

Science Division
Rochester Public Library
115 South Avenue
Rochester, New York 14604
428-7327

GENERALLY ACCEPTED STANDARDS

applicable to

STATE BUILDING CONSTRUCTION CODE

June 26, 1978

State of New York
Hugh L. Carey, Governor

DOES
NOT
CIRCULATE

r
OVERSIZE
343.747
N532sbg
1978

Rochester Public Library
DEC 20 1978
ROCHESTER, N. Y. 14604



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

STATE BUILDING CODE COUNCIL

- Victor Marrero, Chairman
- G. Willard Blauvelt
- Joseph Cioccolanti
- James N. DeSerio, P.E.
- Max M. Farash
- Arthur C. Friedel, Jr., R.A.
- Norman D. Kurtz, P.E.
- Thomas A. Murphy
- James W. Ray
- Vincent A. Vetrano

HOUSING AND BUILDING CODES BUREAU

Bennett Selekof, P.E.
Director

Fred L. Kessner, P.E.
Assistant Director

Technical Staff

- Max Rosenfeld, R.A.....Associate Architect
- Edward V. Heiskell, Jr., P.E.....Associate Building Construction Engineer
- Kenneth S. Lewison, P.E.....Associate Building Mechanical Engineer
- Robert W. Luoma, P.E.....Associate Building Electrical Engineer
- William H. Ruhrort, P.E.....Associate Building Structural Engineer
- Jesus Barroso, P.E.....Senior Building Structural Engineer
- Daniel Jordan, P.E.....Senior Building Construction Engineer
- Arthur Y. Kaplan, P.E.....Senior Plumbing Engineer
- Boris E. Lewicky, P.E.....Senior Building Structural Engineer
- Hyman Perlman, P.E.....Senior Building Construction Engineer
- James T. Westover.....Senior Engineering Technician

Field Staff

- Albert W. Kreyl, R.A.....Senior Building Construction Engineer
- Joseph A. McGrath, R.A.....Senior Building Construction Engineer
- Robert H. Rosenberg, P.E.....Senior Building Construction Engineer
- Thomas R. Trainer, P.E.....Senior Building Construction Engineer

FOREWORD

A generally accepted standard is defined in the State Building Construction Code as 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 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 or 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 twenty-second edition of the Generally Accepted Standards, superseding the edition dated May 1, 1977.

June 26, 1978

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

ACIL American Council of Independent Laboratories, Inc.
1725 K Street, N.W.
Washington, D.C. 20006

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, N.W.
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 N.W.
Washington, D.C. 20006

ARI American Refrigeration Institute
Arlington, Va. 22210

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

AWWA American Water Works Association
6666 West Quincy Avenue
Denver, Colorado 80235

AWS American Welding Society
2501 NW Seventh Street
Miami, Florida 33125

AWPA American Wood Preservers' Association
1625 I Street NW
Washington, D. C. 20006

CISPI Cast Iron Soil Pipe Institute
2029 K Street NW
Washington, D.C. 20006

CPAI Canvas Products Association International
600 Endicott Building
St. Paul, Minnesota 55101

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

DA* Department of Agriculture

DEC Department of Environmental Conservation
50 Wolf Road
Albany, N.Y. 12205

DH Department of Health, State of New York
84 Holland Avenue
Albany, N.Y. 12208

FCC* Federal Communications Commission

FMS Factory Mutual System
Factory Mutual Engineering Corporation
1151 Boston-Providence Turnpike
Norwood, Massachusetts 02062

FS* Federal Supply Service
Standardization Division
General Service Administration

H* Handbooks, U.S. Department of Commerce
National Bureau of Standards

IC NYS DL	Industrial Code Rules Department of Labor State of New York Business Administration Office Two World Trade Center New York, New York 10047	or	Department of Labor State of New York Office of Administrative Director Building 12, State Campus Albany, New York 12201
MIL	Military Specifications Naval Supply Depot 5801 Tabor Avenue Philadelphia, Pennsylvania 19111		
NCMA	National Concrete Masonry Association P.O. Box 9185 Rosslyn Station Arlington, Virginia 22209		
NCRP	National Council on Radiation Protection and Measurements NCRP Publications P.O. Box 30175 Washington, D.C. 20014		
NFPA	National Fire Protection Association 470 Atlantic Avenue Boston, Massachusetts 02210		
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 5342 Boulevard Place Indianapolis, Indiana 46208		
PCA	Portland Cement Association Old Orchard Road Skokie, Illinois 60076		
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
1703 Parham Road
Suite 204
Richmond, Va. 23229

TPI Truss Plate Institute
7411 Riggs Road
Hyattsville, Maryland 20783

UL Underwriters' Laboratories, Inc.
207 East Ohio Street
Chicago, Illinois 60611

or

1285 Melville Road
Melville, New York 11746

*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-333D
ACIL, Directory, 1976

SAFETY DURING CONSTRUCTION AND DEMOLITION

IC, Protection in Construction, Demolition and Excavation Operations
Industrial Code Rule No. 23(12 NYCRR 23) as amended effective
August 1, 1973, Including Amendment Insert dated February 1, 1975

