



CALIFORNIA ENERGY COMMISSION

2013 Building Energy Efficiency Standards Staff Workshop

Residential field verification and diagnostic
testing for mechanical ventilation

August 23, 2011



Agenda

- Update our reference to 62.2
- New requirements for HVAC system air flow and filter labels
- Add requirement for field verification and diagnostic testing of IAQ air flow and HVAC filter labeling



Update Reference

- Update our reference from 2007 to **ANSI/ASHRAE Standard 62.2-2010 – Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings**
- Reference published 62.2 addenda including b and e.



Addenda b

- **6.7 Minimum Filtration. Adds:**
... or a minimum Particle Size Efficiency of 50% in the 3.0 – 10 um range in accordance with AHRI Standard 680, Performance Rating of Residential Air Filter Equipment.



Addenda e

- **6.7.1 Filter Pressure Drop.**

New mechanical and distribution systems covered by Section 6.7, installed after January 1, 2014, shall be designed to accommodate the clean filter pressure drop as rated using AHRI Standard 680, *Performance Rating of Residential Air Filter Equipment, 14 for the system design flow*. The filter locations shall be labeled with the design airflow and maximum allowable clean filter pressure drop. The label shall be visible to a person replacing the filter.



Verification of Filters

- Contractor shall label filter grills with required air flow and pressure drop, details to be determined
- Contractor shall install filters labeled by the manufacturer for efficiency and air flow
- Installed filters shall be consistent with the required air flow and the filter grill labels
- HERS rater shall verify using standard sampling



New Test and Verification Requirement

- Verification of IAQ ventilation outdoor air flow
- Similar procedure to AC Air Flow
 - Contractor measures air flow
 - HERS rater verifies
 - Normal sampling applies
 - Detailed procedure and equipment to be determined



2013 Standards Update

Send related comments by ???, 2011 to:

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