

2023 Oregon Residential Specialty Code

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PREFACE

Introduction

The *International Residential Code*® (IRC®) establishes minimum requirements for one- and two-family dwellings and townhouses using prescriptive provisions. It is founded on broad-based principles that make possible the use of new materials and new building designs. This 2021 edition is fully compatible with all of the International Codes® (I-Codes®) published by the International Code Council (ICC), including the *International Building Code*® (IBC®), *International Energy Conservation Code*® (IECC®), *International Existing Building Code*® (IEBC®), *International Fire Code*® (IFC®), *International Fuel Gas Code*® (IFGC®), *International Green Construction Code*® (IgCC®), *International Mechanical Code*® (IMC®), *International Plumbing Code*® (IPC®), *International Private Sewage Disposal Code*® (IPSDC®), *International Property Maintenance Code*® (IPMC®), *International Swimming Pool and Spa Code*® (ISPSC®), *International Wildland-Urban Interface Code*® (IWUIC®), *International Zoning Code*® (IZC®) and *International Code Council Performance Code*® (ICCPC®).

The I-Codes, including the IRC, are used in a variety of ways in both the public and private sectors. Most industry professionals are familiar with the I-Codes as the basis of laws and regulations in communities across the US and in other countries. However, the impact of the codes extends well beyond the regulatory arena, as they are used in a variety of nonregulatory settings, including:

- Voluntary compliance programs such as those promoting sustainability, energy efficiency and disaster resistance.
- The insurance industry, to estimate and manage risk, and as a tool in underwriting and rate decisions.
- Certification and credentialing of individuals involved in the fields of building design, construction and safety.
- Certification of building and construction-related products.
- US federal agencies, to guide construction in an array of government-owned properties.
- Facilities management.
- “Best practices” benchmarks for designers and builders, including those who are engaged in projects in jurisdictions that do not have a formal regulatory system or a governmental enforcement mechanism.
- College, university and professional school textbooks and curricula.
- Reference works related to building design and construction.

In addition to the codes themselves, the code development process brings together building professionals on a regular basis. It provides an international forum for discussion and deliberation about building design, construction methods, safety, performance requirements, technological advances and innovative products.

Development

This 2021 edition presents the code as originally issued, with changes reflected in the 2003 through 2018 editions and further changes approved by the ICC Code Development Process through 2019. Residential electrical provisions are based on the 2020 National Electrical Code® (NFPA 70). A new edition such as this is promulgated every 3 years.

Fuel gas provisions have been included through an agreement with the American Gas Association (AGA). Electrical provisions have been included through an agreement with the NFPA.

This code is founded on principles intended to establish provisions consistent with the scope of a residential 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.

Maintenance

The IRC is kept up to date through the review of proposed changes submitted by code enforcement 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 ICC Code Development Process reflects principles of openness, transparency, balance, due process and consensus, the principles embodied in OMB Circular A-119, which governs the federal government's use of private-sector standards. The ICC process is open to anyone; there is no cost to participate, and people can participate without travel cost through the ICC's cloud-based app, cdpAccess®. A broad cross section of interests are represented in the ICC Code Development Process. The codes, which are updated regularly, include safeguards that allow for emergency action when required for health and safety reasons.

In order to ensure that organizations with a direct and material interest in the codes have a voice in the process, the ICC has developed partnerships with key industry segments that support the ICC's important public safety mission. Some code development committee members were nominated by the following industry partners and approved by the ICC Board:

- National Association of Home Builders (NAHB)
- National Council of Structural Engineers Association (NCSEA)

The code development committees evaluate and make recommendations regarding proposed changes to the codes. Their recommendations are then subject to public comment and council-wide votes. The ICC's governmental members—public safety officials who have no financial or business interest in the outcome—cast the final votes on proposed changes.

The contents of this work are subject to change through the code development cycles and by any governmental entity that enacts the code into law. For more information regarding the code development process, contact the Codes and Standards Development Department of the ICC.

The maintenance process for the fuel gas provisions is based on the process used to maintain the IFGC, in conjunction with the AGA. The maintenance process for the electrical provisions is undertaken by the NFPA.

While the I-Code development procedure is thorough and comprehensive, the ICC, its members and those participating in the development of the codes disclaim any liability resulting from the publication or use of the I-Codes, or from compliance or noncompliance with their provisions. The ICC does not have the power or authority to police or enforce compliance with the contents of this code.