TEMPORARY HEAT DURING CONSTRUCTION

ANSI, Safety Requirements for Temporary and Portable Space Heating
Devices and Equipment Used in the Construction Industry,
A10.10-1970

Part 2

Generally Accepted Standards
applicable to
Space Requirements

ANSI, Fixed Ladders, Safety Code for, A14.3-1974
ANSI, Specifications for Making Buildings and Facilities Accessible
to, and Usable by, the Physically Handicapped, A117.1-1961
(Reaffirmed 1971)
ANSI, Performance Specifications and Methods of Test for Transparent
Safety Glazing Material Used in Buildings, Z97.1-1972, including
Supplement Z97.1a-1977
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. 409-1975

Part 3

Generally Accepted Standards
 applied to
 Structural Requirements

ADHESIVES

- APA, Performance Specification for Adhesives for Field-Gluing Plywood to Wood Framing, AFG-01, 1974
- FS, Adhesive, Casein-Type, Water and Mold Resistant, MMM-A-125C, 1969
- FS, Adhesive, Urea-Resin-Type (Liquid and Powder), MMM-A-188C, 1975
- MIL, 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, April, 1976

CONCRETE AND CONCRETE UNITS

- ACI, Building Code Requirements for Reinforced Concrete, ACI 318-63 or ACI 318-77
- ACI, Recommended Practice for Manufactured Reinforced Concrete Floor and Roof Units, ACI 512-67
- ACI, Recommended Practice for Shotcreting, ACI-506-66
- PCA, Design Manuals and Publications

FOUNDATIONS AND PILES

- ANSI, American Standard Building Code Requirements for Excavations and Foundations, A56.1-1952, Excluding Sections 5-6.1 and 5-1.3(f), Footnotes 1-5 inclusive
- ASCE, Pile Foundations and Pile Structures, Manual of Engineering Practice, No. 27, 1946
- ASTM, Specification for Round Timber Piles, D25-73e
- ASTM, Specification for Welded and Seamless Steel Piles, A 252-75
- AWPA Standards C1, 1974, C1, 1976, C9, 1977
- NFPA Construction and Protection of Piers and Wharves, No. 87, 1975

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, A 42.2-1971
- ANSI, Specifications for Lathing and Furring for Portland Cement and Portland Cement-Lime Plastering(Stucco), and Interior, A42.3-1971

ANSI, Specifications for Interior Lathing and Furring, A42,4-1967
 ANSI, Specifications for Reinforced Gypsum Concrete, A59.1-1968(1972)
 ASTM, Specification for Quicklime for Structural Purposes, C5-59(1974)
 ASTM, Specification for Natural Cement, C10-76
 ASTM, Specification for Gypsum, C22-50 (1974)
 ASTM, Specification for Concrete Aggregates, C33-77
 ASTM, Specification for Clay Load-Bearing Wall Tile, C34-62 (1975)
 ASTM, Specification for Gypsum Partition Tile or Block, C52-54 (1977)
 ASTM, Specification for Concrete Building Brick, C55-75
 ASTM, Specification for Structural Clay Non-Load Bearing Tile, C56-71 (1976)
 ASTM, Specification for Building Brick (Solid Masonry Units Made from Clay or Shale), C62-75a
 ASTM, Specification for Calcium Silicate FaceBrick (Sand-Lime Brick), C73-75
 ASTM, Specification for Hollow Load-Bearing Concrete Masonry Units, C90-75
 ASTM, Specification for Masonry Cement, C91-75
 ASTM, Specification for Ready-Mixed Concrete, C94-74a
 ASTM, Specification for Hollow Non-Load Bearing Concrete Masonry Units, C 129-75
 ASTM, Specification for Hydraulic Hydrated Lime for Structural Purposes, C141-67 (1972)
 ASTM, Specification for Aggregate for Masonry Mortar, C144-76
 ASTM, Specification for Solid Load-Bearing Concrete Masonry Units, C145-75
 ASTM, Specification for Portland Cement, C150-77
 ASTM, Specification for Blended Hydraulic Cements, C595-76
 ASTM, Specification for Hydrated Lime for Masonry purposes, C207-76
 ASTM, Specification for Mortar for Unit Masonry, C270-73
 ASTM, Specification for Lightweight Aggregate for Structural Concrete, C330-77
 NCMA, A Manual of Facts on Concrete Masonry - TEK Information Series

SHEATHING

ANSI, Specifications for the Application and Finishing of Wallboard, A97.1-1965
 ASTM, Specification for Gypsum Sheathing Board, C79-76a
 ASTM, Specifications for Gypsum Wallboard, C36-76a
 FA, Insulation Board, Thermal and Insulation Block Thermal, LLL-I-535A(2) 1975 and Interim Amendment, 1976

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 1970 and No. 2 dated 1977
 AISI, Stainless Steel Cold-Formed Design Manual, 1974
 AISI, Manual for Structural Application of Steel Cables for Buildings, 1973
 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 and Load Tables for Longspan Steel Joists, LH-Series, Deep Longspan Steel Joists, DLH-Series, February 15, 1978
 AISC-SJI, Standard Specifications and Load Tables for Open Web Steel Joists, H-Series, February 15, 1978
 AWS, Structural Welding Code, AWS D1.1,1975 and 1976 and 1977 Revisions
 RCRBSJ, 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, February 4, 1976

