

Summary of required Fire Flow

## 1. Site Data

Structure	<u>Bldg Area</u>	<u>Fire Flow Area</u>
Building 1	380,160. SF	

Type of Construction - II(222) - from NFPA 220; Fire Resistive, Non-combustible

2. Determine Required Fire Flow per Florida Fire Prevention Code (NFPA 1 as amended)  
(Unsprinkled Building)

Required Fire Flow (RFF) = 6,000 gpm @ 20 PSI per NFPA 1 Ch 18 table 18.4.5.1.2

3. Determine Required Fire Flow per Florida Fire Prevention Code (NFPA 1 as amended)  
(For NFPA compliant Automatic Sprinkled Building)

Sprinkled Bldg Required Fire Flow reduce RFF by 75% =	1500 gpm @ 20 PSI
Minimum Required Flow for Sprinkled Bldg =	1000 gpm @ 20 PSI USE 1500 gpm

## 4. Determine Available Flow from Flow Test

Static = 83.6 psi  
Residual = 75.5 psi  
Flow = 1190 gpm

$$1190 (83.6 - 20 / 83.6 - 75.5)^{0.54} = 3,621.028 \text{ gpm @ 20 PSI}$$

Total Flow at 20 psi using test data Residual Pressure  
FH 3,621 gpm



## Fire Prevention Fire Hydrant Flow Test



**City of Pompano Beach • Bureau of Fire Prevention**  
100 West Atlantic Boulevard, Room 220 Pompano Beach, FL 33060  
Phone: (954) 786-4695

City of Pompano Beach Fire Prevention will **WITNESS** all fire hydrant flow test that are required for fire flow purposes.

- City of Pompano Beach Code of Ordinances Title IX Chapter 95 Section 95.14(G). Fire hydrant flow tests.
  - The Fire Department shall witness all hydrant flow tests as required for fire protection systems.
  - All fire flow tests shall be in accordance with NFPA 291 and Broward County Amendments F-112.
  - Broward County Amendments F-112(e) - The static pressure at the water main shall be determined by a recorded method for a minimum twenty-four (24) hour period.
  - Morning of fire Hydrant static/residue connection contractor to provide documents of test equipment certification.

**Information:**

Date:	3/5/2020
Company Requesting Flow Test:	Phillips Fire Sprinklers, INC
Contact Name:	Alex Calvo
Contact Phone Number:	(954) 444-1135 (cell) (954) 217-0600 (office)
Email Address:	AlexC@PhillipsFire.com
Associated Application Number:	N/A
Associated Project Name:	Hidden Harbour (Future Project)

**Proposed Date/Time for Fire Hydrant Flow Test: (8am – 9am)**

- Request Hydrant Flow Test minimum 72 hours in advance.
- Connection of Fire Hydrant for 24 hour static/residual must be between 0730hrs and 0830hrs.

Requested Date:	3/11	Time:	8:00 AM
Alternate Date:	3/12	Time:	8:00 AM

**Fire Hydrant Flow Test Location:**

Hydrant Location - Static/Residual:	
Hydrant Location - Flow:	

**Fire Hydrant Flow Test Witness Fee:**

There is a \$150.00 fee for performing each flow test. All tests will be completed within 5 business days. Please include map/sketch showing streets/cross streets & locations of flow and residual fire hydrants. Return flow test application to the Bureau of Fire Prevention with form of payment for \$150.00.

Make check and money orders payable to "CITY OF POMPANO BEACH"

If mailing in application with payment send to the addressed listed below.

**Pompano Beach Fire Prevention**  
100 W. Atlantic Blvd. – Room 220  
Pompano Beach, FL 33060

NOTE TO TREASURY: Post to 001-0000-367.30-00

	Yes	No	
<b>Flow Test Equipment Certification:</b>			<b>Date:</b>

  

Fire Hydrant Id	Flow Pitot PSI	Flow GPM	Static Pressure 24 hr. Low PSI	Static Pressure Before Flow	Residual	Tip Size
						2.5"
				83.6 psi	75.5 psi	
<b>Total Hydrant Flow:</b>			1190 gpm			

- Fire Flow Data to be completed and entered on site.
- Fire flow data provided to Fire Prevention at a later date, must be signed/sealed by the Engineer of Record.

Person Conducting Flow Test:

Fire Inspector Witnessing Flow Test:

P&Z