



4. Façade and Exterior Wall Covering Systems

4.1. Applicability

- 4.1.1.** The provision of this section specifies the minimum requirements for the classification, combustibility, surface burning and flame spread ratings, design, installation, inspection, and maintenance of exterior façade wall cladding, balcony coverings and components such as, Metal Composite Panels, Aluminum Composite Panels, Polycarbonate Panels, EIFS, ETICS, GRC, GRFC, GRP, Glazing, insulation, sealants etc.
- 4.1.2.** The weather protection of buildings is not the scope or intention of this section. Thermal and Weather protection aspect of the building façade, such as protection from temperature, wind, water, pressure etc., shall comply with Municipality regulations, assembly tests and requirements.
- 4.1.3.** The intention of this section is to ensure that flame spread on exterior façade is restricted.
- 4.1.4.** This section applies only to non load bearing exterior walls.
- 4.1.5.** Where exterior walls are required to be loadbearing, such walls shall comply with relevant sections of this **Chapter**.

4.2. Material Tests

- 4.2.1.** Except for natural stones and concrete, only materials, tested, listed with Civil Defence and complying to the following sections shall be allowed on exterior facades, based on the building height and occupancy types.
 - a. Metal Composite Materials (MCM, ACP) complying to Section 4.6.**
 - b. Exterior Insulation and Finish Systems (EIFS) and External Insulation Composite System (ETICS) complying to Section 4.7.**
 - c. Polycarbonate External Wall and Façade System (PEWFS) complying to Section 4.8.**
 - d. Sandwich Panels complying to Section 4.9.**
 - e. GRC /GRFC and GRP Systems to Section 4.10.**
 - f. Glazing Systems complying to Section 5.**
- 4.2.2.** Where “Assembly Tests” are mandated by **Section 4.2.1.**, the tests shall be conducted for the entire system assembly, that is intended for use on building façade, including wall panels, cavities, insulation, panel rails, joints, sealants, seams, fasteners, barriers and other construction details. Laboratories testing assembly tests shall ensure that the test specimen is duplicated as per intended final installation specifications, including dimensions, cavities, joints and sealants. Laboratories shall ensure that façade assembly tests are not ‘over engineered’ purely to pass test criteria.
- 4.2.3.** The tests shall clearly indicate “Pass” or “Fail” criteria and such results shall be clearly noted on the Test Certificates (and CoC, Certificate of Compliance), in evaluation of the following minimum requirements.
 - a.** The wall assembly shall resist flame propagation over the face of the exterior wall.
 - b.** The wall assembly shall resist flame propagation over the face of the interior of the wall assembly and cavity.
 - c.** The wall assembly shall resist flame propagation from one story to the next.
 - d.** The wall assembly shall resist flame propagation from compartment of fire origin to the adjacent compartment.

