BLACK MOUNTAIN IRRIGATION DISTRICT
285 Gray Road
Kelowna, B.C.
V1X 1W8

# FUS CALCULATION

**PROJECT** _____ Date _____

**CLIENT** _____ File _____

1. Type of Construction: _____
   Coefficient (C) based on type of construction = _____
   Total Floor Area: _____ $ft^2$ _____ $m^2$

   Fire Flow From Formula ( $F = 220\ C\ A^{0.5}$ ): _____ L/min. (a)

2. Type of Occupancy: _____ Hazard: _____
   Hazard Allowance: _____ x (a) = _____ L/min.
   Sub-Total: _____ L/min. (b)

3. Automatic Sprinklers: _____
   Sprinkler Allowance: _____ x (b) = _____ L/min. (c)

4. Exposures:

| | $m^{(1)}$ | $Exposure^{(2)}$ |
|---|---|---|
| 1. North | _____ | _____ percent |
| 2. South | _____ | _____ |
| 3. East | _____ | _____ |
| 4. West | _____ | _____ |

   Exposure Allowance (75% Maximum): _____ x (b) = _____ L/min. (d)

   TOTAL FIRE FLOW REQUIRED: (rounded*) _____ L/min. (b-c+d)

**TOTAL FIRE FLOW REQUIRED:** _____ **L/s**

Engineering / Architectural Firm _____

Designer _____

(print name here)

Engineer _____
(sign name here)

Engineer's Seal _____

**Construction Coefficient**

C=1.5, Wood Frame

C=1.0, Ordinary (brick or other masonary walls, combustible floor and interior)

C=0.8, Non-Combustible (unprotected metal structural components, masonry or metal walls)

C=0.6, Fire-Resistive (fully protected frame, floors, roof)

Floor Area includes all storeys, excluding basements at least 50% below grade

| | (1) Separation | (2) Max. Charge |
|---|---|---|
| **Hazard Allowance** | 0 to 3 m | 25% |
| -25% dwellings, apartments | 3.1 to 10 m | 20% |
| -20% hospitals, elem. schools | 10.1 to 20 m | 15% |
| -15% high schools | 20.1 to 30 m | 10% |
| (*) Values to nearest L/minute | 30.1 to 45 m | 5% |