



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
North Building		
Residential	7,868 SF	7,868 SF (Max. with 1 hr rated fire wall separation)
South Building		
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