



4.4.4. Design, Specifications and Proposal Approval

- 4.4.4.1. It is consultant's responsibility to recruit Façade specialists in house or hire Civil Defence approved House of Expertise to design the façade system in complete compliance with this code.
- 4.4.4.2. Consultant's façade design submittal to Civil Defence shall be during project design NOC application, along with architecture, fire alarm, fire fighting and smoke control proposals. See **Annexure 1. Drawing Submission Requirements.**
- 4.4.4.3. Consultant's façade design shall be complete with system listings, material approval certifications, drawings, sections, illustrations specifying installation methods as per manufacturer's guide-lines, insulations, thermal barriers, panel railing, cavity fire barrier locations/specifications, primary substrate details and fixing details.
- 4.4.4.4. Engineering Judgments (EJ), if any, shall be permitted where Civil Defence has no objections. Such Engineering Judgment submissions to Civil Defence shall be site specific, prepared and stamped jointly by main consultant, House of expertise, Cladding contractor, façade system manufacturers and façade installers.
- 4.4.4.5. Where the building envelope is uniquely shaped and designed, or there is no clear distinction between façade and roofing, or where a single envelope is installed as roofing as well as façade envelope, such materials and system assembly shall satisfy both façade and roofing test requirements and shall be subjected to "mock-up" tests, if Civil Defence initiates such a requirement based on the proposal reviews.

4.4.5. Installation

- 4.4.5.1. It is consultant's responsibility to ensure that the installers and fabricators hired are qualified and approved by Civil Defence. See **Chapter 18. Section 2.5. Consultant's Responsibilities.**
- 4.4.5.2. It is consultant's responsibility to ensure that the installation is carried out by Civil Defence and Municipality approved installers and fabricators as per the design specifications, system manufacturer's installation instructions and complies with code and the local construction regulations.

4.4.6. Installer Qualification

- 4.4.6.1. Installer specializing in façade and cladding system shall be trained as per manufacturer's standards and guidelines and certified by the system manufacturer.
- 4.6.6.2. The trained and experienced installer shall be qualified and licensed by Civil Defence. The Civil Defence written examinations and license shall be based on the training and certification provided by the system manufacturer to install manufacturer's products as per specified listed system requirements.