

A Closer Look Inspection Service

2009 IECC Residential DFW area handout

101.4 Does the 2009 IECC apply?

101.4.2 Historic Exemption

101.4.3 Applicable Property New Construction - Remodel - Finishout - Addition

101.4.4 A Change in Occupancy

101.4.5 A Change in space conditioning

303 Material Identification

303.1.1.1 Attic insulation depth marker every 300 sqft for blown in insulation

303.1.3 Fenestration product rating on every window with U – factor and SHGC

303.2 Insulation installation to manufacturer’s instructions and IBC

400 Residential buildings

401.3 Certificate posted on /in electrical panel with system R or U values of system components, SHGC and mechanical efficiencies

402.1.1 Prescriptive requirements for assembly components

Fenestration	U – Factor	≤ 0.50
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Skylight	U – Factor	≤ 0.65
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Solar Heat Gain Coefficient	SHGC value	≤ 0.30
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Ceiling	R – value	R - 30
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Walls	R – value	R - 13
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Floors	R – value	R - 19
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Crawlspace / Basement	R value	R – 5 continuous R – 13 batt
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402.2.3 Access hatches and Doors weather stripped and insulated to attic value

402.3 Fenestration exemptions

402.3.3 Glazed fenestration exemption – one side hinged door up to 15 sqft

402.3.4 Opaque door exemption – one side hinged door up to 24 sqft

402.3.6 Glass replacement only exemption

402.4.1 Building Thermal Envelope durably sealed to limit infiltration

Caulked, gasketed or weather stripped on all;

Wall top plate penetrations sealed on all walls

Seal bottom plate to foundation / vertical wall intersections on exterior walls

Seal around Windows & Doors & all Building envelope penetrations

Seal or gasket Doors / Windows / Fixtures / Junction boxes for outlets & switches

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402.4.2 Air sealing and insulation inspection

See Table 402.4.2 for component list

402.4.2.1 Testing Option

Blower door test performed @ 50 pascals 7 ACH max **OR**

402.4.2.2 Visual inspection Option

Onsite inspections after insulation installed (Floors / Walls / Attic)
& before insulation covered by sheetrock (Walls)

402.4.3 Fireplaces Gasketed doors & outdoor combustion air required

402.4.4 Fenestration air leakage

Windows, skylights & sliding glass doors < 0.3 cfm/sqft
Swinging doors < 0.50 cfm/sqft

402.4.5 Recessed Lights IC rated & Air tight (<2 cfm @ 75 Pa)

403 Systems

403.1.1 Programmable thermostat - 1 per dwelling required

403.2.1 Duct Insulation

Unconditioned attic **R - 8 supply** & R - 6 return

403.2.2 Duct sealing to made substantially airtight by means of tapes, mastics, liquid sealants, gasketing or other approved closure systems

Duct tightness verification required (@ 25 Pa)

1. Post construction test ≤ 12 cfm / 100 sqft of conditioned area with all registers taped closed
2. Rough-in test ≤ 6 cfm / 100 sqft of conditioned area with all registers taped closed or 4 cfm / sqft if no air handler installed

403.2.3 Building cavities may not be used as supply ducts

403.3 Mechanical system piping requires R - 3 insulation if carrying fluids above 105° or below 55°

403.4 Circulating hot water piping requires R - 2 insulation on hot supply and return piping. Also requires automatic switch or readily accessible switch to control system

403.6 Manual J calculations required for HVAC system sizing

404.1 Lighting Requirement 50% of lamps are high efficacy lamps (CFL)