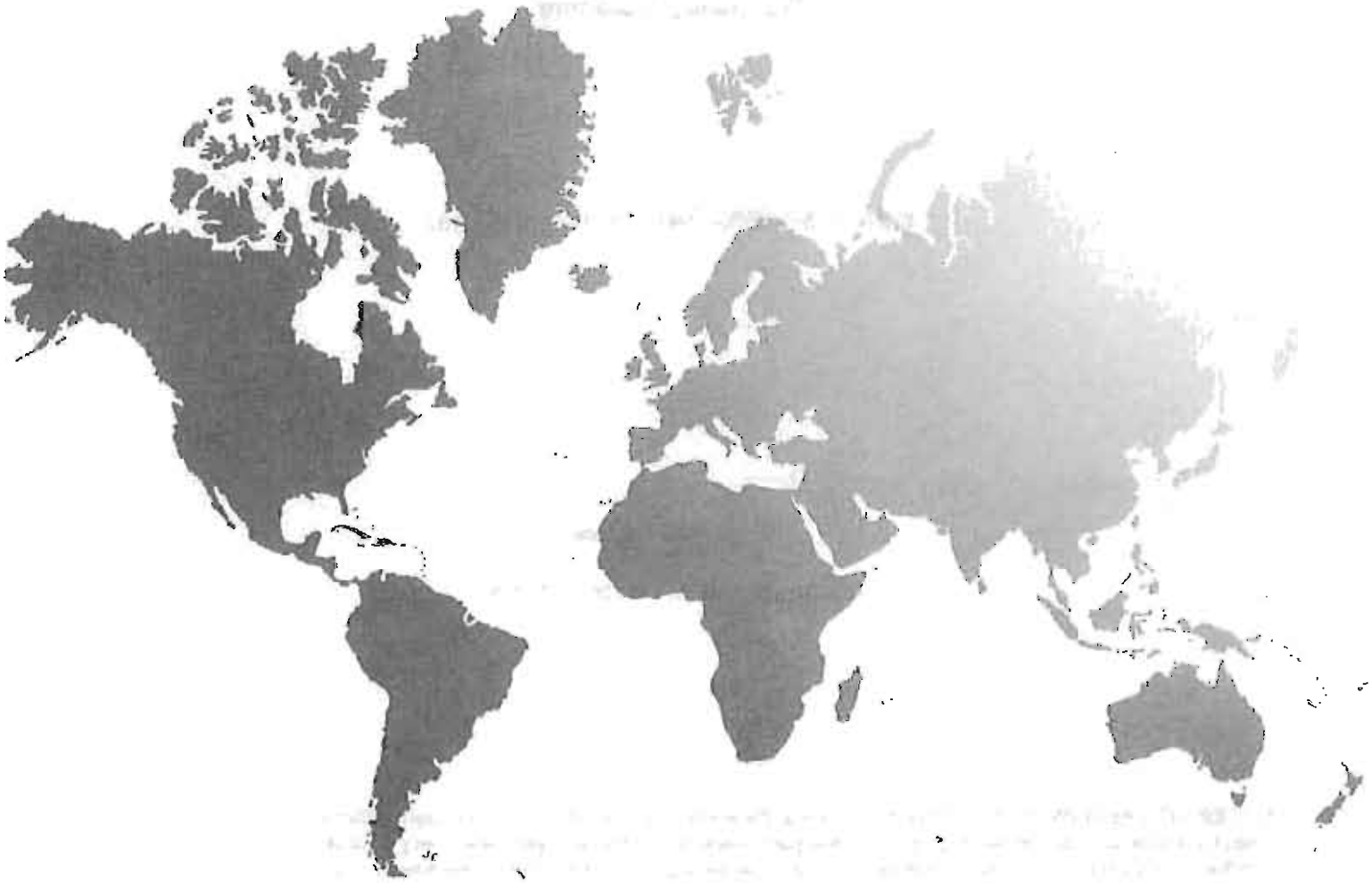
A MEMBER OF THE INTERNATIONAL CODE FAMILY®

ICC
INTERNATIONAL CODE COUNCIL®

IPMC®

INTERNATIONAL PROPERTY MAINTENANCE CODE®



2009

Receive **FREE** updates, excerpts of code references, technical articles, and more when you register your code book. Go to

www.iccsafe.org/CodesPlus today!

2009 International Property Maintenance Code®

First Printing: January 2009
Second Printing: May 2009
Third Printing: March 2010

ISBN: 978-1-58001-740-4 (soft-cover edition)

COPYRIGHT © 2009
by
INTERNATIONAL CODE COUNCIL, INC.

ALL RIGHTS RESERVED. This 2009 *International Property Maintenance Code*® is a copyrighted work owned by the International Code Council, Inc. Without advance written permission from the copyright owner, no part of this book may be reproduced, distributed or transmitted in any form or by any means, including, without limitation, electronic, optical or mechanical means (by way of example, and not limitation, photocopying or recording by or in an information storage retrieval system). For information on permission to copy material exceeding fair use, please contact: Publications, 4051 West Flossmoor Road, Country Club Hills, IL 60478. Phone 1-888-ICC-SAFE (422-7233).

Trademarks: "International Code Council," the "International Code Council" logo and the "International Property Maintenance Code" are trademarks of the International Code Council, Inc.

PRINTED IN THE U.S.A.

PREFACE

Introduction

Internationally, code officials recognize the need for a modern, up-to-date property maintenance code governing the maintenance of existing buildings. The *International Property Maintenance Code®*, in this 2009 edition, is designed to meet this need through model code regulations that contain clear and specific property maintenance requirements with required property improvement provisions.

This 2009 edition is fully compatible with all *International Codes®* (I-Codes®) published by the International Code Council (ICC)®, including the *International Building Code®*, *International Energy Conservation Code®*, *International Existing Building Code®*, *International Fire Code®*, *International Fuel Gas Code®*, *International Mechanical Code®*, ICC *Performance Code®*, *International Plumbing Code®*, *International Private Sewage Disposal Code®*, *International Residential Code®*, *International Wildland-Urban Interface Code™* and *International Zoning Code®*.

The *International Property Maintenance Code* provisions provide many benefits, among which is the model code development process that offers an international forum for code officials and other interested parties to discuss performance and prescriptive code requirements. This forum provides an excellent arena to debate proposed revisions. This model code also encourages international consistency in the application of provisions.

Development

The first edition of the *International Property Maintenance Code* (1998) was the culmination of an effort initiated in 1996 by a code development committee appointed by ICC and consisting of representatives of the three statutory members of the International Code Council at that time, including: Building Officials and Code Administrators International, Inc. (BOCA), International Conference of Building Officials (ICBO) and Southern Building Code Congress International (SBCCI). The committee drafted a comprehensive set of regulations for existing buildings that was consistent with the existing model property maintenance codes at the time. This 2009 edition presents the code as originally issued, with changes reflected through the previous 2006 editions and further changes developed through the ICC Code Development Process through 2008. A new edition of the code is promulgated every three years.

This code is founded on principles intended to establish provisions consistent with the scope of a property maintenance code that adequately protects public health, safety and welfare; provisions that do not unnecessarily increase construction costs; provisions that do not restrict the use of new materials, products or methods of construction; and provisions that do not give preferential treatment to particular types or classes of materials, products or methods of construction.

Adoption

The *International Property Maintenance Code* is available for adoption and use by jurisdictions internationally. Its use within a governmental jurisdiction is intended to be accomplished through adoption by reference in accordance with proceedings established in the jurisdiction's laws. At the time of adoption, jurisdictions should insert the appropriate information in provisions requiring specific local information, such as the name of the adopting jurisdiction. These locations are shown in bracketed words in small capital letters in the code and in the sample ordinance. The sample adoption ordinance on page vii addresses several key elements of a code adoption ordinance, including the information required for insertion into the code text.

Maintenance

The *International Property Maintenance Code* is kept up to date through the review of proposed changes submitted by code enforcing officials, industry representatives, design professionals and other interested parties. Proposed changes are carefully considered through an open code development process in which all interested and affected parties may participate.

The contents of this work are subject to change both through the Code Development Cycles and the governmental body that enacts the code into law. For more information regarding the code development process, contact the Codes and Standards Development Department of the International Code Council.

While the development procedure of the *International Property Maintenance Code* ensures the highest degree of care, ICC, its membership and those participating in the development of this code do not accept any liability resulting from compliance or noncompliance with the provisions because ICC does not have the power or authority to police or enforce compliance with the contents of this code. Only the governmental body that enacts the code into law has such authority.

Letter Designations in Front of Section Numbers

In each code development cycle, proposed changes to this code are considered at the Code Development Hearings by the ICC Property Maintenance/Zoning Code Development Committee, whose action constitutes a recommendation to the voting membership for final action on the proposed changes. Proposed changes to a code section having a number beginning with a letter in brackets are considered by a different code development committee. For example, proposed changes to code sections that have the letter [F] in front of them (e.g., [F] 704.1) are considered by the International Fire Code Development Committee at the Code Development Hearings.

The content of sections in this code that begin with a letter designation are maintained by another code development committee in accordance with the following:

[F] = International Fire Code Development Committee;

[P] = International Plumbing Code Development Committee; and

[B] = International Building Code Development Committee.

Marginal Markings

Solid vertical lines in the margins within the body of the code indicating a technical change from the requirements of the previous edition. Deletion indicators in the form of an arrow (➡) are provided in the margin where an entire section, paragraph, exception or table has been deleted or an item in a list of items or a table has been deleted.

Italicized Terms

Selected terms set forth in Chapter 2, Definitions, are italicized where they appear in code text. Such terms are not italicized where the definition set forth in Chapter 2 does not impart the intended meaning in the use of the term. The terms selected have definitions which the user should read carefully to facilitate better understanding of the code.

Effective Use of the International Property Maintenance Code

The *International Property Maintenance Code* (IPMC) is a model code that regulates the minimum maintenance requirements for existing buildings.

The IPMC is a maintenance document intended to establish minimum maintenance standards for basic equipment, light, ventilation, heating, sanitation and fire safety. Responsibility is fixed among owners, operators and occupants for code compliance. The IPMC provides for the regulation and safe use of existing structures in the interest of the social and economic welfare of the community.

Arrangement and Format of the 2009 IPMC

Before applying the requirements of the IPMC it is beneficial to understand its arrangement and format. The IPMC, like other codes published by ICC, is arranged and organized to follow sequential steps that generally occur during an inspection. The IPMC is divided into eight different parts:

Chapters	Subjects
1	Administration
2	Definitions
3	General Requirements
4	Light, Ventilation and Occupancy Limitations
5	Plumbing Facilities and Fixture Requirements
6	Mechanical and Electrical Requirements
7	Fire Safety Requirements
8	Referenced Standards

The following is a chapter-by-chapter synopsis of the scope and intent of the provisions of the *International Property Maintenance Code:*

Chapter 1 Administration. This chapter contains provisions for the application, enforcement and administration of subsequent requirements of the code. In addition to establishing the scope of the code, Chapter 1 identifies which buildings and structures come under its purview. Chapter 1 is largely concerned with maintaining "due process of law" in enforcing the property maintenance criteria contained in the body of the code. Only through careful observation of the administrative provisions can the building official reasonably expect to demonstrate that "equal protection under the law" has been provided.

Chapter 2 Definitions. All terms that are defined in the code are listed alphabetically in Chapter 2. While a defined term may be used in one chapter or another, the meaning provided in Chapter 2 is applicable throughout the code.

Where understanding of a term's definition is especially key to or necessary for understanding of a particular code provision, the term is shown in italics wherever it appears in the code. This is true only for those terms that have a meaning that is unique to the code. In other words, the generally understood meaning of a term or phrase might not be sufficient or consistent with the meaning prescribed by the code; therefore, it is essential that the code-defined meaning be known.

Guidance regarding tense, gender and plurality of defined terms as well as guidance regarding terms not defined in this code is provided.

Chapter 3 General Requirements. Chapter 3, "General Requirements," is broad in scope. It includes a variety of requirements for the exterior property areas as well as the interior and exterior elements of the structure. This chapter provides requirements that are intended to maintain a minimum level of safety and sanitation for both the general public and the occupants of a structure, and to maintain a building's structural and weather-resistance performance. Chapter 3 provides specific criteria for regulating the installation and maintenance of specific building components; maintenance requirements for vacant structures and land; requirements regulating the safety, sanitation and appearance of the interior and exterior of structures and all exterior property areas; accessory structures; vehicle storage regulations and establishes who is responsible for complying with the chapter's provisions. This chapter also contains the requirements for swimming pools, spas and hot tubs and the requirements for protective barriers and gates in these

barriers. Chapter 3 establishes the responsible parties for exterminating insects and rodents, and maintaining sanitary conditions in all types of occupancies.

Chapter 4 Light, Ventilation and Occupancy Limitations. The purpose of Chapter 4 is to set forth these requirements in the code and to establish the minimum environment for occupiable and habitable buildings, by establishing the minimum criteria for light and ventilation and identifies occupancy limitations including minimum room width and area, minimum ceiling height and restrictions to prevent overcrowding. This chapter also provides for alternative arrangements of windows and other devices to comply with the requirements for light and ventilation and prohibits certain room arrangements and occupancy uses.

Chapter 5 Plumbing Facilities and Fixture Requirements. Chapter 5 establishes the minimum criteria for the installation, maintenance and location of plumbing systems and facilities, including the water supply system, water heating appliances, sewage disposal system and related plumbing fixtures.

Sanitary and clean conditions in occupied buildings are dependent upon certain basic plumbing principles, including providing potable water to a building, providing the basic fixtures to effectively utilize that water and properly removing waste from the building. Chapter 5 establishes the minimum criteria to verify that these principles are maintained throughout the life of a building.

Chapter 6 Mechanical and Electrical Requirements. The purpose of Chapter 6 is to establish minimum performance requirements for heating, electrical and mechanical facilities and to establish minimum standards for the safety of these facilities.

This chapter establishes minimum criteria for the installation and maintenance of the following: heating and air-conditioning equipment, appliances and their supporting systems; water-heating equipment, appliances and systems; cooking equipment and appliances; ventilation and exhaust equipment; gas and liquid fuel distribution piping and components; fireplaces and solid fuel-burning appliances; chimneys and vents; electrical services; lighting fixtures; electrical receptacle outlets; electrical distribution system equipment, devices and wiring; and elevators, escalators and dumbwaiters.

Chapter 7 Fire Safety Requirements. The purpose of Chapter 7 is to address those fire hazards that arise as the result of a building's occupancy. It also provides minimum requirements for fire safety issues that are most likely to arise in older buildings.

This chapter contains requirements for means of egress in existing buildings, including path of travel, required egress width, means of egress doors and emergency escape openings.

Chapter 7 establishes the minimum requirements for fire safety facilities and fire protection systems, as these are essential fire safety systems.

Chapter 8 Referenced Standards. The code contains numerous references to standards that are used to regulate materials and methods of construction. Chapter 8 contains a comprehensive list of all standards that are referenced in the code. The standards are part of the code to the extent of the reference to the standard. Compliance with the referenced standard is necessary for compliance with this code. By providing specifically adopted standards, the construction and installation requirements necessary for compliance with the code can be readily determined. The basis for code compliance is, therefore, established and available on an equal basis to the code official, contractor, designer and owner.

Chapter 8 is organized in a manner that makes it easy to locate specific standards. It lists all of the referenced standards, alphabetically, by acronym of the promulgating agency of the standard. Each agency's standards are then listed in either alphabetical or numeric order based upon the standard identification. The list also contains the title of the standard; the edition (date) of the standard referenced; any addenda included as part of the ICC adoption; and the section or sections of this code that reference the standard.

ORDINANCE

The *International Codes* are designed and promulgated to be adopted by reference by ordinance. Jurisdictions wishing to adopt the 2009 *International Property Maintenance Code* as an enforceable regulation governing existing structures and premises should ensure that certain factual information is included in the adopting ordinance at the time adoption is being considered by the appropriate governmental body. The following sample adoption ordinance addresses several key elements of a code adoption ordinance, including the information required for insertion into the code text.

SAMPLE ORDINANCE FOR ADOPTION OF THE *INTERNATIONAL PROPERTY MAINTENANCE CODE* ORDINANCE NO._____

An ordinance of the [JURISDICTION] adopting the 2009 edition of the *International Property Maintenance Code*, regulating and governing the conditions and maintenance of all property, buildings and structures; by providing the standards for supplied utilities and facilities and other physical things and conditions essential to ensure that structures are safe, sanitary and fit for occupation and use; and the condemnation of buildings and structures unfit for human occupancy and use, and the demolition of such existing structures in the [JURISDICTION]; providing for the issuance of permits and collection of fees therefor; repealing Ordinance No. _____ of the [JURISDICTION] and all other ordinances and parts of the ordinances in conflict therewith.

The [GOVERNING BODY] of the [JURISDICTION] does ordain as follows:

Section 1. That a certain document, three (3) copies of which are on file in the office of the [TITLE OF JURISDICTION'S KEEPER OF RECORDS] of [NAME OF JURISDICTION], being marked and designated as the *International Property Maintenance Code*, 2009 edition, as published by the International Code Council, be and is hereby adopted as the Property Maintenance Code of the [JURISDICTION], in the State of [STATE NAME] for regulating and governing the conditions and maintenance of all property, buildings and structures; by providing the standards for supplied utilities and facilities and other physical things and conditions essential to ensure that structures are safe, sanitary and fit for occupation and use; and the condemnation of buildings and structures unfit for human occupancy and use, and the demolition of such existing structures as herein provided; providing for the issuance of permits and collection of fees therefor; and each and all of the regulations, provisions, penalties, conditions and terms of said Property Maintenance Code on file in the office of the [JURISDICTION] are hereby referred to, adopted, and made a part hereof, as if fully set out in this ordinance, with the additions, insertions, deletions and changes, if any, prescribed in Section 2 of this ordinance.

Section 2. The following sections are hereby revised:

Section 101.1. Insert: [NAME OF JURISDICTION]

Section 103.5. Insert: [APPROPRIATE SCHEDULE]

Section 112.4. Insert: [DOLLAR AMOUNT IN TWO LOCATIONS]

Section 302.4. Insert: [HEIGHT IN INCHES]

Section 304.14. Insert: [DATES IN TWO LOCATIONS]

Section 602.3. Insert: [DATES IN TWO LOCATIONS]

Section 602.4. Insert: [DATES IN TWO LOCATIONS]

Section 3. That Ordinance No. _____ of [JURISDICTION] entitled [FILL IN HERE THE COMPLETE TITLE OF THE ORDINANCE OR ORDINANCES IN EFFECT AT THE PRESENT TIME SO THAT THEY WILL BE REPEALED BY DEFINITE MENTION] and all other ordinances or parts of ordinances in conflict herewith are hereby repealed.

Section 4. That if any section, subsection, sentence, clause or phrase of this ordinance is, for any reason, held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this ordinance. The [GOVERNING BODY] hereby declares that it would have passed this ordinance, and each section, subsection, clause or phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses and phrases be declared unconstitutional.

