

Project: Pompano Townhomes	Date:
Project No. 12411.00	2/28/2023
Computed by: NW	Page:
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## COMPUTING WORKSHEET

### Summary of Required Fire Flow

#### 1. Site Data

Structure	Bldg Floor Area	Fire Flow Area
<b>North Building</b>		
Residential	7,868 SF	7,868 SF (Max. with 1 hr rated fire wall separation)
<b>South Building</b>		
Residential	11,529 SF	11,529 SF (Max. with 1 hr rated fire wall separation)

#### North & South Building

Type of Construction - III(200) - from NFPA 220; Unprotected Ordinary

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

##### North Building

Required Fire Flow (RFF) = **1,750 gpm @ 20 PSI** per NFPA 1 Ch 18 table 18.4.5.1.2  
Duration = **2 Hours**

##### South Building

Required Fire Flow (RFF) = **2,250 gpm @ 20 PSI** per NFPA 1 Ch 18 table 18.4.5.1.2  
Duration = **2 Hours**

#### 3. Determine Required Fire Flow per Florida Fire Prevention Code (NFPA 1 as amended)

##### Building A

Unsprinkled Bldg (No Fire Flow Reduction) = **1,750 gpm @ 20 PSI**

##### Building B-1

Unsprinkled Bldg (No Fire Flow Reduction) = **2,250 gpm @ 20 PSI**

Controlling Required Fire Flow **2250 gpm**

#### 4. Determine Available Flow from Flow Test

Total Flow at 20 psi using test data Residual Pressure

FH **7,518 gpm**

Total Available Flow @ Test Static (79 psi) **7,518 gpm**

#### Available flow exceeds Required Fire Flow Unsprinkled Building

Total Flow at 20 psi with Design System Residual Pressure Adjusted to 50 psi

FH **5,218 gpm**

Total Available Flow @ 50 psi Static **5,218 gpm**

#### Available flow exceeds Required Fire Flow for Unsprinkled Building