



REScheck Software Version 4.1.0  
**Compliance Certificate**

Project Title: RoundHouse LLC

Report Date: 07/17/07

Data filename: C:\DOCUME~1\Owner\Desktop\ROUNDH~1.RCK

Energy Code: **2006 IRC**  
 Location: **Slidell, Louisiana**  
 Construction Type: **Multifamily**  
 Glazing Area Percentage: **11%**  
 Heating Degree Days: **1674**  
 Climate Zone: **2**

Construction Site:  
 278 Lakeview Dr.  
 Slidell, LA 70458

Owner/Agent:  
 Phil Briant  
 Roundhouse LLC  
 5982 Cielo Circle  
 Sparks, NV 89436  
 775-824-3613

Designer/Contractor:  
 David Dammon  
 Dammon Engineering  
 1095 Florida Ave.  
 Slidell, LA 70458  
 985-649-5832  
 dammoneng@bellsouth.net

**Compliance: Passes**

Maximum UA: **2031** Your Home UA: **1764 = 13.1% Better Than Code**      Maximum SHGC: **0.40** Your SHGC: **0.21**

| Assembly   | Gross Area or Perimeter | Cavity R-Value | Cont. R-Value | Glazing or Door U-Factor | UA   |
|--|-------------------------|----------------|---------------|--------------------------|------|
| Ceiling 1: Cathedral Ceiling (no attic)  | 2049                    | 19.0           | 11.0          |                          | 68   |
| Wall 1: Wood Frame, 16" o.c.   | 2430                    | 19.0           | 11.0          |                          | 85   |
| Window 1: Metal Frame:Single Pane<br>SHGC: 0.21  | 125                     |                |               | 0.021                    | 3    |
| Door 1: Solid  | 87                      |                |               | 0.041                    | 4    |
| Door 2: Glass<br>SHGC: 0.21  | 134                     |                |               | 0.021                    | 3    |
| Floor 1: All-Wood Joist/Truss:Over Unconditioned Space   | 1975                    | 19.0           | 11.0          |                          | 61   |
| Crawl 1: Solid Concrete or Masonry<br>Wall height: 4.1'<br>Depth below grade: 0.0'<br>Insulation depth: 0.3'<br>Inside below-grade depth: 0.0' | 1975                    | 0.0            | 0.0           |                          | 1540 |

*Compliance Statement:* The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2006 IRC requirements in REScheck Version 4.1.0 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

\_\_\_\_\_  
 Name - Title

\_\_\_\_\_  
 Signature

\_\_\_\_\_  
 Date



# REScheck Software Version 4.1.0 Inspection Checklist

Date: 07/17/07

## Ceilings:

- Ceiling 1: Cathedral Ceiling (no attic), R-19.0 cavity + R-11.0 continuous insulation

Comments: \_\_\_\_\_

## Above-Grade Walls:

- Wall 1: Wood Frame, 16" o.c., R-19.0 cavity + R-11.0 continuous insulation

Comments: \_\_\_\_\_

## Windows:

- Window 1: Metal Frame:Single Pane, U-factor: 0.021

For windows without labeled U-factors, describe features:

#Panes \_\_\_\_ Frame Type \_\_\_\_\_ Thermal Break? \_\_\_\_ Yes \_\_\_\_ No

Comments: \_\_\_\_\_

Note: Up to 15 sq.ft. of glazed fenestration per dwelling is exempt from U-factor and SHGC requirements.

## Doors:

- Door 1: Solid, U-factor: 0.041

Comments: \_\_\_\_\_

- Door 2: Glass, U-factor: 0.021

Comments: \_\_\_\_\_

## Floors:

- Floor 1: All-Wood Joist/Truss:Over Unconditioned Space, R-19.0 cavity + R-11.0 continuous insulation

Comments: \_\_\_\_\_

Floor insulation is installed in permanent contact with the underside of the subfloor decking.

