Building Envelope Compliance Documentation

Project Name:		
Project Address:		Date:
Designer of Record:	Email:	Telephone:
Contact Person:	Email:	Telephone:
City:	Climate Zone:	Criteria Table:

Mandatory Provisions Checklist

Insulation (Section 5.4.1 and 5.8.1)

- ❑ Insulation materials are installed in accordance with manufacturer's recommendations and in such a manner as to achieve rated R-value of insulation.
  - ❍ Exception: for metal building roofs or metal building walls.
- ❑ Loose-fill insulation is not used in attic roof spaces when the slope of the ceiling is more than three in twelve.
- ❑ Attic eave vents have baffling to deflect the incoming air above the surface of the insulation.
- ❑ Insulation is installed in a permanent manner in substantial contact with the inside surface.
- ❑ Batt insulation installed in floor cavities is supported in a permanent manner by supports no greater than 24 in. (600 mm) on center.
- ❑ Lighting fixtures, HVAC, and other equipment are not recessed into the building envelope in such a manner to affect the insulation thickness.

  Exceptions:
  - ❍ The recessed area is less than 1% of the total opaque area of the assembly.
  - ❍ The entire roof, wall, or floor is covered with insulation to the full depth required.
  - ❍ The effects of reduced insulation are included in calculations using an area-weighted average.
- ❑ Roof insulation is not installed over a suspended ceiling with removable ceiling panels.
- ❑ Exterior insulation is covered with a protective material to prevent damage. Insulation is protected in attics and mechanical rooms where access is needed.
- ❑ Foundation vents do not interfere with the insulation.
- ❑ Insulation materials in ground contact have a water absorption rate no greater than 0.3%.
- ❑ Where two or more layers of rigid insulation board are used in a construction assembly, the edge joints between each layer of boards is staggered.

Fenestration and Doors (Section 5.4.2 and 5.8.2)

- ❑ U-factors are determined in accordance with NFRC 100. U-factors for skylights shall be determined for a slope of 20° above the horizontal.

  Exceptions:
  - ❍ U-factors are taken from Section A.8.1 for skylights.
  - ❍ U-factors are taken from Section A.8.2 for vertical fenestration.
  - ❍ U-factors are taken from Section A.7 for opaque doors.
  - ❍ U-factors are derived from DASMA 105 for sectional garage doors and metal coiling doors.
- ❑ Solar heat gain coefficient (SHGC) is determined in accordance with NFRC 200.

  Exceptions:
  - ❍ SHGC is determined by multiplying the shading coefficient (SC) of the center of the glass by 0.86. Shading coefficient is determined using a spectral data file determined in accordance with NFRC 300.
  - ❍ SHGC for the center of glass is used. SHGC is determined using a spectral data file determined in accordance with NFRC 300.
  - ❍ SHGC is taken from Section A8.1 for skylights.
  - ❍ SHGC is taken from Section A8.2 for vertical fenestration.
- ❑ Visible transmittance (VT) is determined in accordance with NFRC 200.
  Exception:
  - ❍ For skylights whose transmittances are not within the scope of NFRC 200, their transmittance is the solar photometric transmittance of the skylight glazing materials determined in accordance with ASTM E972.

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Air Leakage (Section 5.4.3)

- ❑ The building envelope has a continuous air barrier meeting the requirements of Section 5.4.3.1.
- ❑ Air leakage through fenestration and doors meets the requirements of Section 5.4.3.2.

  Exceptions:
  - ❍ Field-fabricated fenestration and doors.
  - ❍ Metal coiling doors in semiheated spaces in Climate Zones 0 through 6.
  - ❍ Products that comply with the maximum whole-building leakage rate per Exception 3 to Section 5.4.3.2.
- ❑ Cargo doors and loading dock doors are equipped with weatherseals in Climate Zone 0 and Climate Zones 4 through 8.
- ❑ Building entrances have vestibules.

  Exceptions:
  - ❍ Building entrances have revolving doors.
  - ❍ Doors not intended as building entrance.
  - ❍ Doors opening directly from a dwelling unit.
  - ❍ Building entrances in buildings located in Climate Zone 1 or 2.
  - ❍ Building entrances in buildings located in Climate Zone 3 that are both (1) less than four stories and (2) smaller than 10,000 ft² (1,000 m²) in gross conditioned floor area.
  - ❍ Building entrances in buildings located in Climate Zones 4, 5, 6, 7, and 8 less than 1,000 ft² (100 m²) in gross floor area.
  - ❍ Doors separate from the building entrance that open into spaces smaller than 3,000 ft² (300 m²) in gross conditioned floor area.
  - ❍ Semiheated spaces.
  - ❍ Enclosed elevator lobbies for building entrances directly from parking garages.