

IECC—RESIDENTIAL PROVISIONS

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

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

CITY FEE SCHEDULE. The schedule of fees charged by the city for various permits, licenses, authorizations and services, which schedule is maintained on the city's website.

CONSTRUCTION CODE. The City of Houston Construction Code, consisting of the Building Code, Electrical Code, Mechanical Code, Plumbing Code, Residential Code, Commercial Energy Conservation Code, and Residential Energy Conservation Code.

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.

ENERGY CONSERVATION CODE. The City of Houston Residential Energy Conservation Code or the City of Houston Commercial Energy Conservation Code, both based on the International Energy Conservation Code, as adopted by the State of Texas, or on an alternate code that has been determined to be more stringent than the International Energy Conservation Code, as provided in Chapter 388 of the Texas Health & Safety Code, both as adopted and amended by this jurisdiction.

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

INTERNATIONAL ENERGY CONSERVATION CODE. The City of Houston Residential Energy Conservation Code or the City of Houston Commercial Energy Conservation Code, both based on the International Energy Conservation Code, as adopted by the State of Texas, or on an alternate code that has been determined to be more stringent than the International Energy Conservation Code, as provided in Chapter 388 of the Texas Health & Safety Code, both as adopted and amended 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.

SIGN CODE. The Houston Sign Code, Chapter 46 of this code, which is published as a separate document.

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 302.2.

Table R302.2
Exterior Design Conditions.

<u>Condition</u>	<u>Value</u>
<u>Winter, Design Dry-bulb(E_f)</u>	<u>28 F</u>
<u>Summer, Design Dry Bulb</u>	<u>96 F</u>
<u>Summer, Design Wet-bulb</u>	<u>80.5</u>
<u>Degree days heating</u>	<u>1371</u>
<u>Degree days cooling</u>	<u>7357</u>
<u>Climate Zone</u>	<u>2A</u>

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 the City of Houston Residential Code section 303.4, 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* be shown to have an ERI less than or equal to the appropriate values listed in [Table R406.4 House Bill 1736](#) when compared to the *ERI reference design*. The values are as follows for climate zone 2:

- A) 65 or lower from September 1, 2016 to August 31, 2019;
- B) 63 or lower from September 1, 2019, to August 31, 2022;
- C) 59 or lower on or after September 1, 2022.

TABLE R406.4
MAXIMUM ENERGY RATING INDEX
CLIMATE ZONE ENERGY RATING INDEX

1	52
2	<u>See Section 406.4</u>
3	51
4	54
5	55
6	54
7	53
8	53

CHAPTER 5 [RE]

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)

Editorial Note: Appendix RB to be adopted in its entirety with the following amendment:

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 1 ¼ 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.~~