

Occupancy Classification: Residential Commercial

Florida Building Code Construction Type: \_\_\_\_\_

Number of Floors: \_\_\_\_\_

Fire Area per Floor: \_\_\_\_\_

The fire area is the floor area in square feet used to determine the required fire flow. It is determined based on the floor area within the surrounding exterior walls and fire separation walls used to create separate buildings.

Total fire area: *(check one)*

Total fire area – Fire area per floor X number of floors \_\_\_\_\_ or

If type IA or Type IB construction:

Total fire area = Fire area per floor X area of the three largest successive floors \_\_\_\_\_

The fire flow GPM from the attached table is \_\_\_\_\_ for \_\_\_\_\_ hours flow duration

**Reductions:**

75% if building is protected throughout by an approved automatic sprinkler system but not less than 1000 GPM.

Required fire flow GPM \_\_\_\_\_ minus 75% = \_\_\_\_\_ or 1000 GPM

75% if building is protected throughout by an approved automatic sprinkler system using quick response sprinkler throughout but not less than 600 GPM.

Required fire flow GPM \_\_\_\_\_ minus 75% = \_\_\_\_\_ or 600 GPM

**REQUIRED FLOW TEST DATA**

1. Map showing location of proposed building, flow hydrant and static/residual hydrant.
2. Date and time of flow test.
3. Name of company conducting flow test and witnesses to flow test.
4. Static and residual PSI from static/residual hydrant.
5. Flow in GPM from flow hydrant and PSI at flow from flow hydrant.

**Table 18.4.5.2.1 Minimum Required Fire Flow and Flow Duration for Buildings**

| Fire Flow Area ft <sup>2</sup> |                      |                      |                      |                     | Fire Flow GPM | Flow Duration (Hours) |
|--------------------------------|----------------------|----------------------|----------------------|---------------------|---------------|-----------------------|
| IA, IB                         | IIA, IIIA            | IV, VA               | IIB, IIIB            | VB                  |               |                       |
| 0-22,700                       | 0-12,700             | 0-8200               | 0-5900               | 0-3600              | 1500          | 2                     |
| 22,701-30,200                  | 12,701-17,000        | 8201-10,900          | 5901-7900            | 3601-4800           | 1750          | 2                     |
| 30,201-38,700                  | 17,001-21,800        | 10,901-12,900        | 7901-9800            | 4801-6200           | 2000          | 2                     |
| 38,701-48,300                  | 21,801-24,200        | 12,901-17,400        | 9801-12,600          | 6201-7700           | 2250          | 2                     |
| 48,301-59,000                  | 24,201-33,200        | 17,401-21,300        | 12,601-15,400        | 7701-9400           | 2500          | 2                     |
| 59,001-70,900                  | 33,201-39,700        | 21,301-25,500        | 15,401-18,400        | 9401-11,300         | 2750          | 2                     |
| 70,901-83,700                  | 33,701-47,100        | 25,501-30,100        | 18,401-21,800        | 11,301-13,400       | 3000          | 3                     |
| 83,701-97,700                  | 47,101-54,900        | 30,101-35,200        | 21,801-25,900        | 13,401-15,600       | 3250          | 3                     |
| 97,701-112,700                 | 54,901-63,400        | 35,201-40,600        | 25,901-29,300        | 15,601-18,000       | 3500          | 3                     |
| 112,701-128,700                | 63,401-72,400        | 40,601-46,400        | 29,301-33,500        | 18,001-20,600       | 3750          | 3                     |
| 128,701-145,900                | 72,401-82,100        | 46,401-52,500        | 33,501-37,900        | 20,601-23,300       | 4000          | 4                     |
| 145,901-164,200                | 82,101-92,400        | 52,501-59,100        | 37,901-42,700        | 23,301-26,300       | 4250          | 4                     |
| 164,201-183,400                | 92,401-103,100       | 59,101-66,000        | 42,701-47,700        | 26,301-29,300       | 4500          | 4                     |
| 183,401-203,700                | 103,101-114,600      | 66,001-73,300        | 47,701-53,000        | 29,301-32,600       | 4750          | 4                     |
| 203,701-225,200                | 114,601-126,700      | 73,301-81,100        | 53,001-58,600        | 32,601-36,000       | 5000          | 4                     |
| 225,201-247,700                | 126,701-139,400      | 81,101-89,200        | 58,601-65,400        | 36,001-39,600       | 5250          | 4                     |
| 247,701-271,200                | 139,401-152,600      | 89,201-97,700        | 65,401-70,600        | 39,601-43,400       | 5500          | 4                     |
| 271,201-295,900                | 152,601-166,500      | 97,701-106,500       | 70,601-77,000        | 43,401-47,400       | 5750          | 4                     |
| Greater than 295,900           | Greater than 166,500 | 106,501-115,800      | 77,001-83,700        | 47,401-51,500       | 6000          | 4                     |
|                                |                      | 115,801-125,500      | 83,701-90,600        | 51,501-55,700       | 6250          | 4                     |
|                                |                      | 125,501-135,500      | 90,601-97,900        | 55,701-60,200       | 6500          | 4                     |
|                                |                      | 135,501-145,800      | 97,901-106,800       | 60,201-64,800       | 6750          | 4                     |
|                                |                      | 145,801-156,700      | 106,801-113,200      | 64,801-69,600       | 7000          | 4                     |
|                                |                      | 156,701-167,900      | 113,201-121,300      | 69,601-74,600       | 7250          | 4                     |
|                                |                      | 167,901-179,400      | 121,301-129,600      | 74,601-79,800       | 7500          | 4                     |
|                                |                      | 179,401-191,400      | 129,601-138,300      | 79,801-85,100       | 7750          | 4                     |
|                                |                      | Greater than 191,400 | Greater than 138,300 | Greater than 85,100 | 8000          | 4                     |

**Criteria regarding Maximum Fire Hydrant Fire Flow Capacity shall be considered applicable in accordance with NFPA 1 Table 18.5.4.3 Florida Fire Prevention Code - Sixth Edition**