

Real Life Tax Credits

Small Houses vs. Large Houses

Presented By
Robby Schwarz





Details

- 50% less energy use than a home built to the 2004 IECC
 - The 50% divided into two parts
 - 20% of the 50% is Envelope Loads which only need to beat the 2004 IECC by 10%
 - The remainder is Normalized Energy Consumption
- Energy use is restricted to heating and cooling energy use
- Based on analysis and testing performed by Energy Raters



Normalized Energy Calc

- Currently two methods allowed by IRS
 - Normalized Consumption
 - Normalized, Modified End-Use Loads.
- “These are both attempts to determine the overall performance of the home in a fuel-neutral manner w/o using the dreaded words "site" or "source.” Dave Roberts
 - There is a toggle on the Options menu in Rem Rate for changing between the two methods.
- “I explain the nMUEL like this: The metric considers the performance of the shell, and the efficiency of the mechanical equipment relative to all available equipment of the same type.” Dave Roberts

In Practice

- Shell and mechanical equipment driven
 - Excellent insulation
 - High efficiency mechanical equipment
- Window to wall ratio important
- Airtightness is key
- Mechanical ventilation
- Heating loads and cooling loads
- No guessing on our part!

Small Houses and the Tax Credit





Small House on Conditioned Crawl

HERS Index 69 (Fails TC)

- 1399 SqFt 18124 Volume
- Window to wall ratio 0.146
- Crawl foundation wall R-19
- Rim & Box sill R-19
- AGW 2x4 R-15 + R5 FB / Wall to Garage R-15
- Windows Low E .35 / .28
- Doors Front insulated R6.6 / to Garage 2.10
- Attic Flat and Open Vault R-40
- 92.1 AFUE / 13 SEER / 0.82 EF Tankless
- Duct Leakage to outside 51 CFM
- Infiltration 915 CFM@50 / 0.14 NACH / ACH@50 3.03
- Ventilation 45 CFM on 1/3 Duty Cycle



2005 EPACT ENERGY EFFICIENT HOME TAX CREDIT

| | | | |
|-----------------|---|---------------|--------------------------------|
| Date: | February 18, 2007 | Rating No.: | 10078 |
| Building Name: | Builder Joe | Rating Org.: | EnergyLogic, Inc. |
| Owner's Name: | Builder Joe | Phone No.: | 1.800.315.0459 or 970.532.3220 |
| Property: | 3809 Higgins St | Rater's Name: | S Doyle |
| Address: | Loveland, CO 80538 | Rater's No.: | 010 |
| Builder's Name: | Aspen Homes of Colorado | | |
| Weather Site: | Loveland, CO | Rating Type: | Site Visit |
| File Name: | 3809 Higgins St- Aspen Ash Full Crawl.blg | Rating Date: | 09/19/06 |

Normalized Energy Consumption (MMBtu/year)

| | 2004 IECC 50% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 24.2 | 29.1 |
| Cooling: | 1.9 | 2.0 |
| Total: | 26.2 | 31.1 |

Envelope Loads (MMBtu/year)

| | 2004 IECC 90% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 26.5 | 27.4 |
| Cooling: | 9.9 | 6.1 |
| Total: | 36.4 | 33.8 |

This home DOES NOT meet the requirements for the residential energy efficiency tax credits under Section 1332, Credit for Construction of New Energy Efficient Homes, of the Energy Policy Act of 2005.

Building Shell Features

| | | | |
|------------------|------|-------|-------------|
| Ceiling Flat: | R-40 | Slab: | None |
| Vaulted Ceiling: | R-40 | Duct: | Uninsulated |

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Small House with Full Crawl

HERS Index 65 (Passes TC)

- 1399 SqFt 18124 Volume
- Window to wall ratio 0.146
- Crawl foundation wall R-19
- Under Slab Insulation R-10
- Rim R-35 & Box sill R-19
- AGW 2x4 R-15 + R10 FB / Wall to Garage R-15
- Windows Low E .30 / .30
- Doors Front insulated R6.6 / to Garage 6.6
- Attic Flat and Open Vault R-49
- 93 AFUE / 13 SEER / 0.82 EF Tankless
- Duct Leakage to outside 51 CFM
- Infiltration 915 CFM@50 / 0.14 NACH / ACH@50 3.03
- Ventilation 45 CFM on 1/3 Duty Cycle