Code Development Committee Responsibilities (Letter Designations in Front of Section Numbers)

In each code development cycle, proposed changes to this code are considered at the Committee Action Hearings by the applicable International Code Development Committee as follows:

[RB] = IRC—Building Code Development Committee

[RE] = International Residential Energy Conservation Code Development Committee;

[MP] = IRC—Mechanical/Plumbing Code Development Committee

The [RE] committee is also responsible for the IECC—Residential Provisions.

For the development of the 2024 edition of the I-Codes, there will be two groups of code development committees and they will meet in separate years, as shown in the following Code Development Hearings Table.

Code change proposals submitted for IRC Chapters 1 and 3 through 10, Appendices AE, AF, AH, AJ, AK, AL, AM, AN, AO, AQ, AR, AS, AT, AU, AV and AW, and definitions designated [RB] are heard by the IRC—Building Committee during the Group B (2022) cycle code development hearing. Code change proposals submitted for Chapter 11 are heard by the International Energy Conservation Code Development Committee during the Group B (2022) cycle code development hearing. Proposed changes to all other chapters are heard by the IRC Plumbing and Mechanical Committee during the Group A (2021) code development cycle.

It is very important that anyone submitting code change proposals understand which code development committee is responsible for the section of the code that is the subject of the code change proposal. For further information on the code development committee responsibilities, please visit the ICC website at www.iccsafe.org/current-code-development-cycle.

CODE DEVELOPMENT HEARINGS

Group A Codes (Heard in 2021, Code Change Proposals Deadline: January 11, 2021)	Group B Codes (Heard in 2022, Code Change Proposals Deadline: January 10, 2022)
International Building Code – Egress (Chapters 10, 11, Appendix E) – Fire Safety (Chapters 7, 8, 9, 14, 26) – General (Chapters 2–6, 12, 27–33, Appendices A, B, C, D, K, N)	Administrative Provisions (Chapter 1 of all codes except IECC, IRC and IgCC; IBC Appendix O; the appendices titled “Board of Appeals” for all codes except IECC, IRC, IgCC, ICCPC and IZC; administrative updates to currently referenced standards; and designated definitions)
International Fire Code	International Building Code — Structural (Chapters 15–25, Appendices F, G, H, I, J, L, M)
International Fuel Gas Code	International Existing Building Code
International Mechanical Code	International Energy Conservation Code — Commercial
International Plumbing Code	International Energy Conservation Code — Residential – IECC—Residential – IRC—Energy (Chapter 11)
International Property Maintenance Code	International Green Construction Code (Chapter 1)
International Private Sewage Disposal Code	International Residential Code – IRC—Building (Chapters 1–10, Appendices AE, AF, AH, AJ, AK, AL, AM, AO, AQ, AR, AS, AT, AU, AV, AW)
International Residential Code – IRC—Mechanical (Chapters 12–23) – IRC—Plumbing (Chapters 25–33, Appendices AG, AI, AN, AP)	
International Swimming Pool and Spa Code	
International Wildland-Urban Interface Code	
International Zoning Code	

Note: Proposed changes to the ICCPC will be heard by the code development committee noted in brackets [] in the text of the ICCPC.

Marginal Markings

- ➔ = Indicates 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 from the 2015 edition of the International Code.
- | = Indicates a technical change from the requirements of the 2015 edition of the International Code.
- > = Indicates International Code language deleted by Oregon.
- || = Indicates a State of Oregon amendment has been made to the International Code.

Minor changes such as section renumbering and removal of references to International Codes are not indicated with a double rule in the margin.

A single asterisk [*] placed in the margin indicates that text or a table has been relocated within the code. A double asterisk [**] placed in the margin indicates that the text or table immediately following it has been relocated there from elsewhere in the code. The following table indicates such relocations in the 2021 edition of the IRC.

RELOCATIONS

2021 LOCATION	2018 LOCATION
Table N1102.1.2	Table N1102.1.4
Table N1102.1.3	Table N1102.1.2
N1103.3.2	N1103.3.7
N1103.3.3	N1103.3.6
N1103.3.3.1	N1103.3.6.1
N1103.3.4	N1103.3.2
N1103.3.4.1	N1103.3.2.1
N1103.3.5	N1103.3.3
N1103.3.6	N1103.3.4
N1103.3.7	N1103.3.5
N1107.2	N1101.13.1

Coordination of the International Codes

The coordination of technical provisions is one of the strengths of the ICC family of model codes. The codes can be used as a complete set of complementary documents, which will provide users with full integration and coordination of technical provisions. Individual codes can also be used in subsets or as stand-alone documents. To make sure that each individual code is as complete as possible, some technical provisions that are relevant to more than one subject area are duplicated in some of the model codes. This allows users maximum flexibility in their application of the I-Codes.

