

ARAPAHOE COUNTY DRYER DUCT POLICY

IRC G2439 and sub-sections through B2439.7.6 (IFGC 614) All dryer exhaust ducts are to be compliant with the requirements of this section and all applicable sub-sections, which specify that the maximum length of a clothes dryer exhaust duct shall not exceed 35 feet from the dryer location to the outlet terminal. The maximum length of the duct shall be reduced as per the requirements of Table 2439.7.4.1, generally 2 feet 6 inches for a 45 degree 4 inch elbow and 5 feet for a 90 degree 4 inch elbow. Where the exhaust duct equivalent length exceeds 35 feet, the equivalent length of the exhaust duct shall be identified on a permanent label or tag. The label or tag shall be located within 6 feet of the exhaust duct connection

G2439.7.4.2 (IFGC 614.8.4.2) Manufacturer's instructions. The maximum length of the exhaust duct shall be determined by the dryer manufacturer's installation instructions. The *code official* shall be provided with a copy of the installation instructions for the make and model of the dryer. Where the exhaust duct is to be concealed, the installation instructions shall be provided to the *code official* prior to the concealment inspection. In the absence of fitting equivalent length calculations from the clothes dryer manufacturer, Table G2439.5.5.1 shall be utilized.

All terminations, whether vertical or horizontal, must be through an approved wall or roof jack with a back-draft damper and without any screen.

- The following policy is to be used when the listed exceptions above or relocation of the dryer to provide compliant duct length is not feasible:
 1. Provide an engineered stamped alternative duct design for review and approval, complete with calculations, duct component specifications, minimum CFM requirements and complete details for each duct component length, diameter and location. These calculations should include flow / friction loss details from a code compliant duct as prescribed in Section G2439.7 of the 2015 IRC and from the alternative design for equivalency comparison.
 2. Provide a simple duct isometric showing all duct components, their size, length and location.
 3. Provide a stamped engineer's letter stating a confirmation that as per IRC Sections R104.10 and R104.11, the submitted alternative design is at least equivalent and as safe as the code compliant duct design prescribed in IRC Section G2439.7.
 4. The stamped and signed letters must include the engineer's name, address and phone number, and should also reference the permit number, address of the property with the duct problem and builder's name, **or** the plan model number and builders name if this is a general design that is not for a specific address.
 5. Provide a copy of the design details and an isometric on site with the permit card to be able to verify compliant installation methods at the rough mechanical inspection. This copy will be taken and placed in the permit file at the County offices.