2005 EPACT ENERGY EFFICIENT HOME TAX CREDIT

| | | | |
|-----------------|--|---------------|--------------------------------|
| Date: | February 20, 2007 | Rating No.: | 10078 |
| Building Name: | Builder Joe | Rating Org.: | EnergyLogic, Inc. |
| Owner's Name: | Builder Joe | Phone No.: | 1.800.315.0459 or 970.532.3220 |
| Property: | 3809 Higgins St | Rater's Name: | S Doyle |
| Address: | Loveland, CO 80538 | Rater's No.: | 010 |
| Builder's Name: | Aspen Homes of Colorado | | |
| Weather Site: | Loveland, CO | Rating Type: | Site Visit |
| File Name: | Tax Credit 3809 Higgins St- Aspen Ash Full C | Rating Date: | 09/19/06 |

Normalized Energy Consumption (MMBtu/year)

| | 2004 IECC 50% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 28.2 | 27.2 |
| Cooling: | 1.7 | 1.8 |
| Total: | 29.8 | 29.0 |

Envelope Loads (MMBtu/year)

| | 2004 IECC 90% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 31.6 | 26.6 |
| Cooling: | 8.0 | 5.8 |
| Total: | 40.2 | 32.4 |

This home MEETS the requirements for the residential energy efficiency tax credits under Section 1232, Credit for Construction of New Energy Efficient Homes, of the Energy Policy Act of 2005.

Building Shell Features

| | | | |
|------------------|------|-------|--------------------------|
| Ceiling Flat: | R-52 | Slab: | R-0.0 Edge, R-10.0 Under |
| Vaulted Ceiling: | R-49 | Duct: | Uninsulated |

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Small House on Conditioned Basement

HERS Index 67 (Passes TC)

- 2798 SqFt / 23783 Volume
- Window to wall ratio 0.167
- Basement foundation wall R-19
- Under Basement Slab R-0
- Rim & Box sill R-19
- AGW 2x4 R-15 + R5 FB / Wall to Garage R-15
- AGW Windows Low E .35 / .28
- BGW DV .52 / .62
- Doors Front insulated R6.6 / to Garage 2.10
- Attic Flat and Open Vault R-40
- 92.1 AFUE / 13 SEER / 0.82 EF Tankless
- Duct Leakage to outside 51 CFM
- Infiltration 915 CFM@50 / 0.14 NACH / ACH@50 3.03
- Ventilation 45 CFM on 1/3 Duty Cycle



2005 EPACT ENERGY EFFICIENT HOME TAX CREDIT

| | | | |
|-----------------|--|---------------|--------------------------------|
| Date: | February 20, 2007 | Rating No.: | 10078 |
| Building Name: | Builder Joe | Rating Org.: | EnergyLogic, Inc. |
| Owner's Name: | Builder Joe | Phone No.: | 1.800.315.0459 or 970.532.3220 |
| Property: | 3809 Higgins St | Rater's Name: | S Doyle |
| Address: | Loveland, CO 80538 | Rater's No.: | 010 |
| Builder's Name: | Aspen Homes of Colorado | | |
| Weather Site: | Loveland, CO | Rating Type: | Site Visit |
| File Name: | Tax Credit 3809 Higgins St- Aspen Ash Full B | Rating Date: | 09/19/06 |

Normalized Energy Consumption (MMBtu/year)

| | 2004 IECC 50% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 36.0 | 33.7 |
| Cooling: | 2.9 | 2.6 |
| Total: | 38.8 | 36.3 |

Envelope Loads (MMBtu/year)

| | 2004 IECC 90% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 39.3 | 31.6 |
| Cooling: | 14.8 | 9.7 |
| Total: | 54.1 | 40.4 |

This home MEETS the requirements for the residential energy efficiency tax credits under Section 1332, Credit for Construction of New Energy Efficient Homes, of the Energy Policy Act of 2005.