Italicized Terms

Terms italicized in code text, other than document titles, are defined in Chapter 2. The terms selected to be italicized have definitions that the user should read carefully to better understand the code. Where italicized, the Chapter 2 definition applies. If not italicized, common-use definitions apply.

Adoption

The ICC maintains a copyright in all of its codes and standards. Maintaining copyright allows the ICC to fund its mission through sales of books, in both print and electronic formats. The ICC welcomes adoption of its codes by jurisdictions that recognize and acknowledge the ICC's copyright in the code, and further acknowledge the substantial shared value of the public/private partnership for code development between jurisdictions and the ICC.

The ICC also recognizes the need for jurisdictions to make laws available to the public. All I-Codes and I-Standards, along with the laws of many jurisdictions, are available for free in a nondownloadable form on the ICC's website. Jurisdictions should contact the ICC at adoptions@iccsafe.org to learn how to adopt and distribute laws based on the IRC in a manner that provides necessary access, while maintaining the ICC's copyright.

To facilitate adoption, several sections of this code contain blanks for fill-in information that needs to be supplied by the adopting jurisdiction as part of the adoption legislation. For this code, please see:

Section R101.1. Insert: **[NAME OF JURISDICTION]**

Table R301.2. Jurisdictions to fill in details as directed by provisions of the code.

Section P2603.5.1. Insert: **[NUMBER OF INCHES IN TWO LOCATIONS]**

Effective Use of the International Residential Code

The IRC was created to serve as a complete, comprehensive code regulating the construction of single-family houses, two-family houses (duplexes) and buildings consisting of three or more townhouse units. All buildings within the scope of the IRC are limited to three stories above grade plane. For example, a four-story single-family house would fall within the scope of the IBC, not the IRC. The benefits of devoting a separate code to residential construction include the fact that the user need not navigate through a multitude of code provisions that do not apply to residential construction in order to locate that which is applicable. A separate code also allows for residential and nonresidential code provisions to be distinct and tailored to the structures that fall within the appropriate code's scopes.

The IRC contains coverage for all components of a house or townhouse, including structural components, fireplaces and chimneys, thermal insulation, mechanical systems, fuel gas systems, plumbing systems and electrical systems.

The IRC is a prescriptive-oriented (specification) code with some examples of performance code language. It has been said that the IRC is the complete cookbook for residential construction. Section R301.1, for example, is written in performance language, but states that the prescriptive requirements of the code will achieve such performance.

It is important to understand that the IRC contains coverage for what is conventional and common in residential construction practice. While the IRC will provide all of the needed coverage for most residential construction, it might not address construction practices and systems that are atypical or rarely encountered in the industry. Sections such as R301.1.3, R301.2.2.1.1, R320.1, M1301.1, G2401.1 and P2601.1 refer to other codes either as an alternative to the provisions of the IRC or where the IRC lacks coverage for a particular type of structure, design, system, appliance or method of construction. In other words, the IRC is meant to be all inclusive for typical residential construction and it relies on other codes only where alternatives are desired or where the code lacks coverage for the uncommon aspect of residential construction. Of course, the IRC constantly evolves to address new technologies and construction practices that were once uncommon, but are now common.

The IRC is unique in that much of it, including Chapters 3 through 9 and Chapters 34 through 43, is presented in an ordered format that is consistent with the normal progression of construction, starting with the design phase and continuing through the final trim-out phase. This is consistent with the "cookbook" philosophy of the IRC.

