

Town of Parker

(The process begins)

- Amended table R703.4 of the 2003 IRC to require a weather resistive barrier behind all exterior coverings. Adopted January 1, 2004.
- Provided training from industry experts on proper flashing techniques, insulation installation and HVAC design
- Inspect the expectations set by the industry

Parker Memo to builders September 1, 2004

As of September 1, 2005 the following must be met or permits will not be issued

1. A Manual J (8th Edition) must be completed for each model.
2. All models must have a mechanical plan showing furnace size and location along with duct size and location.
3. All models must provide testing to verify that the systems work as designed. Once a model has passed it can be built with out further testing.

Parker Memo to builders September 1, 2004

Required testing

- Duct leakage at rough (Max. 10% of design flow for ductwork inside the building envelope and 5% of design flow for ductwork outside the building envelope)
- Static pressures at rough (Total static should not be more than the manufactures listing). Add supply, return, AC coil and filter for total static pressure
- Total system flow on cooling speed at rough (At first it would be advisable to do room to room flows at rough)

Parker Memo to builders September 1, 2004

Required testing

- Static pressure at final (Total static should not be more than the manufactures listing. Add supply, return, AC coil and filter for total static pressure)
- Total flow ($\pm 5\%$ of design) and room to room flows ($\pm 20\%$ of design) at final
- Those builders who, introduce outside air into the system (air cyclers) and or have a structural floor exhaust fan, should measure these flows to determine if they are performing as designed.
- Room to Room pressures are not to exceed $\pm 3\text{pa}$ (Pascal)

Home Energy Ratings

2006

	ACH	Rating Scale		Duct Leakage	Conditioned Area
		New	Old		
Standard Pacific	0.17	72		149 CFM	4026 sq.ft.
Continental	0.13	85	87.3	168 CFM	3132 sq.ft.
Village Homes	0.21		86.3	44 CFM	3760 sq.ft.
Melody Homes	0.22		86	100 CFM	4975 sq.ft.
Richmond	0.17		87.8	102 CFM	3220 sq.ft.
Ryland	0.34		84	150 CFM	3639 sq.ft.

Residential Energy Efficiency Compliance

2006 IECC

Builders have three choices for compliance

1. Prescriptive; Sections 402.1 through 402.3
2. Total UA ; Section 402.1.4
3. Performance; Section 404 (Not in IRC)

2006 IRC Chapter 11

N1101.2 Compliance.

Compliance shall be demonstrated by either meeting the requirements of the *International Energy Conservation Code* or meeting the requirements of this chapter.

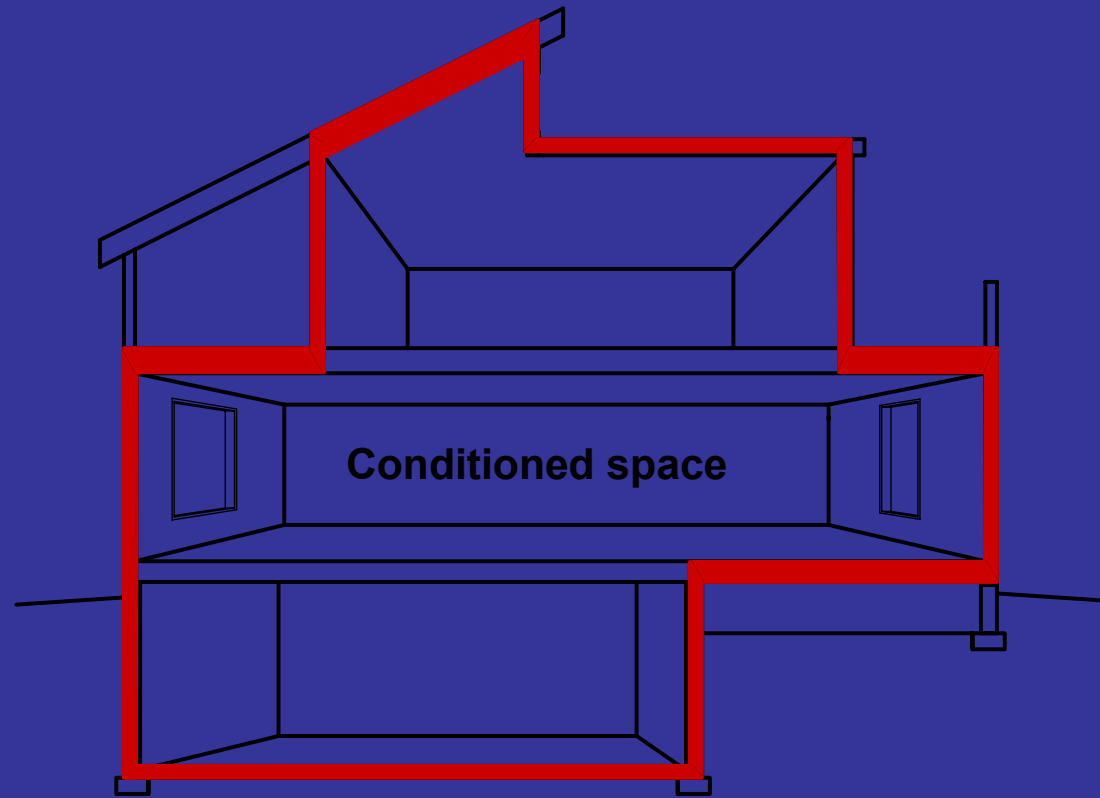
Climate zones from Figure N1101.2 or Table N1101.2 shall be used in determining the applicable requirements from this chapter.

Chapter 4 2006 IECC

(Mandatory Requirements)

Section 402.4.1

- Building Envelope consists of:
 - Fenestration
 - Ceilings
 - Walls
 - Above grade
 - Below grade
 - Mass walls
 - Floors
 - Slab
 - Crawl space



2006 IRC Section N1102.4.1

Home Energy Ratings

2007

	ACH	Rating Scale		Duct Leakage	Conditioned
		New	Old	To Outside	Area
Builder 1	0.06	75		20 CFM	4643 sq.ft.
Builder 1	0.13	81		88 CFM	4593 sq.ft.
Builder 1	0.13	78		10 CFM	3778 sq.ft.
Builder 2	0.16	74		25 CFM	4108 sq.ft.
Builder 2	0.08	70		39 CFM	3930 sq.ft.
Builder 2	0.13	77		70 CFM	3141 sq.ft.