

FIRE HYDRANT FLOW TEST APPLICATION

REQUESTED BY: _____

COMPANY: _____

ADDRESS: _____

PHONE NO.: _____ CELL NO.: _____

FAX NUMBER: _____ FAX RESULTS: _____

PROJECT / RESIDENT NAME: _____

PROJECT ADDRESS: _____

FIRE FLOW AREA, if applicable _____ sq. ft.
(Per definition on Fire Flow Information Sheet)

CONSTRUCTION TYPE: (use Florida Building Code type) _____

TYPE OF PROJECT:

- Residential Building
- Commercial Building
- Fire Protection System

IS THIS PROPOSED CONSTRUCTION PROJECT EQUIPPED WITH A FIRE
SUPPRESSION SPRINKER SYSTEM?

- YES
- NO

YOUR RESULTS WILL BE FAXED TO YOU IF REQUESTED ABOVE.

**Attach the Fire-Rescue Department approval letter and a copy of this worksheet
to the Building Permit Application.**

Submitted by:
Name: (print) _____ Signature: _____

Fee: \$117.53

FIRE FLOWS

The effective date for this requirement was January 1, 2013.

The Florida Fire Prevention Code (FFPC) now requires that newly constructed or substantially improved buildings, including one and two-family homes, must be built within the parameters of the fire flow capability provided to that property. These flows and durations are important to ensure that there is a sufficient water supply to extinguish a fire in the building and to keep it from spreading to nearby buildings.

The Code requires a minimum of 1,000 gallons per minute (GPM) fire flow for duration of two hours for homes having a fire flow area of 5,000 square feet or less. Fire flows for commercial construction and homes with a fire flow area exceeding 5,000 square feet shall not be less than that specified in the Florida Fire Prevention Code, NFPA 1, Chapter 18, Table 18.4.5.1.2. This table calculates the needed fire flow (GPM) based on the fire flow area and construction type of the building.

If the size of the proposed building or home design exceeds the water system capabilities, the Florida Fire Prevention Code provides the owner with the means for meeting and/or reducing the fire flow requirements. These options are listed below and may be incorporated in the building design either individually, or in combination with others.

DESIGN OPTIONS

- A 50% reduction in the required fire flow can be attained with the installation of a fire sprinkler system. Installation requirements can be found in the Florida Fire Prevention Code 2010, NFPA 13D or the Florida Building Code 2010 Residential Chapter 29, Section P2904. The reduction shall not reduce the required fire flow to less than 500 gallons per minute (GPM).
- A 25% reduction in the required fire flow can be attained for homes with a fire area of 5,000 square feet or less when separated from other buildings by a minimum of 30-feet.
- Based on Table 18.4.5.1.2 in NFPA 1, reductions in the required fire flow can be attained using different construction types and/or fire resistive materials.
- Adding a fire hydrant and/or increasing the size of the water main distribution system to provide for a greater gallon per minute (GPM) flow.
- The Fire-Rescue Department will accept any other recognized fire flow calculation method as an equivalency to the FFPC, i.e. Insurance Services Office (ISO) Method, Iowa State University (ISU) Method, Illinois Institute of Technology Research Institute Method.

COMMONLY ASKED QUESTIONS REGARDING FIRE FLOW REQUIREMENTS

What is fire flow?

It's the amount of water available from a fire hydrant available for fire fighting. The fire hydrant must be within 1000' of the building being constructed.

What is fire flow area?

The fire area includes the total of all floor areas within the building, in square feet, as used to determine the required fire flow. This generally means the area within the surrounding exterior walls. Areas of the building without surrounding exterior walls should be included in the fire area if such areas are within horizontal projection of the roof or floor above.

How do I determine the available fire flow for construction site?

Complete the attached "Fire Hydrant Flow Test Application Form" and submit it to Tequesta Fire Rescue Administrative Office. Fire Rescue personnel will be scheduled to conduct the fire flow test of the water system nearest your proposed construction site. When the test is completed you will be provided with documentation of the test and an approval letter for Building Permit Application, if the water is available for your project.

Is there a fee charged for a fire flow test?

Yes, Fire Rescue administration will provide you the current rate for this test. Fee's need to be collected prior to the test being performed; you can call 561-768-0550 to check on the cost of this test.