TABLE OF CONTENTS

Part I—Administrative. 1-1

CHAPTER 1 SCOPE AND ADMINISTRATION 1-1

PART 1—SCOPE AND APPLICATION. 1-1

Section

- R101 Scope and General Requirements 1-1
- R102 Applicability 1-3

PART 2—ADMINISTRATION AND ENFORCEMENT. 1-5

Section

- R103 Reserved 1-5
- R104 Duties and Powers of the Building Official 1-5
- R105 Permits. 1-6
- R106 Construction Documents. 1-9
- R107 Temporary Structures and Uses 1-10
- R108 Fees 1-10
- R109 Inspections. 1-11
- R110 Certificate of Occupancy. 1-12
- R111 Service Utilities 1-13
- R112 Board of Appeals. 1-13
- R113 Violations 1-14
- R114 Stop Work Order 1-14
- R115 Prefabricated Construction 1-14
- R116 Inspection Card 1-14
- R117 Moved Buildings 1-15
- R118 Historic Buildings 1-15

Part II—Definitions. 2-1

CHAPTER 2 DEFINITIONS 2-1

Section

- R201 General 2-1
- R202 Definitions 2-1

Part III—Building Planning and Construction. 3-1

CHAPTER 3 BUILDING PLANNING 3-1

Section

- R301 Design Criteria 3-1
- R302 Fire-resistant Construction 3-14

- R303 Light, Ventilation and Heating 3-38
- R304 Minimum Room Areas 3-39
- R305 Ceiling Height. 3-39
- R306 Sanitation 3-40
- R307 Toilet, Bath and Shower Spaces 3-40
- R308 Glazing 3-41
- R309 Garages and Carports 3-44
- R310 Emergency Escape and Rescue Openings 3-45
- R311 Means of Egress 3-46
- R312 Guards and Window Fall Protection. 3-50
- R313 Automatic Fire Sprinkler Systems 3-50
- R314 Smoke Alarms. 3-50
- R315 Carbon Monoxide Alarms. 3-51
- R316 Plastic 3-52
- R317 Protection of Wood and Wood-based Products against Decay 3-55
- R318 Protection against Subterranean Termites 3-57
- R319 Site Address 3-57
- R320 Accessibility 3-57
- R321 Elevators and Platform Lifts. 3-57
- R322 Flood-resistant Construction. 3-57
- R323 Storm Shelters. 3-60
- R324 Solar Energy Systems. 3-60
- R325 Mezzanines 3-65
- R326 Habitable Attics 3-66
- R327 Wildfire Hazard Mitigation. 3-66
- R328 Swimming Pools, Spas and Hot Tubs. 3-70
- R329 Energy Storage Systems 3-70
- R330 Stationary Engine Generators. 3-71
- R331 Stationary Fuel Cell Power Systems. 3-71

CHAPTER 4 FOUNDATIONS. 4-1

Section

- R401 General 4-1
- R402 Materials 4-1
- R403 Footings. 4-2
- R404 Foundation and Retaining Walls. 4-15
- R405 Foundation Drainage. 4-33
- R406 Foundation Waterproofing and Dampproofing 4-35
- R407 Columns 4-35
- R408 Underfloor Space 4-36

TABLE OF CONTENTS

CHAPTER 5 FLOORS 5-1

Section

R501 General 5-1
R502 Wood Floor Framing 5-1
R503 Floor Sheathing 5-11
R504 Pressure Preservative-treated Wood
Floors (On Ground) 5-11
R505 Cold-formed Steel Floor Framing 5-13
R506 Concrete Floors (On Ground) 5-22
R507 Exterior Decks 5-26

CHAPTER 6 WALL CONSTRUCTION 6-1

Section

R601 General 6-1
R602 Wood Wall Framing 6-1
R603 Cold-formed Steel Wall Framing 6-54
R604 Wood Structural Panels 6-88
R605 Particleboard 6-89
R606 General Masonry Construction 6-89
R607 Glass Unit Masonry 6-105
R608 Exterior Concrete Wall Construction 6-106
R609 Exterior Windows and Doors 6-178
R610 Structural Insulated Panel Wall
Construction 6-179

CHAPTER 7 WALL COVERING 7-1

Section

R701 General 7-1
R702 Interior Covering 7-1
R703 Exterior Covering 7-5
R704 Soffits 7-24

**CHAPTER 8 ROOF-CEILING
CONSTRUCTION 8-1**

Section

R801 General 8-1
R802 Wood Roof Framing 8-1
R803 Roof Sheathing 8-30
R804 Cold-formed Steel Roof Framing 8-30
R805 Ceiling Finishes 8-46
R806 Roof Ventilation 8-46
R807 Attic Access 8-46

CHAPTER 9 ROOF ASSEMBLIES 9-1

Section

R901 General 9-1

R902 Fire Classification 9-1
R903 Weather Protection 9-1
R904 Materials 9-1
R905 Requirements for Roof Coverings 9-2
R906 Roof Insulation 9-12
R907 Rooftop-mounted
Photovoltaic Panel Systems 9-12
R908 Reroofing 9-12

**CHAPTER 10 CHIMNEYS AND
FIREPLACES 10-1**

Section

R1001 Masonry Fireplaces 10-1
R1002 Masonry Heaters 10-4
R1003 Masonry Chimneys 10-5
R1004 Factory-built Fireplaces 10-10
R1005 Factory-built Chimneys 10-10
R1006 Exterior Air Supply 10-11

Part IV—Energy Conservation 11-1

CHAPTER 11 ENERGY EFFICIENCY 11-1

PART 1—ENERGY CONSERVATION 11-1

Section

N1101 Scope 11-1
N1102 Definitions 11-3
N1103 Alternative Systems 11-5
N1104 Exterior Envelope Requirements 11-5
N1105 Heating, Ventilating and Air-conditioning
Systems 11-10
N1106 Piping Insulation 11-11
N1107 Lighting and Power 11-12
N1108 Plumbing Fixture Efficiency 11-12

**PART 2—ALTERNATIVE
SYSTEMS ANALYSIS 11-12**

NA1109 Energy Rating Index (ERI) Compliance ... 11-12

PART 3—FENESTRATION STANDARD 11-13

NF1110 Scope 11-13
NF1111 Alterations 11-13
NF1112 Definitions 11-13
NF1113 Insulating Glass Certification 11-14
NF1114 Window Thermal Performance Designation
for New Buildings and Additions 11-14

	NF1115 Thermal Performance Labeling	11-14		CHAPTER 15 EXHAUST SYSTEMS	15-1
	NF1116 Air Leakage Requirements	11-15		Section	
	<i>Part V—Mechanical</i>	<i>12-1</i>		M1501 General	15-1
	CHAPTER 12 MECHANICAL			M1502 Clothes Dryer Exhaust	15-1
	ADMINISTRATION	12-1		M1503 Domestic Cooking Exhaust Equipment	15-2
	Section			M1504 Exhaust Ducts and Exhaust Openings	15-3
	M1201 General	12-1		M1505 Mechanical Ventilation	15-4
	M1202 Existing Mechanical Systems	12-1		CHAPTER 16 DUCT SYSTEMS	16-1
	CHAPTER 13 GENERAL MECHANICAL			Section	
	SYSTEM REQUIREMENTS	13-1		M1601 Duct Construction	16-1
	Section			M1602 Return Air	16-4
	M1301 General	13-1		M1603 Smoke and Fire Damper	16-4
	M1302 Approval	13-1		CHAPTER 17 COMBUSTION AIR	17-1
	M1303 Labeling of Appliances	13-1		Section	
	M1304 Type of Fuel	13-1		M1701 General	17-1
	M1305 Appliance Access	13-1		CHAPTER 18 CHIMNEYS AND VENTS	18-1
	M1306 Clearances from Combustible Construction	13-2		Section	
	M1307 Appliance Installation	13-3		M1801 General	18-1
	M1308 Mechanical Systems Installation	13-7		M1802 Vent Components	18-2
	M1309 Piping Support	13-7		M1803 Chimney and Vent Connectors	18-2
	CHAPTER 14 HEATING AND COOLING			M1804 Vents	18-3
	EQUIPMENT AND			M1805 Masonry and Factory-built Chimneys	18-4
	APPLIANCES	14-1		CHAPTER 19 SPECIAL APPLIANCES,	
	Section			EQUIPMENT AND SYSTEMS	19-1
	M1401 General	14-1		Section	
	M1402 Central Furnaces	14-1		M1901 Ranges and Ovens	19-1
	M1403 Heat Pump Equipment	14-1		M1902 Sauna Heaters	19-1
	M1404 Refrigeration Cooling Equipment	14-1		M1903 Engine and Gas Turbine-powered	
	M1405 Baseboard Convectors	14-1		Equipment	19-1
	M1406 Radiant Heating Systems	14-1		M1904 Small Ceramic Kilns	19-1
	M1407 Duct Heaters	14-2		M1905 Stationary Fuel Cell Power Plants	19-2
	M1408 Vented Floor Furnaces	14-2		M1906 Gaseous Hydrogen Systems	19-2
	M1409 Vented Wall Furnaces	14-3		CHAPTER 20 BOILERS AND	
	M1410 Vented Room Heaters	14-3		WATER HEATERS	20-1
	M1411 Heating and Cooling Equipment	14-3		Section	
	M1412 Absorption Cooling Equipment	14-5		M2001 Boilers	20-1
	M1413 Evaporative Cooling Equipment	14-5		M2002 Operating and Safety Controls	20-1
	M1414 Fireplace Stoves	14-5		M2003 Expansion Tanks	20-1
	M1415 Masonry Heaters	14-5		M2004 Water Heaters Used for Space Heating	20-2
				M2005 Water Heaters	20-2
				M2006 Pool Heaters	20-2

TABLE OF CONTENTS

CHAPTER 21 HYDRONIC PIPING 21-1

Section

M2101 Hydronic Piping Systems Installation 21-1
M2102 Baseboard Convectors 21-4
M2103 Floor Heating Systems 21-4
M2104 Low Temperature Piping 21-5
M2105 Ground-Source Heat-Pump System
 Loop Piping 21-5

CHAPTER 22 SPECIAL PIPING AND STORAGE SYSTEMS 22-1

Section

M2201 Oil Tanks 22-1
M2202 Oil Piping, Fitting and Connections 22-1
M2203 Installation 22-1
M2204 Oil Pumps and Valves 22-1

CHAPTER 23 SOLAR THERMAL ENERGY SYSTEMS 23-1

Section

M2301 Solar Thermal Energy Systems 23-1
M2302 Photovoltaic Systems 23-2

Part VI—Fuel Gas 24-1

CHAPTER 24 FUEL GAS 24-1

Section

G2401 General 24-1
G2402 General 24-1
G2403 General Definitions 24-1
G2404 General 24-7
G2405 Structural Safety 24-7
G2406 Appliance Location 24-7
G2407 Combustion, Ventilation and Dilution Air 24-8
G2408 Installation 24-12
G2409 Clearance Reduction 24-12
G2410 Electrical 24-16
G2411 Electrical Bonding 24-16
G2412 General 24-16
G2413 Pipe Sizing 24-16
G2414 Piping Materials 24-39
G2415 Piping System Installation 24-40
G2416 Piping Bends and Changes in Direction 24-43
G2417 Inspection, Testing and Purging 24-43
G2418 Piping Support 24-44

G2419 Drips and Sloped Piping 24-44
G2420 Shutoff Valves 24-45
G2421 Flow Controls 24-45
G2422 Appliance Connections 24-46
G2423 Compressed Natural Gas Motor
 Vehicle Fuel-dispensing Facilities 24-47
G2424 Piping Support Intervals 24-47
G2425 General 24-47
G2426 Vents 24-49
G2427 Venting of Appliances 24-49
G2428 Sizing of Category I Appliance
 Venting Systems 24-58
G2429 Direct-vent, Integral Vent, Mechanical Vent
 and Ventilation/Exhaust Hood Venting 24-69
G2430 Factory-built Chimneys 24-69
G2431 General 24-70
G2432 Decorative Appliances
 for Installation in Fireplaces 24-70
G2433 Log Lighters 24-70
G2434 Vented Gas Fireplaces
 (Decorative Appliances) 24-70
G2435 Vented Gas Fireplace Heaters 24-70
G2436 Vented Wall Furnaces 24-70
G2437 Floor Furnaces 24-70
G2438 Clothes Dryers 24-71
G2439 Reserved 24-71
G2440 Sauna Heaters 24-71
G2441 Pool and Spa Heaters 24-71
G2442 Forced-air Warm-air Furnaces 24-71
G2443 Conversion Burners 24-72
G2444 Unit Heaters 24-72
G2445 Unvented Room Heaters 24-73
G2446 Vented Room Heaters 24-73
G2447 Cooking Appliances 24-73
G2448 Water Heaters 24-73
G2449 Air-conditioning Appliances 24-74
G2450 Illuminating Appliances 24-74
G2451 Infrared Radiant Heaters 24-74
G2452 Reserved 24-74
G2453 Outdoor Decorative Appliances 24-74