Section 5. That nothing in this ordinance or in the Property Maintenance Code hereby adopted shall be construed to affect any suit or proceeding impending in any court, or any rights acquired, or liability incurred, or any cause or causes of action acquired or existing, under any act or ordinance hereby repealed as cited in Section 3 of this ordinance; nor shall any just or legal right or remedy of any character be lost, impaired or affected by this ordinance.

Section 6. That the [JURISDICTION'S KEEPER OF RECORDS] is hereby ordered and directed to cause this ordinance to be published. (An additional provision may be required to direct the number of times the ordinance is to be published and to specify that it is to be in a newspaper in general circulation. Posting may also be required.)

Section 7. That this ordinance and the rules, regulations, provisions, requirements, orders and matters established and adopted hereby shall take effect and be in full force and effect [TIME PERIOD] from and after the date of its final passage and adoption.

TABLE OF CONTENTS

CHAPTER 1 ADMINISTRATION 1

PART 1—SCOPE AND APPLICATION 1

Section

101 General 1

102 Applicability 1

PART 2—ADMINISTRATION AND ENFORCEMENT 2

103 Department of Property Maintenance Inspection 2

104 Duties and Powers of the Code Official 2

105 Approval 2

106 Violations 3

107 Notices and Orders 3

108 Unsafe Structures and Equipment 4

109 Emergency Measures 5

110 Demolition 5

111 Means of Appeal 6

112 Stop Work Order 6

CHAPTER 2 DEFINITIONS 9

Section

201 General 9

202 General Definitions 9

CHAPTER 3 GENERAL REQUIREMENTS 11

Section

301 General 11

302 Exterior Property Areas 11

303 Swimming Pools, Spas and Hot Tubs 11

304 Exterior Structure 12

305 Interior Structure 13

306 Component Serviceability 14

307 Handrails and Guardrails 15

308 Rubbish and Garbage 15

309 Pest Elimination 15

CHAPTER 4 LIGHT, VENTILATION AND OCCUPANCY LIMITATIONS 17

Section

401 General 17

402 Light 17

403 Ventilation 17

404 Occupancy Limitations 17

CHAPTER 5 PLUMBING FACILITIES AND FIXTURE REQUIREMENTS 19

Section

501 General 19

502 Required Facilities 19

503 Toilet Rooms 19

504 Plumbing Systems and Fixtures 19

505 Water System 19

506 Sanitary Drainage System 20

507 Storm Drainage 20

CHAPTER 6 MECHANICAL AND ELECTRICAL REQUIREMENTS 21

Section

601 General 21

602 Heating Facilities 21

603 Mechanical Equipment 21

604 Electrical Facilities 21

605 Electrical Equipment 22

606 Elevators, Escalators and Dumbwaiters 22

607 Duct Systems 23

CHAPTER 7 FIRE SAFETY REQUIREMENTS 25

Section

701 General 25

702 Means of Egress 25

703 Fire-resistance Ratings 25

704 Fire Protection Systems 25

CHAPTER 8 REFERENCED STANDARDS 27

APPENDIX A BOARDING STANDARD 29

Section

A 101 General 29

A 102 Materials 29

A 103 Installation 29

INDEX 31

CHAPTER 1
SCOPE AND ADMINISTRATION

PART 1—SCOPE AND APPLICATION

SECTION 101
GENERAL

101.1 Title. These regulations shall be known as the *International Property Maintenance Code* of [NAME OF JURISDICTION], hereinafter referred to as "this code."

101.2 Scope. The provisions of this code shall apply to all existing residential and nonresidential structures and all existing *premises* and constitute minimum requirements and standards for *premises*, structures, equipment and facilities for light, *ventilation*, space, heating, sanitation, protection from the elements, life safety, safety from fire and other hazards, and for safe and sanitary maintenance; the responsibility of *owners*, *operators* and *occupants*; the *occupancy* of existing structures and *premises*, and for administration, enforcement and penalties.

101.3 Intent. This code shall be construed to secure its expressed intent, which is to ensure public health, safety and welfare insofar as they are affected by the continued *occupancy* and maintenance of structures and *premises*. Existing structures and *premises* that do not comply with these provisions shall be altered or repaired to provide a minimum level of health and safety as required herein.

101.4 Severability. If a section, subsection, sentence, clause or phrase of this code is, for any reason, held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this code.

SECTION 102
APPLICABILITY

102.1 General. Where there is a conflict between a general requirement and a specific requirement, the specific requirement shall govern. Where differences occur between provisions of this code and the referenced standards, the provisions of this code shall apply. Where, in a specific case, different sections of this code specify different requirements, the most restrictive shall govern.

102.2 Maintenance. Equipment, systems, devices and safeguards required by this code or a previous regulation or code under which the structure or *premises* was constructed, altered or repaired shall be maintained in good working order. No *owner*, *operator* or *occupant* shall cause any service, facility, equipment or utility which is required under this section to be removed from or shut off from or discontinued for any occupied dwelling, except for such temporary interruption as necessary while repairs or alterations are in progress. The requirements of this code are not intended to provide the basis for removal or abrogation of fire protection and safety systems and devices in existing structures. Except as otherwise specified herein, the *owner* or the *owner's* designated agent shall be responsible for the maintenance of buildings, structures and *premises*.

102.3 Application of other codes. Repairs, additions or alterations to a structure, or changes of *occupancy*, shall be done in accordance with the procedures and provisions of the *International Building Code, International Fuel Gas Code, International Mechanical Code* and NFPA 70. Nothing in this code shall be construed to cancel, modify or set aside any provision of the *International Zoning Code*.

102.4 Existing remedies. The provisions in this code shall not be construed to abolish or impair existing remedies of the jurisdiction or its officers or agencies relating to the removal or demolition of any structure which is dangerous, unsafe and insanitary.

102.5 Workmanship. Repairs, maintenance work, alterations or installations which are caused directly or indirectly by the enforcement of this code shall be executed and installed in a *workmanlike* manner and installed in accordance with the manufacturer's installation instructions.

102.6 Historic buildings. The provisions of this code shall not be mandatory for existing buildings or structures designated as historic buildings when such buildings or structures are judged by the *code official* to be safe and in the public interest of health, safety and welfare.

102.7 Referenced codes and standards. The codes and standards referenced in this code shall be those that are listed in Chapter 8 and considered part of the requirements of this code to the prescribed extent of each such reference. Where differences occur between provisions of this code and the referenced standards, the provisions of this code shall apply.

> **Exception:** Where enforcement of a code provision would violate the conditions of the listing of the equipment or appliance, the conditions of the listing shall apply.

102.8 Requirements not covered by code. Requirements necessary for the strength, stability or proper operation of an existing fixture, structure or equipment, or for the public safety, health and general welfare, not specifically covered by this code, shall be determined by the *code official*.

102.9 Application of references. References to chapter or section numbers, or to provisions not specifically identified by number, shall be construed to refer to such chapter, section or provision of this code.

102.10 Other laws. The provisions of this code shall not be deemed to nullify any provisions of local, state or federal law.

PART 2—ADMINISTRATION AND ENFORCEMENT

SECTION 103
DEPARTMENT OF PROPERTY MAINTENANCE INSPECTION

103.1 General. The department of property maintenance inspection is hereby created and the executive official in charge thereof shall be known as the *code official*.

103.2 Appointment. The *code official* shall be appointed by the chief appointing authority of the jurisdiction.

103.3 Deputies. In accordance with the prescribed procedures of this jurisdiction and with the concurrence of the appointing authority, the *code official* shall have the authority to appoint a deputy(s). Such employees shall have powers as delegated by the *code official*.

103.4 Liability. The *code official*, member of the board of appeals or employee charged with the enforcement of this code, while acting for the jurisdiction, in good faith and without malice in the discharge of the duties required by this code or other pertinent law or ordinance, shall not thereby be rendered liable personally, and is hereby relieved from all personal liability for any damage accruing to persons or property as a result of an act or by reason of an act or omission in the discharge of official duties. Any suit instituted against any officer or employee because of an act performed by that officer or employee in the lawful discharge of duties and under the provisions of this code shall be defended by the legal representative of the jurisdiction until the final termination of the proceedings. The *code official* or any subordinate shall not be liable for costs in an action, suit or proceeding that is instituted in pursuance of the provisions of this code.

103.5 Fees. The fees for activities and services performed by the department in carrying out its responsibilities under this code shall be as indicated in the following schedule.

[JURISDICTION TO INSERT APPROPRIATE SCHEDULE.]

SECTION 104
DUTIES AND POWERS OF THE CODE OFFICIAL

104.1 General. The *code official* is hereby authorized and directed to enforce the provisions of this code. The *code official* shall have the authority to render interpretations of this code and to adopt policies and procedures in order to clarify the application of its provisions. Such interpretations, policies and procedures shall be in compliance with the intent and purpose of this code. Such policies and procedures shall not have the effect of waiving requirements specifically provided for in this code.

104.2 Inspections. The *code official* shall make all of the required inspections, or shall accept reports of inspection by *approved* agencies or individuals. All reports of such inspections shall be in writing and be certified by a responsible officer of such *approved* agency or by the responsible individual. The *code official* is authorized to engage such expert opinion as deemed necessary to report upon unusual technical issues that arise, subject to the approval of the appointing authority.

104.3 Right of entry. Where it is necessary to make an inspection to enforce the provisions of this code, or whenever the *code official* has reasonable cause to believe that there exists in a *structure* or upon a *premises* a condition in violation of this code, the *code official* is authorized to enter the structure or *premises* at reasonable times to inspect or perform the duties imposed by this code, provided that if such *structure* or *premises* is occupied the *code official* shall present credentials to the *occupant* and request entry. If such structure or *premises* is unoccupied, the *code official* shall first make a reasonable effort to locate the *owner* or other person having charge or control of the *structure* or *premises* and request entry. If entry is refused, the *code official* shall have recourse to the remedies provided by law to secure entry.

104.4 Identification. The *code official* shall carry proper identification when inspecting *structures* or *premises* in the performance of duties under this code.

104.5 Notices and orders. The *code official* shall issue all necessary notices or orders to ensure compliance with this code.

104.6 Department records. The *code official* shall keep official records of all business and activities of the department specified in the provisions of this code. Such records shall be retained in the official records for the period required for retention of public records.

SECTION 105
APPROVAL

105.1 Modifications. Whenever there are practical difficulties involved in carrying out the provisions of this code, the *code official* shall have the authority to grant modifications for individual cases upon application of the *owner* or *owner*'s representative, provided the *code official* shall first find that special individual reason makes the strict letter of this code impractical and the modification is in compliance with the intent and purpose of this code and that such modification does not lessen health, life and fire safety requirements. The details of action granting modifications shall be recorded and entered in the department files.

105.2 Alternative materials, methods and equipment. The provisions of this code are not intended to prevent the installation of any material or to prohibit any method of construction not specifically prescribed by this code, provided that any such alternative has been *approved*. An alternative material or method of construction shall be *approved* where the *code official* finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.

105.3 Required testing. Whenever there is insufficient evidence of compliance with the provisions of this code, or evidence that a material or method does not conform to the requirements of this code, or in order to substantiate claims for

alternative materials or methods, the *code official* shall have the authority to require tests to be made as evidence of compliance at no expense to the jurisdiction.

105.3.1 Test methods. Test methods shall be as specified in this code or by other recognized test standards. In the absence of recognized and accepted test methods, the *code official* shall be permitted to approve appropriate testing procedures performed by an *approved* agency.

105.3.2 Test reports. Reports of tests shall be retained by the *code official* for the period required for retention of public records.

105.4 Used material and equipment. The use of used materials which meet the requirements of this code for new materials is permitted. Materials, equipment and devices shall not be reused unless such elements are in good repair or have been reconditioned and tested when necessary, placed in good and proper working condition and *approved* by the *code official*.

105.5 Approved materials and equipment. Materials, equipment and devices *approved* by the *code official* shall be constructed and installed in accordance with such approval.

105.6 Research reports. Supporting data, where necessary to assist in the approval of materials or assemblies not specifically provided for in this code, shall consist of valid research reports from *approved* sources.

SECTION 106
VIOLATIONS

106.1 Unlawful acts. It shall be unlawful for a person, firm or corporation to be in conflict with or in violation of any of the provisions of this code.

106.2 Notice of violation. The *code official* shall serve a notice of violation or order in accordance with Section 107.

106.3 Prosecution of violation. Any person failing to comply with a notice of violation or order served in accordance with Section 107 shall be deemed guilty of a misdemeanor or civil infraction as determined by the local municipality, and the violation shall be deemed a *strict liability offense*. If the notice of violation is not complied with, the *code official* shall institute the appropriate proceeding at law or in equity to restrain, correct or abate such violation, or to require the removal or termination of the unlawful *occupancy* of the structure in violation of the provisions of this code or of the order or direction made pursuant thereto. Any action taken by the authority having jurisdiction on such *premises* shall be charged against the real estate upon which the structure is located and shall be a lien upon such real estate.

106.4 Violation penalties. Any person who shall violate a provision of this code, or fail to comply therewith, or with any of the requirements thereof, shall be prosecuted within the limits provided by state or local laws. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

106.5 Abatement of violation. The imposition of the penalties herein prescribed shall not preclude the legal officer of the jurisdiction from instituting appropriate action to restrain, correct or abate a violation, or to prevent illegal *occupancy* of a building, structure or *premises*, or to stop an illegal act, conduct, business or utilization of the building, structure or *premises*.

SECTION 107
NOTICES AND ORDERS

107.1 Notice to person responsible. Whenever the *code official* determines that there has been a violation of this code or has grounds to believe that a violation has occurred, notice shall be given in the manner prescribed in Sections 107.2 and 107.3 to the person responsible for the violation as specified in this code. Notices for condemnation procedures shall also comply with Section 108.3.

107.2 Form. Such notice prescribed in Section 107.1 shall be in accordance with all of the following:

1. Be in writing.
2. Include a description of the real estate sufficient for identification.
3. Include a statement of the violation or violations and why the notice is being issued.
4. Include a correction order allowing a reasonable time to make the repairs and improvements required to bring the *dwelling unit* or structure into compliance with the provisions of this code.
5. Inform the property *owner* of the right to appeal.
6. Include a statement of the right to file a lien in accordance with Section 106.3.

107.3 Method of service. Such notice shall be deemed to be properly served if a copy thereof is:

1. Delivered persoually;
2. Sent by certified or first-class mail addressed to the last known address; or
3. If the notice is returned showing that the letter was not delivered, a copy thereof shall be posted in a conspicuous place in or about the structure affected by such notice.

107.4 Unauthorized tampering. Signs, tags or seals posted or affixed by the *code official* shall not be mutilated, destroyed or tampered with, or removed without authorization from the *code official*.

107.5 Penalties. Penalties for noncompliance with orders and notices shall be as set forth in Section 106.4.

107.6 Transfer of ownership. It shall be unlawful for the *owner* of any *dwelling unit* or structure who has received a compliance order or upon whom a notice of violation has been served to sell, transfer, mortgage, lease or otherwise dispose of such *dwelling unit* or structure to another until the provisions of the compliance order or notice of violation have been complied with, or until such *owner* shall first furnish the grantee, transferee, mortgagee or lessee a true copy of any compliance order or notice of violation issued by the *code official* and shall furnish to the *code official* a signed and notarized statement from the grantee, transferee, mortgagee or lessee, acknowledging the receipt of such compliance order or notice of violation and

fully accepting the responsibility without condition for making the corrections or repairs required by such compliance order or notice of violation.

SECTION 108
UNSAFE STRUCTURES AND EQUIPMENT

108.1 General. When a structure or equipment is found by the *code official* to be unsafe, or when a structure is found unfit for human *occupancy*, or is found unlawful, such structure shall be *condemned* pursuant to the provisions of this code.

108.1.1 Unsafe structures. An unsafe structure is one that is found to be dangerous to the life, health, property or safety of the public or the *occupants* of the structure by not providing minimum safeguards to protect or warn *occupants* in the event of fire, or because such structure contains unsafe equipment or is so damaged, decayed, dilapidated, structurally unsafe or of such faulty construction or unstable foundation, that partial or complete collapse is possible.

108.1.2 Unsafe equipment. Unsafe equipment includes any boiler, heating equipment, elevator, moving stairway, electrical wiring or device, flammable liquid containers or other equipment on the *premises* or within the structure which is in such disrepair or condition that such equipment is a hazard to life, health, property or safety of the public or *occupants* of the *premises* or structure.

108.1.3 Structure unfit for human occupancy. A structure is unfit for human *occupancy* whenever the *code official* finds that such structure is unsafe, unlawful or, because of the degree to which the structure is in disrepair or lacks maintenance, is insanitary, vermin or rat infested, contains filth and contamination, or lacks *ventilation*, illumination, sanitary or heating facilities or other essential equipment required by this code, or because the location of the structure constitutes a hazard to the *occupants* of the structure or to the public.

108.1.4 Unlawful structure. An unlawful structure is one found in whole or in part to be occupied by more persons than permitted under this code, or was erected, altered or occupied contrary to law.

108.1.5 Dangerous *structure* or *premises*. For the purpose of this code, any structure or *premises* that has any or all of the conditions or defects described below shall be considered dangerous:

1. Any door, aisle, passageway, stairway, exit or other means of egress that does not conform to the *approved* building or fire code of the jurisdiction as related to the requirements for existing buildings.
2. The walking surface of any aisle, passageway, stairway, exit or other means of egress is so warped, worn loose, torn or otherwise unsafe as to not provide safe and adequate means of egress.
3. Any portion of a building, structure or appurtenance that has been damaged by fire, earthquake, wind, flood, *deterioration*, *neglect*, abandonment, vandalism or by any other cause to such an extent that it is likely to partially or completely collapse, or to become *detached* or dislodged.
4. Any portion of a building, or any member, appurtenance or ornamentation on the exterior thereof that is not of sufficient strength or stability, or is not so *anchored*, attached or fastened in place so as to be capable of resisting natural or artificial loads of one and one-half the original designed value.
5. The building or structure, or part of the building or structure, because of dilapidation, *deterioration*, decay, faulty construction, the removal or movement of some portion of the ground necessary for the support, or for any other reason, is likely to partially or completely collapse, or some portion of the foundation or underpinning of the building or structure is likely to fail or give way.
6. The building or structure, or any portion thereof, is clearly unsafe for its use and *occupancy*.
7. The building or structure is *neglected*, damaged, dilapidated, unsecured or abandoned so as to become an attractive nuisance to children who might play in the building or structure to their danger, becomes a harbor for vagrants, criminals or immoral persons, or enables persons to resort to the building or structure for committing a nuisance or an unlawful act.
8. Any building or structure has been constructed, exists or is maintained in violation of any specific requirement or prohibition applicable to such building or structure provided by the *approved* building or fire code of the jurisdiction, or of any law or ordinance to such an extent as to present either a substantial risk of fire, building collapse or any other threat to life and safety.
9. A building or structure, used or intended to be used for dwelling purposes, because of inadequate maintenance, dilapidation, decay, damage, faulty construction or arrangement, inadequate light, *ventilation*, mechanical or plumbing system, or otherwise, is determined by the *code official* to be unsanitary, unfit for human habitation or in such a condition that is likely to cause sickness or disease.
10. Any building or structure, because of a lack of sufficient or proper fire-resistance-rated construction, fire protection systems, electrical system, fuel connections, mechanical system, plumbing system or other cause, is determined by the *code official* to be a threat to life or health.
11. Any portion of a building remains on a site after the demolition or destruction of the building or structure or whenever any building or structure is abandoned so as to constitute such building or portion thereof as an attractive nuisance or hazard to the public.

