

Warehouse Fires

Warehouse Fire Statistics

- 30% of total non-residential structure fires are in storage facilities
- 23% of storage fires are arson
- 60% of fires occur between 18:00 & 6:00

Typically sprinklered but no fire detection – Why?

- Large Volume – smoke diluted
- High Ceilings – smoke stratifies
- Current smoke detectors are ineffective



Annual Risk Expense – Probability of Fire X Single Loss Occurrence

- 1% chance of fire that requires fire brigade intervention Avg. cost \$590,000
- 0.25% chance of warehouse fire that causes roof collapse Avg. cost \$6,000,000*
- **Average annual risk expense** = $(.01 \times 590,000 + .0025 \times 6,000,000) = \mathbf{\$20,900}$



Video Fire & Smoke Detection is the Solution!

*The Probability of Fires in Warehouses and Storage Premises, Hymes & Flynn, 1992