Building Shell Features

| | | | |
|------------------|------|-------|-------------------------|
| Ceiling Flat: | R-40 | Slab: | R-0.0 Edge, R-0.0 Under |
| Vaulted Ceiling: | R-40 | Duct: | Uninsulated |

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Small House Basement

- Foundation to R-11 Fails
 - NEU 0.2 / Envelope Loads Pass
- No Foundation Insulation Fails
 - NEU 19.5 / Envelope Loads 5.9



Small House on Slab

HERS Index 71 (Fails TC)

- 1399 SqFt 11192 Volume
- Window to wall ratio 0.146
- Slab foundation wall R-0
- AGW 2x4 R-15 + R5 FB / Wall to Garage R-15
- Windows Low E .35 / .28
- Doors Front insulated R6.6 / to Garage 2.10
- Attic Flat and Open Vault R-40
- 92.1 AFUE / 13 SEER / 0.82 EF Tankless
- Duct Leakage to outside 51 CFM
- Infiltration 915 CFM@50 / 0.14 NACH / ACH@50 3.03
- Ventilation 45 CFM on 1/3 Duty Cycle



2005 EPACT ENERGY EFFICIENT HOME TAX CREDIT

| | | | |
|-----------------|---|---------------|--------------------------------|
| Date: | February 20, 2007 | Rating No.: | 10078 |
| Building Name: | Builder Joe | Rating Org.: | EnergyLogic, Inc. |
| Owner's Name: | Builder Joe | Phone No.: | 1.800.315.0459 or 970.532.3220 |
| Property: | 3809 Higgins St | Rater's Name: | S Doyle |
| Address: | Loveland, CO 80538 | Rater's No.: | 010 |
| Builder's Name: | Aspen Homes of Colorado | | |
| Weather Site: | Loveland, CO | Rating Type: | Site Visit |
| File Name: | Tax Credit 3809 Higgins St- Aspen Ash Full sh | Rating Date: | 09/19/06 |

Normalized Energy Consumption (MMBtu/year)

| | 2004 IECC 50% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 26.0 | 35.3 |
| Cooling: | 2.0 | 1.5 |
| Total: | 28.0 | 36.8 |

Envelope Loads (MMBtu/year)

| | 2004 IECC 90% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 28.5 | 33.3 |
| Cooling: | 18.1 | 5.0 |
| Total: | 38.6 | 38.3 |

This home DOES NOT meet the requirements for the residential energy efficiency tax credits under Section 1332, Credit for Construction of New Energy Efficient Homes, of the Energy Policy Act of 2005.

Building Shell Features

| | | | |
|------------------|------|-------|-------------------------|
| Ceiling Flat: | R-52 | Slab: | R-5.0 Edge, R-0.0 Under |
| Vaulted Ceiling: | R-49 | Duct: | Uninsulated |

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Small House with Full Slab

HERS Index 64 (Passes TC)

- 1399 SqFt 11192 Volume
- Window to wall ratio 0.146
- Under Slab Insulation R-10 Perimeter R-15
- Rim R-35 & Box sill R-19
- AGW 2x4 R-15 + R10 FB / Wall to Garage R-15
- Windows Low E .30 / .30
- Doors Front insulated R6.6 / to Garage 6.6
- Attic Flat and Open Vault R-49
- 93 AFUE / 13 SEER / 0.82 EF Tankless
- Duct Leakage to outside 51 CFM
- Infiltration 915 CFM@50 / 0.14 NACH / ACH@50 3.03
- Ventilation 45 CFM on 1/3 Duty Cycle



2005 EPACT ENERGY EFFICIENT HOME TAX CREDIT

| | | | |
|-----------------|---|---------------|--------------------------------|
| Date: | February 20, 2007 | Rating No.: | 10078 |
| Building Name: | Builder Joe | Rating Org.: | EnergyLogic, Inc. |
| Owner's Name: | Builder Joe | Phone No.: | 1.800.315.0459 or 970.532.3220 |
| Property: | 3809 Higgins St | Rater's Name: | S Doyle |
| Address: | Loveland, CO 80538 | Rater's No.: | 010 |
| Builder's Name: | Aspen Homes of Colorado | | |
| Weather Site: | Loveland, CO | Rating Type: | Site Visit |
| File Name: | Tax Credit 3809 Higgins St- Aspen Ash Full sh | Rating Date: | 09/19/06 |

Normalized Energy Consumption (MMBtu/year)

| | 2004 IECC 50% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 25.4 | 24.6 |
| Cooling: | 2.0 | 1.0 |
| Total: | 27.3 | 26.4 |

Envelope Loads (MMBtu/year)

| | 2004 IECC 90% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 28.5 | 24.0 |
| Cooling: | 18.1 | 8.0 |
| Total: | 38.6 | 30.0 |

This home MEETS the requirements for the residential energy efficiency tax credits under Section 1322, Credit for Construction of New Energy Efficient Homes, of the Energy Policy Act of 2005.

