



Required Fire Flow Calculation Form

PROJECT: _____ Date: _____

LOCATION: _____

DEVELOPER: _____ PHONE: _____

ARCHITECT: _____ PHONE: _____

BUILDING CONSTRUCTION TYPE: IA, IB, IIA, IIB, IIIA, IIIB, IV, VA, VB (circle one)

Number of stories: ____/____ Footprint area: _____ Mezzanines/partial floors _____

TOTAL GROSS AREA: _____

All Commercial & Single Family 3,600 square feet or greater

1. Obtain the basic flow from the RFDS Basic Flow Chart for the identified Construction type and gross area: Basic Flow: _____

2. Add 10% if residential use is > 50% (except SFR) x 1.1 _____

3. For fire sprinklers subtract 50% x 0.5 _____

4. For exposure protection multiply by 1.00 to 1.75*

(*To determine the exposure factor add a percentage for each of four directions. Use the conversion table to convert distance to percent, and then add the percent to the previous total.*)

Conversion Table

<u>Feet = %</u>	<u>Feet = %</u>
0'-10' = 25%	N = _____ = _____
11'-25' = 20%	E = _____ = _____
26'-40' = 15%	W = _____ = _____
41'-80' = 10%	S = _____ = _____
81'-120' = 5%	Subtotal: _____ (.75 maximum)

X 1. _____ = _____

Other surcharge or credit (Explain): _____

TOTAL REQUIRED FIRE FLOW: _____

FIRE FLOW AVAILABLE PER PUBLIC WORKS: _____

Single Family Residential Developments (<3,600 square foot homes):

1. No Fire Sprinklers = 1500 gpm/All Fire Sprinklers = 1000 gpm _____

2. Wood shingles allowed in the development **add** 250 gpm _____

3. Less than 10 feet allowed between structures **add** 250 gpm _____

TOTAL REQUIRED FIRE FLOW: _____

FIRE FLOW AVAILABLE PER PUBLIC WORKS: _____