Steel Material and Product Specifications

ASTM, Specifications for Gray Iron Castings, A48-76
 ASTM, Specification for Welded and Seamless Steel Pipe, A53-76

WOOD

AITC, Inspection Manual, AITC 200-73, 201-73 and 202-73
 AITC, Standard Specification for Structural Glued Laminated Timber, AITC 117-76
 APA, Plywood Design Specifications and Supplements 1 through 4, 1974
 APA, Plywood Commercial/Industrial Guide, November, 1976
 ASTM, Methods for Establishing Structural Grades and Related Allowable Properties for Visually Graded Lumber, D 245-74
 ASTM, Methods of Conducting Strength Tests of Panels for Building Construction, E72-77
 CS, Wood Shingles; Red Cedar, Tidewater, Red Cypress, California Redwood, CS31-52
 NFor.PA National Design Specification for Wood Construction, 1977
 NFor.PA, Design Values Wood Construction, 1977
 NFor.PA, Manual for House Framing, Wood Construction Data No. 1, 1970
 NFor.PA, Plank-and-Beam Framing for Residential Buildings, Wood Construction Data No. 4, 1970
 NFor.PA, Heavy Timber Construction Details, Wood Construction Data No. 5, 1974
 NFor.PA, Design of Wood Structures for Permanence, Wood Construction Data No. 6, 1970
 NFor.PA, Span Tables for joists and Rafters, 1973
 NFor.PA, Wood Structural Design Data, 1970
 NFor.PA, Working Stresses for Joists and Rafters, December, 1974
 PS, American Softwood Lumber Standard, PS 20-70
 PS, Construction and Industrial Plywood, PS 1-74
 PS, Hardwood and Decorative Plywood, PS 51-71
 PS, Structural Glued Laminated Timber, PS 56-73
 TPI, Design Specifications for Light Metal Plate Connected Wood Trusses, TPI-74

Wood Treatment

AWPA, Standards for Pressure Treating Wood, 1976
 DA, Subterranean Termites, Their Prevention and Control in Buildings, Home and Garden Bulletin No. 64, revised January 1972
 FS, Primer, Coating, Exterior (Undercoat for Wood, Ready-Mixed, White and Tints), TT-P-25E(1)-1974
 FS, Wood Preservation: Treating Practices, TT-W-751I(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.

Increased Snow Loads

ANSI American National Standard Building Code Requirements for Minimum Design Loads in Buildings and Other Structures, A58.1-1972, Figures 5, 6 and 7.

Part 4

Generally Accepted Standards
applicable to
Fire-Safety RequirementsEXITS AND ENCLOSURES

NFPA, Code for Safety to Life from Fire in Buildings and Structures,
No. 101, 1976 (ANSI A 9.1-1976)

EXPLOSION & HEAT VENTS

NFPA, Guide for Explosion Venting, No. 68-1974
NFPA, Guide for Smoke and Heat Venting, No. 204-1968

FIRE-RESISTANCE RATINGS

ASTM, Methods of Fire Tests of Building Construction and Materials,
E119-76 (NFPA No. 251-1972)
ASTM, Methods of Fire Tests of Door Assemblies, E152-76 (NFPA No. 252-1972)
NFPA, Standard for Fire Tests of Window Assemblies, No. 257-1975
NFPA, Methods of Fire Tests of Roof Coverings, No. 256-1976
NFPA, Roof Coverings, 203M-1970
NFPA, Fire Doors and Windows, No. 80-1977
UL, Building Materials Directory, 1978
UL, Fire Resistance Index, 1976
FMS, Factory Mutual System Approval Guide, 1978

FLAME-RESISTANT MATERIALS

ASTM, Test Method For Noncombustibility of Elementary Materials, E-136-73
NFPA, Methods of Fire Tests for Flame-Resistant Textiles and Films,
No. 701-1977
NFPA, Fire Retardant Treatments of Building Materials, No. 703-1961
AWPA, Fire Retardant Treatment, C20-1974, (Lumber), C27-1974, (Plywood)

FLAME SPREAD

ASTM, Test Method for Surface Burning Characteristics of Building Materials,
E84-77 (NFPA No. 255-1972)
ASTM, Standard Method of Test for Surface Flammability of Materials Using
a Radiant Heat Energy Source, E162-76
ASTM, Standard Test Method for Rate of Burning and/or Extend and Time
of Burning of Self-Supporting Plastics in a Horizontal Position,
D635-76
ASTM, Standard Method for Measuring the Density of Smoke from the Burning
or Decomposition of Plastics, D2843-70
NFPA, Tentative Guide to Plastics in Building Construction, 205MT-1973
(Thermal Barrier Applications - Chapter IV)
FS, Sound Controlling Blocks & Boards (Acoustical Tiles & Panels,
Prefabricated), SS-S-118a(3), June 14, 1972, with Addenda No. 4,
Sept. 22, 1976