108.2 Closing of vacant structures. If the structure is vacant and unfit for human habitation and *occupancy*, and is not in danger of structural collapse, the *code official* is authorized to

post a placard of condemnation on the *premises* and order the structure closed up so as not to be an attractive nuisance. Upon failure of the *owner* to close up the *premises* within the time specified in the order, the *code official* shall cause the *premises* to be closed and secured through any available public agency or by contract or arrangement by private persons and the cost thereof shall be charged against the real estate upon which the structure is located and shall be a lien upon such real estate and may be collected by any other legal resource.

108.2.1 Authority to disconnect service utilities. The *code official* shall have the authority to authorize disconnection of utility service to the building, structure or system regulated by this code and the referenced codes and standards set forth in Section 102.7 in case of emergency where necessary to eliminate an immediate hazard to life or property or when such utility connection has been made without approval. The *code official* shall notify the serving utility and, whenever possible, the *owner* and *occupant* of the building, structure or service system of the decision to disconnect prior to taking such action. If not notified prior to disconnection the *owner* or *occupant* of the building structure or service system shall be notified in writing as soon as practical thereafter.

108.3 Notice. Whenever the *code official* has *condemned* a structure or equipment under the provisions of this section, notice shall be posted in a conspicuous place in or about the structure affected by such notice and served on the *owner* or the person or persons responsible for the structure or equipment in accordance with Section 107.3. If the notice pertains to equipment, it shall also be placed on the *condemned* equipment. The notice shall be in the form prescribed in Section 107.2.

108.4 Placarding. Upon failure of the *owner* or person responsible to comply with the notice provisions within the time given, the *code official* shall post on the *premises* or on defective equipment a placard bearing the word "Condemned" and a statement of the penalties provided for occupying the *premises*, operating the equipment or removing the placard.

108.4.1 Placard removal. The *code official* shall remove the condemnation placard whenever the defect or defects upon which the condemnation and placarding action were based have been eliminated. Any person who defaces or removes a condemnation placard without the approval of the *code official* shall be subject to the penalties provided by this code.

108.5 Prohibited occupancy. Any occupied structure *condemned* and placarded by the *code official* shall be vacated as ordered by the *code official*. Any person who shall occupy a placarded *premises* or shall operate placarded equipment, and any *owner* or any person responsible for the *premises* who shall let anyone occupy a placarded *premises* or operate placarded equipment shall be liable for the penalties provided by this code.

108.6 Abatement methods. The *owner*, *operator* or *occupant* of a building, *premises* or equipment deemed unsafe by the *code official* shall abate or cause to be abated or corrected such unsafe conditions either by repair, rehabilitation, demolition or other *approved* corrective action.

108.7 Record. The *code official* shall cause a report to be filed on an unsafe condition. The report shall state the *occupancy* of the structure and the nature of the unsafe condition.

SECTION 109
EMERGENCY MEASURES

109.1 Imminent danger. When, in the opinion of the *code official*, there is *imminent danger* of failure or collapse of a building or structure which endangers life, or when any structure or part of a structure has fallen and life is endangered by the occupation of the structure, or when there is actual or potential danger to the building *occupants* or those in the proximity of any structure because of explosives, explosive fumes or vapors or the presence of toxic fumes, gases or materials, or operation of defective or dangerous equipment, the *code official* is hereby authorized and empowered to order and require the *occupants* to vacate the *premises* forthwith. The *code official* shall cause to be posted at each entrance to such structure a notice reading as follows: "This *Structure* Is Unsafe and Its *Occupancy* Has Been Prohibited by the *Code Official*." It shall be unlawful for any person to enter such structure except for the purpose of securing the structure, making the required repairs, removing the hazardous condition or of demolishing the same.

109.2 Temporary safeguards. Notwithstanding other provisions of this code, whenever, in the opinion of the *code official*, there is *imminent danger* due to an unsafe condition, the *code official* shall order the necessary work to be done, including the boarding up of openings, to render such structure temporarily safe whether or not the legal procedure herein described has been instituted; and shall cause such other action to be taken as the *code official* deems necessary to meet such emergency.

109.3 Closing streets. When necessary for public safety, the *code official* shall temporarily close structures and close, or order the authority having jurisdiction to close, sidewalks, streets, *public ways* and places adjacent to unsafe structures, and prohibit the same from being utilized.

109.4 Emergency repairs. For the purposes of this section, the *code official* shall employ the necessary labor and materials to perform the required work as expeditiously as possible.

109.5 Costs of emergency repairs. Costs incurred in the performance of emergency work shall be paid by the jurisdiction. The legal counsel of the jurisdiction shall institute appropriate action against the *owner* of the *premises* where the unsafe structure is or was located for the recovery of such costs.

109.6 Hearing. Any person ordered to take emergency measures shall comply with such order forthwith. Any affected person shall thereafter, upon petition directed to the appeals board, be afforded a hearing as described in this code.

SECTION 110
DEMOLITION

110.1 General. The *code official* shall order the *owner* of any *premises* upon which is located any structure, which in the *code official* judgment after review is so deteriorated or dilapidated or has become so out of repair as to be dangerous, unsafe, insanitary or otherwise unfit for human habitation or occu-

pancy, and such that it is unreasonable to repair the structure, to demolish and remove such structure; or if such structure is capable of being made safe by repairs, to repair and make safe and sanitary, or to board up and hold for future repair or to demolish and remove at the *owner's* option; or where there has been a cessation of normal construction of any structure for a period of more than two years, the *code official* shall order the *owner* to demolish and remove such structure, or board up until future repair. Boarding the building up for future repair shall not extend beyond one year, unless *approved* by the building official.

110.2 Notices and orders. All notices and orders shall comply with Section 107.

110.3 Failure to comply. If the *owner* of a *premises* fails to comply with a demolition order within the time prescribed, the *code official* shall cause the structure to be demolished and removed, either through an available public agency or by contract or arrangement with private persons, and the cost of such demolition and removal shall be charged against the real estate upon which the structure is located and shall be a lien upon such real estate.

110.4 Salvage materials. When any structure has been ordered demolished and removed, the governing body or other designated officer under said contract or arrangement aforesaid shall have the right to sell the salvage and valuable materials at the highest price obtainable. The net proceeds of such sale, after deducting the expenses of such demolition and removal, shall be promptly remitted with a report of such sale or transaction, including the items of expense and the amounts deducted, for the person who is entitled thereto, subject to any order of a court. If such a surplus does not remain to be turned over, the report shall so state.

SECTION 111
MEANS OF APPEAL

111.1 Application for appeal. Any person directly affected by a decision of the *code official* or a notice or order issued under this code shall have the right to appeal to the board of appeals, provided that a written application for appeal is filed within 20 days after the day the decision, notice or order was served. An application for appeal shall be based on a claim that the true intent of this code or the rules legally adopted thereunder have been incorrectly interpreted, the provisions of this code do not fully apply, or the requirements of this code are adequately satisfied by other means.

111.2 Membership of board. The board of appeals shall consist of a minimum of three members who are qualified by experience and training to pass on matters pertaining to property maintenance and who are not employees of the jurisdiction. The *code official* shall be an ex-officio member but shall have no vote on any matter before the board. The board shall be appointed by the chief appointing authority, and shall serve staggered and overlapping terms.

111.2.1 Alternate members. The chief appointing authority shall appoint two or more alternate members who shall be called by the board chairman to hear appeals during the absence or disqualification of a member. Alternate members shall possess the qualifications required for board membership.

111.2.2 Chairman. The board shall annually select one of its members to serve as chairman.

111.2.3 Disqualification of member. A member shall not hear an appeal in which that member has a personal, professional or financial interest.

111.2.4 Secretary. The chief administrative officer shall designate a qualified person to serve as secretary to the board. The secretary shall file a detailed record of all proceedings in the office of the chief administrative officer.

111.2.5 Compensation of members. Compensation of members shall be determined by law.

111.3 Notice of meeting. The board shall meet upon notice from the chairman, within 20 days of the filing of an appeal, or at stated periodic meetings.

111.4 Open hearing. All hearings before the board shall be open to the public. The appellant, the appellant's representative, the *code official* and any person whose interests are affected shall be given an opportunity to be heard. A quorum shall consist of not less than two-thirds of the board membership.

111.4.1 Procedure. The board shall adopt and make available to the public through the secretary procedures under which a hearing will be conducted. The procedures shall not require compliance with strict rules of evidence, but shall mandate that only relevant information be received.

111.5 Postponed hearing. When the full board is not present to hear an appeal, either the appellant or the appellant's representative shall have the right to request a postponement of the hearing.

111.6 Board decision. The board shall modify or reverse the decision of the *code official* only by a concurring vote of a majority of the total number of appointed board members.

111.6.1 Records and copies. The decision of the board shall be recorded. Copies shall be furnished to the appellant and to the *code official*.

111.6.2 Administration. The *code official* shall take immediate action in accordance with the decision of the board.

111.7 Court review. Any person, whether or not a previous party of the appeal, shall have the right to apply to the appropriate court for a writ of certiorari to correct errors of law. Application for review shall be made in the manner and time required by law following the filing of the decision in the office of the chief administrative officer.

111.8 Stays of enforcement. Appeals of notice and orders (other than *Imminent Danger* notices) shall stay the enforcement of the notice and order until the appeal is heard by the appeals board.

SECTION 112
STOP WORK ORDER

112.1 Authority. Whenever the *code official* finds any work regulated by this code being performed in a manner contrary to

the provisions of this code or in a dangerous or unsafe manner, the *code official* is authorized to issue a stop work order.

112.2 Issuance. A stop work order shall be in writing and shall be given to the *owner* of the property, to the *owner's* agent, or to the person doing the work. Upon issuance of a stop work order, the cited work shall immediately cease. The stop work order shall state the reason for the order and the conditions under which the cited work is authorized to resume.

112.3 Emergencies. Where an emergency exists, the *code official* shall not be required to give a written notice prior to stopping the work.

112.4 Failure to comply. Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable to a fine of not less than [AMOUNT] dollars or more than [AMOUNT] dollars.

CHAPTER 2
DEFINITIONS

SECTION 201
GENERAL

201.1 Scope. Unless otherwise expressly stated, the following terms shall, for the purposes of this code, have the meanings shown in this chapter.

201.2 Interchangeability. Words stated in the present tense include the future; words stated in the masculine gender include the feminine and neuter; the singular number includes the plural and the plural, the singular.

201.3 Terms defined in other codes. Where terms are not defined in this code and are defined in the *International Building Code*, *International Fire Code*, *International Zoning Code*, *International Plumbing Code*, *International Mechanical Code* or NFPA 70, such terms shall have the meanings ascribed to them as stated in those codes.

201.4 Terms not defined. Where terms are not defined through the methods authorized by this section, such terms shall have ordinarily accepted meanings such as the context implies.

201.5 Parts. Whenever the words "*dwelling unit*," "dwelling," "*premises*," "building," "*rooming house*," "*rooming unit*," "*housekeeping unit*" or "story" are stated in this code, they shall be construed as though they were followed by the words "or any part thereof."

SECTION 202
GENERAL DEFINITIONS

ANCHORED. Secured in a manner that provides positive connection.

APPROVED. *Approved* by the *code official*.

BASEMENT. That portion of a building which is partly or completely below grade.

BATHROOM. A room containing plumbing fixtures including a bathtub or shower.

BEDROOM. Any room or space used or intended to be used for sleeping purposes in either a dwelling or *sleeping unit*.

CODE OFFICIAL. The official who is charged with the administration and enforcement of this code, or any duly authorized representative.

CONDEMN. To adjudge unfit for *occupancy*.

DETACHED. When a structural element is physically disconnected from another and that connection is necessary to provide a positive connection.

DETERIORATION. To weaken, disintegrate, corrode, rust or decay and lose effectiveness.

[B] DWELLING UNIT. A single unit providing complete, independent living facilities for one or more persons, including permanent provisions for living, sleeping, eating, cooking and sanitation.

EASEMENT. That portion of land or property reserved for present or future use by a person or agency other than the legal fee *owner*(s) of the property. The *easement* shall be permitted to be for use under, on or above a said lot or lots.

EQUIPMENT SUPPORT. Those structural members or assemblies of members or manufactured elements, including braces, frames, lugs, snuggers, hangers or saddles, that transmit gravity load, lateral load and operating load between the equipment and the structure.

EXTERIOR PROPERTY. The open space on the *premises* and on adjoining property under the control of *owners* or *operators* of such *premises*.

GARBAGE. The animal or vegetable waste resulting from the handling, preparation, cooking and consumption of food.

GUARD. A building component or a system of building components located at or near the open sides of elevated walking surfaces that minimizes the possibility of a fall from the walking surface to a lower level.

HABITABLE SPACE. Space in a structure for living, sleeping, eating or cooking. *Bathrooms*, *toilet rooms*, closets, halls, storage or utility spaces, and similar areas are not considered *habitable spaces*.

HOUSEKEEPING UNIT. A room or group of rooms forming a single *habitable space* equipped and intended to be used for living, sleeping, cooking and eating which does not contain, within such a unit, a toilet, lavatory and bathtub or shower.

IMMINENT DANGER. A condition which could cause serious or life-threatening injury or death at any time.

INFESTATION. The presence, within or contiguous to, a structure or *premises* of insects, rats, vermin or other pests.

INOPERABLE MOTOR VEHICLE. A vehicle which cannot be driven upon the public streets for reason including but not limited to being unlicensed, wrecked, abandoned, in a state of disrepair, or incapable of being moved under its own power.

LABELED. Equipment, materials or products to which have been affixed a label, seal, symbol or other identifying mark of a nationally recognized testing laboratory, inspection agency or other organization concerned with product evaluation that maintains periodic inspection of the production of the above-*labeled* items and whose labeling indicates either that the equipment, material or product meets identified standards or has been tested and found suitable for a specified purpose.

LET FOR OCCUPANCY OR LET. To permit, provide or offer possession or *occupancy* of a dwelling, *dwelling unit*, *rooming unit*, building, premise or structure by a person who is or is not the legal *owner* of record thereof, pursuant to a written or unwritten lease, agreement or license, or pursuant to a

recorded or unrecorded agreement of contract for the sale of land.

NEGLECT. The lack of proper maintenance for a building or *structure*.

OCCUPANCY. The purpose for which a building or portion thereof is utilized or occupied.

OCCUPANT. Any individual living or sleeping in a building, or having possession of a space within a building.

OPENABLE AREA. That part of a window, skylight or door which is available for unobstructed *ventilation* and which opens directly to the outdoors.

OPERATOR. Any person who has charge, care or control of a structure or *premises* which is let or offered for *occupancy*.

OWNER. Any person, agent, *operator*, firm or corporation having a legal or equitable interest in the property; or recorded in the official records of the state, county or municipality as holding title to the property; or otherwise having control of the property, including the guardian of the estate of any such person, and the executor or administrator of the estate of such person if ordered to take possession of real property by a court.

PERSON. An individual, corporation, partnership or any other group acting as a unit.

PEST ELIMINATION. The control and elimination of insects, rodents or other pests by eliminating their harborage places; by removing or making inaccessible materials that serve as their food or water; by other *approved pest elimination* methods.

PREMISES. A lot, plot or parcel of land, *easement* or *public way*, including any structures thereon.

PUBLIC WAY. Any street, alley or similar parcel of land essentially unobstructed from the ground to the sky, which is deeded, dedicated or otherwise permanently appropriated to the public for public use.

ROOMING HOUSE. A building arranged or occupied for lodging, with or without meals, for compensation and not occupied as a one- or two-family dwelling.

ROOMING UNIT. Any room or group of rooms forming a single habitable unit occupied or intended to be occupied for sleeping or living, but not for cooking purposes.

RUBBISH. Combustible and noncombustible waste materials, except garbage; the term shall include the residue from the burning of wood, coal, coke and other combustible materials, paper, rags, cartons, boxes, wood, excelsior, rubber, leather, tree branches, *yard* trimmings, tin cans, metals, mineral matter, glass, crockery and dust and other similar materials.

[B] SLEEPING UNIT. A room or space in which people sleep, which can also include permanent provisions for living, eating and either sanitation or kitchen facilities, but not both. Such rooms and spaces that are also part of a *dwelling unit* are not *sleeping units*.

STRICT LIABILITY OFFENSE. An offense in which the prosecution in a legal proceeding is not required to prove criminal intent as a part of its case. It is enough to prove that the defendant either did an act which was prohibited, or failed to do an act which the defendant was legally required to do.

STRUCTURE. That which is built or constructed or a portion thereof.

TENANT. A person, corporation, partnership or group, whether or not the legal *owner* of record, occupying a building or portion thereof as a unit.

TOILET ROOM. A room containing a water closet or urinal but not a bathtub or shower.

ULTIMATE DEFORMATION. The deformation at which failure occurs and which shall be deemed to occur if the sustainable load reduces to 80 percent or less of the maximum strength.

VENTILATION. The natural or mechanical process of supplying conditioned or unconditioned air to, or removing such air from, any space.

WORKMANLIKE. Executed in a skilled manner; e.g., generally plumb, level, square, in line, undamaged and without marring adjacent work.

YARD. An open space on the same lot with a structure.

CHAPTER 3
GENERAL REQUIREMENTS

SECTION 301
GENERAL

301.1 Scope. The provisions of this chapter shall govern the minimum conditions and the responsibilities of persons for maintenance of structures, equipment and *exterior property*.

301.2 Responsibility. The *owner* of the *premises* shall maintain the structures and *exterior property* in compliance with these requirements, except as otherwise provided for in this code. A person shall not occupy as owner-occupant or permit another person to occupy *premises* which are not in a sanitary and safe condition and which do not comply with the requirements of this chapter. *Occupants* of a *dwelling unit*, *rooming unit* or *housekeeping unit* are responsible for keeping in a clean, sanitary and safe condition that part of the *dwelling unit*, *rooming unit*, *housekeeping unit* or *premises* which they occupy and control.

301.3 Vacant structures and land. All vacant structures and *premises* thereof or vacant land shall be maintained in a clean, safe, secure and sanitary condition as provided herein so as not to cause a blighting problem or adversely affect the public health or safety.

SECTION 302
EXTERIOR PROPERTY AREAS

302.1 Sanitation. All *exterior property* and *premises* shall be maintained in a clean, safe and sanitary condition. The *occupant* shall keep that part of the *exterior property* which such *occupant* occupies or controls in a clean and sanitary condition.

302.2 Grading and drainage. All *premises* shall be graded and maintained to prevent the erosion of soil and to prevent the accumulation of stagnant water thereon, or within any structure located thereon.

Exception: *Approved* retention areas and reservoirs.

302.3 Sidewalks and driveways. All sidewalks, walkways, stairs, driveways, parking spaces and similar areas shall be kept in a proper state of repair, and maintained free from hazardous conditions.

