

A Closer Look Inspection Service

2012 IECC Residential DFW area handout

101.4 Does the 2012 IECC even apply?

- 101.4.2 Historic Exemption
- 101.4.3 Applicable to New Construction/ Remodel/ Finish out/ Addition
- 101.4.4 A Change in Occupancy
- 101.4.5 A Change in space conditioning

303.1.1.1 Spray or blown Attic insulation depth marker every 300 sqft

303.1.3 Fenestration product rating chart on every window with U - factor, SHGC and Visible Transmission

303.2 Insulation installation to manufacturer's instructions and IBC

401.3(M) Certificate posted in electrical panel with system R or U values of system components, SHGC and mechanical efficiencies

402.1.1 (P) Prescriptive requirements for assembly components

Fenestration	U - Factor	.50	≤ 0.35
Skylight	U - Factor	.65	≤ 0.55
Solar Heat Gain Coefficient	SHGC value	.30	≤ 0.25
Ceiling	R - value	30	R - 38
Walls	R - value	13	R - 20 or 13 + 5 ci
Floors	R - value	R - 19	
Crawlspace / Basement	R value	R - 5 ci	R - 13 batt

402.2 (P) Prescriptive Insulation requirements

402.2.1 Insulation reductions in limited attic areas & no attic areas

402.2.3 Eave baffle requirement for permeable insulations

402.2.4 Access hatches and Doors weather stripped and insulated to attic value

402.2.6 Steel Framing Insulation Values

402.2.12 Sun room exemptions

402.3 (P) Fenestration Exemptions

402.3.2 Weighted area averages

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 (M) Building Thermal Envelope sealed to limit infiltration

402.4.1.1 Table of areas to seal using caulked, gasketed or weather strip; and continuous air barrier requirement

402.4.1.1 Seal Building Thermal Envelope penetrations

1. Wall top plate penetrations sealed on all walls
2. Exterior walls
 - a) Seal bottom plate to foundation / vertical wall intersections
 - b) Seal around Windows & Doors & all Building envelope penetrations
 - c) Seal exterior wall Junction boxes, light fixtures and HVAC registers

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402.4.1.2 Air Leakage Testing

- Blower door test performed @ 50 pascals to find Air Changes per Hour (ACH)
 - 5 ACH zone 1-2
 - 3 ACH zones 3-8
 - Specific Testing procedure

402.4.2 Fireplaces ~~Gasketed doors & outdoor combustion air~~ Required tight fitting damper

402.4.3 Fenestration air leakage

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

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

Seal building envelope penetration using gasket or caulk

403.1.1 Programmable thermostat - 1 per dwelling required

403.2.1 Duct Insulation if in 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)

- Post construction test $\leq \textcircled{4} 4 \text{ cfm}$ / 100 Sqft of conditioned area with all registers taped closed
- Rough-in test $\leq \textcircled{6} 4 \text{ cfm}$ / 100 Sqft of conditioned area with all registers taped closed
- No Air handler test $\leq \textcircled{4} 3 \text{ cfm}$ / Sqft if no air handler installed

403.2.3(M) 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 .1 (M) Circulating hot water piping requires automatic switch or readily accessible switch to control system

403.4.2 Circulating hot water piping requires R - $\textcircled{2}$ 3 insulation on hot supply and return piping, or meet Max Run list requirements

403.5 (M) Vent fan efficiency chart

403.6 (M) Manual S or J calculations required for HVAC system sizing

404.1 Lighting Requirement 50% 75% of lamps are high efficacy lamps

Lamp or fixture calculation method options

Fuel gas lamp pilots shall not have continuous pilot