

Southern Nevada Building Officials

2003 International Energy Conservation Code Plan Submittal Requirements

Residential Requirements:

1. Prescriptive Method:

- Use the prescriptive values in the SNBO Residential IECC Handout. This method is limited to a maximum 15% glazing-to-wall ratio.
- Provide window to gross wall area calculations.

2. Software Design Method:

- Must use one of the following Software Tools:
 1. REScheck™: <http://www.energycodes.gov/>
 2. MicroPas® v7.1: <http://www.micropas.com/>
 3. Rem/Rate™: <http://www.archenergy.com/products/rem/>
- Submit the software-generated input/output data and the Compliance Report.
- The Compliance Report must be signed & sealed by the appropriate design professional in responsible charge.
- Duct pressure testing will require Special Inspection; see Chapter 17 of the International Building Code.
- Provide the energy summary information or a copy of the Compliance Report on the Code Analysis sheet of the building plans.
- Reflect all energy requirements on the construction detail sheets, cross-sections, mechanical sheets, plumbing sheets, and electrical sheets, as applicable.
- HVAC load calculations are NOT required to be submitted.

Commercial Requirements:

Commercial Buildings must meet the requirements of Chapter 8 of the International Energy Conservation Code (IECC) or ASHRAE/IESNA 90.1.

1. Prescriptive Method:

- IECC Sections 802, 803, 804 & 805 must each be satisfied on an individual basis. If (1) or more of these sections is not satisfied, compliance must be demonstrated in accordance to ASHRAE/IESNA 90.1.

- Provide window to gross wall area calculations.
- Use prescriptive envelope values in the SNBO amended tables, based upon the percentage of glazed openings:

a) $\leq 10\%$ -	Use Table 802.2(1)
b) $>10\%$ to 25% -	Use Table 802.2(2)
c) $>25\%$ to 40% -	Use Table 802.2(3)
d) $>40\%$ to 50% -	Use Table 802.2(4)
e) $>50\%$ -	Use ASHRAE/IESNA 90.1

- Use Section 803 of IECC for mechanical system requirements and show all information on the mechanical plans.
- Use Section 804 for service water heating requirements and show all information on the plumbing plans.
- Use Section 805 for electrical power and lighting system requirements and show all information on the electrical plans.

2. Software Design Method:

- May use COMcheck™ software (<http://www.energycodes.gov/>). This software must be used for all building elements; i.e. Envelope, mechanical, plumbing and electrical.
- Submit the software-generated input/output data and the Compliance Report. The individual element components may be signed & sealed by the design professional responsible for that particular element.
- The Compliance Report must be signed & sealed by the design professional in responsible charge of the entire building design.
- Provide the energy summary information or a copy of the Compliance Report on the Code Analysis sheet of the building plans.
- Show all energy compliance information on the applicable architectural, mechanical, plumbing and electrical plan sheets.
- HVAC load calculations are NOT required to be submitted.

Commercial Shell Buildings:

- Same as above (as applicable)
- Shell building must have complete envelope compliance with the code.

Tenant Improvements/Remodeling:

- If the exterior envelope is not altered, only electrical, mechanical and plumbing shall comply, as determined by the scope of work.
- If the exterior envelope is altered, only the elements replaced must comply.
- Vestibules will be required for all initial (new) tenant improvements. For remodeling of existing tenant spaces or for any change in occupancy only, please consult with your local jurisdiction.