302.4 Weeds. All *premises* and *exterior property* shall be maintained free from weeds or plant growth in excess of (jurisdiction to insert height in inches). All noxious weeds shall be prohibited. Weeds shall be defined as all grasses, annual plants and vegetation, other than trees or shrubs provided; however, this term shall not include cultivated flowers and gardens.

Upon failure of the *owner* or agent having charge of a property to cut and destroy weeds after service of a notice of violation, they shall be subject to prosecution in accordance with Section 106.3 and as prescribed by the authority having jurisdiction. Upon failure to comply with the notice of violation, any duly authorized employee of the jurisdiction or contractor hired by the jurisdiction shall be authorized to enter upon the property in violation and cut and destroy the weeds growing thereon, and the costs of such removal shall be paid by the *owner* or agent responsible for the property.

302.5 Rodent harborage. All structures and *exterior property* shall be kept free from rodent harborage and *infestation*. Where rodents are found, they shall be promptly exterminated by *approved* processes which will not be injurious to human health. After extermination, proper precautions shall be taken to eliminate rodent harborage and prevent reinfestation.

302.6 Exhaust vents. Pipes, ducts, conductors, fans or blowers shall not discharge gases, steam, vapor, hot air, grease, smoke, odors or other gaseous or particulate wastes directly upon abutting or adjacent public or private property or that of another *tenant*.

302.7 Accessory structures. All accessory structures, including *detached* garages, fences and walls, shall be maintained structurally sound and in good repair.

302.8 Motor vehicles. Except as provided for in other regulations, no inoperative or unlicensed motor vehicle shall be parked, kept or stored on any *premises*, and no vehicle shall at any time be in a state of major disassembly, disrepair, or in the process of being stripped or dismantled. Painting of vehicles is prohibited unless conducted inside an *approved* spray booth.

Exception: A vehicle of any type is permitted to undergo major overhaul, including body work, provided that such work is performed inside a structure or similarly enclosed area designed and *approved* for such purposes.

302.9 Defacement of property. No person shall willfully or wantonly damage, mutilate or deface any exterior surface of any structure or building on any private or public property by placing thereon any marking, carving or graffiti.

It shall be the responsibility of the *owner* to restore said surface to an *approved* state of maintenance and repair.

SECTION 303
SWIMMING POOLS, SPAS AND HOT TUBS

303.1 Swimming pools. Swimming pools shall be maintained in a clean and sanitary condition, and in good repair.

303.2 Enclosures. Private swimming pools, hot tubs and spas, containing water more than 24 inches (610 mm) in depth shall be completely surrounded by a fence or barrier at least 48 inches (1219 mm) in height above the finished ground level measured on the side of the barrier away from the pool. Gates and doors in such barriers shall be self-closing and self-latching. Where the self-latching device is less than 54 inches (1372 mm) above the bottom of the gate, the release mechanism shall be located on the pool side of the gate. Self-closing and self-latching gates shall be maintained such that the gate will positively close and latch when released from an open position of 6 inches (152 mm) from the gatepost. No existing pool enclosure

shall be removed, replaced or changed in a manner that reduces its effectiveness as a safety barrier.

Exception: Spas or hot tubs with a safety cover that complies with ASTM F 1346 shall be exempt from the provisions of this section.

SECTION 304
EXTERIOR STRUCTURE

304.1 General. The exterior of a structure shall be maintained in good repair, structurally sound and sanitary so as not to pose a threat to the public health, safety or welfare.

304.1.1 Unsafe conditions. The following conditions shall be determined as unsafe and shall be repaired or replaced to comply with the *International Building Code* or the *International Existing Building Code* as required for existing buildings:

1. The nominal strength of any structural member is exceeded by nominal loads, the load effects or the required strength;
2. The *anchorage* of the floor or roof to walls or columns, and of walls and columns to foundations is not capable of resisting all nominal loads or load effects;
3. Structures or components thereof that have reached their limit state;
4. Siding and masonry joints including joints between the building envelope and the perimeter of windows, doors and skylights are not maintained, weather resistant or water tight;
5. Structural members that have evidence of *deterioration* or that are not capable of safely supporting all nominal loads and load effects;
6. Foundation systems that are not firmly supported by footings, are not plumb and free from open cracks and breaks, are not properly *anchored* or are not capable of supporting all nominal loads and resisting all load effects;
7. Exterior walls that are not *anchored* to supporting and supported elements or are not plumb and free of holes, cracks or breaks and loose or rotting materials, are not properly *anchored* or are not capable of supporting all nominal loads and resisting all load effects;
8. Roofing or roofing components that have defects that admit rain, roof surfaces with inadequate drainage, or any portion of the roof framing that is not in good repair with signs of *deterioration*, fatigue or without proper anchorage and incapable of supporting all nominal loads and resisting all load effects;
9. Flooring and flooring components with defects that affect serviceability or flooring components that show signs of *deterioration* or fatigue, are not properly *anchored* or are incapable of supporting all nominal loads and resisting all load effects;
10. Veneer, cornices, belt courses, corbels, trim, wall facings and similar decorative features not properly *anchored* or that are *anchored* with connections not capable of supporting all nominal loads and resisting all load effects;
11. Overhang extensions or projections including, but not limited to, trash chutes, canopies, marquees, signs, awnings, fire escapes, standpipes and exhaust ducts not properly *anchored* or that are *anchored* with connections not capable of supporting all nominal loads and resisting all load effects;
12. Exterior stairs, decks, porches, balconies and all similar appurtenances attached thereto, including *guards* and handrails, are not structurally sound, not properly *anchored* or that are *anchored* with connections not capable of supporting all nominal loads and resisting all load effects; or
13. Chimneys, cooling towers, smokestacks and similar appurtenances not structurally sound or not properly *anchored*, or that are *anchored* with connections not capable of supporting all nominal loads and resisting all load effects.

Exceptions:

1. When substantiated otherwise by an *approved* method.
2. Demolition of unsafe conditions shall be permitted when *approved* by the *code official*.

304.2 Protective treatment. All exterior surfaces, including but not limited to, doors, door and window frames, cornices, porches, trim, balconies, decks and fences, shall be maintained in good condition. Exterior wood surfaces, other than decay-resistant woods, shall be protected from the elements and decay by painting or other protective covering or treatment. Peeling, flaking and chipped paint shall be eliminated and surfaces repainted. All siding and masonry joints, as well as those between the building envelope and the perimeter of windows, doors and skylights, shall be maintained weather resistant and water tight. All metal surfaces subject to rust or corrosion shall be coated to inhibit such rust and corrosion, and all surfaces with rust or corrosion shall be stabilized and coated to inhibit future rust and corrosion. Oxidation stains shall be removed from exterior surfaces. Surfaces designed for stabilization by oxidation are exempt from this requirement.

[F] 304.3 Premises identification. Buildings shall have *approved* address numbers placed in a position to be plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. Address numbers shall be Arabic numerals or alphabet letters. Numbers shall be a minimum of 4 inches (102 mm) high with a minimum stroke width of 0.5 inch (12.7 mm).

304.4 Structural members. All structural members shall be maintained free from *deterioration*, and shall be capable of safely supporting the imposed dead and live loads.

304.5 Foundation walls. All foundation walls shall be maintained plumb and free from open cracks and breaks and shall be

kept in such condition so as to prevent the entry of rodents and other pests.

304.6 Exterior walls. All exterior walls shall be free from holes, breaks, and loose or rotting materials; and maintained weatherproof and properly surface coated where required to prevent *deterioration*.

304.7 Roofs and drainage. The roof and flashing shall be sound, tight and not have defects that admit rain. Roof drainage shall be adequate to prevent dampness or *deterioration* in the walls or interior portion of the structure. Roof drains, gutters and downspouts shall be maintained in good repair and free from obstructions. Roof water shall not be discharged in a manner that creates a public nuisance.

304.8 Decorative features. All cornices, belt courses, corbels, terra cotta trim, wall facings and similar decorative features shall be maintained in good repair with proper anchorage and in a safe condition.

304.9 Overhang extensions. All overhang extensions including, but not limited to canopies, marquees, signs, metal awnings, fire escapes, standpipes and exhaust ducts shall be maintained in good repair and be properly *anchored* so as to be kept in a sound condition. When required, all exposed surfaces of metal or wood shall be protected from the elements and against decay or rust by periodic application of weather-coating materials, such as paint or similar surface treatment.

304.10 Stairways, decks, porches and balconies. Every exterior stairway, deck, porch and balcony, and all appurtenances attached thereto, shall be maintained structurally sound, in good repair, with proper anchorage and capable of supporting the imposed loads.

304.11 Chimneys and towers. All chimneys, cooling towers, smoke stacks, and similar appurtenances shall be maintained structurally safe and sound, and in good repair. All exposed surfaces of metal or wood shall be protected from the elements and against decay or rust by periodic application of weather-coating materials, such as paint or similar surface treatment.

304.12 Handrails and guards. Every handrail and *guard* shall be firmly fastened and capable of supporting normally imposed loads and shall be maintained in good condition.

304.13 Window, skylight and door frames. Every window, skylight, door and frame shall be kept in sound condition, good repair and weather tight.

304.13.1 Glazing. All glazing materials shall be maintained free from cracks and holes.

304.13.2 Openable windows. Every window, other than a fixed window, shall be easily openable and capable of being held in position by window hardware.

304.14 Insect screens. During the period from [DATE] to [DATE], every door, window and other outside opening required for *ventilation* of habitable rooms, food preparation areas, food service areas or any areas where products to be included or utilized in food for human consumption are processed, manufactured, packaged or stored shall be supplied with *approved* tightly fitting screens of not less than 16 mesh per inch (16 mesh per 25 mm), and every screen door used for insect control shall have a self-closing device in good working condition.

Exception: Screens shall not be required where other *approved* means, such as air curtains or insect repellent fans, are employed.

304.15 Doors. All exterior doors, door assemblies and hardware shall be maintained in good condition. Locks at all entrances to *dwelling units* and *sleeping units* shall tightly secure the door. Locks on means of egress doors shall be in accordance with Section 702.3.

304.16 Basement hatchways. Every *basement* hatchway shall be maintained to prevent the entrance of rodents, rain and surface drainage water.

304.17 Guards for basement windows. Every *basement* window that is openable shall be supplied with rodent shields, storm windows or other *approved* protection against the entry of rodents.

304.18 Building security. Doors, windows or hatchways for *dwelling units*, room units or *housekeeping units* shall be provided with devices designed to provide security for the *occupants* and property within.

304.18.1 Doors. Doors providing access to a *dwelling unit*, *rooming unit* or *housekeeping unit* that is rented, leased or let shall be equipped with a deadbolt lock designed to be readily openable from the side from which egress is to be made without the need for keys, special knowledge or effort and shall have a lock throw of not less than 1 inch (25 mm). Such deadbolt locks shall be installed according to the manufacturer's specifications and maintained in good working order. For the purpose of this section, a sliding bolt shall not be considered an acceptable deadbolt lock.

304.18.2 Windows. Operable windows located in whole or in part within 6 feet (1828 mm) above ground level or a walking surface below that provide access to a *dwelling unit*, *rooming unit* or *housekeeping unit* that is rented, leased or let shall be equipped with a window sash locking device.

304.18.3 Basement hatchways. *Basement* hatchways that provide access to a *dwelling unit*, *rooming unit* or *housekeeping unit* that is rented, leased or let shall be equipped with devices that secure the units from unauthorized entry.

SECTION 305
INTERIOR STRUCTURE

305.1 General. The interior of a structure and equipment therein shall be maintained in good repair, structurally sound and in a sanitary condition. *Occupants* shall keep that part of the structure which they occupy or control in a clean and sanitary condition. Every *owner* of a structure containing a *rooming house*, *housekeeping units*, a hotel, a dormitory, two or more *dwelling units* or two or more nonresidential occupancies, shall maintain, in a clean and sanitary condition, the shared or public areas of the structure and *exterior property*.

305.1.1 Unsafe conditions. The following conditions shall be determined as unsafe and shall be repaired or replaced to comply with the *International Building Code* or the *Inter-*

national Existing Building Code as required for existing buildings:

1. The nominal strength of any structural member is exceeded by nominal loads, the load effects or the required strength;
2. The anchorage of the floor or roof to walls or columns, and of walls and columns to foundations is not capable of resisting all nominal loads or load effects;
3. Structures or components thereof that have reached their limit state;
4. Structural members are incapable of supporting nominal loads and load effects;
5. Stairs, landings, balconies and all similar walking surfaces, including *guards* and handrails, are not structurally sound, not properly *anchored* or are *anchored* with connections not capable of supporting all nominal loads and resisting all load effects;
6. Foundation systems that are not firmly supported by footings are not plumb and free from open cracks and breaks, are not properly *anchored* or are not capable of supporting all nominal loads and resisting all load effects.

Exceptions:

1. When substantiated otherwise by an *approved* method.
2. Demolition of unsafe conditions shall be permitted when *approved* by the *code official.*

305.2 Structural members. All structural members shall be maintained structurally sound, and be capable of supporting the imposed loads.

305.3 Interior surfaces. All interior surfaces, including windows and doors, shall be maintained in good, clean and sanitary condition. Peeling, chipping, flaking or abraded paint shall be repaired, removed or covered. Cracked or loose plaster, decayed wood and other defective surface conditions shall be corrected.

305.4 Stairs and walking surfaces. Every stair, ramp, landing, balcony, porch, deck or other walking surface shall be maintained in sound condition and good repair.

305.5 Handrails and guards. Every handrail and *guard* shall be firmly fastened and capable of supporting normally imposed loads and shall be maintained in good condition.

305.6 Interior doors. Every interior door shall fit reasonably well within its frame and shall be capable of being opened and closed by being properly and securely attached to jambs, headers or tracks as intended by the manufacturer of the attachment hardware.

SECTION 306
COMPONENT SERVICEABILITY

306.1 General. The components of a structure and equipment therein shall be maintained in good repair, structurally sound and in a sanitary condition.

306.1.1 Unsafe conditions. Where any of the following conditions eause the component or system to be beyond its limit state, the component or system shall be determined as unsafe and shall be repaired or replaced to comply with the *International Building Code* as required for existing buildings:

1. Soils that have been subjected to any of the following conditions:
   - 1.1. Collapse of footing or foundation system;
   - 1.2. Damage to footing, foundation, concrete or other structural element due to soil expansion;
   - 1.3. Adverse effeets to the design strength of footing, foundation, concrete or other structural element due to a chemical reaction from the soil;
   - 1.4. Inadequate soil as determined by a geotechnical investigation;
   - 1.5. Where the allowable bearing capacity of the soil is in doubt; or
   - 1.6. Adverse effects to the footing, foundation, concrete or other structural element due to the ground water table.
2. Concrete that has been subjected to any of the following conditions:
   - 2.1. *Deterioration*;
   - 2.2. *Ultimate deformation*;
   - 2.3. Fractures;
   - 2.4. Fissures;
   - 2.5. Spalling;
   - 2.6. Exposed reinforcement; or
   - 2.7. *Detached*, dislodged or failing connections.
3. Aluminum that has been subjected to any of the following conditions:
   - 3.1. *Deterioration*;
   - 3.2. Corrosion;
   - 3.3. Elastic deformation;
   - 3.4. *Ultimate deformation*;
   - 3.5. Stress or strain cracks;
   - 3.6. Joint fatigue; or
   - 3.7. *Detached*, dislodged or failing connections.

4. Masonry that has been subjected to any of the following conditions:
   4.1. *Deterioration*;
   4.2. *Ultimate deformation*;
   4.3. Fractures in masonry or mortar joints;
   4.4. Fissures in masonry or mortar joints;
   4.5. Spalling;
   4.6. Exposed reinforcement; or
   4.7. *Detached*, dislodged or failing connections.
5. Steel that has been subjected to any of the following conditions:
   5.1. *Deterioration*;
   5.2. Elastic deformation;
   5.3. *Ultimate deformation*;
   5.4. Metal fatigue; or
   5.5. *Detached*, dislodged or failing connections.
6. Wood that has been subjected to any of the following conditions:
   6.1. *Ultimate deformation*;
   6.2. *Deterioration*;
   6.3. Damage from insects, rodents and other vermin;
   6.4. Fire damage beyond charring;
   6.5. Significant splits and checks;
   6.6, Horizontal shear cracks;
   6.7. Vertical shear cracks;
   6.8. Inadequate support;
   6.9. *Detached*, dislodged or failing connections; or
   6.10. Excessive cutting and notching.

Exceptions:

1. When substantiated otherwise by an *approved* method.
2. Demolition of unsafe conditions shall be permitted when *approved* by the *code official*.

SECTION 307
HANDRAILS AND GUARDRAILS

307.1 General. Every exterior and interior flight of stairs having more than four risers shall have a handrail on one side of the stair and every open portion of a stair, landing, balcony, porch, deck, ramp or other walking surface which is more than 30 inches (762 mm) above the floor or grade below shall have *guards*. Handrails shall not be less than 30 inches (762 mm) high or more than 42 inches (1067 mm) high measured vertically above the nosing of the tread or above the finished floor of the landing or walking surfaces. *Guards* shall not be less than 30 inches (762 mm) high above the floor of the landing, balcony, porch, deck, or ramp or other walking surface.

Exception: *Guards* shall not be required where exempted by the adopted building code.

SECTION 308
RUBBISH AND GARBAGE

308.1 Accumulation of rubbish or garbage. All *exterior property* and *premises*, and the interior of every structure, shall be free from any accumulation of *rubbish* or garbage.

308.2 Disposal of rubbish. Every *occupant* of a structure shall dispose of all *rubbish* in a clean and sanitary manner by placing such *rubbish* in *approved* containers.

308.2.1 Rubbish storage facilities. The *owner* of every occupied *premises* shall supply *approved* covered containers for *rubbish*, and the *owner* of the *premises* shall be responsible for the removal of *rubbish*.

308.2.2 Refrigerators. Refrigerators and similar equipment not in operation shall not be discarded, abandoned or stored on *premises* without first removing the doors.

308.3 Disposal of garbage. Every *occupant* of a structure shall dispose of garbage in a clean and sanitary manner by placing such garbage in an *approved* garbage disposal facility or *approved* garbage containers.

308.3.1 Garbage facilities. The *owner* of every dwelling shall supply one of the following: an *approved* mechanical food waste grinder in each *dwelling unit*; an *approved* incinerator unit in the structure available to the *occupants* in each *dwelling unit*; or an *approved* leakproof, covered, outside garbage container.

308.3.2 Containers. The *operator* of every establishment producing garbage shall provide, and at all times cause to be utilized, *approved* leakproof containers provided with close-fitting covers for the storage of such materials until removed from the *premises* for disposal.

SECTION 309
PEST ELIMINATION

309.1 Infestation. All structures shall be kept free from insect and rodent *infestation*. All structures in which insects or rodents are found shall be promptly exterminated by *approved* processes that will not be injurious to human health. After extermination, proper precautions shall be taken to prevent reinfestation.

309.2 Owner. The *owner* of any structure shall be responsible for extermination within the structure prior to renting or leasing the structure.