Building Shell Features

| | | | |
|------------------|------|-------|---------------------------|
| Ceiling Flat: | R-52 | Slab: | R-15.0 Edge, R-10.0 Under |
| Vaulted Ceiling: | R-49 | Duct: | Uninsulated |

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Large House and the Tax Credit



On RESNET's Web Site



House we are looking at



Large House Basement Crawl

HERS Index 62 (Passes TC)

- SqFt 3998 Volume 38254
- Window to wall ratio .251
- Basement and Crawl foundation wall R-11
- Slab Insulation R-0
- Cantilever R-43
- Rims and Box Sills R-19
- AGW and Wall to Garage R-20
- Knee Wall R-13
- Windows Low E .35 / .27
- Doors Front insulated R-5 / to Garage R-2.8
- Attic Flat and Open Vault R-38
- 92.1 AFUE / 13 SEER / 0.62 EF
- Duct Leakage to outside 239 CFM (Energy Star's 6 CFM/100sqft
- Infiltration 2100 CFM@50 / 0.20 NACH / ACH@50 3.29
- Ventilation 112 CFM on 1/3 Duty Cycle



2005 EPACT ENERGY EFFICIENT HOME TAX CREDIT

| | | | |
|-----------------|---------------------------------|---------------|-------------------|
| Date: | February 20, 2007 | Rating No.: | 10953 |
| Building Name: | McStainNeighborhoods | Rating Org.: | EnergyLogic, Inc. |
| Owner's Name: | McStain HomeBuyer | Phone No.: | 303-477-1020 |
| Property: | 10107 E 31st Ave | Rater's Name: | Todd Snizek |
| Address: | Denver, CO 80238 | Rater's No.: | #008 |
| Builder's Name: | McStain Neighborhoods | | |
| Weather Site: | Denver, CO | Rating Type: | Site Visit |
| File Name: | 10107 E 31 st Ave - Mcstain.blg | Rating Date: | 1/17/2007 |

Normalized Energy Consumption (MMBtu/year)

| | 2004 IECC 50% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 48.8 | 49.2 |
| Cooling: | 5.0 | 3.8 |
| Total: | 53.8 | 53.0 |

Envelope Loads (MMBtu/year)

| | 2004 IECC 90% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 53.6 | 43.9 |
| Cooling: | 25.8 | 12.5 |
| Total: | 79.3 | 56.5 |

This home MEETS the requirements for the residential energy efficiency tax credits under Section 1332, Credit for Construction of New Energy Efficient Homes, of the Energy Policy Act of 2005.

Building Shell Features

| | | | |
|------------------|------|-------|-------------------------|
| Ceiling Flat: | R-38 | Slab: | R-0.0 Edge, R-0.0 Under |
| Vaulted Ceiling: | R-38 | Duct: | Uninsulated |



Large House Conditioned Crawl

HERS Index 66 (Fails TC)

- SqFt 2799 Volume 32268
- Window to wall ratio .222
- Crawl foundation wall R-11
- Slab Insulation R-0
- Cantilever R-43
- Rims and Box Sills R-19
- AGW and Wall to Garage R-20
- Knee Wall R-13
- Windows Low E .35 / .27
- Doors Front insulated R-5 / to Garage R-2.8
- Attic Flat and Open Vault R-38
- 92.1 AFUE / 13 SEER / 0.62 EF
- Duct Leakage to outside 239 CFM (Energy Star's 6 CFM/100sqft
- Infiltration 2100 CFM@50 / 0.20 NACH / ACH@50 3.29
- Ventilation 112 CFM on 1/3 Duty Cycle



