

## 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

# AAC

PZ21-12000023  
9/7/2021



# 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	
Flow Test Equipment Certification:			Date:

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	
Total Hydrant Flow:		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:

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