309.3 Single occupant. The *occupant* of a one-family dwelling or of a single-*tenant* nonresidential structure shall be responsible for extermination on the *premises*.

309.4 Multiple occupancy. The *owner* of a structure containing two or more *dwelling units*, a multiple *occupancy*, a *rooming house* or a nonresidential structure shall be responsible for

extermination in the public or shared areas of the structure and *exterior property*. If *infestation* is caused by failure of an *occupant* to prevent such *infestation* in the area occupied, the *occupant* and *owner* shall be responsible for extermination.

309.5 Occupant. The *occupant* of any structure shall be responsible for the continued rodent and pest-free condition of the structure.

Exception: Where the *infestations* are caused by defects in the structure, the *owner* shall be responsible for extermination.

CHAPTER 4
LIGHT, VENTILATION AND OCCUPANCY LIMITATIONS

SECTION 401
GENERAL

401.1 Scope. The provisions of this chapter shall govern the minimum conditions and standards for light, *ventilation* and space for occupying a structure.

401.2 Responsibility. The *owner* of the structure shall provide and maintain light, *ventilation* and space conditions in compliance with these requirements. A person shall not occupy as *owner-occupant*, or permit another person to occupy, any *premises* that do not comply with the requirements of this chapter.

401.3 Alternative devices. In lieu of the means for natural light and *ventilation* herein prescribed, artificial light or mechanical *ventilation* complying with the *International Building Code* shall be permitted.

SECTION 402
LIGHT

402.1 Habitable spaces. Every *habitable space* shall have at least one window of *approved* size facing directly to the outdoors or to a court. The minimum total glazed area for every *habitable space* shall be 8 percent of the floor area of such room. Wherever walls or other portions of a structure face a window of any room and such obstructions are located less than 3 feet (914 mm) from the window and extend to a level above that of the ceiling of the room, such window shall not be deemed to face directly to the outdoors nor to a court and shall not be included as contributing to the required minimum total window area for the room.

Exception: Where natural light for rooms or spaces without exterior glazing areas is provided through an adjoining room, the unobstructed opening to the adjoining room shall be at least 8 percent of the floor area of the interior room or space, but not less than 25 square feet (2.33 m^2). The exterior glazing area shall be based on the total floor area being served.

402.2 Common halls and stairways. Every common hall and stairway in residential occupancies, other than in one- and two-family dwellings, shall be lighted at all times with at least a 60-watt standard incandescent light bulb for each 200 square feet (19 m^2) of floor area or equivalent illumination, provided that the spacing between lights shall not be greater than 30 feet (9144 mm). In other than residential occupancies, means of egress, including exterior means of egress, stairways shall be illuminated at all times the building space served by the means of egress is occupied with a minimum of 1 footcandle (11 lux) at floors, landings and treads.

402.3 Other spaces. All other spaces shall be provided with natural or artificial light sufficient to permit the maintenance of sanitary conditions, and the safe *occupancy* of the space and utilization of the appliances, equipment and fixtures.

SECTION 403
VENTILATION

403.1 Habitable spaces. Every *habitable space* shall have at least one openable window. The total openable area of the window in every room shall be equal to at least 45 percent of the minimum glazed area required in Section 402.1.

Exception: Where rooms and spaces without openings to the outdoors are ventilated through an adjoining room, the unobstructed opening to the adjoining room shall be at least 8 percent of the floor area of the interior room or space, but not less than 25 square feet (2.33 m^2). The *ventilation* openings to the outdoors shall be based on a total floor area being ventilated.

403.2 Bathrooms and toilet rooms. Every *bathroom* and *toilet room* shall comply with the *ventilation* requirements for *habitable spaces* as required by Section 403.1, except that a window shall not be required in such spaces equipped with a mechanical *ventilation* system. Air exhausted by a mechanical *ventilation* system from a *bathroom* or *toilet room* shall discharge to the outdoors and shall not be recirculated.

403.3 Cooking facilities. Unless *approved* through the certificate of *occupancy*, cooking shall not be permitted in any *rooming unit* or dormitory nnit, and a cooking facility or appliance shall not be permitted to be present in the *rooming unit* or dormitory unit.

Exceptions:

1. Where specifically *approved* in writing by the *code official.*
2. Devices such as coffee pots and microwave ovens shall not be considered cooking appliances.

403.4 Process ventilation. Where injurious, toxic, irritating or noxious fumes, gases, dusts or mists are generated, a local exhaust *ventilation* system shall be provided to remove the contaminating agent at the source. Air shall be exhausted to the exterior and not be recirculated to any space.

403.5 Clothes dryer exhaust. Clothes dryer exhaust systems shall be independent of all other systems and shall be exhausted outside the structure in accordance with the manufacturer's instructions.

Exception: Listed and *labeled* condensing (ductless) clothes dryers.

SECTION 404
OCCUPANCY LIMITATIONS

404.1 Privacy. *Dwelling units*, hotel units, *housekeeping units*, *rooming units* and dormitory units shall be arranged to provide privacy and be separate from other adjoining spaces.

404.2 Minimum room widths. A habitable room, other than a kitchen, shall not be less than 7 feet (2134 mm) in any plan dimension. Kitchens shall have a clear passageway of not less than 3 feet (914 mm) between counterfronts and appliances or counterfronts and walls.

404.3 Minimum ceiling heights. *Habitable spaces*, hallways, corridors, laundry areas, *bathrooms*, *toilet rooms* and habitable *basement* areas shall have a clear ceiling height of not less than 7 feet (2134 mm).

Exceptions:

1. In one- and two-family dwellings, beams or girders spaced not less than 4 feet (1219 mm) on center and projecting not more than 6 inches (152 mm) below the required ceiling height.
2. *Basement* rooms in one- and two-family dwellings occupied exclusively for laundry, study or recreation purposes, having a ceiling height of not less than 6 feet 8 inches (2033 mm) with not less than 6 feet 4 inches (1932 mm) of clear height under beams, girders, ducts and similar obstructions.
3. Rooms occupied exclusively for sleeping, study or similar purposes and having a sloped ceiling over all or part of the room, with a clear ceiling height of at least 7 feet (2134 mm) over not less than one-third of the required minimum floor area. In calculating the floor area of such rooms, only those portions of the floor area with a clear ceiling height of 5 feet (1524 mm) or more shall be included.

404.4 Bedroom and living room requirements. Every *bedroom* and living room shall comply with the requirements of Sections 404.4.1 through 404.4.5.

404.4.1 Room area. Every living room shall contain at least 120 square feet (11.2 m²) and every *bedroom* shall contain at least 70 square feet (6.5 m²).

404.4.2 Access from bedrooms. *Bedrooms* shall not constitute the only means of access to other *bedrooms* or *habitable spaces* and shall not serve as the only means of egress from other *habitable spaces*.

Exception: Units that contain fewer than two *bedrooms*.

404.4.3 Water closet accessibility. Every *bedroom* shall have access to at least one water closet and one lavatory without passing through another *bedroom*. Every *bedroom* in a *dwelling unit* shall have access to at least one water closet and lavatory located in the same story as the *bedroom* or an adjacent story.

404.4.4 Prohibited occupancy. Kitchens and nonhabitable spaces shall not be used for sleeping purposes.

404.4.5 Other requirements. *Bedrooms* shall comply with the applicable provisions of this code including, but not limited to, the light, *ventilation*, room area, ceiling height and room width requirements of this chapter; the plumbing facilities and water-heating facilities requirements of Chapter 5; the heating facilities and electrical receptacle requirements of Chapter 6; and the smoke detector and emergency escape requirements of Chapter 7.

404.5 Overcrowding. The number of persons occupying a *dwelling unit* shall not create conditions that, in the opinion of the *code official*, endanger the life, health, safety or welfare of the *occupants*.

404.6 Efficiency unit. Nothing in this section shall prohibit an efficiency living unit from meeting the following requirements:

1. A unit occupied by not more than two *occupants* shall have a clear floor area of not less than 220 square feet (20.4 m²). A unit occupied by three *occupants* shall have a clear floor area of not less than 320 square feet (29.7 m²). These required areas shall be exclusive of the areas required by Items 2 and 3.
2. The unit shall be provided with a kitchen sink, cooking appliance and refrigeration facilities, each having a clear working space of not less than 30 inches (762 mm) in front. Light and *ventilation* conforming to this code shall be provided.
3. The unit shall be provided with a separate *bathroom* containing a water closet, lavatory and bathtub or shower.
4. The maximum number of *occupants* shall be three.

404.7 Food preparation. All spaces to be occupied for food preparation purposes shall contain suitable space and equipment to store, prepare and serve foods in a sanitary manner. There shall be adequate facilities and services for the sanitary disposal of food wastes and refuse, including facilities for temporary storage.

CHAPTER 5

PLUMBING FACILITIES AND FIXTURE REQUIREMENTS

SECTION 501
GENERAL

501.1 Scope. The provisions of this chapter shall govern the minimum plumbing systems, facilities and plumbing fixtures to be provided.

501.2 Responsibility. The *owner* of the structure shall provide and maintain such plumbing facilities and plumbing fixtures in compliance with these requirements. A person shall not occupy as *owner-occupant* or permit another person to occupy any structure or *premises* which does not comply with the requirements of this chapter.

[P] SECTION 502
REQUIRED FACILITIES

502.1 Dwelling units. Every *dwelling unit* shall contain its own bathtub or shower, lavatory, water closet and kitchen sink which shall be maintained in a sanitary, safe working condition. The lavatory shall be placed in the same room as the water closet or located in close proximity to the door leading directly into the room in which such water closet is located. A kitchen sink shall not be used as a substitute for the required lavatory.

502.2 Rooming houses. At least one water closet, lavatory and bathtub or shower shall be supplied for each four *rooming units*.

502.3 Hotels. Where private water closets, lavatories and baths are not provided, one water closet, one lavatory and one bathtub or shower having access from a public hallway shall be provided for each ten *occupants*.

502.4 Employees' facilities. A minimum of one water closet, one lavatory and one drinking facility shall be available to employees.

502.4.1 Drinking facilities. Drinking facilities shall be a drinking fountain, water cooler, bottled water cooler or disposable cups next to a sink or water dispenser. Drinking facilities shall not be located in *toilet rooms* or *bathrooms*.

502.5 Public toilet facilities. Public toilet facilities shall be maintained in a safe sanitary and working condition in accordance with the *International Plumbing Code*. Except for periodic maintenance or cleaning, public access and use shall be provided to the toilet facilities at all times during *occupancy* of the *premises*.

[P] SECTION 503
TOILET ROOMS

503.1 Privacy. *Toilet rooms* and *bathrooms* shall provide privacy and shall not constitute the only passageway to a hall or other space, or to the exterior. A door and interior locking device shall be provided for all common or shared *bathrooms* and *toilet rooms* in a multiple dwelling.

503.2 Location. *Toilet rooms* and *bathrooms* serving hotel units, *rooming units* or dormitory units or *housekeeping units*, shall have access by traversing not more than one flight of stairs and shall have access from a common hall or passageway.

503.3 Location of employee toilet facilities. Toilet facilities shall have access from within the employees' working area. The required toilet facilities shall be located not more than one story above or below the employees' working area and the path of travel to such facilities shall not exceed a distance of 500 feet (152 m). Employee facilities shall either be separate facilities or combined employee and public facilities.

Exception: Facilities that are required for employees in storage structures or kiosks, which are located in adjacent structures under the same ownership, lease or control, shall not exceed a travel distance of 500 feet (152 m) from the employees' regular working area to the facilities.

503.4 Floor surface. In other than *dwelling units*, every *toilet room* floor shall be maintained to be a smooth, hard, nonabsorbent surface to permit such floor to be easily kept in a clean and sanitary condition.

[P] SECTION 504
PLUMBING SYSTEMS AND FIXTURES

504.1 General. All plumbing fixtures shall be properly installed and maintained in working order, and shall be kept free from obstructions, leaks and defects and be capable of performing the function for which such plumbing fixtures are designed. All plumbing fixtures shall be maintained in a safe, sanitary and functional condition.

504.2 Fixture clearances. Plumbing fixtures shall have adequate clearances for usage and cleaning.

504.3 Plumbing system hazards. Where it is found that a plumbing system in a structure constitutes a hazard to the *occupants* or the structure by reason of inadequate service, inadequate venting, cross connection, backsiphonage, improper installation, *deterioration* or damage or for similar reasons, the *code official* shall require the defects to be corrected to eliminate the hazard.

SECTION 505
WATER SYSTEM

505.1 General. Every sink, lavatory, bathtub or shower, drinking fountain, water closet or other plumbing fixture shall be properly connected to either a public water system or to an *approved* private water system. All kitchen sinks, lavatories, laundry facilities, bathtubs and showers shall be supplied with hot or tempered and cold running water in accordance with the *International Plumbing Code*.

[P] 505.2 Contamination. The water supply shall be maintained free from contamination, and all water inlets for plumb-

ing fixtures shall be located above the flood-level rim of the fixture. Shampoo basin faucets, janitor sink faucets and other hose bibs or faucets to which hoses are attached and left in place, shall be protected by an approved atmospheric-type vacuum breaker or an approved permanently attached hose connection vacuum breaker.

505.3 Supply. The water supply system shall be installed and maintained to provide a supply of water to plumbing fixtures, devices and appurtenances in sufficient volume and at pressures adequate to enable the fixtures to function properly, safely, and free from defects and leaks.

505.4 Water heating facilities. Water heating facilities shall be properly installed, maintained and capable of providing an adequate amount of water to be drawn at every required sink, lavatory, bathtub, shower and laundry facility at a temperature of not less than 110°F (43°C). A gas-burning water heater shall not be located in any *bathroom, toilet room, bedroom* or other occupied room normally kept closed, unless adequate combustion air is provided. An *approved* combination temperature and pressure-relief valve and relief valve discharge pipe shall be properly installed and maintained on water heaters.

[P] SECTION 506
SANITARY DRAINAGE SYSTEM

506.1 General. All plumbing fixtures shall be properly connected to either a public sewer system or to an *approved* private sewage disposal system.

506.2 Maintenance. Every plumbing stack, vent, waste and sewer line shall function properly and be kept free from obstructions, leaks and defects.

506.3 Grease interceptors. Where it has been determined that a grease interceptor is not being maintained and serviced as intended by this code and the manufacturer's instructions, an *approved* interceptor monitoring system shall be provided or a maintenance program shall be established with documentation submitted to the *code official*.

[P] SECTION 507
STORM DRAINAGE

507.1 General. Drainage of roofs and paved areas, *yards* and courts, and other open areas on the *premises* shall not be discharged in a manner that creates a public nuisance.

CHAPTER 6
MECHANICAL AND ELECTRICAL REQUIREMENTS

SECTION 601
GENERAL

601.1 Scope. The provisions of this chapter shall govern the minimum mechanical and electrical facilities and equipment to be provided.

601.2 Responsibility. The *owner* of the structure shall provide and maintain mechanical and electrical facilities and equipment in compliance with these requirements. A person shall not occupy as *owner-occupant* or permit another person to occupy any *premises* which does not comply with the requirements of this chapter.

SECTION 602
HEATING FACILITIES

602.1 Facilities required. Heating facilities shall be provided in structures as required by this section.

602.2 Residential occupancies. Dwellings shall be provided with heating facilities capable of maintaining a room temperature of 68°F (20°C) in all habitable rooms, *bathrooms* and *toilet rooms* based on the winter outdoor design temperature for the locality indicated in Appendix D of the *International Plumbing Code*. Cooking appliances shall not be used to provide space heating to meet the requirements of this section.

Exception: In areas where the average monthly temperature is above 30°F (-1°C), a minimum temperature of 65°F (18°C) shall be maintained.

602.3 Heat supply. Every *owner* and *operator* of any building who rents, leases or lets one or more *dwelling units* or *sleeping units* on terms, either expressed or implied, to furnish heat to the *occupants* thereof shall supply heat during the period from [DATE] to [DATE] to maintain a temperature of not less than 68°F (20°C) in all habitable rooms, *bathrooms* and *toilet rooms*.

Exceptions:

1. When the outdoor temperature is below the winter outdoor design temperature for the locality, maintenance of the minimum room temperature shall not be required provided that the heating system is operating at its full design capacity. The winter outdoor design temperature for the locality shall be as indicated in Appendix D of the *International Plumbing Code*.
2. In areas where the average monthly temperature is above 30°F (-1°C) a minimum temperature of 65°F (18°C) shall be maintained.

602.4 Occupiable work spaces. Indoor occupiable work spaces shall be supplied with heat during the period from [DATE] to [DATE] to maintain a temperature of not less than 65°F (18°C) during the period the spaces are occupied.

Exceptions:

1. Processing, storage and operation areas that require cooling or special temperature conditions.
2. Areas in which persons are primarily engaged in vigorous physical activities.

602.5 Room temperature measurement. The required room temperatures shall be measured 3 feet (914 mm) above the floor near the center of the room and 2 feet (610 mm) inward from the center of each exterior wall.

SECTION 603
MECHANICAL EQUIPMENT

603.1 Mechanical appliances. All mechanical appliances, fireplaces, solid fuel-burning appliances, cooking appliances and water heating appliances shall be properly installed and maintained in a safe working condition, and shall be capable of performing the intended function.

603.2 Removal of combustion products. All fuel-burning equipment and appliances shall be connected to an *approved* chimney or vent.

Exception: Fuel-burning equipment and appliances which are *labeled* for unvented operation.

603.3 Clearances. All required clearances to combustible materials shall be maintained.

603.4 Safety controls. All safety controls for fuel-burning equipment shall be maintained in effective operation.

603.5 Combustion air. A supply of air for complete combustion of the fuel and for *ventilation* of the space containing the fuel-burning equipment shall be provided for the fuel-burning equipment.

603.6 Energy conservation devices. Devices intended to reduce fuel consumption by attachment to a fuel-burning appliance, to the fuel supply line thereto, or to the vent outlet or vent piping therefrom, shall not be installed unless *labeled* for such purpose and the installation is specifically *approved*.

SECTION 604
ELECTRICAL FACILITIES

604.1 Facilities required. Every occupied building shall be provided with an electrical system in compliance with the requirements of this section and Section 605.

604.2 Service. The size and usage of appliances and equipment shall serve as a basis for determining the need for additional

facilities in accordance with NFPA 70. *Dwelling units* shall be served by a three-wire, 120/240 volt, single-phase electrical service having a rating of not less than 60 amperes.

604.3 Electrical system hazards. Where it is found that the electrical system in a structure constitutes a hazard to the *occupants* or the structure by reason of inadequate service, improper fusing, insufficient receptacle and lighting outlets, improper wiring or installation, *deterioration* or damage, or for similar reasons, the *code official* shall require the defects to be corrected to eliminate the hazard.

604.3.1 Abatement of electrical hazards associated with water exposure. The provisions of this section shall govern the repair and replacement of electrical systems and equipment that have been exposed to water.

604.3.1.1 Electrical equipment. Electrical distribution equipment, motor circuits, power equipment, transformers, wire, cable, flexible cords, wiring devices, ground fault circuit interrupters, surge protectors, molded case circuit breakers, low-voltage fuses, luminaires, ballasts, motors and electronic control, signaling and communication equipment that have been exposed to water shall be replaced in accordance with the provisions of the *International Building Code*.