FIRE PROTECTION SYSTEMS

See Part 5, Page 12 Fire Protection Equipment

HAZARDOUS PROCESSES IN BUILDING

- ANSI, Prevention of Fire and Dust Explosion in Feed Mills, Z12.3-1974
(NFPA No. 61C-1973)
- NFPA, Prevention of Dust Explosions in the Plastics Industry, No. 654-1975
- NFPA, Prevention of Dust Explosions in Industrial Plants, No. 63-1975
- IC, Manufacturing, Handling and Storage of Military Pyrotechnics,
Industrial Code Rule No. 37 (12 NYCRR 37), effective June 1, 1943
- NFPA, Storage of Pyroxylin Plastic No. 40E-1975
- NFPA, Storage, Handling and Processing of Magnesium, No. 48-1974
- NFPA, Production, Processing, Handling and Storage of Titanium, No. 481-1974

See also Part 5 page 13 Flammable Liquids

SMOKE-DETECTING ALARM DEVICES

(Single-station, photoelectric or ionization type)

- NFPA, Household Fire Warning Equipment, No. 74-1975
- FMS, Factory Mutual System Approval Guide, 1978
- UL, Fire Protection Equipment List, January, 1977

Part 5

Generally Accepted Standards
applicable to
Equipment Requirements

AIR POLLUTION

DEC, 6 NYCRR, Chapter III, Air Resources, Excluding parts 215, 217 and 218 (Revised 1975)

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

ANSI, Safety Requirements for Construction, Care and Use of Automotive Lifts, B 153.1-1974

Conveyors

ANSI Safety Standards for Conveyors and Related Equipment, B20.1-1976
ANSI, Safety Code for Mechanized Parking Garage Equipment, A113.1-1964 (Reaffirmed 1971)

Cranes, Derricks and Hoists

ANSI, Safety Code for Overhead and Gantry Cranes, B30.2.0-1976

Industrial Lifts

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

Manlifts

ANSI, Safety Standard for Manlifts, A90.1-1976

ELECTRICAL WIRING AND EQUIPMENT

ANSI, National Electrical Code, ANSI/NFPA No. 70-1978
ANSI, National Electrical Safety Code, American National Standard C2, 1977
UL, Electrical Appliance and Utilization Equipment List, 1977
UL, Hazardous Location Equipment List, 1977
UL, Electrical Construction Materials List, 1977
DH, 10 NYCRR Chapter V (State Hospital Code), June, 1976

ELEVATORS, DUMBWAITERS AND ESCALATORS

ANSI, Safety Code for Elevators, Dumbwaiters, Escalators and Moving Walks, A17.1-1971 with Supplements A17.1a-1972, 17.1b-1973, A17.1c-1974, A17.1d-1975, A17.1e-1975, A17.1f-1975 and A17.1g-1976

ENGINES FOR EMERGENCY USE

NFPA, Installation and Use of Stationary Combustion Engines and Gas Turbines, No. 37-1975

FIRE PROTECTION EQUIPMENT

ANSI, Carbon Dioxide Extinguishing Systems, A54.1-1977 (NFPA No. 12-1977)
ANSI, Water Spray Fixed Systems for Fire Protection, A54.2-1977 (NFPA no. 15-1977)
ANSI, Sprinkler Systems, A54.3-1976 (NFPA No. 13-1976)
ANSI, Central Station Protective Signaling System for Guard, Fire Alarm, and Supervisory Service, SE3.2-1977 (NFPA No. 71-1977)
ANSI, Local Protective Signaling Systems for Watchman, Fire Alarm and Supervisory Service, SE3.3-1976 (NFPA No. 72A-1975)
ANSI, Auxiliary Protective Signaling Systems for Fire Alarm Service, SE3.4-1976 (NFPA No. 72B-1975)
ANSI, Remote Station Protective Signaling System for Fire Alarm and Supervisory Service, SE3.5-1976 (NFPA No. 72C-1975)
ANSI, Proprietary Protective Signaling Systems for Watchman, Fire Alarm and Supervisory Service, SE3.6-1976 (NFPA No. 72D-1975)
ANSI, Automatic Fire Detectors, SE3.13-1974 (NFPA No. 72E-1974)
ANSI, Household Fire Warning Equipment, SE#.14-1975 (NFPA No. 74-1975)
ANSI, Safety Standard for Fire Detecting Thermostats, Z220.1-1974 (UL 521, April, 1974)
ANSI, Installation of Standpipe and Hose Systems, Z273.1-1976 (NFPA No. 14-1976)
ANSI, Installation of Centrifugal Fire Pumps, Z277.1-1976 (NFPA No. 20-1976)
ANSI, Foam Extinguishing Systems, Z286.1-1976 (NFPA No. 11-1976)
FMS, Factory Mutual System Approval Guide, 1977
IC, Automatic Fire Extinguishing Systems, Industrial Code Rule No. 20, (12 NYCRR 20) as amended, effective July 1, 1961 excluding Sections 20-3.1, 20-3.2 and 20-3.3
UL, Fire Protection Equipment Directory, January 1978, including quarterly supplements
UL, Building Materials Directory, January, 1977, including quarterly supplements
UL, Fire Resistance Index, January, 1977, including quarterly supplements

