



BUILDING INSPECTION DEPARTMENT

970 668-3170
fax 970 668-4255
Inspection Request Line 970 668-5959

Post Office Box 5660
0037 Peak One Drive CR 1005
Frisco, Colorado 80443

MEMO

TO: Sustainable Building Working Group
FROM: Larry Renfro
SUBJECT: Sustainable Building Ordinance—IECC 2006 Comparison
DATE: For 12-13-07 Meeting

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The scope of the International Energy Conservation Code applies to residential and commercial buildings, additions, alterations and renovations to existing buildings.

The residential chapter of the IECC utilizes both prescriptive and mandatory measures. It also provides a Simulated Performance Alternative by establishing criteria for compliance using an energy performance analysis.

Following is a comparison of R and U values between the proposed Sustainable Building Ordinance and International Energy Conservation Code 2006 edition, by building component as they apply to residential construction.

|                       | Sustainable Ordinance | IECC  |
|-----------------------|-----------------------|-------|
| Exterior wall         | R-19                  | R-21  |
| Roof Ceiling          | R-38                  | R-49  |
| Basement Wall         | Same                  |       |
| Crawl Space Wall      | Same                  |       |
| Under Slab Insulation | Same                  |       |
| Floor                 | Same                  |       |
| Cantilever Floor      | Same                  |       |
| Glazed Windows        | U .40                 | U .35 |
| Glazed Doors          | U .40                 | U .35 |
| Skylights             | U .50                 | U .60 |

Commercial buildings shall meet both prescriptive and mandatory requirements for the Building Envelope, Building Mechanical Systems, Service Water Heating and Lighting. Each shall be satisfied on an individual basis.