Exception: The following equipment shall be allowed to be repaired where an inspection report from the equipment manufacturer or *approved* manufacturer's representative indicates that the equipment has not sustained damage that requires replacement:

1. Enclosed switches, rated 600 volts or less;
2. Busway, rated 600 volts or less;
3. Panelboards, rated 600 volts or less;
4. Switchboards, rated 600 volts or less;
5. Fire pump controllers, rated 600 volts or less;
6. Manual and magnetic motor controllers;
7. Motor control centers;
8. Alternating current high-voltage circuit breakers;
9. Low-voltage power circuit breakers;
10. Protective relays, meters and current transformers;
11. Low- and medium-voltage switchgear;
12. Liquid-filled transformers;
13. Cast-resin transformers;
14. Wire or cable that is suitable for wet locations and whose ends have not been exposed to water;
15. Wire or cable, not containing fillers, that is suitable for wet locations and whose ends have not been exposed to water;
16. Luminaires that are listed as submersible;
17. Motors;
18. Electronic control, signaling and communication equipment.

604.3.2 Abatement of electrical hazards associated with fire exposure. The provisions of this section shall govern the repair and replacement of electrical systems and equipment that have been exposed to fire.

604.3.2.1 Electrical equipment. Electrical switches, receptacles and fixtures, including furnace, water heating, security system and power distribution circuits, that have been exposed to fire, shall be replaced in accordance with the provisions of the *International Building Code*.

Exception: Electrical switches, receptacles and fixtures that shall be allowed to be repaired where an inspection report from the equipment manufacturer or *approved* manufacturer's representative indicates that the equipment has not sustained damage that requires replacement.

SECTION 605
ELECTRICAL EQUIPMENT

605.1 Installation. All electrical equipment, wiring and appliances shall be properly installed and maintained in a safe and *approved* manner.

605.2 Receptacles. Every *habitable space* in a dwelling shall contain at least two separate and remote receptacle outlets. Every laundry area shall contain at least one grounded-type receptacle or a receptacle with a ground fault circuit interrupter. Every *bathroom* shall contain at least one receptacle. Any new *bathroom* receptacle outlet shall have ground fault circuit interrupter protection.

605.3 Luminaires. Every public hall, interior stairway, *toilet room*, kitchen, *bathroom*, laundry room, boiler room and furnace room shall contain at least one electric luminaire.

SECTION 606
ELEVATORS, ESCALATORS AND DUMBWAITERS

606.1 General. Elevators, dumbwaiters and escalators shall be maintained in compliance with ASME A17.1. The most current certificate of inspection shall be on display at all times within the elevator or attached to the escalator or dumbwaiter, be available for public inspection in the office of the building *operator* or be posted in a publicly conspicuous location *approved* by the *code official*. The inspection and tests shall be performed at not less than the periodic intervals listed in ASME A17.1, Appendix N, except where otherwise specified by the authority having jurisdiction.

606.2 Elevators. In buildings equipped with passenger elevators, at least one elevator shall be maintained in operation at all times when the building is occupied.

Exception: Buildings equipped with only one elevator shall be permitted to have the elevator temporarily out of service for testing or servicing.

SECTION 607
DUCT SYSTEMS

607.1 General. Duct systems shall be maintained free of obstructions and shall be capable of performing the required function.

CHAPTER 7
FIRE SAFETY REQUIREMENTS

SECTION 701
GENERAL

701.1 Scope. The provisions of this chapter shall govern the minimum conditions and standards for fire safety relating to structures and exterior *premises*, including fire safety facilities and equipment to be provided.

701.2 Responsibility. The *owner* of the *premises* shall provide and maintain such fire safety facilities and equipment in compliance with these requirements. A person shall not occupy as *owner-occupant* or permit another person to occupy any *premises* that do not comply with the requirements of this chapter.

[F] SECTION 702
MEANS OF EGRESS

702.1 General. A safe, continuous and unobstructed path of travel shall be provided from any point in a building or structure to the *public way*. Means of egress shall comply with the *International Fire Code*.

702.2 Aisles. The required width of aisles in accordance with the *International Fire Code* shall be unobstructed.

702.3 Locked doors. All means of egress doors shall be readily openable from the side from which egress is to be made without the need for keys, special knowledge or effort, except where the door hardware conforms to that permitted by the *International Building Code*.

702.4 Emergency escape openings. Required emergency escape openings shall be maintained in accordance with the code in effect at the time of construction, and the following. Required emergency escape and rescue openings shall be operational from the inside of the room without the use of keys or tools. Bars, grilles, grates or similar devices are permitted to be placed over emergency escape and rescue openings provided the minimum net clear opening size complies with the code that was in effect at the time of construction and such devices shall be releasable or removable from the inside without the use of a key, tool or force greater than that which is required for normal operation of the escape and rescue opening.

[F] SECTION 703
FIRE-RESISTANCE RATINGS

703.1 Fire-resistance-rated assemblies. The required fire-resistance rating of fire-resistance-rated walls, fire stops, shaft enclosures, partitions and floors shall be maintained.

703.2 Opening protectives. Required opening protectives shall be maintained in an operative condition. All fire and smokestop doors shall be maintained in operable condition. Fire doors and smoke barrier doors shall not be blocked or obstructed or otherwise made inoperable.

[F] SECTION 704
FIRE PROTECTION SYSTEMS

704.1 General. All systems, devices and equipment to detect a fire, actuate an alarm, or suppress or control a fire or any combination thereof shall be maintained in an operable condition at all times in accordance with the *International Fire Code*.

704.1.1 Automatic sprinkler systems. Inspection, testing and maintenance of automatic sprinkler systems shall be in accordance with NFPA 25.

704.2 Smoke alarms. Single- or multiple-station smoke alarms shall be installed and maintained in Groups R-2, R-3, R-4 and in dwellings not regulated in Group R occupancies, regardless of *occupant* load at all of the following locations:

1. On the ceiling or wall outside of each separate sleeping area in the immediate vicinity of *bedrooms*.
2. In each room used for sleeping purposes.
3. In each story within a *dwelling unit*, including *basements* and cellars but not including crawl spaces and uninhabitable attics. In dwellings or *dwelling units* with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.

Single- or multiple-station smoke alarms shall be installed in other groups in accordance with the *International Fire Code*.

704.3 Power source. In Group R occupancies and in dwellings not regulated as Group R occupancies, single-station smoke alarms shall receive their primary power from the building wiring provided that such wiring is served from a commercial source and shall be equipped with a battery backup. Smoke alarms shall emit a signal when the batteries are low. Wiring shall be permanent and without a disconnecting switch other than as required for overcurrent protection.

Exception: Smoke alarms are permitted to be solely battery operated in buildings where no construction is taking place, buildings that are not served from a commercial power source and in existing areas of buildings undergoing alterations or repairs that do not result in the removal of interior wall or ceiling finishes exposing the structure, unless there is an attic, crawl space or *basement* available which could provide access for building wiring without the removal of interior finishes.

704.4 Interconnection. Where more than one smoke alarm is required to be installed within an individual *dwelling unit* in Group R-2, R-3, R-4 and in dwellings not regulated as Group R occupancies, the smoke alarms shall be interconnected in such a manner that the activation of one alarm will activate all of the alarms in the individual unit. The alarm shall be clearly audible

in all *bedrooms* over background noise levels with all intervening doors closed.

Exceptions:

1. Interconnection is not required in buildings which are not undergoing alterations, repairs or construction of any kind.
2. Smoke alarms in existing areas are not required to be interconnected where alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing the structure, unless there is an attic, crawl space or *basement* available which could provide access for interconnection without the removal of interior finishes.

CHAPTER 8

REFERENCED STANDARDS

This chapter lists the standards that are referenced in various sections of this document. The standards are listed herein by the promulgating agency of the standard, the standard identification, the effective date and title and the section or sections of this document that reference the standard. The application of the referenced standards shall be as specified in Section 102.7.

ASME

American Society of Mechanical Engineers
Three Park Avenue
New York, NY 10016-5990

Standard reference number	Title	Referenced in code section number
A17.1/CSA B44—2007	Safety Code for Elevators and Escalators	606.1

ASTM

ASTM International
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959

Standard reference number	Title	Referenced in code section number
F1346—91 (2003)	Performance Specifications for Safety Covers and Labeling Requirements for All Covers for Swimming Pools, Spas and Hot Tubs	303.2

ICC

International Code Council
500 New Jersey Avenue, NW
6th Floor
Washington, DC 20001

Standard reference number	Title	Referenced in code section number
IBC—09	International Building Code®	102.3, 201.3, 401.3, 702.3
IFC—09	International Fire Code®	201.3, 604.3.1.1, 604.3.2.1, 702.1, 702.2, 704.1, 704.2
IEBC—09	International Existing Building Code®	305.1.1, 306.1.1
IFGC—09	International Fuel Gas Code®	102.3
IMC—09	International Mechanical Code®	102.3, 201.3
IPC—09	International Plumbing Code®	201.3, 505.1, 602.2, 602.3
IZC—09	International Zoning Code®	102.3, 201.3

NFPA

National Fire Protection Association
1 Batterymarch Park
Quincy, MA 02269

Standard reference number	Title	Referenced in code section number
25—08	Inspection, Testing and Maintenance of Water-based Fire Protection Systems	704.1.1
70—08	National Electrical Code	102.4, 201.3, 604.2

APPENDIX A
BOARDING STANDARD

The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

A101
GENERAL

A101.1 General. All windows and doors shall be hoarded in an *approved* manner to prevent entry by unauthorized persons and shall be painted to correspond to the color of the existing structure.

A102
MATERIALS

A102.1 Boarding sheet material. Boarding sheet material shall be minimum $^1/_2$-inch (12.7 mm) thick wood structural panels complying with the *International Building Code*.

A102.2 Boarding framing material. Boarding framing material shall be minimum nominal 2-inch by 4-inch (51 mm by 102 mm) solid sawn lumber complying with the *International Building Code*.

A102.3 Boarding fasteners. Boarding fasteners shall be minimum $^3/_8$-inch (9.5 mm) diameter carriage bolts of such a length as required to penetrate the assembly and as required to adequately attach the washers and nuts. Washers and nuts shall comply with the *International Building Code*.

A103
INSTALLATION

A103.1 Boarding installation. The boarding installation shall be in accordance with Figures A103.1(1) and A103.1(2) and Sections A103.2 through A103.5.

A103.2 Boarding sheet material. The boarding sheet material shall be cut to fit the door or window opening neatly or shall be cut to provide an equal overlap at the perimeter of the door or window.

A103.3 Windows. The window shall be opened to allow the carriage bolt to pass through or the window sash shall be removed and stored. The 2-inch by 4-inch (51 mm by 102 mm) strong back framing material shall be cut minimum 2 inches (51 mm) wider than the window opening and shall be placed on the inside of the window opening 6 inches minimum above the bottom and below the top of the window opening. The framing and boarding shall be predrilled. The assembly shall be aligned and the bolts, washers and nuts shall be installed and secured.

A103.4 Door walls. The door opening shall be framed with minimum 2-inch by 4-inch (51 mm by 102 mm) framing material secured at the entire perimeter and vertical members at not more than 24 inches (610 mm) on center. Blocking shall also be secured at not more than 48 inches (1219 mm) on center vertically. Boarding sheet material shall be secured with screws and nails alternating every 6 inches (152 mm) on center.

A103.5 Doors. Doors shall be secured by the same method as for windows or door openings. One door to the structure shall be available for authorized entry and shall be secured and locked in an *approved* manner.

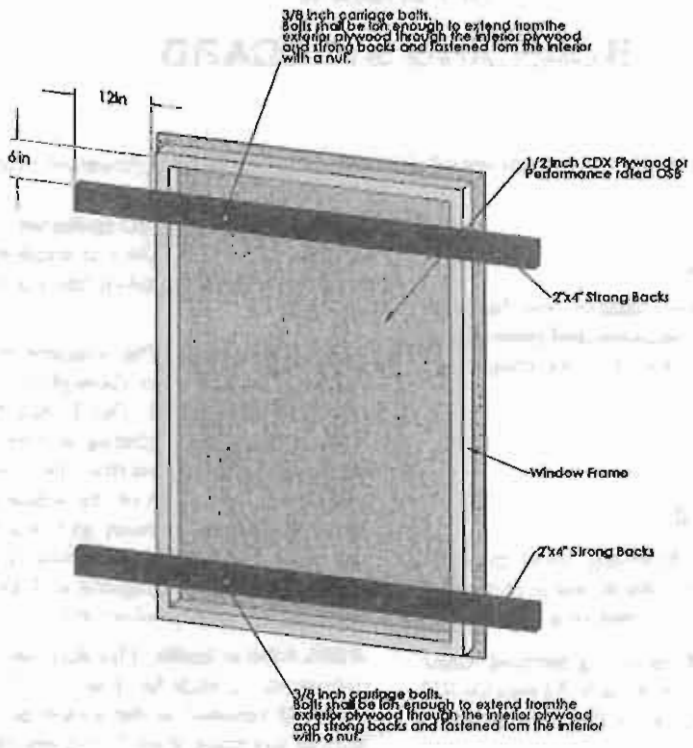


FIGURE A103.1(1)
BOARDING OF DOOR OR WINDOW

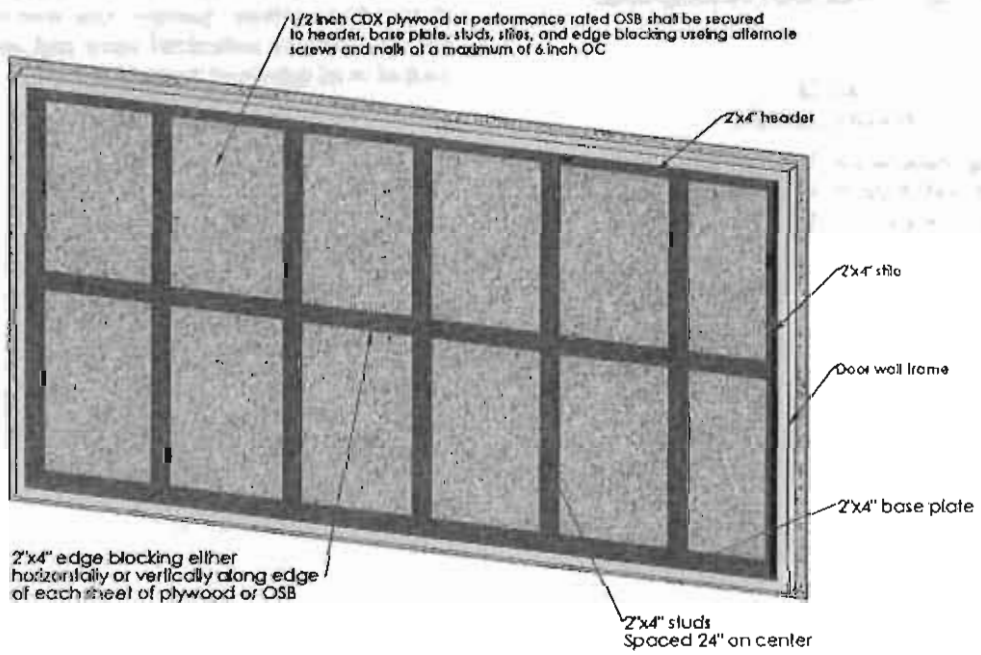


FIGURE A103.1(2)
BOARDING OF DOOR WALL

INDEX

A

ACCESS
Emergency egress 702
From bedrooms 404.4.2
Plumbing fixtures, access for cleaning 504.2
To public way 702.1
Toilet room as passageway 503.1
Water closet 404.4.3

ADJACENT
Privacy (hotel units, rooming units) 404.1

ADMINISTRATION
Scope 101.2

AGENT (See also OPERATOR, OWNER)
Definition 202

AIR
Combustion air 603.5

AISLES
Minimum width 702.2

ALTERATION
Applicability of other codes 102.3
Condemnation 108.1, 108.2
Inspection 104.2
Prosecution 106.3
Unlawful acts 106.1

ANCHOR
Anchored, definition 202
Architectural trim 304.8
Signs, marquees and awnings 304.9

APPEAL
Application 111.1
Board decision 111.6
Board of appeals 111.2
Court review 111.7
Disqualification 111.2.3
Financial interest 111.2.3
Hearing, emergency orders 109.6
Membership 111.2
Notice of appeal 111.1
Postponed hearing 111.5
Records 104.6
Right to appeal 111.1
Vote 111.6

APPLIANCE
Cooking 403.3, 602.2
Mechanical 603.1

APPLICABILITY
General 102.1
Referenced codes and standards 102.7
Application of references 102.9
Other laws 102.10

APPROVAL
Alternatives 105.2
Authority 104.1, 105.2
Modifications 105.1
Research reports 105.6
Used material and equipment 105.4

APPROVED
Alternative materials, methods and equipment 105.2
Definition 202
Energy conservation devices 603.6
Fireplaces 603.1
Garbage storage facilities 308.3.1
Modifications 105.1
Used materials and equipment 105.4

ARCHITECTURAL
Structural members 304.4
Trim 304.8

ARTIFICIAL
Lighting of habitable rooms 401.3
Lighting of other spaces 402.3

AUTOMOBILE
Motor vehicles 302.8

AWNING
Signs, marquees and awnings 304.9

B

BALCONY
Handrails and guardrails 307.12

BASEMENT
Definition 202
Hatchways 304.16
Windows 304.17

BATHROOM
Common bathrooms 502.3, 503.1
Hotels 502.3
Lighting 605.3
Locks 503.1
Outlets required 605.2
Privacy 503.1
Ventilation 403.2

BATHTUB
Required facilities 502.1
Rooming houses 502.2
Sewage system 506.1
Water-heating facilities 505.4
Water system 505.1

BOARDING
Boarding standard . . . . . Appendix A

BOILER
Unsafe equipment 108.1.2

C

CAPACITY
Heating facilities 602.2, 602.3, 602.4

CAR (See AUTOMOBILE)

