

Building Envelope Compliance Documentation

Part I

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

Mandatory Provisions Checklist

Insulation (§ 5.4.1)

- 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. o.c.
- Lighting fixtures, HVAC, and other equipment are not be recessed in ceilings in such a manner to affect the insulation thickness unless.

Exceptions:

- The recessed area is less than one percent.
- 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 averages.
- Roof insulation is not installed over 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 percent.

Fenestration and Doors (§ 5.4.2)

- 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 A.8.1 for glazed wall systems in vertical fenestration and/or skylights.
 - U-factors are taken from A.8.2 other fenestration products.
 - U-factors are taken from A.7 for opaque doors.
 - U-factors are derived from DASMA 105 for garage doors.
- Solar heat gain coefficient (SHGC) is determined in accordance with NFRC 200.

Exceptions:

- SHGC is determined by multiplying the shading coefficient (SC) 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 § A8 for glazed wall systems in vertical fenestration and skylights.
- Visible light transmittance is determined in accordance with NFRC 200.

Air Leakage (§ 5.4.3)

- The *building envelope* is sealed, caulked, gasketed, and/or weather-stripped to minimize air leakage.
- Air leakage through fenestration and doors is less than 0.4 cfm/ft² (1.0 cfm/ft² for glazed swinging entrance doors and for revolving doors) when tested in accordance with NFRC 400.

Exceptions:

- Field fabricated fenestration and doors.
- For garage *doors* tested in accordance with DASMA 105.
- Cargo doors and loading dock doors are equipped with weatherseals in climates zones 3 through 8.

- Entrance doors have vestibules.

Exceptions:

- Climate zone 1 or 2
- Building is less than four stories.
- Doors not intended as building entrance.
- Doors open from dwelling unit(s).
- Doors open from spaces smaller than 3,000 ft².
- Building has revolving doors.
- Doors for vehicular movement or material handling.

