

## Fire Safety Insights

# Understanding Fire Dynamics in High-Rise Buildings

Australian Safety Guide

## Key Takeaways

- ✓ High-rise fire behaviour & stack effect
- ✓ Coordinated response by Fire, Police, Ambulance & SES
- ✓ Practical fire safety strategies

## Background and Context

High-rise fires present **unique challenges** including the "**stack effect**" and rapid smoke spread. Coordination between emergency services is critical in managing these incidents.



## Core Fire Dynamics in Tall Buildings

### Stack Effect & Smoke Movement

Hot smoke rises rapidly through shafts & stairwells.



### Ventilation & Smoke Control Systems

Pressurised stairwells and smoke exhaust systems



Evacuation Planning



Regular Drills



Fire Suppression Systems



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