**CHAPTERS 25–33
RESIDENTIAL PLUMBING 25-1**

**CHAPTERS 34–42
RESIDENTIAL ELECTRICAL 34-1**

CHAPTER 43 LOW-RISE APARTMENTS	43-1	APPENDIX AI PRIVATE SEWAGE DISPOSAL	AI-1
<i>Part IX—Referenced Standards</i>	44-1	APPENDIX AJ EXISTING BUILDINGS AND STRUCTURES	AJ-1
CHAPTER 44 REFERENCED STANDARDS	44-1	APPENDIX AK SOUND TRANSMISSION	AK-1
APPENDIX AA SIZING AND CAPACITIES OF GAS PIPING	AA-1	Section	
APPENDIX AB SIZING OF VENTING SYSTEMS SERVING APPLIANCES EQUIPPED WITH DRAFT HOODS, CATEGORY I APPLIANCES, AND APPLIANCES LISTED FOR USE WITH TYPE B VENTS	AB-1	AK101 General	AK-1
APPENDIX AC RESERVED	AC-1	AK102 Airborne Sound	AK-1
APPENDIX AD RECOMMENDED PROCEDURE FOR SAFETY INSPECTION OF AN EXISTING APPLIANCE INSTALLATION	AD-1	AK103 Structural-borne Sound	AK-1
APPENDIX AE MANUFACTURED HOUSING USED AS DWELLINGS	AE-1	AK104 Referenced Standards	AK-1
Section		APPENDIX AL PERMIT FEES	AL-1
AE101 Anchorage Installations	AE-1	APPENDIX AM HOME DAY CARE—R-3 OCCUPANCY	AM-1
AE102 Ties, Materials and Installation	AE-1	APPENDIX AN VENTING METHODS	AN-1
APPENDIX AF RADON CONTROL METHODS	AF-1	APPENDIX AO AUTOMATIC VEHICULAR GATES	AO-1
Section		APPENDIX AP SIZING OF WATER PIPING SYSTEM	AP-1
AF101 Scope	AF-1	APPENDIX AQ TINY HOUSES	AQ-1
AF102 Definitions	AF-1	APPENDIX AR LIGHT STRAW-CLAY CONSTRUCTION	AR-1
AF103 Requirements	AF-1	Section	
APPENDIX AG PIPING STANDARDS FOR VARIOUS APPLICATIONS	AG-1	AR101 General	AR-1
APPENDIX AH DECK, PATIO OR PORCH COVERS	AH-1	AR102 Definitions	AR-1
Section		AR103 Nonbearing Light Straw- Clay Construction	AR-1
AH101 General	AH-1	AR104 Thermal Performance	AR-4
AH102 Definition	AH-1	AR105 Referenced Standards	AR-4
AH103 Exterior Walls and Openings	AH-1	APPENDIX AS STRAWBALE CONSTRUCTION	AS-1
AH104 Height	AH-1	Section	
AH105 Structural Provisions	AH-1	AS101 General	AS-1
		AS102 Definitions	AS-1
		AS103 Bales	AS-3
		AS104 Finishes	AS-3
		AS105 Strawbale Walls—General	AS-5
		AS106 Strawbale Walls—Structural	AS-11

TABLE OF CONTENTS

AS107 Fire Resistance AS-16
AS108 Thermal Insulation AS-16
AS109 Referenced Standards. AS-16

**APPENDIX AT SOLAR-READY PROVISIONS—
DETACHED ONE- AND
TWO-FAMILY DWELLINGS
AND TOWNHOUSES. AT-1**

**APPENDIX AU COB CONSTRUCTION
(MONOLITHIC ADOBE) AU-1**

Section

AU101 General AU-1
AU102 Definitions AU-1
AU103 Materials, Mixing and Installation AU-2
AU104 Finishes. AU-3
AU105 Cob Walls—General AU-3
AU106 Cob Walls—Structural. AU-5
AU107 Cob Floors AU-9
AU108 Fire Resistance AU-9
AU109 Thermal Performance. AU-9
AU110 Referenced Standards. AU-16

APPENDIX AV BOARD OF APPEALS. AV-1

**APPENDIX AW 3D-PRINTED BUILDING
CONSTRUCTION AW-1**

Section

AW101 General AW-1
AW102 Definitions AW-1
AW103 Building Design AW-1
AW104 Building Construction AW-1
AW105 Special Inspections. AW-1
AW106 Referenced Standards. AW-2

**APPENDIX AX ZERO ENERGY RESIDENTIAL
BUILDING PROVISIONS. AX-1**

INDEX INDEX-1