



HOLLAND ENGINEERING  
CIVIL ENGINEERING SOLUTIONS

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## **FIRE FLOW CALCULATIONS**

Warehouse Addition for Pompano 1150  
A One-Story Warehouse Building  
1150 SW 30<sup>th</sup> Avenue, Pompano Beach, FL 33069

These calculations are for a one-story warehouse building. The entire building is non-combustible construction.

Based on Type II (222) construction.

The total floor area is 6,405 square feet, and as per NFPA 1 (2018 Ed.) Table 18.4.5.2.1, the fire flow required is 1,500 gpm for a duration of 2 hours.

As per NFPA 1 (2018 Ed.) Section 18.4.5.3.2, the required fire flow shall be reduced by 75 percent when the building is protected throughout by an approved automatic sprinkler system. The resulting fire flow shall not be less than 1,000 gpm.

$1,500 \text{ gpm} \times 75\% = 1,125 \text{ gpm}$  (Fire Flow Credit)

$1,500 \text{ gpm} - 1,125 \text{ gpm} = 375 \text{ gpm}$

As per NFPA 1 (2018 Ed.) Section 18.4.5.3.2, the fire flow shall not be less than 1,000 gpm.

Fire Flow Required = 1,000 gpm



This seal has been digitally signed & sealed by Susan C. Holland, P.E. Printed copies of this document are not considered signed and sealed and the signatures must be verified on any electronic copies.

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