CEILING
Basement rooms 404.3
Fire-resistance ratings 703.1
Interior surfaces 305.3
Minimum height 404.3
CHANGE, MODIFY
Application of other codes 102.3
CHIMNEY
Exterior structure 303.11
Flue 603.2, 603.3
CLEANING
Access for cleaning 504.2
Bathroom and kitchen floors 305.3
Disposal of garbage 308.3
Disposal of rubbish 308.2
Interior sanitation 308.1
Interior surfaces 305.3
Plumbing facilities, maintained 504.1
Required plumbing facilities 502
Responsibility of persons 305.1
Trash containers 308.3.2
Vacant structures and land 301.3
CLEARANCE
Heating facilities 603.3
Plumbing fixtures 504.2
CLOSING
Streets 109.3
Vacant structures 108.2
CLOTHES DRYER
Exhaust 403.5
CODE OFFICIAL
Condemnation 108.1
Demolition 110
Duties 104
Emergency order 109
Enforcement authority 104.1
Failure to comply with demolition order 110.3
Identification 104.3
Inspections 104.2
Liability, relief of personal 103.4
Membership of board of appeals 111.2
Notice of violation 104.5, 107
Notices and orders 107
Official records 104.6
Personal liability 103.4
Placarding 108.4
Prosecution 106.3
Removal of placard 108.4.1
Right of entry 104.3
Transfer of ownership 107.5
Vacant structures 108.2
Voting of appeals board 111.2, 111.6
COMBUSTION
Combustion air 603.5
COMPONENT SERVICEABILITY
Unsafe conditions 306.1.1
CONDEMNATION
Closing of vacant structures 108.2
Failure to comply 110.3
General 108.1
Notices and orders 108.2, 108.3
Placarding 108.4
Removal of placard 108.4.1
CONFLICT
Conflict of interest 111.2.3
Violations 106.1
CONNECTION
Sewage system 506.1
Water heating 505.4
Water system 505.1
CONSTRUCTION
Existing structures 101.2
CONTAINER
Garbage 308.3.2
Rubbish storage 308.2.1
CONTINUOUS
Unobstructed egress 702.1
CONTRACTOR
Conflict of interest 111.2.3
CONTROL
Insect and rat control 302.5, 304.5
Safety controls 603.4
COOLING
Cooling towers 303.11
CORRIDOR
Accumulation of rubbish 308.1
Light 402.2
Lighting fixtures 605.3
Ratings maintained 703
Toilet rooms, access 503.1

D

DAMP, DAMPNESS
Roofs 304.7
Window, door frames 304.13
DANGEROUS, HAZARDOUS
Condemnation 108.1
Demolition 110
Electrical hazards 604.3
Existing remedies 102.4
Fire safety 701
Imminent danger 202
Unsafe equipment 108.1.2
Unsafe structures or premises 108.1.5
DECKS
Handrails and guardrails 304.12
Maintenance 304.2, 304.10
DECORATION
Exterior structure 304.8
DEMOLITION
Existing remedies 102.4
Failure to comply 110.3
General 110
Order 110.2
Salvage materials 110.4
Violations 110.3

DETECTORS
Smoke 704
DETERIORATION
Definition 202
Exterior walls 304.6
DIRECT
Egress 702.1
DISPOSAL
Disposal of garbage 308.3
Disposal of rubbish 308.2
DOOR
Exit doors 702.3
Fire 703.2
Hardware 304.15
Insect screens 304.14
Interior surfaces 305.3
Locks 304.15, 702.3
Maintenance 304.13, 304.15
Weather tight 304.13
Window and door frames 304.13
DORMITORY (ROOMING HOUSE, HOTEL, MOTEL)
Locked doors 702.3
Privacy 503.1, 503.2
DRAIN, DRAINAGE
Basement hatchways 304.16
Plumbing connections 506
Storm drainage 507
DUCT
Exhaust duct 304.9
Duct systems 607
DUST
Process ventilation 403.4
DWELLING
Cleanliness 305.1, 308.1
Definition 202
Electrical 604.1
Heating facilities 602
Required facilities 502

E

EGRESS
Aisles 702.2
Emergency escape 702.4
General 702.1
Lighting 402.2
Locked doors 702.3
Obstructions prohibited 702.1
Stairs, porches and railings 304.10, 305.4, 305.5, 307.1
ELECTRIC, ELECTRICAL EQUIPMENT
Abatement of hazards, fire exposure 604.3.2
Abatement of hazards, water exposure 604.3.1
Condemnation 108.1
Electrical equipment 604.3.1.1
Facilities required 604.1
Hazards 604.3
Installation 605.1
Lighting fixtures 605.3
Receptacles 604.3, 605.2
Responsibility 601.2
Service 604.2
ELEVATOR, ESCALATORS, DUMBWAITERS
Condemnation 108.1
General 606.1
Maintenance 606.1, 606.2
EMERGENCY
Emergency measures 109
Emergency orders 109.1
Emergency escape openings 702.4
ENFORCEMENT
Duties and powers 104
Scope 101.2
EQUIPMENT
Alternative 105.2
Combustion air 603.5
Condemnation 108.1.2, 108.3
Electrical installation 605.1
Emergency order 109.1
Energy conservation devices 603.6
Installation 603.1
Interior structure 305.1
Placarding 108.3, 108.4
Prohibited use 108.5
Responsibility 601.2
Safety controls 603.4
Scope 101.2
Scope, mechanical and electrical 601.1
Support, definition 202
Unsafe 108
Used 105.4
EXHAUST
Clothes dryer 403.5
Exhaust ducts 304.9
Process ventilation 403.4
EXISTING
Remedies 102.4
Scope 101.2
Structural members 304.4
Structures 101.3
EXTERIOR
Decorative features 304.8
Exterior structure 304
Exterior walls 304.6
Painting 304.2, 304.6
Rodent harborage 302.5, 304.5
Sanitation 304.1
Scope 301.1
Stair 303.10
Street numbers 303.3
Unsafe conditions 304.1.1
Weather tight 303.13

F

FAN
Exhaust vents 302.6

FEES, EXPENSES, COST
Closing vacant structures 108.2
Demolition 110.1, 110.3, 110.4
Extermination 309.2, 309.3, 309.4, 309.5
General 103.5
Relief from personal liability 103.4
FENCE
Accessory 302.7
Maintenance 304.2
FIRE
Automatic sprinkler systems 704.1.1
Fire-resistance rated assemblies 703.1
Fire-protection systems 704
Responsibility, fire safety 701.2
Scope 101.2
Scope, fire safety 701.1
Smoke alarms 704.2
FLAMMABLE LIQUID
Containers 108.1.2
FLOOR, FLOORING
Area for sleeping purposes 404.4.1
Fire-resistance ratings 703.1
Interior surfaces 305.1, 305.3
Space requirements 404.4.1, 404.6
FOOD PREPARATION
Cooking equipment 403.3
Sanitary condition 305.1, 404.7
Ventilation 403.4
FOUNDATION
Condemnation 108.1.1
Foundation walls 304.5
FRAME
Window and door frames 304.13

G

GAS
Energy conservation devices 603.6
Exhaust vents 302.6
GLAZING
Materials 304.13.1
GRADE
Drainage 302.2, 507
GUARD
Anchorage and maintenance 304.12
Basement windows 304.18.2
Definition 202

H

HABITABLE
Definition 202
Light 402
Minimum ceiling height 404.3
Minimum room width 404.2
Required plumbing facilities 502
Residential heating facilities 602.2, 602.3
Space requirements 404.4.1
Ventilation 403
HANDRAILS AND GUARDRAILS
Handrails 304.12, 305.5, 307.1
Stairs and porches 304.10
HARDWARE
Door hardware 304.15, 702.3
Openable windows 304.13.2
HAZARDOUS (See DANGEROUS, HAZARDOUS)
HEAT, HEATING
Energy conservation devices 603.6
Fireplaces 603.1
Heating 603.1
Mechanical equipment 603.1
Required capabilities 602
Residential heating 602.2, 602.3
Supply 602.3
Water heating facilities 505.4
Water system 505
HEIGHT
Minimum ceiling height 404.3
HOT (See HEAT, HEATING)
HOTELS, ROOMING HOUSES AND DORMITORY UNITS, MOTELS
Definition 202
Locked doors 702.3
Required facilities 502
Toilet rooms 503
HOUSEKEEPING UNIT
Definition 202

I

IDENTIFICATION
Code official 104.5
INFESTATION
Condemnation 108.1.3
Definition 202
Insect and rat 302.5, 303.14, 309.1
INSECTS
Pest elimination 309
Infestation 309.1
Insect screens 304.14
INSPECTIONS
General 104.2
Right of entry 104.3
INSPECTOR
Identification 104.3
Inspections 104.2
Records 104.6
INTENT
Code 101.3
INTERIOR
Interior structure 305
Interior surfaces 305.3
Means of egress 702
Sanitation 305.1
Unsafe conditions 305.1.1

J

JURISDICTION
Title 101.1

K

KITCHEN
Electrical outlets required 605.2
Minimum width 404.2
Prohibited use 404.4.4
Room lighting 605.3
Water heating facilities 505.4

L

LANDING
Handrails and guards 304.12, 305.4, 305.5, 306.1
Maintenance 304.10, 305.4
LAUNDRY
Room lighting 605.3
Water-heating facilities 505.4
LAVATORY
Hotels 502.3
Required facilities 502
Rooming houses 502.2
Sanitary drainage system 506
Water-heating facilities 505.4
Water system 505
LEASE (SELL, RENT)
Heat supplied 602.3
Salvage materials 110.4
Transfer of ownership 107.6
LIEN
Closing of vacant structures 108.2
Demolition 110.3
Failure to comply 110.3
LIGHT, LIGHTING
Common halls and stairways 402.2, 605.3
General 402
Habitable rooms 402.1
Luminaires 605.3
Other spaces 402.3
Responsibility 401.2
Scope 101.2
Toilet rooms 605.3
LIVING ROOM
Room area 404.4.1
LOAD, LOADING
Elevators, escalators and dumbwaiters 606.1
Handrails and guardrails 304.12, 305.5
Live load 304.4, 305.2
Stairs and porches 304.10, 305.2
Structural members 304.4, 305.2

M

MAINTENANCE
Required 102.2
MATERIAL
Alternative 105.2
Salvage 110.4
Used 105.4
MEANS OF EGRESS (See EGRESS)
MECHANICAL
Installation 603.1
Responsibility 601.2
Scope 601.1
Ventilation, general 403
Ventilation, toilet rooms 403.2
MINIMUM
Ceiling height 404.3
Room width 404.2
Scope 301.1
MODIFICATION
Approval 105.1
MOTEL (See HOTELS)
MOTOR VEHICLES
Inoperative 302.8
Painting 302.8

N

NATURAL
Lighting 401.3, 402
Ventilation 401.3, 403
NOTICES AND ORDERS
Appeal 111.1
Form 107.2
Method of service 107.3
Orders 107
Owner, responsible person 107.1
Penalties 107.5
Placarding of structure 108.4
Transfer of ownership 107.6
Unauthorized tampering 107.4
Vacating structure 108.2
NOXIOUS
Process ventilation 403.4
Weeds 302.4
NUISANCE
Closing of vacant structures 108.2

O

OBSTRUCTION
Light 402.1
Right of entry 104.3
OCCUPANCY (See USE)
OPENABLE
Locked doors 702.3
Windows 304.13.2, 403.1
OPERATOR
Definition 202
ORDER (See NOTICE)
ORDINANCE, RULE
Applicability 102

Application for appeal 111.1
OUTLET
Electrical 605.2
OWNER
Closing of vacant structures 108.2
Definition 202
Demolition 110
Pest elimination 309.2
Failure to comply 110.3
Insect and rat control 302.5, 309.2, 309.4
Notice 107.1, 108.3
Placarding of structure 108.4
Responsibility 301.2
Responsibility, fire safety 701.2
Responsibility, light, ventilation 401.2
Responsibility, mechanical and electrical 601.2
Responsibility, plumbing facilities 501.2
Right of entry 104.3
Rubbish storage 308.2.1
Scope 101.2
Transfer of ownership 107.6

P

PASSAGEWAY
Common hall and stairway 402.2
Interior surfaces 305.3
Toilet rooms, direct access 503.1
PENALTY
Notices and orders 107.4
Placarding of structure 108.4
Prohibited occupancy 108.5
Removal of placard 108.4.1
Scope 101.2
Violations 106.4
PEST ELIMINATION
Condemnation 108.1
Definition 202
Insect and rat control . . 302.5, 304.5, 304.14, 309.1
Pest elimination 309.1
Responsibility of owner 301.2, 306.2
Responsibility of tenant-occupant 306.3, 306.5
PLACARD, POST
Closing 108.2
Condemnation 108.1
Demolition 110
Emergency, notice 109.1
Notice to owner 107.1, 108.3
Placarding of structure 108.4
Prohibited use 108.5
Removal 108.4.1
PLUMBING
Clean and sanitary 504.1
Clearance 504.2
Connections 505.1
Contamination 505.2
Employee's facilities 503.3
Fixtures 504.1
Required facilities 502
Responsibility 501.2
Sanitary drainage system 506
Scope 501.1
Storm drainage 507
Supply 505.3
Water heating facilities 505.4
PORCH
Handrails 304.12
Structurally sound 304.10
PORTABLE (TEMPORARY)
Cooking equipment 603.1
PRESSURE
Water supply 505.3
PRIVATE, PRIVACY
Bathtub or shower 503.1
Occupancy limitations 404.1
Required plumbing facilities 502
Sewage system 506.1
Water closet and lavatory 503.1
Water system 505.1
PROPERTY, PREMISES
Cleanliness 304.1, 308.1
Condemnation 108
Definition 202
Demolition 110
Emergency measures 109
Exterior areas 302
Pest elimination, multiple occupancy . . 302.5, 309.4
Pest elimination, single occupancy 302.5, 309.3
Failure to comply 110.3
Grading and drainage 302.2
Responsibility 301.2
Scope 301.1
Storm drainage 507
Vacant structures and land 301.3
PROTECTION
Basement windows 304.17
Fire-protection systems 704
Signs, marquees and awnings 304.9
PUBLIC
Cleanliness 304.1, 305.1
Egress 702.1
Hallway 502.3
Sewage system 506.1
Toilet facilities 502.5, 503
Vacant structures and land 301.3
Water system 505
PUBLIC WAY
Definition 202

R

RAIN (PREVENTION OF ENTRY INTO BUILDING EXTERIOR ENVELOPE)
Basement hatchways 304.16
Exterior walls 304.6
Grading and drainage 303.2
Roofs 304.7
Window and door frames 304.13

RECORD
Official records 104.7
REHABILITATION
Intent 101.3
REPAIR
Application of other codes 102.3
Chimneys 304.11
Demolition 110.1
Exterior surfaces 304.1
Maintenance 102.2
Signs, marquees and awnings 304.9
Stairs and porches 304.10
Weather tight 304.13
Workmanship 102.5
REPORTS
Test reports 105.3.2
RESIDENTIAL
Pest elimination 309
Residential heating 602.2
Scope 101.2
RESPONSIBILITY
Pest elimination 309
Fire safety 701.2
Garbage disposal 308.3
General 301.2
Mechanical and electrical 601.2
Persons 301.1
Placarding of structure 108.4
Plumbing facilities 501.2
Rubbish storage 308.2.1
Scope 101.2, 301.1
REVOKE, REMOVE
Demolition 110
Existing remedies 102.4
Removal of placard 108.4.1
Rubbish removal 308.2.1
RIGHT OF ENTRY
Duties and powers of code official 104.3
Inspections 104.2
RODENTS
Basement hatchways 304.16
Condemnation 108
Exterior surfaces 304.6
Pest elimination 302.5, 309
Guards for basement windows 304.17
Harborage 302.5
Insect and rodent control 309.1
ROOF
Exterior structure 304.1
Roofs 304.7
Storm drainage 507
ROOM
Bedroom and living room 404.4
Cooking facilities 403.3
Direct access 503.2
Habitable 402.1
Heating facilities 602
Light 402
Minimum ceiling heights 404.3
Minimum width 404.2
Overcrowding 404.5
Prohibited use 404.4.4
Temperature 602.5
Toilet 503
Ventilation 403
ROOMING HOUSES (See DORMITORY)
RUBBISH
Accumulation 308.1
Definition 202
Disposal 308.2
Garbage facilities 308.3.1
Rubbish storage 308.2.1

S

SAFETY, SAFE
Fire safety requirements 701, 702, 703, 704
Safety controls 603.4
SANITARY
Bathroom and kitchen floors 305.3
Cleanliness 304.1, 305.1
Disposal of garbage 308.3
Disposal of rubbish 308.2
Exterior property areas 302.1
Exterior structure 304.1
Food preparation 404.7
Furnished by occupant 302.1
Grease interceptors 506.3
Interior surfaces 305.3
Plumbing fixtures 504.1
Required plumbing facilities 502
Scope 101.2
SASH
Window 304.13
SCREENS
Insect screens 304.14
SECURITY
Basement hatchways 304.18.3
Building 304.18
Doors 304.18.1
Vacant structures and land 301.3
Windows 304.18.2
SELF-CLOSING SCREEN DOORS
Insect screens 304.14
SEPARATION
Fire-resistance ratings 703
Privacy 404.1
Separation of units 404.1
Water closet and lavatory 502.1
SERVICE
Electrical 604.2
Method 107.3
Notices and orders 107.1, 108.3
Service on occupant 108.3
SEWER
General 506.1
Maintenance 506.2

SHOWER
Bathtub or shower 502.1
Rooming houses 502.2
Water-heating facilities 505.4
Water system 505
SIGN
Signs, marquees and awnings 304.9
Unauthorized tampering 107.4
SINGLE-FAMILY DWELLING
Extermination 309
SINK
Kitchen sink 502.1
Sewage system 506
Water supply 505.3
SIZE
Habitable room, light 402
Habitable room, ventilation 403
Room area 404.4.1
SMOKE
Alarms 704.2
Interconnection 704.4
Power source 704.3
SPACE
General, light 402
General, ventilation 403
Occupancy limitations 404
Privacy 404.1
Scope 401.1
STACK
Chimneys 304.11
STAIRS
Common halls and stairways, light 402.2
Exit facilities 305.4
Handrails 304.12, 305.5
Lighting 605.3
Public areas 302.3
Stairs and porches 304.10
STANDARD
Referenced 102.7
STOP WORK ORDER
Authority 112.1
Emergencies 112.3
Failure to comply 112.4
Issuance 112.2
STORAGE
Food preparation 404.7
Garbage storage facilities 308.3
Rubbish storage facilities 308.2.1
Sanitation 308.1
STRUCTURE
Accessory structures 302.7
Closing of vacant structures 108.2
Definition 202
Emergency measures 109
General, exterior 304.1
General, condemnation 110
General, interior structure 305.1
Placarding of structure 108.4
Scope 301.1
Structural members 304.4, 305.2
Vacant structures and land 301.3
SUPPLY
Combustion air 603.5
Connections 505.1
Water-heating facilities 505.4
Water supply 505.3
Water system 505
SURFACE
Exterior surfaces 304.2, 304.6
Interior surfaces 305.3
SWIMMING
Swimming pools 303.1, 303.2
Safety covers 303.2

T

TEMPERATURE
Nonresidential structures 602.4
Residential buildings 602.2
Water-heating facilities 505.4
TENANT
Scope 101.2
TEST, TESTING
Agency 105.3.2
Methods 105.3.1
Reports 105.3.2
Required 105.3
TOXIC
Process ventilation 403.4
TRASH
Rubbish and garbage 308

U

UNOBSTRUCTED
Access to public way 702.1
General, egress 702.1
UNSAFE STRUCTURES AND EQUIPMENT
Abatement methods 108.6
Dangerous structure or premises 108.1.5
Equipment 108.1.2
Existing remedies 102.4
General, condemnation 108, 110
General, demolition 110
Notices and orders 107, 108.3
Record 108.7
Structures 108.1.1
USE
Application of other codes 102.3
General, demolition 110
UTILITIES
Authority to disconnect 108.2.1

V

VACANT
Abatement methods 108.6

Authority to disconnect service utilities 108.2.1
Closing of vacant structures 108.2
Emergency measure 109
Method of service 107.3, 108.3
Notice to owner or to person responsible 107, 108.3
Placarding of structure 108.4
Record 108.7
Vacant structures and land 301.3

VAPOR
Exhaust vents 302.6

VEHICLES
Inoperative 302.8
Painting 302.8

VENT
Connections 504.3
Exhaust vents 302.6
Flue 603.2

VENTILATION
Clothes dryer exhaust 403.5
Combustion air 603.5
Definition 202
General, ventilation 403
Habitable rooms 403.1
Process ventilation 403.4
Recirculation 403.2, 403.4
Toilet rooms 403.2

VERMIN
Condemnation 108
Insect and rat control 302.5, 309

VIOLATION
Condemnation 108
General 106
Notice 107, 108.3
Penalty 106.4
Placarding of structure 108.4
Prosecution 106.3
Strict liability offense 106.3, 202
Transfer of ownership 107.6

W

WALK
Sidewalks 302.3

WALL
Accessory structures 302.7
Exterior surfaces 304.2, 304.6
Exterior walls 304.6
Foundation walls 304.5
General, fire-resistance rating 703.1
Interior surfaces 305.3
Outlets required 605.2
Temperature measurement 602.5

WASTE
Disposal of garbage 308.3
Disposal of rubbish 308.2
Dwelling units 502.1
Garbage storage facilities 308.3.1

WATER
Basement hatchways 304.16
Connections 506.1
Contamination 505.2
General, sewage 506
General, storm drainage 507
General, water system 505
Heating 505.4
Hotels 502.3
Kitchen sink 502.1
Required facilities 502
Rooming houses 502.2
Supply 505.3
System 505
Toilet rooms 503
Water-heating facilities 505.4

WEATHER, CLIMATE
Heating facilities 602

WEATHERSTRIP
Window and door frames 304.13

WEEDS
Noxious weeds 302.4

WIDTH
Minimum room width 404.2

WIND
Weather tight 304.13
Window and door frames 304.13

WINDOW
Emergency escape 702.4
Glazing 304.13.1
Guards for basement windows 304.17
Habitable rooms 402.1
Insect screens 304.14
Interior surface 305.3
Light 402
Openable windows 304.13.2
Toilet rooms 403.2
Ventilation 403
Weather tight 304.13
Window and door frames 304.13

WORKMANSHIP
General 102.5

Don't Miss Out On Valuable ICC Membership Benefits. Join ICC Today!

