



A Civil Engineering Firm
Tel: (786)302-7693 • Email: wilford@zephyrengineeringfl.com

DRC

PZ23-12000023

07/17/2024

May 14, 2024

FIRE FLOW CALCULATIONS

Pompano Warehouses

2103 SW 15th Street
Pompano Beach, FL 33069

These calculations are for two one-story buildings. Building A has an area of 17,922 SF and Building B has an area of 3,521 SF. The total area for both buildings is 21,443 SF.

Fire Flow Area = 21,443 SF

Per NFPA 18.4, Fire Flow Requirements, the required fire flow for Type II (222) construction for the above-referenced fire flow area is 1,500 GPM.

Per NFPA 18.4.5.3.2, a reduction in required fire flow of 75% shall be permitted when the building is protected throughout by an approved automatic sprinkler system. The resulting fire flow may not be less than 1000 gpm.

$(1,500 \text{ GPM}) \times 0.75 = 1,125 \text{ GPM}$ (fire flow credit for automatic sprinkler system)

$(1,500 \text{ GPM}) - (1,125 \text{ GPM}) = 375 \text{ GPM}$

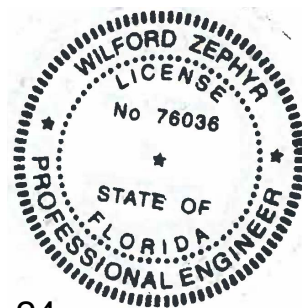
Per NFPA 18.4.5.3.2, The resulting fire flow may not be less than 1,000 GPM

Therefore, fire flow required=1,000 GPM

Prepared by:

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Wilford Zephyr, P.E., LEED AP, CFM

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5451 Pierce Street, Hollywood, FL 33021
website: zephyrengineeringfl.com