



Chesterfield County Fire Department – Plans Review
Fire Flow Estimate Form
 International Fire Code Method of Calculating NFF (Needed Fire Flow)

Engineer: _____ Date: _____

Project Name and Address: _____ Calc By: _____

Type of Construction – Based on 2012 Edition of the International Building Code

Number of Stories: _____

Total Ground Floor Area – Including Projections (Canopies, Loading Docks, Etc): _____

Total Area of Other Floors – Including Basements _____

Total Building Area in Square Feet _____

FIRE AREA CONSIDERED: _____

Note: In order to apply the reduction in area for a building, a fire resistive rated FIRE WALL without openings

shall be provided. WITHOUT OPENINGS refers to no penetrations being permitted (i.e. – doors, duct penetrations, pipe penetrations. (B104.2)

Fire Resistive Rating of FIRE WALL _____ (Hours)

Area In Square Feet Between FIRE WALL or Either Side _____

Required Fire Flow from International Fire Code – Table B105.1 _____

Fire Flow Duration in Hours from International Fire Code – Table B105.1 _____

NEEDED FIRE FLOW : (Based on Total Adjusted Square Foot Area)

Automatic Sprinklers (YES ___ NO ___) Reduction Factor (75% max) _____ % x
 (NFF) _____ = _____ **GPM**

TOTAL GPM: _____

NOTE: MINIMUM REQUIRED FIRE FLOW NOT LESS THAN 1500 GPM
 AT MINIMUM 20 PSI RESIDUAL PRESSURE

FIRE HYDRANTS AND SPACING:

REQUIRED MINIMUM NUMBER OF FIRE HYDRANTS (IFC Table C105.1)

AVERAGE SPACING BETWEEN FIRE HYDRANTS (IFC Table C105.1)

I CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND CORRECT.

SIGNATURE: _____ **P.E.**

(SIGNATURE REQUIRED)

Reference: 2012 Edition International Fire Code, Appendix B, C, and D