Join the largest and most respected building code and safety organization. As an official member of the International Code Council®, these great ICC® benefits are at your fingertips.

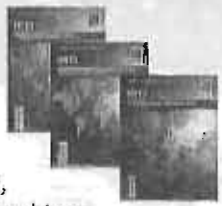
EXCLUSIVE MEMBER DISCOUNTS

ICC members enjoy exclusive discounts on codes, technical publications, seminars, plan reviews, educational materials, videos, and other products and services.

TECHNICAL SUPPORT

ICC members get expert code support services, opinions, and technical assistance from experienced engineers and architects, backed by the world's leading repository of code publications.

FREE CODE—LATEST EDITION



Most new individual members receive a free code from the latest edition of the International Codes®. New corporate and governmental members receive one set of major International Codes (Building, Residential, Fire, Fuel Gas, Mechanical, Plumbing, Private Sewage Disposal).

FREE CODE MONOGRAPHS

Code monographs and other materials on proposed International Code revisions are provided free to ICC members upon request.

PROFESSIONAL DEVELOPMENT

Receive Member Discounts for on-site training, institutes, symposiums, audio virtual seminars, and on-line training! ICC delivers educational programs that enable members to transition to the I-Codes®, interpret and enforce codes, perform plan reviews, design and build safe structures, and perform administrative functions more effectively and with greater efficiency. Members also enjoy special educational offerings that provide a forum to learn about and discuss current and emerging issues that affect the building industry.

ENHANCE YOUR CAREER

ICC keeps you current on the latest building codes, methods, and materials. Our conferences, job postings, and educational programs can also help you advance your career.

CODE NEWS

ICC members have the inside track for code news and industry updates via e-mails, newsletters, conferences, chapter meetings, networking, and the ICC website (www.iccsafe.org). Obtain code opinions, reports, adoption updates, and more. Without exception, ICC is your number one source for the very latest code and safety standards information.

MEMBER RECOGNITION

Improve your standing and prestige among your peers. ICC member cards, wall certificates, and logo decals identify your commitment to the community and to the safety of people worldwide.

ICC NETWORKING

Take advantage of exciting new opportunities to network with colleagues, future employers, potential business partners, industry experts, and more than 50,000 ICC members. ICC also has over 300 chapters across North America and around the globe to help you stay informed on local events, to consult with other professionals, and to enhance your reputation in the local community.

JOIN NOW! 1-888-422-7233, x33804 | www.iccsafe.org/membership

ICC INTERNATIONAL CODE COUNCIL®

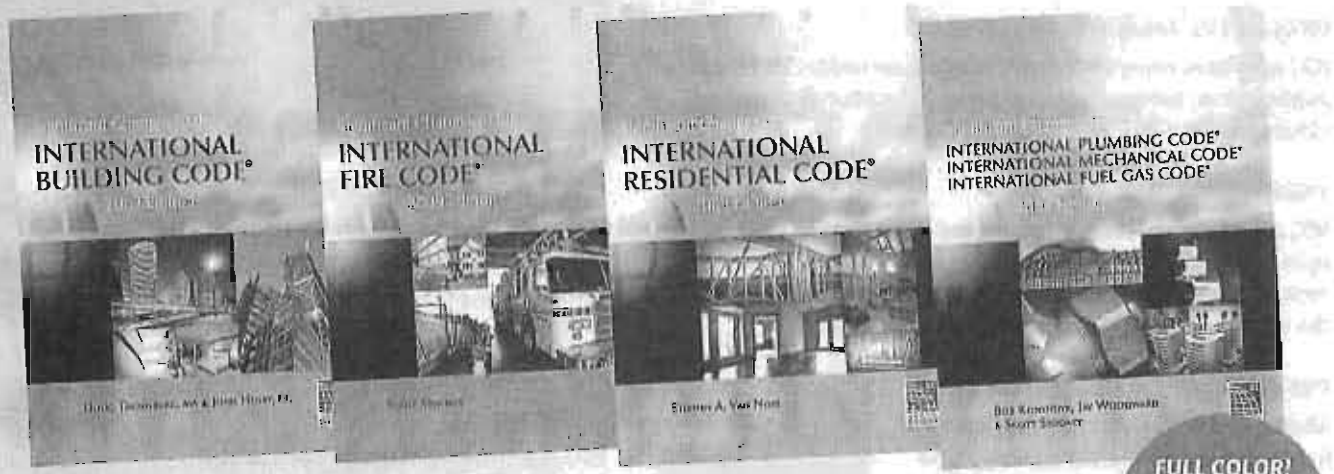
People Helping People Build a Safer World™

09-01547

INTERNATIONAL CODE COUNCIL

People Helping People Build a Safer World™

VALUABLE GUIDES TO THE 2009 I-CODES®



FULL COLOR! HUNDREDS OF PHOTOS AND ILLUSTRATIONS!

2006 EDITIONS ALSO AVAILABLE

NEW!
SIGNIFICANT CHANGES TO THE 2009 INTERNATIONAL CODES®

Valuable resources for anyone using the International Codes! Each book offers a comprehensive yet practical analysis of the critical changes made between the 2006 and 2009 editions of the codes. Changes are identified then followed by in-depth discussion of how the change affects real-world application. Coverage reflects provisions with special significance, including new and innovative design ideas and technologies, modern materials and methods of construction, and current approaches to safety and stability. Authored by ICC code experts, these useful tools are "must-have" guides to the many important changes in the 2009 International Codes.

SIGNIFICANT CHANGES TO THE INTERNATIONAL BUILDING CODE, 2009 EDITION (365 pages)
Authors Doug Thornburg, AIA, and John Henry, P.E. #7024S09

SIGNIFICANT CHANGES TO THE INTERNATIONAL RESIDENTIAL CODE, 2009 EDITION (350 pages)
Author Stephen A. Van Note #7101S09

SIGNIFICANT CHANGES TO THE INTERNATIONAL FIRE CODE, 2009 EDITION (300 pages)
Author Scott Stookey #7404S09

SIGNIFICANT CHANGES TO THE INTERNATIONAL PLUMBING CODE/INTERNATIONAL MECHANICAL CODE/ INTERNATIONAL FUEL GAS CODE, 2009 EDITION (220 pages)
Authors Bob Konyndyk, Scott Stookey, and Jay Woodward #7202S09

TO ORDER | PHONE 1-800-786-4452 | WWW.ICCSAFE.ORG

ICC EVALUATION SERVICE

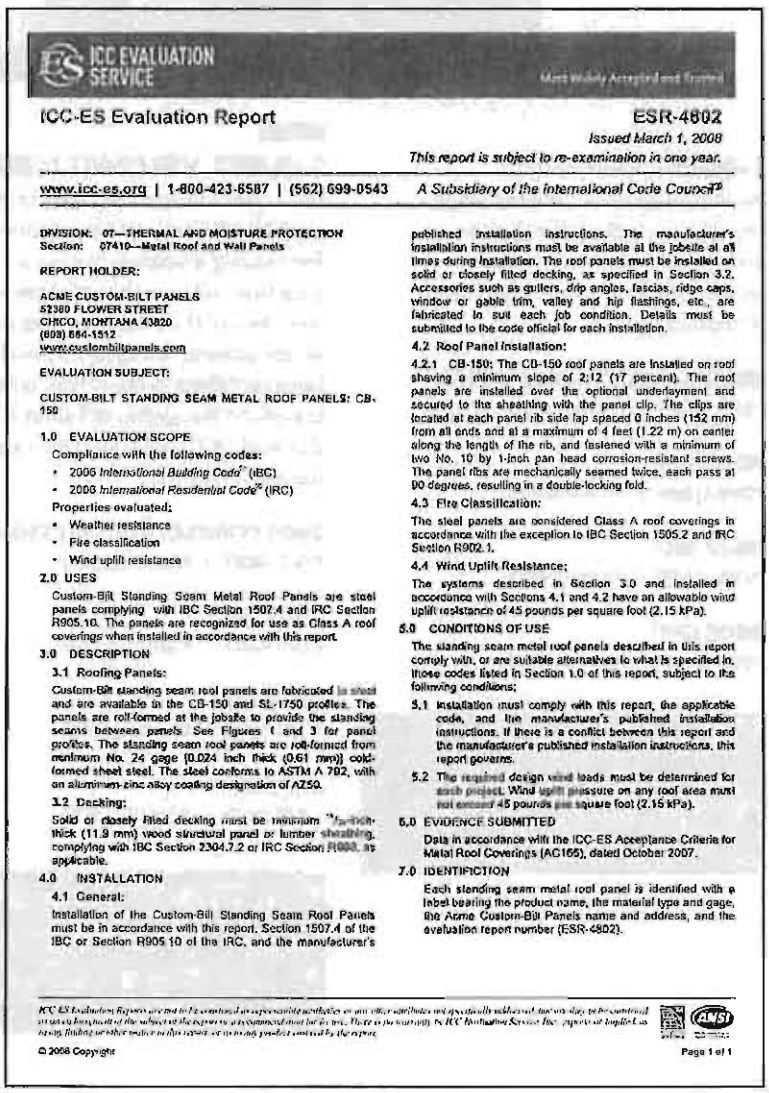
Most Widely Accepted and Trusted

Innovative Building Products

Make sure they are up to code with ICC-ES Evaluation Reports

The ICC-ES Solution

ICC Evaluation Service® (ICC-ES®), a subsidiary of ICC®, was created to assist code officials and industry professionals in verifying that new and innovative building products meet code requirements. This is done through a comprehensive evaluation process that results in the publication of ICC-ES Evaluation Reports for those products that comply with requirements in the code or acceptance critera. Today, more code officials prefer using ICC-ES Evaluation Reports over any other resource to verify products comply with codes.



ICC EVALUATION SERVICE

Most Widely Accepted and Trusted

ICC-ES Evaluation Report **ESR-6802**

Issued March 1, 2008

This report is subject to re-examination in one year.

www.icc-es.org | 1-800-423-6587 | (562) 699-0543 *A Subsidiary of the International Code Council®*

DIVISION: 07—THERMAL AND MOISTURE PROTECTION
Section: 07410—Metal Roof and Wall Panels

REPORT HOLDER:

ACME CUSTOM-BILT PANELS
52380 FLOWER STREET
CHICO, MONTANA 43820
(800) 864-1512
www.custombiltpanels.com

EVALUATION SUBJECT:

CUSTOM-BILT STANDING SEAM METAL ROOF PANELS: CB-150

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)

Properties evaluated:

- Weather resistance
- Fire classification
- Wind uplift resistance

2.0 USES

Custom-Bilt Standing Seam Metal Roof Panels are steel panels complying with IBC Section 1507.4 and IRC Section R905.10. The panels are recognized for use as Class A roof coverings when installed in accordance with this report.

3.0 DESCRIPTION

3.1 Roofing Panels:

Custom-Bilt standing seam roof panels are fabricated in steel and are available in the CB-150 and SL-1750 profiles. The panels are roll-formed at the jobsite to provide the standing seams between panels. See Figures 1 and 2 for panel profiles. The standing seam roof panels are roll-formed from minimum No. 24 gage [0.024 inch thick (0.61 mm)] cold-formed sheet steel. The steel conforms to ASTM A 792, with an aluminum-zinc alloy coating designation of AZ50.

3.2 Decking:

Solid or closely fitted decking must be minimum ⅜-inch-thick (11.9 mm) wood structural panel or lumber sheathing, complying with IBC Section 2304.7.2 or IRC Section R803, as applicable.

4.0 INSTALLATION

4.1 General:

Installation of the Custom-Bilt Standing Seam Roof Panels must be in accordance with this report, Section 1507.4 of the IBC or Section R905.10 of the IRC, and the manufacturer's published installation instructions. The manufacturer's installation instructions must be available at the jobsite at all times during installation. The roof panels must be installed on solid or closely fitted decking, as specified in Section 3.2. Accessories such as gutters, drip angles, fascias, ridge caps, window or gable trim, valley and hip flashings, etc., are fabricated to suit each job condition. Details must be submitted to the code official for each installation.

4.2 Roof Panel Installation:

4.2.1 CB-150: The CB-150 roof panels are installed on roof having a minimum slope of 2:12 (17 percent). The roof panels are installed over the optional underlayment and secured to the sheathing with the panel clip. The clips are located at each panel rib side lap spaced 6 inches (152 mm) from all ends and at a maximum of 4 feet (1.22 m) on center along the length of the rib, and fastened with a minimum of two No. 10 by 1-inch pan head corrosion-resistant screws. The panel ribs are mechanically seamed twice, each pass at 90 degrees, resulting in a double-locking fold.

4.3 Fire Classification:

The steel panels are considered Class A roof coverings in accordance with the exception to IBC Section 1505.2 and IRC Section R902.1.

4.4 Wind Uplift Resistance:

The systems described in Section 3.0 and installed in accordance with Sections 4.1 and 4.2 have an allowable wind uplift resistance of 45 pounds per square foot (2.15 kPa).

5.0 CONDITIONS OF USE

The standing seam metal roof panels described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 Installation must comply with this report, the applicable code, and the manufacturer's published installation instructions. If there is a conflict between this report and the manufacturer's published installation instructions, this report governs.

5.2 The required design wind loads must be determined for each project. Wind uplift pressure on any roof area must not exceed 45 pounds per square foot (2.15 kPa).

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Metal Roof Coverings (AC166), dated October 2007.

7.0 IDENTIFICATION

Each standing seam metal roof panel is identified with a label bearing the product name, the material type and gage, the Acme Custom-Bilt Panels name and address, and the evaluation report number (ESR-6802).

ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, Inc., express or implied, as to any finding or other matter in this report, or as to any product covered by the report.

© 2008 Copyright

Page 1 of 1

FREE Access to ICC-ES Evaluation Reports!

William Gregory
Building and Plumbing Inspector
Town of Yorktown, New York

"We've been using ICC-ES Evaluation Reports as a basis of product approval since 2002. I would recommend them to any jurisdiction building department, particularly in light of the many new products that regularly move into the market. It's good to have a group like ICC-ES evaluating these products with a consistent and reliable methodology that we can trust."

Becky Baker, CBO
Director/Building Official
Jefferson County, Colorado

"The ICC-ES Evaluation Reports are designed with the end user in mind to help determine if building products comply with code. The reports are easily accessible, and the information is in a format that is useable by plans examiners and inspectors as well as design professionals and contractors."

VIEW ICC-ES EVALUATION REPORTS ONLINE!

www.icc-es.org

09-02158

2009 International Codes on I-QUEST

ICC offers an electronic option just right for you

This powerful tool contains the complete searchable text of the 2009 International Codes®.

I-Quest's Microsoft Fast Folio® search engine allows you to:

- Enjoy multiple search capabilities
- Utilize hyperlinks to sections and tables within each code
- Copy and paste text, figures, and tables
- Highlight and bookmark frequently used sections
- Add your own searchable notes to text or hide them
- Use the "Update" feature to keep your code current
- Available versions include:
  - The Complete Collection containing all 13 I-Codes plus ICC/ANSI A117.1-2003
  - IBC, IRC, or IFC individually

Please note, I-Quest is not MAC-compatible.

I-QUEST, SINGLE USER

Enables one code user to load CD content on one computer.

2009 COMPLETE COLLECTION
SINGLE | #8005Q09

2009 IBC®
SINGLE | #8000Q09

2009 IRC®
SINGLE | #8100Q09

2009 IFC®
SINGLE | #8400Q09

All versions include new Update feature!

I-QUEST, NETWORK

An ideal selection for code users working on a shared network. I-Quest Network allows a set number of concurrent users to access content.

2009 COMPLETE COLLECTION
FIVE USER | #8005Q509

2009 IBC®
FIVE USER | #8000Q509

2009 IRC®
FIVE USER | #8100Q509

2009 IFC®
FIVE USER | #8400Q509

10, 25, and 50 user versions are also available.
Call 1-888-422-7233, x33822 for details.

NEW! I-QUEST, VOLUME LICENSING

For organizations with staff on the go, ICC offers the ideal solution. Purchasing a volume license enables your firm, office or jurisdiction to download CD content to a set number of computers. Whether the seats are fixed desktops in the office, laptops travelling the globe, or tablet PCs in the field, ICC's new Volume Licensing has you covered.

2009 COMPLETE COLLECTION
FIVE SEAT | #8005QL509

2009 IBC®
FIVE SEAT | #8000QL509

2009 IRC®
FIVE SEAT | #8100QL509

2009 IFC®
FIVE SEAT | #8400QL509

10, 25, and 50 seat versions are also available.
Call 1-888-422-7233, x33822 for details.

ORDER YOURS TODAY!

1-800-786-4452 | www.iccsafe.org/store

10-02920