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undertake a number of hydraulic calculations on wet and dry risers in high rise buildings. This report provides results of sample calculations using a BRE software package "Riser flow" to calculate water flows in wet and dry risers. The report describes the assumptions made . to undertake the calculations and details the

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Research Division (FSRD) to undertake a number of hydraulic calculations on wet and dry risers in high rise buildings. This report provides results of sample calculations using a BRE software package "Riser flow" to calculate water flows in wet and dry risers. The report describes the assumptions made to undertake the calculations and details the

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The hydraulic power supplied by a pump is: $\text{Power} = (P \times Q) \div 500$ - where power is in kilowatts [kW], P is the pressure in bars, and Q is the flow in litres per minute. Example: if a pump delivers 180 litres/minute and the pressure is 250 bar, then the hydraulic calculation for prime mover power of the pump is: $\text{Power} = (250 \times 180) \div 500 = 90 \text{ kW}^{**}$.

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Hydraulic Equations. Q AOP Density for first sprinkler flow. where: Q = USGPM AOP = Area of Sprinkler operations 1500 3000 ft² for light hazard Density = USGPM/ft² or water/square foot Hydraulic Equations 2 Q p for first sprinkler pressure K where: Q = USGPM QK p K=sprinkler factor p=pressure in psig Hydraulic Equations

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Velocity of oil flow in a pipe: velocity (ft/sec) = flow (gpm) x .3208 / inside area of the pipe (sq ins)

Circle area formulas: Area (sq ins) = $\pi \times r^2$ where π (pi) = 3.1416 and r = radius in inches squared. Area (sq ins) = $\pi \times d^2 / 4$ where π (pi) = 3.1416 and d = diameter in inches.

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With Hcalc - Spk Flow you can solve any of the three variables in the K-Factor formula, the flow from the sprinkler, the pressure required at a sprinkler and the K-Factor without the need of remembering the formula. The K-factor formula is one of the basic building blocks of fire sprinkler design and fire protection hydraulic calculations, most of us will have committed it to memory but now ...

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Equation 1: $q_1 = (\text{design density}) \times (\text{area per sprinkler})$ In this example, this gives: $q_1 = 7.50 \text{ mm/min} \times 10.20 \text{ m}^2 = 76.50 \text{ L/min}$. The second step is to calculate the minimum flow from the sprinkler given the K-Factor and the minimum head pressure by using the standard K-Factor formula:

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Hydraulic Calculation of Wet and Dry Risers, Hoses and Branches Fire Research Technical Report 4/2005 December 2004 Building Research Establishment On behalf of the Office of the Deputy Prime Minister: London The findings and recommendations in this report are those of the consultant authors and do not necessarily □ Hydraulic Calculation of ...

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The hydraulic radius is thus: $RH = A/P = y^2z / \{2[y^2(1 + z^2)]^{1/2}\}$ Circular Cross Section. The hydraulic radius for a circular pipe flowing full is easy to calculate. The cross-sectional area is $A = \pi D^2/4$ and the wetted perimeter is $P = \pi D$. Substituting into the equation $RH = A/P$ and simplifying the expression gives: $RH = D/4$.

~~Calculation of Open Channel Flow Hydraulic Radius ...~~

Hydraulic calculations provide a verifiable analysis of the 3 primary components of a fire suppression system: 1) The water delivery requirements to suppress a possible fire 2) The available water supply 3) The network of piping that will deliver this water in the event of a fire. Water delivery requirements

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