
Adopted by Ord. No. 2016-718
Passed 09/21/2016, Effective 10/24/2016
IECC—RESIDENTIAL PROVISIONS

CHAPTER 1 (RE)
SCOPE AND ADMINISTRATION

R101.1 Title. This code shall be known as the International City of Houston Residential Energy Conservation Code, of [NAME OF JURISDICTION], and shall may be cited as such, and shall be. It is referred to herein as “this code.” The City of Houston Construction Code collectively includes this volume and certain other codes, pamphlets, specifications, and documents that are adopted in or by reference to the Adopting Ordinance, City of Houston Ordinance No.2015-1108.

R101.6 Appendices. Provisions in the appendices shall not apply unless specifically adopted. Appendix RB, including any amendments thereto adopted by this jurisdiction, is hereby adopted and shall be incorporated into and made part of this code.

R103.1 General. Construction documents, technical reports and other supporting data shall be submitted in one or more two sets with each application for a permit. The construction documents and technical reports shall be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed. Where special conditions exist, the code official is authorized to require necessary construction documents to be prepared by a registered design professional.

Exception: The code official is authorized to waive the requirements for construction documents or other supporting data if the code official determines they are not necessary to confirm compliance with this code.

R103.5 Retention of construction documents. One set of approved construction documents shall may be retained by the code official for a period of not less than 180 days from date of completion of the permitted work, or as required by state or local laws.

R107.1 Fees. Fees shall be as set forth in the Building Code. A permit shall not be issued until the fees prescribed in Section R107.2 have been paid, nor shall an amendment to a permit be released until the additional fee, if any, has been paid.

R107.3 Work commencing before permit issuance. Any person who commences any work before obtaining the necessary permits shall be subject to an additional investigation fee established by the code official that shall be in addition to the required permit fees. The investigation fee shall be equal to the amount of the permit fee required by the Building Code.

R108.2 Issuance. The stop work order shall be in writing and shall be given to the owner of the property involved, to the owner’s authorized 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 will be
permitted to resume.

At the time a stop work order is issued, the person performing the work and the permit
holder shall be given notice of a right to a hearing on the matter by the code official, who shall
deliver the notice to the persons performing the work, if present at the site, or otherwise
conspicuously post the notice at the site. Upon request, a hearing shall be held within three
business days unless the permit holder or person who was doing the work requests an
extension of time. Any stop work order that has been issued shall remain in effect pending any
hearing that has been requested unless the stop work order is withdrawn by the code official.

R109.1 General. The General Appeals Board, in accordance with the provisions of the
Building Code, shall in order to hear and decide appeals of orders, decisions or
determinations made by the code official relative to the application and interpretation of
this code, there be and is hereby created a board of appeals. The code official shall be an ex
officio member of said board but shall not have a vote on any matter before the board. The board of appeals shall be appointed by the governing
body and shall hold office at its pleasure. The board shall adopt rules of procedure for
conducting its business, and shall render all decisions and findings in writing to the
appellant with a duplicate copy to the code official.

R109.2 [Deleted]Limitations on authority. 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 an equally good or better form of
construction is proposed. The board shall not have authority to waive requirements of this
code.

R109.3 [Deleted]Qualifications. The board of appeals shall consist of members who are
qualified by experience and training and are not employees of the jurisdiction.

SECTION R110
HEARING PROCEDURES

R110.1 Hearing notices. Unless otherwise specifically provided, whenever notice is to be given
to any person concerning the right to a hearing, the notice may be given by personal delivery or
by certified mail, return receipt requested.

If notice is being given to a building owner or to a tenant therein and the code official is
unable to determine the name or address of such person after checking the building and the
applicable records of the jurisdiction's Department of Public Works and Engineering, the County
Appraisal District, the electrical utility company, the gas utility company, and the water utility
provider, notice shall be mailed to the billing addresses of the building as shown on the records
of the electrical company and the gas company and shall be posted on or in view of each
entrance to the building. Additionally, if any notice is mailed to a building owner or a building
tenant and is returned without delivery, notice shall be effective if posted on or in view of each
entrance to the building.

R110.2 Hearings. Except where otherwise specifically provided, all hearings held pursuant to
this code shall be conducted by the jurisdiction's Director of Public Works and Engineering or a
representative, who shall hereinafter be referred to as the "hearing official." The director shall
not designate any person to be a hearing official under this code who has taken any part in the
investigation of the matter that is the subject of the hearing or any person who directly supervised the investigation. The hearing official shall consider only the evidence presented at the hearing in rendering a decision. The decision of the hearing official shall be set forth in writing and shall be served on each party in the same manner as a notice of a right to a hearing.
CHAPTER 2 (RE)
DEFINITIONS

**R201.3 Terms defined in other codes.** Terms that are not defined in this code but are defined in the *International Building Code*, *International Fire Code*, *International Fuel Gas Code*, *Electrical Code*, *International Mechanical Code*, *International Plumbing Code* or the *International Residential Code* shall have the meanings ascribed to them in those codes.

**SECTION R202**
GENERAL DEFINITIONS

**BUILDING CODE.** The *City of Houston Building Code*, as adopted by this jurisdiction.

**CITY CODE.** The *Code of Ordinances, Houston, Texas*.

**CODE OFFICIAL.** The jurisdiction’s Director of Public Works and Engineering, or a duly authorized representative; also known as the building official.


**ELECTRICAL CODE.** The *National Electrical Code* promulgated by the National Fire Protection Association, as adopted by this jurisdiction, and the *City of Houston Electrical Code*.

