

OFFICE OF THE STATE FIRE MARSHAL

FIRE FLOW REQUIREMENTS

NOTE: Temporary fire lines must meet all system fire flow requirements. Temporary fire line approval is limited to a period not to exceed 90 days without an extension.

The following is provided as **INFORMATION ONLY** and is specific to the requirements of the Arizona State Fire Code (IFC-2003 edition) and Arizona Revised Statutes 41-2163.C. A project may also have to meet additional requirements as adopted under a locally amended Fire Code.

This information is provided only as a guideline. Projects are required to submit plans and specification information for formal review to receive a Permit.

The minimum required fire flow for all buildings (except residential dwellings of less than five units) is provided by the International Fire Code, 2003 edition. A minimum fire flow of 1500 gallons per minute with a residual pressure of 20 psi is required for all buildings. Fire flow requirements increase with the square foot and type of building construction. Fire flow requirements for structures may be reduced by installation of automatic fire sprinklers.

The required minimum storage capacity must maintain the required fire flow for a period of not less than 2 hours.

FIRE HYDRANT PLACEMENT

- The minimum number of fire hydrants to meet fire flow requirements is one. Additional hydrants may be necessary to meet minimum building fire flow requirements.
- The maximum spacing between fire hydrants is 500 feet.
- Local adopted Fire Code amendments may require additional hydrants depending on conditions such as dead end streets or large building complexes. High-hazard uses may require additional hydrant installations to meet fire flow requirements.

Where there is **NO** public water supply, provisions of the National Fire Protection Association Standard 1142 “Water Supplies for Urban and Rural Fire Protection” are applied to meet minimum fire flow requirements. When adopted by a local jurisdiction, the International Wildland Interface Code may be applied to meet minimum fire flow requirements in areas identified as being in the Wildland Interface.

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DEPARTMENT OF BUILDING AND FIRE SAFETY

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