2005 EPACT ENERGY EFFICIENT HOME TAX CREDIT

| | | | |
|-----------------|------------------------------------|---------------|-------------------|
| Date: | February 21, 2007 | Rating No.: | 10953 |
| Building Name: | McStainNeighborhoods | Rating Org.: | EnergyLogic, Inc. |
| Owner's Name: | McStain HomeBuyer | Phone No.: | 303-477-1020 |
| Property: | 10107 E 31st Ave | Rater's Name: | Todd Snizek |
| Address: | Denver, CO 80238 | Rater's No.: | #008 |
| Builder's Name: | McStain Neighborhoods | Rating Type: | Site Visit |
| Weather Site: | Denver, CO | Rating Date: | 1/17/2007 |
| File Name: | 10107 E 31 st Ave - Base-Crawl.blg | | |

Normalized Energy Consumption (MMBtu/year)

| | 2004 IECC 50% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 42.1 | 50.7 |
| Cooling: | 2.0 | 2.9 |
| Total: | 46.0 | 53.6 |

Envelope Loads (MMBtu/year)

| | 2004 IECC 90% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 48.3 | 45.6 |
| Cooling: | 10.0 | 9.5 |
| Total: | 68.1 | 55.1 |

This home DOES NOT meet the requirements for the residential energy efficiency tax credits under Section 1332, Credit for Construction of New Energy Efficient Homes, of the Energy Policy Act of 2005.

Building Shell Features

| | | | |
|------------------|------|-------|-------------------------|
| Ceiling Flat: | R-38 | Slab: | R-0.0 Edge, R-0.0 Under |
| Vaulted Ceiling: | R-38 | Duct: | Uninsulated |

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2005 EPAct Tax Credit



Large House Conditioned Crawl HERS Index 66 (Passes TC)

- SqFt 2799 Volume 32268
- Window to wall ratio .222
- Crawl foundation wall R-19
- Slab Insulation R-0
- Cantilever R-43
- Rims and Box Sills R-19
- AGW and Wall to Garage R-20
- Knee Wall R-13
- Windows Low E .35 / .27
- Doors Front insulated R-5 / to Garage R-2.8
- Attic Flat and Open Vault R-38
- 92.1 AFUE / 13 SEER / 0.62 EF
- Duct Leakage to outside 111CFM (4 CFM/100sqft)
- Infiltration 1300 CFM@50 / 0.15 NACH / ACH@50 2.42
- Ventilation 112 CFM on 1/3 Duty Cycle



2005 EPACT ENERGY EFFICIENT HOME TAX CREDIT

| | | | |
|-----------------|-------------------------------|---------------|-------------------|
| Date: | February 21, 2007 | Rating No.: | 10953 |
| Building Name: | McStainNeighborhoods | Rating Org.: | EnergyLogic, Inc. |
| Owner's Name: | McStain HomeBuyer | Phone No.: | 303-477-1020 |
| Property: | 10107 E 31st Ave | Rater's Name: | Todd Snizek |
| Address: | Denver, CO 80238 | Rater's No.: | #008 |
| Builder's Name: | McStain Neighborhoods | | |
| Weather Site: | Denver, CO | Rating Type: | Site Visit |
| File Name: | 10107 E 31 st Ave - Crawl.blg | Rating Date: | 1/17/2007 |

Normalized Energy Consumption (MMBtu/year)

| | 2004 IECC 50% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 42.1 | 42.5 |
| Cooling: | 5.8 | 5.0 |
| Total: | 48.0 | 45.6 |

Envelope Loads (MMBtu/year)

| | 2004 IECC 90% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 48.3 | 39.3 |
| Cooling: | 15.8 | 10.0 |
| Total: | 66.1 | 49.3 |

This home MEETS the requirements for the residential energy efficiency tax credits under Section 4322, Credit for Construction of New Energy Efficient Homes, of the Energy Policy Act of 2005.

Building Shell Features

| | | | |
|------------------|------|-------|-------------------------|
| Ceiling Flat: | R-38 | Slab: | R-0.0 Edge, R-0.0 Under |
| Vaulted Ceiling: | R-38 | Duct: | Uninsulated |

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Large House on Slab

HERS Index 67 (Fails TC)

- SqFt 2799 Volume 25191
- Window to wall ratio .222
- Slab Insulation R-0
- Cantilever R-43
- Rims and Box Sills R-19
- AGW and Wall to Garage R-20
- Knee Wall R-13
- Windows Low E .35 / .27
- Doors Front insulated R-5 / to Garage R-2.8
- Attic Flat and Open Vault R-38
- 92.1 AFUE / 13 SEER / 0.62 EF
- Duct Leakage to outside 111CFM (4 CFM/100sqft
- Infiltration 1300 CFM@50 / 0.19 NACH / ACH@50 3.10
- Ventilation 112 CFM on 1/3 Duty Cycle



