

2012 INTERNATIONAL ENERGY CONSERVATION CODE(IECC)

2012 ENERGY CODE CHANGES:

The code changes are divided into two sections. EC13 for residential buildings and EC147 for commercial buildings.

Residential Changes:

- A mandatory air infiltration test in all homes to ensure building envelope efficiency per R 402.4
- A requirement that ducts be tested to a tighter duct leakage standard.
- An increase in stringency for insulation and glazing efficiency requirements.
- A set of options to solve the problem of “standing-and therefore wasting-heated water keeping pipes “short and skinny”.
- The elimination of a former duplication of model energy codes between the IECC and the International Residential Code.

R 402.4: Air Leakage: The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of section R402.4.1 through R402.4.4

R402.4.1 Building thermal envelope. The building thermal envelope shall comply with sections R402.4.1 and R402.4.1.2

R402.4.1.1 Installation. The components of the building thermal envelope shall be installed in accordance with the manufacturer’s instruction as applicable to the method of construction.

R402.4.1.2 Testing, The building or dwelling unit shall be tested and verified as having an air leakage, rate of not exceeding 5 ACH in climate zones 1 &2 and 3 ACH in climate 3 through 8. Testing shall be conducted with a blower door at 50 Pascals

TYPAR Housewrap and its system has been tested by an independent testing lab on a residential building using Typar system and resulted in less than 3 ACH with a blower door at 50 Pascal.

Commercial Changes:

- More efficient air leakage requirements by requiring continuous air barrier for the building envelope.
- Increased efficiency of the opaque thermal envelope provisions.

C402.4.1.2, Air barriers compliance options, a continuous air barrier for the opaque building envelope shall comply with section C402.1.2.1,C402.4.1.2.2, or C402.4.1.2.3

C402.1.2.1 Materials with an air permeability no greater than 0.004 cfm/sqft or 0.02 L/s.m² at 75 Pa when tested in accordance with ASTM E 2178

TYPAR HOUSEWRAP and METROWRAP has been tested per ASTM E-2178 by an independence testing lab and resulted in 0.00116 L/s.m2. Typar Housewrap and Metrowrap is approved by ICC-ES # 1404 and CCMC as an moisture and air barrier.

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BUILDING TYPE	REUIREMENTS	TYPAR RESULTS
COMMERCIAL	<0.02 L/sm2@75Pa	0.00116 L/sm2@75Pa
RESIDENTIAL	3-5 ACH	<3 ACH