FLAMMABLE LIQUIDS (See also Oil-Fired Equipment)

- ANSI, Drycleaning Plants, Z8.2-1975 (NFPA No. 32-1974)
 ANSI, Spray application Using Flammable and Combustible Materials,
 Z279.1-1974 (NFPA No. 33-1973)
 ANSI, Flammable and Combustible Liquids Code, Z288.1-1976 (NFPA No. 30-1976)
 NFPA, Dip Tanks Containing Flammable or Combustible Liquids,
 No. 34-1974
 NFPA, Storage of Flammable and Combustible Liquids on Farms and Isolated
 Construction Projects, No. 395

Tanks for Flammable Liquids

- API Recommended Rules for Design and Construction of Large, Welded
 Low-Pressure Storage Tanks, STD 620, Sixth Edition, 1977
 API, Specification for Bolted Tanks, Spec. 12B, Twelfth Edition,
 January, 1977
 API, Specification for Shop Welded Tanks, Spec. 12F, Seventh Edition,
 January 1977
 API, Welded Steel Tanks for Oil Storage, Spec. 650, Fifth Edition, 1977
 UL, Gas and Oil Equipment List, September, 1977, including quarterly
 supplements

GasesLiquified Flammable Gas

- ANSI, Storage and Handling of Liquified Petroleum Gases at Utility Gas
 Plants, Z106.2-1976 (NFPA No. 59-1976)
 ANSI, Production, Storage and Handling of Liquified Natural Gas, Z225.1-1976
 (NFPA No. 59A-1975)
 ASME, Boiler and Pressure Vessel Code, 1977; Section VIII-Pressure Vessels,
 Division 1 and 2
 NFPA, Storage and Handling of Liquified Petroleum Gases, No. 58, 1976

Other Hazardous Gases

- ANSI, Nonflammable Medical Gas System, MD4.1-1974 (NFPA 56F-1974)
 ANSI, Bulk Oxygen Systems at Consumer Sites, Z292.1-1974 (NFPA 50-1974)
 NFPA, Inhalation Anesthetics (Flammable and Non-flammable): No. 56A-1973

HEATING, VENTILATING, REFRIGERATION AND AIR CONDITIONING

- ANSI, Safety Code for Mechanical Refrigeration, B9.1-1971 (ASHRAE 15-70)
 ANSI, Installation of Air-Conditioning and Ventilating Systems, B144.2 1976
 (NFPA No. 90A-1976)
 ANSI, Installation of Warm Air Heating and Air Conditioning Systems, B144.3-1976
 (NFPA No. 90B-1976)
 ASHRAE, Handbook of Fundamentals, 1977
 ASHRAE, Handbook and Product Directory: Equipment, 1975
 ASHRAE, Handbook and Product Directory: Systems, 1976
 ASHRAE, Handbook and Product Directory: Applications, 1974, excluding
 Sections III, IV and V
 NFPA, Parking Structures, No. 88A-1973
 NFPA, Repair Garages, No. 88B-1973
 NFPA, Vapor Removal from Commercial Cooking Equipment, No. 96-1973

Boilers, Furnaces and Central Systems

- ANSI, Gas-Fired Room Heaters, Vol. I, Z21.11.1 - 1974 with addenda, Z21.11-1a-1975 and Z21.11.1b-1976
- ANSI, Gas-Fired Room Heaters, Vo. II, Z21.11.2 - 1974 with addenda Z21.11.2a-1976
- ANSI, Gas-Fired Low-Pressure Steam and Hot Water Boilers, Z21.13-1977
- ANSI, Gas-Fired Duct Furnaces, Z21.34-1971 with addenda Z21.34a-1974 and Z21.34b-1974
- ANSI, Gas-Fired Gravity and Forced Air Central Furnaces, Z21.47-1973 with addenda Z21.47a-1974 and Z21.47b-1975
- ANSI, Gas-Fired Gravity and Fan Type Floor Furnaces, Z21.48-1976 with addenda Z21.48a-1977
- ANSI, Gas-Fired Gravity and Fan Type Vented Wall Furnaces, Z21.49-1975, with addenda Z21.49a-1977
- ANSI, Vented Decorative Gas Appliances, Z21.50-1976, with addenda Z29.50a-1977
- ASME, Boiler and Pressure Vessel Code, 1977
 Section I, Power Boilers
 Section IV, Heating Boilers
 Section VIII, Pressure Vessels, Division 1 and 2
 Section X, Fiberglass Reinforced Plastic Pressure Vessels
- IC, Boilers, Industrial Code Rule No. 4, (12 NYCRR 4) Effective March 31, 1958
- IC, Construction, Installation, Inspection and Maintenance of Steam Boilers, Industrial Code Rule No. 14 (12 NYCRR 14) as amended, effective November 18, 1958
- FNPA, Installation and Operation of Pulverized - Fuel Systems, No. 60-1973
- UL, Gas and Oil Equipment List, September, 1977, including quarterly supplements

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

- AGA, Directory of Certified Appliances and Accessories, January 1, 1978 (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
- ANSI, Electrically Operated Automatic Vent Damper Devices for use with Gas-fired Appliances Z21.66-1977

