

## Chapter 1 CONSTRUCTION

- and often the initial invition
- **4.3.9.** Thus the whole mechanism involved in façade flame spread, after the initial ignition, can be pin pointed to the following factors.
  - a. Readily Combustible Core of the façade material (Insulation/Sealants/Panels)
  - b. Inferior Façade Panel integrity (Poor Panel make and skin bonding)
  - c. Non tested and Non listed Façade, Sealants and Fire stopping systems
  - d. Poor installation of Façade and Fire stopping Systems
  - e. Lack of Thermal barriers and Cavity fire barriers
- **4.3.10.** The initial ignition of the fire can be attributed to human behavior as well. **See Chapter 18.**, **Section 2.21. Responsibilities of Residents.**

## 4.4. Façade Approval from Civil Defence

## 4.4.1. Ten Point Approach to mitigate Façade Fires

Following 10 approaches have been adopted by UAE Civil Defence to tackle the causes of Façade flame spread, pointed out in **Section 4.3.9.** 

- **4.4.1.1.** Core of the Façade material shall be tested in exposed form as per test requirements of this code.
- 4.4.1.2. Façade panel as a product shall be tested as per test requirements of this code.
- 4.4.1.3. Façade system as wall assembly shall be tested or listed as per test requirements of this code.
- 4.4.1.4. Curtainwall, Perimeter joints and fire stopping shall be a listed system.
- 4.4.1.5. Cavity Fire Barrier bands shall be provided in concealed cavities between façade and primary substrate, at every slab.
- 4.4.1.6. Fire Breaks shall be provided vertically on exterior façade.
- 4.4.1.7. Exterior Sprinklers should be considered for the balconies having combustible facade. Interior window sprinklers should be considered for the glazing. See Chapter 9.
- 4.4.1.8. Consultants shall have competent and qualified façade specialists inhouse or shall hire Civil Defence approved house of expertise who have experience and expertise in façade consultancy for Façade design, system selection and supervision of the façade contractor.
- 4.4.1.9. Façade contractor and fabricator shall be approved by Civil Defence, with valid Civil Defence License.
- **4.4.1.10.** Façade installation shall be inspected throughout installation process and certified by Consultant or Civil Defence approved House of Expertise.

