



2015 MRC Chapter 11 (Energy Code) Changes Punch

- All new homes must be blower door tested by a third party
- Blower door requirements are not 4 air changes per hour (ach) vs the 7 ach that it was for the previous code.
- Duct leakage testing is required for all new homes that have ducts ran to unconditioned space (attic, vented crawl, etc.)
- Duct test requirements:
 - Post construction: 4 cfm per 100 sq. ft. of to outside or total duct loss
 - Rough-in: 4 cfm per 100 sq. ft. of total duct loss if furnace is installed or 3 cfm per 100 sq. ft. if furnace is not installed.
- Framed cavities can no longer be used as ducts, everything must be hard/flex ducted.
- Slight changes to the prescriptive insulation table were made
- ACCA manual J & S's are not required by the energy code and will be needed during the permitting stage.
- Whole house mechanical ventilation is not required on all new homes due to the tightened ach requirements and there are three different options.
 - Exhaust only: Continuous run bath fans
 - Supply only: Air cyclers systems
 - Balanced: HRV/ERV's
- 75 percent of permanently installed lighting fixtures must use high efficacy bulbs (CFL's, LED's, etc.)



The Four Code Compliance Paths

- **Prescriptive Path** – R-values based off of table N1102.1.1 or Assembly U Factors Based off of table N1102.1.3. Must follow (mandatory) and (prescriptive) code items. One possible insulation spec tradeoff
- **Total UA Path (prescriptive)** – Based off of the total UA of the home. REScheck approach. Must follow (mandatory) and (prescriptive) code items. Only takes thermal envelope into account. Minimal insulation spec tradeoff potential.
- **Performance Path** – Based off of homes simulated performance per section N1105. REMrate approach. Must follow (mandatory) code items only. Takes thermal envelope and home performance testing results into account. Max insulation spec tradeoff potential.
- **ERI Path (performance)** - Based off an Energy Rating Index analysis per section N1106. Must follow (mandatory) code items only. Takes thermal envelope, performance testing, HVAC, lighting, and appliances into account. Good insulation spec tradeoff potential but held to the limit of the 2009 IECC table R402.1.1 or R402.1.3 prescriptive insulation table.

Michigan Energy Code requires blower door tests. Thomas Township is not recommending any one energy auditor over the other; for your convenience below is a list of energy auditors. The list will be updated as we receive more business cards from certified blower door business.



HERS Ratings
Energy Star Ratings
Manual / Calculations
Energy Audits • Blower Door Testing
RESNET, BPI, & Energy Star Certified

David Rappuhn
989-284-8452
dwrappuhn@gmail.com

ES Energy Efficiency Experts, LLC
Michael Cripps
Co-Owner
Licensed & Insured
BPI Certified Energy Auditor
989-608-6174
www.insulationmidmichigan.com
insulationmidmichigan@gmail.com
Residential & Commercial Weatherization Company Located in Coleman, Michigan
Energy Audits • Injectable Foam • Attic Insulation • Whole-Home Weatherization

Bravo!
home performance LLC

Energy Audits and Consulting
Blower Door Testing
Thermal Infrared Inspections
Combustion Safety Testing
Res-Check / Com-Check
Energy Star & HERS Ratings

www.bravohomeperformance.com

Vance Bartell
BPI Certified Building Analyst
Rating Field Inspector, RESNET
989.971.1517
vance@bravohomeperformance.com
6710 Dempsey Rd.
St. Charles, MI 48065



Nathan Kleist

Chief Design Engineer

HERS Rated, IBCEA Certified Energy Auditor,
Commercial Code Specialist

406 E. Archer Way
Valparaiso IN, 46388

Phone: 219-461-1457

Fax: 219-464-0035

Email: nate@energydiagnostics.net

www.energydiagnosticsinc.com

- Code Compliance
- HERS Ratings
- Energy Star Certification
- Green Certification
- Home Energy Audits
- Blower Door Testing
- Manual J,D,S
- Commercial Code
- Energy Modeling
- Utility Allowances