**FIRE CODE.** The *City of Houston Fire Code*, as adopted by this jurisdiction.

**INTERNATIONAL BUILDING CODE.** The *City of Houston Building Code*, as adopted by this jurisdiction.

**INTERNATIONAL FIRE CODE.** The *City of Houston Fire Code*, as adopted by this jurisdiction.

**INTERNATIONAL FUEL GAS CODE.** The *City of Houston Plumbing Code*, as adopted by this jurisdiction.

**INTERNATIONAL MECHANICAL CODE.** The *City of Houston Mechanical Code*, as adopted by this jurisdiction.
**INTERNATIONAL PLUMBING CODE.** The *City of Houston Plumbing Code*, as adopted by this jurisdiction.

**INTERNATIONAL PROPERTY MAINTENANCE CODE.** Chapter 10 of the *City Code*, which includes the *Houston Building Standards Code*.

**INTERNATIONAL RESIDENTIAL CODE.** The *City of Houston Residential Code*, based on the International Residential Code for One- and Two-Family Dwellings, as adopted by the State of Texas in Subchapter G of Chapter 214 of the Texas Local Government Code, with amendments adopted by this jurisdiction.

**MECHANICAL CODE.** The *City of Houston Mechanical Code*, as adopted by this jurisdiction.

**PLUMBING CODE.** The *City of Houston Plumbing Code*, as adopted by this jurisdiction.

**RESIDENTIAL CODE.** The *City of Houston Residential Code*, based on the International Residential Code for One- and Two-Family Dwellings, as adopted by the State of Texas in Subchapter G of Chapter 214 of the Texas Local Government Code, including amendments adopted by this jurisdiction.

*{EDITORIAL NOTE: ALL OTHER PORTIONS OF SECTION 202 REMAIN AS SET FORTH IN THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE.}*
CHAPTER 3 (RE)
GENERAL REQUIREMENTS

R302.2 Exterior design conditions. When using the total building performance or ERI method of compliance, the criteria shall be as set forth in Table R302.2.

<table>
<thead>
<tr>
<th>CONDITION</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter, design dry-bulb ($E_F$)</td>
<td>28°F</td>
</tr>
<tr>
<td>Summer, design dry-bulb</td>
<td>96°F</td>
</tr>
<tr>
<td>Summer, design wet-bulb</td>
<td>80.5°F</td>
</tr>
<tr>
<td>Degree days heating (base 65)</td>
<td>1371</td>
</tr>
<tr>
<td>Degree days cooling (base 50)</td>
<td>7357</td>
</tr>
<tr>
<td>Climate zone</td>
<td>2A</td>
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</tbody>
</table>
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CHAPTER 4 (RE)
RESIDENTIAL ENERGY EFFICIENCY

R402.2.14 Air barrier requirement. Insulation (including but not limited to loose fill, spray applied cellular fiber insulation as well as other blanket and batts insulation) installed in assemblies 60 degrees or more from the horizontal must be in substantial contact with an air barrier on all sides.

Exception: Air impermeable insulation. Air impermeable insulation is defined as: A material having an air permeance equal to or less than 0.02 L/s-m² at 75 Pa pressure differential tested according to ASTM E2178 or E283.

R403.6 Mechanical ventilation (Mandatory). Where required by Section 303.4 of the Residential Code, the building shall be provided with ventilation that meets the requirements of the International Residential Code or International Mechanical Code, as applicable, or with other approved means of ventilation. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.

R406.4 ERI-based compliance. Compliance based on an ERI analysis requires that the rated design for climate zone 2 be shown to have an ERI less than or equal to the appropriate value listed in Table R406.4:

1. 65 or lower from September 1, 2016 to August 31, 2019;
2. 63 or lower from September 1, 2019, to August 31, 2022; and
3. 59 or lower on or after September 1, 2022;
when compared to the ERI reference design.

TABLE R406.4
MAXIMUM ENERGY RATING INDEX

<table>
<thead>
<tr>
<th>CLIMATE ZONE</th>
<th>ENERGY RATING INDEX</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>52</td>
</tr>
<tr>
<td>2</td>
<td>See Section R406.4, 52</td>
</tr>
<tr>
<td>3</td>
<td>51</td>
</tr>
<tr>
<td>4</td>
<td>54</td>
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<td>5</td>
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<td>53</td>
</tr>
<tr>
<td>8</td>
<td>53</td>
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</tbody>
</table>
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CHAPTER 5 (RE)
EXISTING BUILDINGS

R501.6 Historic buildings. No provision of this code relating to the construction, repair, alteration, restoration and movement of structures, and change of occupancy shall be mandatory for historic buildings provided a report has been submitted to the code official and signed by the owner, a registered design professional, or and a representative of the State Historic Preservation Office or the historic preservation authority having jurisdiction, demonstrating that compliance with that provision would threaten, degrade or destroy the historic form, fabric or function of the building.
APPENDIX RB
SOLAR-READY PROVISIONS—DETACHED ONE- AND TWO-FAMILY DWELLINGS, MULTIPLE SINGLE-FAMILY DWELLINGS (TOWNHOUSES)

RB103.6 Interconnection pathway. Construction documents shall indicate pathways for routing of conduit or plumbing from the solar-ready zone to the electrical service panel or service hot water system. Conduit not less than 1¼ inches shall be installed to provide a pathway from the electric panel to the underside of the roof sufficient to allow future installation of solar equipment.

Exception: New single family homes subject to discount in the building code based on valuation.