube.  Cast bronze screwed fittings, 125 & 250 lb.  Cast bronze solder-joint drainage fittings, DWV.  Cast bronze solder-joint pressure fittings.  Copper drainage tube, type DWV.  Copper pipe, standard sizes.  Copper pipe, threadless.  Copper water tube, types K, L & M.  Copper-plated stainless steel water, DWV tube,  type TP 430.  Lead pipe, bends and traps.  Unions, pipe; brass or bronze, 250 lb.  Valves, ball.  Valves, bronze; gate.  Valves, bronze; gate.  Valves, bronze; angle, check and globe; screwed,  flanges, solder; 125, 150 & 200 lb.  Wrought copper and bronze solder-joint pressure  fittings.  Wrought copper and wrought copper alloy solder  joint drainage fittings.	B16.24-1971 B16.26-1967 B16.15-1971 B16.23-1969 B16.18-1972 None None None None None None None None	B43-74a B135-74 None None None None None B306-74b B42-74b B302-74a B88-74a A651-71, B254-70 None None None None None	None None None None None None None None	
JOINT GLATHAGE ITPOTHED	••••••			

TABLE P 603 -- STANDARDS FOR PLUMBING MATERIALS (Revised January 1, 1975) (Continued from page 18)

Materials	ANSI	ASTM	FS	Other Standards
Nonmetallic pipe and fittings (Other than plastics):  Asbestos-cement pipe, nonpressure(sewer)	None None None None None None None	C644-74 None C508-73 D1861-73 D2311-73 D1862-73 D2313-73 C14-74	None None None None None None None	None AWWA C400-73 None None None None None None None
Plastic pipe, fittings and solvent cements:  Acrylonitrile-butadiene-styrene (ABS) plastic  pipe, schedules 40 and 80	None None None None None	D1527-73a D2468-73 D2469-73 D2465-73 D2282-73a D2261-74	None None None None None	NSF 14 NSF 14 NSF 14 NSF 14 NSF 14 NSF 14

TABLE P 603 -- STANDARDS FOR PLUMBING MATERIALS (Revised January 1, 1975) (Continued from page 19)

Materials	ANSI	ASTM	FS	Other Standards
and a large to a large to a large to a monta (a on it)				
Plastic pipe, fittings and solvent cements (con't) Plastic insert fittings for polyethylene plastic pipe Polyethylene (PE) plastic pipe, schedules 40 and 80	None	D2609-73	None	nsf 14
based on outside diameter	None	D2447-74	None	NSF 14
Polyethylene (PE) plastic pipe (SDR-PR)	None	D2239-74	None	NSF 14
40, 80 and 120  Polyvinyl chloride (PVC) plastic pipe fittings,	None	D1785-74	None	NSF 14
socket-type, schedule 40	None	D2466-74	None	NSF 14
Polyvinyl chloride (PVC) plastic pipe fittings, socket-type, schedule 80	None	D2467-74	None	NSF 14
threaded, schedule 80	None	D2464 <b>-7</b> 4	None	NSF 14
Polyvinyl chloride (PVC) plastic pipe, (SDR-PR and Class T Polyvinyl chloride (PVC) plastic drain, waste and	)None	D2241-74	None	NSF 14
vent pipe and fittings	None	D2665-74	None	NSF 14
plastic pipe and fittings	None	D2235-73	None	NSF 14
Solvent cements for polyvinyl chloride (PVC) plastic pipe and fittings	None	D2564-73a	None	NSF 14

TABLE P 603 -- STANDARDS FOR PLUMBING MATERIALS (Revised January 1, 1975) (Continued from page 20)

	Materials	ANSI	ASTM	FS	Other Standards
Mi	scellaneous materials: Air gap standards	All2.1.2-1942 All2.1.1-1971 None None	None None A74-72 None	None None None QQ-C-40(2)-1970	None (ASSE 1001-1970) None None
	Caulking lead, type l  Cement lining for cast iron pipe and fittings for water  Coal-tar enamel, protective coating for steel water pipe	A21.4-1974 None	None None	None None	(AWWA ClO4-74) AWWA C203-73
-21-	Compression joints for vitrified clay bell and spigot pipe	None A112.21.1-1968 None None None	C425-74 None None None None	None None None WW-H-171D-1970 WW-C440B(2)-1973 TT-P-001536-1968	
	Relief valves and automatic gas shutoff devices for hot water supply systems	Z21.22-1971 Z21.22a-1972 A112.21.2-1971 None	None None None C564-70	None None None None	None None None

## TABLE P 603 -- STANDARDS FOR PLUMBING MATERIALS (Revised January 1, 1975) (Continued from page 21)

Materials	ANSI	ASTM	FS	Other Standards
Miscellaneous materials (continued) Rubber gaskets (concrete sewer pipe) Rubber rings for asbestos-cement pipe Sheet copper Sheet lead, grade A Soft solder Water hammer arresters. Water heaters, automatic storage type.	None None None None All2.26.1-1969 Z21.10.1-1971	C443-74 D1869-72 B152-74a None None None	None None None QQ-L-201F(2)-19 QQ-S-571E-1972 None None	None None None
Water heaters, automatic storage type, addenda  Water heaters, instantaneous  Water meters, cold, displacement type  Water meters, cold current type  Water meters, cold, compound type	A21.10.1a,b-197 None None None None None	None None None None None	None WW-H-191B-1970 None None None	None None AWWA C700-71 AWWA C701-70 AWWA C702-74