## Crawl Space Walls:

- Crawl 1: Solid Concrete or Masonry, 4.1' ht / 0.0' bg / 0.3' ext. insul / 0.0' inside bg depth, R-0 (uninsulated)

Comments: \_\_\_\_\_

Exposed earth in unvented crawl space foundations is covered with a continuous vapor retarder. All joints of the vapor retarder are overlapped by 6 inches and are sealed or taped with edges extending at least 6 inches up the stem wall and securely attached.

## Solar Heat Gain Coefficient:

- The area-weighted average Solar Heat Gain Coefficient (SHGC) of all glazing cannot exceed 0.4. SHGC values are determined in accordance with the NFRC test procedure or taken from the default table.

## Air Leakage:

- Joints, penetrations, and all other such openings in the building envelope that are sources of air leakage are sealed.
- Recessed lights are either 1) Type IC rated with enclosures sealed/gasketed against leaks to the ceiling, or 2) Type IC rated and ASTM E283 labeled, or 3) installed inside an air-tight assembly with a 0.5" clearance from combustible materials and a 3" clearance from insulation.

## Materials Identification:

- Materials and equipment are identified so that compliance can be determined.
- Manufacturer manuals for all installed heating and cooling equipment and service water heating equipment have been provided.
- Insulation R-values and glazing U-factors are clearly marked on the building plans or specifications.
- Insulation is installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.

**Duct Insulation:**

- Ducts in unconditioned spaces are insulated to R-8.
- Ducts in floor trusses are insulated to R-6.

**Duct Construction:**

- Air handlers, filter boxes, and duct connections to flanges of air distribution system equipment or sheet metal fittings are sealed and mechanically fastened.
- All joints, seams, and connections are made substantially airtight with tapes, gasketing, mastics (adhesives) or other approved closure systems. Tapes and mastics are rated UL 181A or UL 181B.
- Building framing cavities are not used as supply ducts.
- Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.
- Additional requirements for tape sealing and metal duct crimping are included by an inspection for compliance with the International Mechanical Code.

**Temperature Controls:**

- Thermostats exist for each dwelling unit (non-dwelling areas must have one thermostat for each system or zone). A manual or automatic means to partially restrict or shut off the heating and/or cooling input to each room is provided.

**Electric Systems:**

- Separate electric meters exist for each dwelling unit.

**Heating and Cooling Equipment Sizing:**

- Additional requirements for equipment sizing are included by an inspection for compliance with the International Mechanical Code.

**Circulating Hot Water Systems:**

- Circulating hot water pipes are insulated to R-2.
- Circulating hot water systems include an automatic or accessible manual switch to turn off the circulating pump when the system is not in use.

**Heating and Cooling Piping Insulation:**

- HVAC piping conveying fluids above 105 degrees F or chilled fluids below 55 degrees F are insulated to R-2.

**Certificate:**

- A permanent certificate is provided on or in the electrical distribution panel listing the predominant insulation R-values; window U-factors; type and efficiency of space-conditioning and water heating equipment.

**NOTES TO FIELD: (Building Department Use Only)**

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# 2006 IRC Energy Efficiency Certificate

| Insulation Rating | R-Value |
|-------------------|---------|
|-------------------|---------|

|                                  |       |
|----------------------------------|-------|
| Ceiling / Roof                   | 30.00 |
| Wall                             | 30.00 |
| Floor / Foundation               | 30.00 |
| Ductwork (unconditioned spaces): | _____ |

| Glass & Door Rating | U-Factor | SHGC |
|---------------------|----------|------|
|---------------------|----------|------|

|        |      |      |
|--------|------|------|
| Window | 0.02 | 0.21 |
| Door   | 0.02 | 0.21 |

| Heating & Cooling Equipment | Efficiency |
|-----------------------------|------------|
|-----------------------------|------------|

|                       |       |
|-----------------------|-------|
| Heating System: _____ | _____ |
| Cooling System: _____ | _____ |
| Water Heater: _____   | _____ |

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Comments: