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**Update on Development of Draft SS
Mechanical Ventilation and Air-conditioning in Buildings
(Revision of SS CP 13)**

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Purpose and basis of review

- Review is part of the 5 year cycle for all standards
- Feedback and suggestions from users of the CP
- Inputs from WG members

Introduction to SS CP 13 - Scope

- Current Scope

“ Provides general guidance in the design, construction, installation, testing & commissioning, maintenance and operation of mechanical ventilation and air-conditioning systems”

- Under review to retain:

- Emphasis on energy efficiency in meeting the SS 530 requirements,
- Reference to new SS on issues of IAQ
- Reference to the Fire Code on issues of design requirements of fire protection, including smoke purging systems

Mandatory Requirements

- The Performance-based Building Control Regulations 2003
- Approved document clause G3.1, refers to compliance with SS CP 13, **which covers the following areas:**
 - Section 5 – Ventilation Rates
 - General Requirements (all sub-clauses)
 - Outdoor air intakes (all sub-clauses)
 - Outdoor air supply (sub-clauses 5.3.1 and 5.3.2)
 - Section 6 – Mechanical Ventilation Systems
 - Car parks (all sub-clauses)
 - Basement car parks (sub-clause 6.1.8.3 and 6.1.8.4)

Proposed Changes – Ventilation Rates

- Ventilation rates for air-conditioning and mechanical ventilation will be reviewed to be brought in line with current practice.
 - References will be made to ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers) Standard 62 and other codes
- Kitchen Exhausts requirements in terms of sizing, design and construction details to be reviewed

Proposed Changes – Fire Protection

- Transfer specific sections to the Fire Safety & Shelter Department (FSSD) Fire Code for issues in Air-Conditioning and Mechanical Ventilation (ACMV) related to fire safety
- Examples:
 - Smoke detectors for AHU shutdown, and requirements for remote operations.
 - Pressurization in exit staircases and smoke stop lobbies.
 - Smoke purging requirements in basement car parks.
 - Specific requirements for emergency power for ventilation related to fire requirements.
 - Design requirements such as fire stopping for pipe and duct penetrations in compartment walls and floors.

Proposed Changes - Maintenance

- Maintenance of systems and equipment includes:
 - General requirements
 - Suggested schedule of tasks at monthly, half yearly and annually
 - Mechanical ventilation installations

Proposed Changes – Commissioning

- Testing and Commissioning will cover the following:
 - General intent and suggested procedure at the design, construction and building completion phases
 - The need for proper qualified personnel to perform the commissioning

Enquiries and Submissions

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Thank You