

Permit #
Permit Date



REScheck Software Version 3.7 Release 1a

Compliance Certificate

Project Title: Sun Valley Apartments - Phase 2

Report Date: **02/24/06**

Energy Code: **2003 IECC**
 Location: **Slidell, Louisiana**
 Construction Type: **Multifamily**
 Glazing Area Percentage: **27%**
 Heating Degree Days: **1674**

Construction Site:
 Joseph St.
 Slidell, LA 70458

Owner/Agent:
 Brian Riene
 Omni Pinnacle
 1330 Corporate Square
 Slidell, LA 70458
 985-781-5182

Designer/Contractor:

Compliance: **Passes** Maximum UA: **12252** Your Home UA: **9797 --> 20.0% Better Than Code (UA)**

Maximum SHGC: **0.40** Your SHGC: **0.32**

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Glazing or Door U-Factor	UA
Ceiling 1: Flat Ceiling or Scissor Truss:	10200	19.0	19.0		265
Wall 1: Wood Frame, 16" o.c.:	1540	11.0	11.0		31
Window 1: Metal Frame:Double Pane with Low-E: SHGC: 0.32	720			0.400	288
Door 1: Solid:	240			0.050	12
Wall 2: Wood Frame, 16" o.c.:	1000	11.0	11.0		54
Wall 3: Wood Frame, 16" o.c.:	1780	11.0	11.0		44
Window 2: Metal Frame:Double Pane with Low-E: SHGC: 0.32	720			0.400	288
Door 2: Solid:	240			0.050	12
Wall 4: Wood Frame, 16" o.c.:	1000	11.0	11.0		54
Floor 1: Slab-On-Grade:Unheated: , Insulation Depth: 0.0'	8200		0.0		8544
Floor 2: All-Wood Joist/Truss:Over Unconditioned Space:	8200	19.0	19.0		205
Air Conditioner 1: Electric Central Air: 13 SEER					

Compliance Statement: Statement of Compliance: 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 2003 IECC requirements in REScheck Version 3.7 Release 1a and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Builder/Designer

Company Name

Date



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Inspection Checklist

Date: 02/24/06

Ceilings:

- Ceiling 1: Flat Ceiling or Scissor Truss, R-19.0 cavity + R-19.0 continuous insulation
Comments: _____

Above-Grade Walls:

- Wall 1: Wood Frame, 16" o.c., R-11.0 cavity + R-11.0 continuous insulation
Comments: _____
- Wall 2: Wood Frame, 16" o.c., R-11.0 cavity + R-11.0 continuous insulation
Comments: _____
- Wall 3: Wood Frame, 16" o.c., R-11.0 cavity + R-11.0 continuous insulation
Comments: _____
- Wall 4: Wood Frame, 16" o.c., R-11.0 cavity + R-11.0 continuous insulation
Comments: _____

Windows:

- Window 1: Metal Frame:Double Pane with Low-E, U-factor: 0.400

For windows without labeled U-factors, describe features:

#Panels ____ Frame Type _____ Thermal Break? ____ Yes ____ No

Comments: _____

- Window 2: Metal Frame:Double Pane with Low-E, U-factor: 0.400

For windows without labeled U-factors, describe features:

#Panels ____ Frame Type _____ Thermal Break? ____ Yes ____ No

Comments: _____

Doors:

- Door 1: Solid, U-factor: 0.050

Comments: _____

- Door 2: Solid, U-factor: 0.050

Comments: _____

Floors:

- Floor 1: Slab-On-Grade:Unheated, R-0 (uninsulated)

Comments: _____

- Floor 2: All-Wood Joist/Truss:Over Unconditioned Space, R-19.0 cavity + R-19.0 continuous insulation

Comments: _____

Solar Heat Gain Coefficient:

- The area-weighted average Solar Heat Gain Coefficient (SHGC) of all glazing cannot exceed 0.4. SHGC values must be 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 must be sealed.
- Recessed lights must be 1) Type IC rated, or 2) installed inside an appropriate air-tight assembly with a 0.5" clearance from combustible materials. If non-IC rated, the fixture must be installed with a 3" clearance from insulation.

Materials Identification:

- Materials and equipment must be identified so that compliance can be determined.
- Manufacturer manuals for all installed heating and cooling equipment and service water heating equipment must be provided.
- Insulation R-values, glazing U-factors, and cooling equipment efficiency must be clearly marked on the building plans or specifications.

Duct Insulation:

- Ducts in unconditioned spaces must be insulated to R-5. Ducts outside the building must be insulated to R-8.0.

Duct Construction:

- All ducts must be sealed with mastic and fibrous backing tape. Pressure-sensitive tape may be used for fibrous ducts. Duct tape is not permitted.
- The HVAC system must provide a means for balancing air and water systems.

Temperature Controls:

- Thermostats are required 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 shall be provided.

Electric Systems:

- Separate electric meters are required for each dwelling unit.

Circulating Hot Water Systems:

- Insulate circulating hot water pipes to the levels in Table 1.

Swimming Pools:

- All heated swimming pools must have an on/off heater switch and require a cover unless over 20% of the heating energy is from non-depletable sources. Pool pumps require a time clock.

Heating and Cooling Piping Insulation:

- HVAC piping conveying fluids above 120 degrees F or chilled fluids below 55 degrees F must be insulated to the levels in Table 2.

Table 1: **Minimum Insulation Thickness for Circulating Hot Water Pipes**

Heated Water Temperature (°F)	Insulation Thickness in Inches by Pipe Sizes			
	Non-Circulating Runouts		Circulating Mains and Runouts	
	Up to 1"	Up to 1.25"	1.5" to 2.0"	Over 2"
170-180	0.5	1.0	1.5	2.0
140-160	0.5	0.5	1.0	1.5
100-130	0.5	0.5	0.5	1.0

Table 2: **Minimum Insulation Thickness for HVAC Pipes**

Piping System Types	Fluid Temp. Range(°F)	Insulation Thickness in Inches by Pipe Sizes			
		2" Runouts	1" and Less	1.25" to 2.0"	2.5" to 4"
Heating Systems					
Low Pressure/Temperature	201-250	1.0	1.5	1.5	2.0
Low Temperature	120-200	0.5	1.0	1.0	1.5
Steam Condensate (for feed water)	Any	1.0	1.0	1.5	2.0
Cooling Systems					
Chilled Water, Refrigerant and Brine	40-55	0.5	0.5	0.75	1.0
	Below 40	1.0	1.0	1.5	1.5

NOTES TO FIELD: (Building Department Use Only)
