

COMPUTING WORKSHEET

Summary of required Fire Flow

1. Site Data

Structure	Bldg Area	Fire Flow Area
Building A		
Residential Building	83,333 SF	31,283 SF (Max. with 1 hr rated fire wall separation)

Building Extension

Type of Construction - II(111) - from NFPA 220

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

Required Fire Flow (RFF) = 2,500 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)
(For NFPA compliant Automatic Sprinkled Building)**Building 1**

Sprinkled Bldg Required Fire Flow reduce RFF by 75% =

Minimum Required Flow for Sprinkled Bldg =

Minimum Required Flow for Quick Response Heads =

625 gpm @ 20 PSI

1000 gpm @ 20 PSI USE 1,000.00 gpm

600 gpm @ 20 PSI USE 600 gpm

Total Required Fire Flow 1,000.00 gpm

4. Determine Available Flow from Flow Test

Total Flow at 20 psi using test data Residual Pressure

FH

2,236 gpm

Total Available Flow @ 20 psi

2,236 gpm Exceeds Required Fire Flow (RFF)

Available flow exceeds Required Fire Flow unsprinkled building

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

FH

1,569 gpm

Total Available Flow @ 50 psi Static

1,569 gpm Exceeds Sprinkled Bldg RFF

Available flow exceeds Required Fire Flow for sprinkled Building