

THE CITY OF REDMOND FIRE DEPARTMENT - PREVENTION DIVISION

Redmond Fire Department Standard Administrative Ruling / Interpretation



Code Section: RFDS 3.0 Code Edition:

Title: Fire Flow Calculation Adjustment

Date: July 23, 2007

When calculating fire flow for buildings of Type IA or IIA construction with "B" occupancy designations for at least 75% of the building and other (mixed) uses of less than 25%, none of which may be an H occupancy, then the exposure factor for the building may be divided by 2.

An Example:

Building X has 115,000 gsf of Type IIA construction with 90% B occupancy and 10% A occupancy. There is a 10% exposure factor on each of four sides.

Base Flow = 6,000 gpm

 Type A
 $\frac{-250}{5,750}$

 Sub
 $\frac{x}{5,750}$

 Sub
 $\frac{2,875}{2,875}$

Expos. x = 1.2 (40%/2 = 20% surcharge > 1.2)

Total 3,450 gpm

Dahari Layati

Robert Lovett Fire Marshal