This is an amendment to Sections 14.7.6.8 NMAC and 14.7.6.12 NMAC effective 2-24-08. 14.7.6.8 ADOPTION OF THE 2006 NEW MEXICO ENERGY CONSERVATION CODE: A. This rule adopts by reference the 2006 international energy conservation code (IECC), as amended by this rule. In this rule, each provision is numbered to correspond with the numbering of the 2006 В. international energy conservation code. C. This rule is to be applied in conjunction with each of the other 2006 New Mexico building codes, including the NMCBC, NMRBC, NMPC, NMMC and the NMEC. [14.7.6.8 NMAC - Rp, 14.7.6.8, NMAC, 1-1-08; A, 2-24-08] **CHAPTER 4 RESIDENTIAL ENERGY EFFICIENCY.** 14.7.6.12 401 General. See this section of the IECC. A. B. **402 Building thermal envelope.** See this section of the IECC except as provided below. 402.1 General (prescriptive). See this section of the IECC. (1) 402.2. Specific insulation requirements (prescriptive). See this section of the IECC except as (2) provided below. (a) 402.2.5 Floors. Delete the text of this section and substitute the following: The following requirements apply to new floors and to existing un-insulated floors, including above-garage and cantilevered floors. (i) 402.2.5.1 Floor insulation shall be installed to maintain permanent contact with the underside of the subfloor decking. (ii) 402.2.5.2 Batt and blown insulation shall be held in place by mechanical attachments. (iii) 402.2.5.3 The manufacturer's published installation instructions for in-floor heating shall be followed. **402.2.7** Slab-on-grade floors. See this section of the IECC and add the following **(b)** provisions: **402.2.7.1 Exception.** For slab-on-grade installations, the placement of vertical (i) perimeter insulation shall not be required to penetrate the top four (4) inches of the slab at door thresholds or between unheated garages, storage or mechanical areas, and heated living spaces. The required depth and placement of perimeter insulation shall not be required to a depth that exceeds that of the top of the spread footing or the bottom of the monolithically-poured footing as determined for frost protection. (ii) **Slab-on-grade sill plate sealer.** The space between the foundation and the bottom plate shall be sealed to limit infiltration by one of the following methods: application of a sill sealer that will expand and contract, or other equivalent material, between the foundation and the bottom plate; or application of caulk, or other equivalent material, to seal the bottom plate of exterior walls. (c) 402.2.11 Band joist/rim joists and corners. Band /rim joists and corners shall be insulated to the same level as exterior walls as required for wood frame wall R-values in Table 402.1.1 and must include an air barrier. (d) 402.2.12 Skylight Shafts and Knee Walls. Skylight shafts and knee walls shall be insulated to the same level as the exterior walls as required for wood frame wall R-values in Table 402.1.1. 402.2.13 Architectural Features. Code required building envelope insulation and air (e) sealing for exterior architectural features such as stairs and decks shall be continuous. **402.2.14 Insulation Installation Requirements.** Insulation shall be installed as follows: (**f**) (i) Insulation shall be installed according to manufacturer's published installation instructions. (ii) Wall insulation shall be enclosed on all six sides, and shall be in substantial contact with the sheathing material on at least one side (interior or exterior) of the cavity. (iii) Insulation shall uniformly fill each cavity side-to-side and top-to-bottom, without substantial gaps or voids around obstructions (such as blocking or bridging). (iv) Exterior rigid insulation shall be in firm contact with the structural sheathing materials, and shall be tightly fitted at joints. (v) Cavity insulation shall be split, installed, and/or fitted tightly around wiring and other services. (vi) Exterior sheathing shall not be visible from the interior through gaps in the cavity insulation.

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(g) 402.3 Fenestration. (Prescriptive.) See this section of the IECC except add the following new section: Section 402.3.7. Glazing-to-opaque wall area ratio. The ratio of glazing to opaque wall area shall not exceed eighteen percent (18%). Exception: when the ratio of glazing to opaque wall area exceeds eighteen percent (18%), compliance shall be demonstrated by using the calculation methods in the residential applications manual trade-off worksheet, dated June 2004, as prepared by the state of New Mexico energy, minerals and natural resources department.

(h) 402.4.1 Building Thermal Envelope. [See this section of the IECC except delete the text of subsection (3) and replace it with the following:] Delete the text of this section of the IECC and substitute the following:

(i) 402.1.1 Infiltration. The building thermal envelope on all new construction shall be durably sealed to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. The following shall be caulked, gasketed, weather stripped or otherwise sealed with an air barrier material, suitable film or solid material: all joints, seams and penetrations; site-built windows, doors and skylights; openings between windows and door assemblies and curb mounted skylights and their respective jambs and framing; utility penetrations; dropped ceilings separating a garage from conditioned spaces; behind tubs and showers on exterior walls; and other sources of infiltration.

(ii) 402.1.2 Existing building openings in level III alterations. The existing building openings between conditioned and un-conditioned space must be fully sealed and insulated, and any remaining gaps must be sealed with caulk or foam. Where required, fire rated material shall be used.

(iii) 402.4.1.3 Existing building doors and windows. Existing building openings between door and window assemblies and their respective jambs and framing shall be caulked, gasketed, weather stripped or otherwise sealed with an approved material.

(iv) <u>402.4.1.4 Existing building skylight shaft insulation.</u> Where access is available, all skylights and knee walls shall be caulked, gasketed or weather stripped and knee walls shall be insulated with an approved material.

[14.7.6.12 NMAC - Rp, 14.7.6.12, NMAC, 1-1-08; A, 2-24-08]