Miscellaneous Heating Equipment

- ANSI, Ovens and Furnaces, Design, Location and Equipment Z294.2-1974 (NFPA No. 86A-1976)

Oil-Fired Equipment

- ANSI, Installation of Oil Burning Equipment, Z95.1-1974 (NFPA No. 31-1974)
- ANSI, Performance Requirements for Oil-Powered Central Furnaces, Z91.1-1972
- ANSI, Safety Standard for Oil-Fired Central Furnaces, Z96.1-1973 (UL 727-June, 1973)
- CS, Automatic Mechanical-Draft Oil Burners Designed for Domestic Installation CS 75-56
- UL, Gas and Oil Equipment List, September, 1977, including quarterly supplements

INCINERATORS

NFPA, Incinerators and Rubbish Handling, No. 82-1977

LIGHTING

ANSI, Code for Safety to Life from Fire in Buildings and Structures,
(A9.1) ANSI/NFPA No. 101-1976

LIGHTNING PROTECTION

ANSI, Lightning Protection Code, (C5.1) ANSI/NFPA No. 78-1977

PIPING EQUIPMENT AND SYSTEMS

ANSI, Power Piping, B31.1-1977
ANSI, Fuel Gas Piping, B31.2-1968
ANSI, Refrigeration Piping, B31.5-1974
ANSI, Gas Transmission and Distribution Piping Systems, B31.8-1975
ANSI, National Fuel Gas Code, Z223.1-1974 (NFPA No. 54-1974)

PLUMBING (See pages 17 through 23 - Standards for Plumbing Materials)

General Design and Installation

NAPHCC, National Standard Plumbing Code, 1978, Chapters 1 through 15, and
Appendices A and B inclusive.

Drinking Water Supplies

DH, 10 NYCRR, Part 5 - Drinking Water Supplies (State Sanitary Code
April 30, 1977)

Swimming Pools

DH, Swimming Pools and Bathing Beaches, Bulletin 27
DH, 10 NYCRR, Part 6 - Swimming Pools and Bathing Beaches (State Sanitary Code)
December 31, 1975

Sewage Disposal Systems

DH, 10 NYCRR, Appendix 75-A, Individual Household Systems, Waste
Treatment Handbook, June 30, 1976

Equipment for Hospitals, Nursing Homes and Other Medical Care Facilities

DH, 10 NYCRR, Chapter V (State Hospital Code), July 31, 1976

Tanks, Water Supply

- AWWA, Standard for Steel Tanks - Standpipes, Reservoirs, and Elevated Tanks for Water Storage D100-73
- NFPA, Water Tanks for Private Fire Protection, No. 22-1976

STATIC ELECTRICITY

- NFPA, Recommended Practice on Static Electricity, No. 77-1977

- TANKS (See Flammable Liquids and Plumbing)

VENTING: Explosion, Smoke and Heat

- NFPA, Explosion Venting Guide, No. 68-1974
- NFPA, Smoke and Heat Venting Guide, No. 204-1968

WINDOW CLEANING EQUIPMENT

- ANSI, Safety Requirements for Window Cleaning, A39.1-1969
- 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
- NYSDL, Advisory Standards for Construction, Operation and Maintenance of Suspended Scaffolds used for Window Cleaning and Light Maintenance, AS 101, effective May 23, 1973

X-RAY AND GAMMA RAY RADIATION

- DH, 10 NYCRR, Chapter I (State Sanitary Code), Part 16, Ionizing Radiation, March, 1977
- NCRP, Medical X-Ray and Gamma-Ray Protection for Energies Up to 10 Mev - Equipment Design and Use, NCRP Report No. 33 (1968)
- NCRP Dental X-Ray Protection, NCRP Report No. 35 (1970)
- NCRP Radiation Protection in Veterinary Medicine, NCRP Report No. 36 (1970)
- NCRP Protection Against Radiation from Brachy Therapy Sources, NCRP Report No. 40 (1972)
- NCRP Structural Shielding Design and Evaluation for Medical Use of X Rays and Gamma Rays of Energies Up to 10 Mev, NCRP No. 49 (1976)
- H, Safe Handling of Radioactive Materials, NBS Handbook H 92, 1964
- IC, Radiation Protection, Industrial Code Rule No. 38 (12 NYCRR 38), as amended, effective September 1, 1971
- ANSI, Fire Protection Practice for Facilities Handling Radioactive Materials, (N 693) ANSI/NFPA No. 801-1975

HIGH FREQUENCY RADIATION

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

TABLE P 603 -- STANDARDS FOR PLUMBING MATERIALS
 (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.....	A112.11.1-1973	None	None	ARI 1010-73
Enameled cast-iron plumbing fixtures.....	A112.19.1-1973	None	None	None
Finished and rough brass plumbing fixture fittings.....	A112.18.1-1971	None	None	None
Formed metal porcelain enameled sanitary ware.....	None	None	None	PS5-66
Plastic bathtub units.....	Z124.1-1974	None	None	None
Gel-coated glass-fiber reinforced polyester resin shower receptor and shower stall units.....	Z124.2-1967	None	None	None
Plumbing fixtures, land use....	None	None	WW-P-541D-1971	None
Stainless steel plumbing fixtures for residential use.....	A112.19.3-1976	None	None	CS243-62
Vitreous china plumbing fixtures.....	A112.19.2-1973	None	None	None
Stills, water; portable (without heating device) for U.S.P. "distilled water".....	None	None	RR-S-726(1)1950	None
Supports for off-the-floor plumbing fixtures for public use.....	A112.6.1-1972	None	None	None

