

City of Phoenix
 Development Services Department
Trade-off Options for R-8 Duct Insulation
AC, Insulation and Fenestration Requirements by Component ^(a)
(CMOD 060366)
For all new residential permit applications filed after July 4, 2006

Climate Zone 2	SEER Rating	Duct Insulation (R-Value)		Fenestration (c)		Insulation R-Value	
		Unconditioned Space	Floor Trusses (d)	U Factor	SHGC	Wall Cavity	Ceiling
IECC (b) Requirement	13	8	6	.75	.40	13	30
Option A	14	6	6	.75	.40	13	30
Option B	13	6	6	.64	.35	13	30
Option C	13	6	6	.75	.40	19	30
Option D	National energy efficiency programs such as Energy Star, Energy Star Plus, Engineered for Life. And Environments for Living, shall be deemed as meeting the requirements for energy compliance. Other methods shall be approved by the Building Official through modification, as stated in Section 404.4 of the 2004 IECC.						
Option E	13	6	6	Any other combination of fenestration and insulation R-Values where the annual energy cost is less than or equal to the annual energy cost of the IECC Requirement. (See IECC Section 404)			

- a. R-values are minimums. U-factors and SHGC are maximums. R-19 shall be permitted to be compressed into a 2x6 cavity.
- b. From Table 402.1 in the 2004 IECC Supplement and Table 402.1.1 in the 2006 IECC.
- c. The fenestration U-factor column includes skylights. The SHGC column applies to all glazed fenestration.
- d. Per the Exception to 403.2.1 uninsulated ducts are permitted when they are located completely inside the building envelope.

Application to existing approved standard plans

- Plot plan applications must include which option will be utilized. City will note option on permit to be posted on site
- Options D & E require energy calculations attached to city approved field set of plans