

1 Little Rock requires that all new residential construction have a HERS Index
2 Rating completed by an independent Residential Energy Services Network
3 (RESNET) Certified Home Energy Raters, or equivalent, prior to the issuance of
4 a Certificate of Occupancy. Residential developments that utilize the exact same
5 floor plan multiple times are required to have a HERS Index Rating completed on
6 a minimum of 20% of the residential units. As per Chapter Six of the RESNET
7 standards.

8 (2) *Sticker.*

9 A sticker provided by the City shall be posted in a very visible location near the
10 front entrance to the residential structure indicating the estimated monthly and five
11 (5)-year utility cost as derived from the HERS Rating until the structure is sold, or
12 for at least ninety (90) days, whichever is less.

13 (3) *Additions, Alteration and renovations.*

14 All additions, alterations and renovations to existing residential structures shall
15 comply with the standards of the 2009 IECC, but shall not be required to provide
16 a HERS Index Rating or post a sticker. Where it is shown to be impractical to meet
17 the 2009 IECC. "The Building Official may permit additions to comply with the
18 Rules and Regulations as adopted and promulgated by the Arkansas Energy Office,
19 and as from time to time hereafter may be amended."

20 (4) *Repairs.*

21 All repairs to existing residential structures and mechanical systems need only be
22 constructed to at least the same energy conservation standard as the damaged
23 structure or mechanical system which needed repair unless a higher standard is
24 required by the 2009 IECC.

25 (5) *Fees.*

26 The Fees Section 107 shall be removed from the 2009 IECC to reflect that only
27 the City Board of Directors can set required fees and any refund policy, the "Code
28 Official" cannot set fees nor a refund policy. All fees shall be as prescribed in the
29 1988 Little Rock Code of Ordinances.

30 (6) *Spray foam insulation.*

31 Spray application of polyurethane foam to the exterior of ducts in attics and crawl
32 spaces shall be permitted subject to all of the following.

- 33 A. The Flame Spread Index is not greater than twenty-five (25) and the
34 smoke-developed index is not greater than 450 at the specified installed
35 thickness.

- 1 B. The foam plastic is protected in accordance with the ignition barrier
2 requirements.
- 3 C. The foam plastic complies with the requirements of Section R316.
- 4 D. Duct coverings and linings shall not flame, glow, smolder or smoke when
5 tested in accordance with the American Society for Testing Materials
6 (ASTM) C 411 at the temperature to which they are exposed in service.
7 The test temperature shall not fall below 250°F (121°C). Coverings and
8 linings shall be listed and labeled.
- 9 E. External duct insulation and factory-insulated flexible ducts shall be
10 legibly printed or identified at intervals not longer than thirty-six (36)
11 inches (914 mm) with the name of the manufacturer, the thermal resistance
12 R-value at the specified installed thickness and the flame spread and
13 smoke-developed indexes of the composite materials. Spray polyurethane
14 foam manufacturers shall provide the same product information and
15 properties, at the nominal installed thickness, to the customer in writing at
16 the time of foam application. All duct insulation product R-values shall be
17 based on insulation only, excluding air films, vapor retarders or other duct
18 components, and shall be based on tested C-values at 75°F (24°C) mean
19 temperature at the installed thickness, in accordance with recognized
20 industry procedures. The installed thickness of duct insulation used to
21 determine its R-value shall be determined as follows:
- 22 F. For duct board, duct liner and factory-made rigid ducts not normally
23 subjected to compression, the nominal insulation thickness shall be used.
- 24 G. For ductwrap, the installed thickness shall be assumed to be 75% (25%
25 compression) of nominal thickness.
- 26 H. For factory-made flexible air ducts, the installed thickness shall be
27 determined by dividing the difference between the actual outside diameter
28 and nominal inside diameter by two.
- 29 I. For spray polyurethane foam, the aged R-value per inch measured in
30 accordance with recognized industry standards shall be provided to the
31 customer in writing at the time of foam application. In addition, the total
32 R-value for the nominal application thickness shall be provided.

33 (7) *Appeals.*

34 The Board of Appeals Section 109 shall be removed from the 2009 IECC and have
35 no force or application. Appeals of the Building Official's interpretation of this

1 Energy Code shall be heard by the existing Board of Construction Appeals and no
2 new Board of Appeals for interpreting the 2009 IECC shall be created by this Code.

3 **Section 2.** That in order to adequately prepare the residential construction industry for the 2009 IECC
4 and the related new testing requirements, the effective date of the new code shall be implemented in stages
5 as follows:

6 (1) All provisions of the adopted 2009 IECC, as amended, shall become effective on September
7 3, 2017, with the exception that a Certificate of Occupancy may be issued even if a residential
8 structure does not pass the air sealing/infiltration or duct sealing testing requirements.

9 (2) The HERS Index Rating and associated sticker requirements shall become effective on
10 September 3, 2017.

11 (3) All provisions of the adopted 2009 IECC, as amended, shall be effective on January 1, 2018.

12 **PASSED: May 16, 2017**

13 **ATTEST:**

APPROVED:

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16 **Susan Langley, City Clerk**

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16 **Mark Stodola, Mayor**

17 **APPROVED AS TO LEGAL FORM:**

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19 _____
20 **Thomas M. Carpenter, City Attorney**

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