TABLE P 603 -- STANDARDS FOR PLUMBING MATERIALS

(Continued from page 17)

Materials	ANSI	ASTM	FS	Other Standards
Ferrous pipe and fittings:				
Cast-iron soil pipe and fittings, extra heavy and service weight.....	A112.5.1-1973	(A74-72)	None	None
Cast-iron water pipe, cast in metal molds.....	A21.6-1975	None	None	(AWWA C106-75)
Cast-iron water pipe, cast in sand lined molds.....	A21.8-1975	None	None	(AWWA C108-75)
Cast-iron water pipe fittings.....	A21.10a-1972	None	None	(AWWA C110a-1972)
Cast-iron water pipe (2").....	A21.12-1971	None	None	(AWWA C112-71)
Cast-iron (threaded) pipe.....	A40.5-1943	None	None	None
Cast-iron (threaded) fittings.....	B16.4-1971	None	None	None
Cast-iron (threaded) drainage fittings.....	B16.12-1971	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.....	B16.3-1971	None	None	None
Nipples, pipe, threaded.....	None	None	WW-N-351B(1)1970	None
Pipe fittings---bushings, locknuts and plugs; iron and steel (threaded), 125-150 lb.....	None	None	WW-P-471B-1970	None
Steel pipe(seamless and welded, black and zinc coated) (galvanized).....	B125.2-1972	(A120-77)	None	None
Unions, pipe, steel or malleable iron.....	None	None	WW-U-531D-1973	None
Valves, gate, cast-iron, threaded and flanged, 125-250 lb.....	None	None	WW-V-588-1971	None

TABLE P 603 -- STANDARDS FOR PLUMBING MATERIALS

(Continued from page 18)

Materials	ANSI	ASTM	FS	Other Standards
Nonferrous metallic pipe and fittings:				
Brass Pipe.....	None	B43- 76	None	None
Brass tube.....	None	B135-74	None	None
Bronze flanges and flanged fittings, 150 & 300 lb.....	B16.24-1971	None	None	None
Cast bronze fittings for flared copper tube.....	B16.26-1975	None	None	None
Cast bronze screwed fittings, 125 & 250 lb.....	B16.15-1971	None	None	None
Cast bronze solder-joint drainage fittings, DWV.....	B16.23-1976	None	None	None
Cast bronze solder-joint pressure fittings.....	B16.18-1972	None	None	None
Copper-alloy No. 210 water tube, welded, hard temper.....	None	B587-76	None	None
½" size---0.018" wall;				
¾" size---0.021" wall.				
Copper-alloy No. 260 DWV tube, welded, hard temper.....	None	B587-76	None	None
1½" size---0.031" wall;				
2" size---0.033" wall; 3" size---0.035" wall.				
Copper-alloy No. 260 DWV tube, seamless, hard temper.....	None	B135-74	None	None
4" size---0.043" wall thickness.				
Copper drainage tube, type DWV.....	None	B306- 76	None	None
Copper pipe, standard sizes.....	None	B42- 76	None	None
Copper pipe, threadless.....	None	B302-76	None	None
Copper water tube, types K, L & M.....	None	B88- 76	None	None
Copper-plated stainless steel, water tube, type TP 430.....	None	A651-71, B254-70	None	None
Lead pipe, bends and traps.....	None	None	WW-P-325A-1967	None
Unions, pipe; brass or bronze, 250 lb.....	None	None	WW-U-516A-1967	None
Valves, ball.....	None	None	WW-V-35B-1973	None
Valves, Bronze; gate.....	None	None	WW-V-54D-1974	None
Valves, Bronze; angle, check and globe; screwed, flanges, solder; 125, 150 & 200 lb.....	None	None	WW-V-51E-1974	None
Wrought copper and bronze solder-joint pressure fittings.....	B16.22-1973	None	None	None
Wrought copper and wrought copper alloy solder joint drainage fittings.....	B16.29-1973	None	None	None

Central Library of Rochester and Monroe County · Business Division
 TABLE P 603 -- STANDARDS FOR PLUMBING MATERIALS
 (Continued from page 19)