2005 EPACT ENERGY EFFICIENT HOME TAX CREDIT

| | | | |
|-----------------|------------------------------|---------------|-------------------|
| Date: | February 21, 2007 | Rating No.: | 10953 |
| Building Name: | McStainNeighborhoods | Rating Org.: | EnergyLogic, Inc. |
| Owner's Name: | McStain HomeBuyer | Phone No.: | 303-477-1020 |
| Property: | 10107 E 31st Ave | Rater's Name: | Todd Snizek |
| Address: | Denver, CO 80238 | Rater's No.: | #008 |
| Builder's Name: | McStain Neighborhoods | | |
| Weather Site: | Denver, CO | Rating Type: | Site Visit |
| File Name: | 10107 E 31 st Ave - slab.blg | Rating Date: | 1/17/2007 |

Normalized Energy Consumption (MMBtu/year)

| | 2004 IECC 50% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 38.4 | 47.7 |
| Cooling: | 4.2 | 2.9 |
| Total: | 42.6 | 50.6 |

Envelope Loads (MMBtu/year)

| | 2004 IECC 90% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 42.1 | 44.2 |
| Cooling: | 21.8 | 9.7 |
| Total: | 63.9 | 53.9 |

This home DOES NOT meet the requirements for the residential energy efficiency tax credits under Section 1332, Credit for Construction of New Energy Efficient Homes, of the Energy Policy Act of 2005.

Building Shell Features

| | | | |
|------------------|------|-------|-------------------------|
| Ceiling Flat: | R-38 | Slab: | R-0.0 Edge, R-0.0 Under |
| Vaulted Ceiling: | R-38 | Duct: | Uninsulated |

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2005 EPAct Tax Credit

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Large House on Slab

HERS Index 63 (Passes TC)

- SqFt 2799 Volume 25191
- Window to wall ratio .222
- Slab Insulation R-10 Perimeter R-5
- Cantilever R-43
- Rims and Box Sills R-19
- AGW and Wall to Garage R-20
- Knee Wall R-13
- Windows Low E .35 / .27
- Doors Front insulated R-5 / to Garage R-2.8
- Attic Flat and Open Vault R-38
- 92.1 AFUE / 13 SEER / 0.62 EF
- Duct Leakage to outside 111CFM (4 CFM/100sqft
- Infiltration 1300 CFM@50 / 0.19 NACH / ACH@50 3.10
- Ventilation 112 CFM on 1/3 Duty Cycle



2005 EPACT ENERGY EFFICIENT HOME TAX CREDIT

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| Date: | February 21, 2007 | Rating No.: | 10953 |
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| Property: | 10107 E 31st Ave | Rater's Name: | Todd Snizek |
| Address: | Denver, CO 80238 | Rater's No.: | #008 |
| Builder's Name: | McStain Neighborhoods | | |
| Weather Site: | Denver, CO | Rating Type: | Site Visit |
| File Name: | 10107 E 31 st Ave - slab.blg | Rating Date: | 1/17/2007 |

Normalized Energy Consumption (MMBtu/year)

| | 2004 IECC 50% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 38.3 | 38.9 |
| Cooling: | 4.2 | 3.2 |
| Total: | 42.5 | 42.1 |

Envelope Loads (MMBtu/year)

| | 2004 IECC 90% Target | As Designed |
|----------|-------------------------|-------------|
| Heating: | 42.0 | 35.8 |
| Cooling: | 21.8 | 13.8 |
| Total: | 63.8 | 49.6 |

This home MEETS the requirements for the residential energy efficiency tax credits under Section 1332, Credit for Construction of New Energy Efficient Homes, of the Energy Policy Act of 2005.

Building Shell Features

| | | | |
|------------------|------|-------|--------------------------|
| Ceiling Flat: | R-38 | Slab: | R-5.0 Edge, R-10.0 Under |
| Vaulted Ceiling: | R-38 | Duct: | Uninsulated |

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2005 EPAct Tax Credit

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Thank you