Materials	ANSI	ASTM	FS	Other Standards
Nonmetallic pipe and fittings (Other than plastics):				
Asbestos-cement pipe, nonpressure(sewer).....	None	C644-74	None	None
Asbestos-cement pipe, pressure (water).....	None	None	None	AWWA C400-75
Asbestos-cement pipe, perforated.....	None	C508-73	None	None
Bituminized-fiber pipe, homogeneous (sewer)	None	D1861-73	None	None
Bituminized-fiber pipe, homogenous, perforated.....	None	D2311-73	None	None
Bituminized-fiber pipe, laminated-wall (sewer).....	None	D1862-73	None	None
Bituminized-fiber pipe, laminated-wall, perforated.....	None	D2313-73	None	None
Concrete pipe, nonreinforced (sewer).....	None	C14-74	None	None
Plastic pipe, fittings and solvent cements:				
Acrylonitrile-butadiene-styrene (ABS) plastic pipe, schedules 40 and 80.....	None	D1527-73a	None	NSF 14
Acrylonitrile-butadiene-styrene (ABS) plastic pipe fittings, socket-type, schedule 40.....	None	D2468-73	None	NSF 14
Acrylonitrile-butadiene-styrene (ABS) plastic pipe fittings, socket-type, schedule 80.....	None	D2469-73	None	NSF 14
Acrylonitrile-butadiene-styrene (ABS) plastic pipe fittings, threaded, schedule 80.....	None	D2465-73	None	NSF 14
Acrylonitrile-butadiene-styrene (ABS) plastic pipe, (SDR-PR and Class T).....	None	D2282-73a	None	NSF 14
Acrylonitrile-butadiene-styrene (ABS) plastic Drain, waste and vent pipe and fittings.....	None	D2661-74	None	NSF 14

= 20 =

TABLE P 603 -- STANDARDS FOR PLUMBING MATERIALS

(Continued from page 20)

Materials	ANSI	ASTM	FS	Other Standards
Plastic pipe, fittings and solvent cements (con't)				
Plastic insert fittings for polyethylene plastic pipe....	None	D2609-73	None	NSF 14
Polyethylene (PE) plastic pipe, schedules 40 and 80 based on outside diameter.....	None	D2447-74	None	NSF 14
Polyethylene (PE) plastic pipe (SDR-PR).....	None	D2239-74	None	NSF 14
Polyvinyl chloride (PVC) plastic pipe, schedules 40, 80 and 120.....	None	D1785-74	None	NSF 14
Polyvinyl chloride (PVC) plastic pipe fittings, 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
Polyvinyl chloride (PVC) plastic pipe fittings, threaded, schedule 80.....	None	D2464-74	None	NSF 14
Polyvinyl chloride (PVC) plastic pipe, (SDR-PR and Class T)	None	D2241-74	None	NSF 14
Polyvinyl chloride (PVC) plastic drain, waste and vent pipe and fittings.....	None	D2665-74	None	NSF 14
Solvent cement for acrylonitrile-butadiene styrene (ABS) 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

121

TABLE P 603 -- STANDARDS FOR PLUMBING MATERIALS
(Continued from page 21)

Materials	ANSI	ASTM	FS	Other Standards
Miscellaneous materials:				
Air gap standards..	A112.1.2-1942	None	None	None
Anti-siphon vacuum breakers, pipe-applied atmospheric type.....	A112.1.1-1971	None	None	(ASSE 1001-1970)
Brass cleanout plugs.....	None	A74-72	None	None
Caulking lead, type 1.....	None	None	QQ-C-40(2)-1970	None
Cement lining for cast iron pipe and fittings for water.....	A21.4-1974	None	None	(AWWA C104-74)
Coal-tar enamel, protective coating for steel water pipe.....	None	None	None	AWWA C203-73
Compression joints for vitrified clay bell and spigot pipe.....	None	C425-74	None	None
Floor drains.....	A112.21.1-1974	None	None	None
Grease interceptors.....	None	None	None	PDI G101
Hangars and supports, pipe.....	None	None	WW-H-171D-1970	None
Hose clamps.....	None	None	WW-C440B(2)-1973	None
Plumbing fixture setting compound.....	None	None	TT-P-001536-1968	None
Relief valves and automatic gas shutoff devices for hot water supply systems.....	Z21.22-1971	None	None	None
addenda.....	Z21.22a-1972	None	None	None
Roof drains.....	A112.21.2-1971	None	None	None
Rubber gaskets for cast iron soil pipe and fittings....	None	C564-70	None	None

TABLE P 603 -- STANDARDS FOR PLUMBING MATERIALS
(Continued from page 22)

Materials	ANSI	ASTM	FS	Other Standards
Miscellaneous materials (continued)				
Rubber gaskets (concrete sewer pipe).....	None	C443-74	None	None
Rubber rings for asbestos-cement pipe.....	None	D1869-72	None	None
Sheet copper.. ..	None	B152-76	None	None
Sheet lead, grade A.....	None	None	QQ-L-201F(2)-1970	None
Soft solder.....	None	None	QQ-S-571E-1972	None
Water hammer arresters.....	A112.26.1-1969	None	None	None
Water heaters, automatic storage type.....	Z21.10.1-1975	None	None	None
Water heaters, automatic storage type, addenda.....	A21.10.1a, b-1972	None	None	None
Water heaters, instantaneous.....	None	None	WW-H-191B-1970	None
Water meters, cold, displacement type.....	None	None	None	AWWA C700-71
Water meters, cold current type.....	None	None	None	AWWA C701-70
Water meters, cold, compound type.....	None	None	None	AWWA C702-70

-23-

Science Division
Rochester Public Library
115 South Avenue
Rochester, New York 14604
585-2521

