

Project Name:			
Project Address:		Date:	
Designer of Record:		Telephone:	
Contact Person:		Telephone:	
City:	HDD65:	CDD50:	Criteria Table:

Mandatory Provisions Checklist

Insulation (§ 5.2.1)

- 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 (§ 5.2.2)

- 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 NAGDM 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 A.8.1 for glazed wall systems in vertical fenestration and skylights.
- Visible light transmittance is determined in accordance with NFRC 200.

Air Leakage (§ 5.2.3)

- 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 NAGDM 105
- Cargo doors and loading dock doors are equipped with weatherseals in climates with more than 3,600 HDD65
- Entrance doors have vestibules

Exceptions:

- Climates has less than 1800 HDD65
- 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



Building Envelope Compliance Documentation

Project Name:						
Contact Person:					Telephone:	
Space Category	5.3.2.3 Exceptions	Window-Wall Ratio	Total	North (Opt.)	Other (Opt.)	Skylight-Roof Ratio
Nonresidential	North Oriented	Gross Wall Area (ft ²):				Gross Roof Area (ft ²):
Residential	Overhangs	Window Area (ft ²):				Skylight Area:
Semi-Heated	Street Level Windows	Window-Wall Ratio:				Skylight-Roof Ratio

Opaque Surfaces

Description/ Name	Class (Pick one)							Pick one	Pick one	High Reflectance/Emitance Roof	Proposed Insulation R-value, U-factor , C-factor, or F-factor	Criteria Insulation R-value, U-factor, C-factor, or F-factor	Surface Area (ft ²) (optional)
	Roof	Wall			Floor	Slab	Door						
	Insulation Above Deck Metal Building Attic and Other	Mass Metal Building Steel Framed Wood Framed / Other	Below-Grade Wall	Mass Steel Joist Wood Framed / Other	Unheated Heated	Swinging Non-Swinging	R-value Option U-factor Option						
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Building Envelope Compliance Documentation

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Fenestration

Description/ Name	Class (Pick one)					NFRC Rating Appendix A Defaults	Proposed Fenestration						Criteria			
	Window, North, Operable	Window, North, Fixed	Window, Other, Operable	Window, Other, Fixed	Skylight, Curb, Glass		Skylight, Curb, Plastic	Skylight, No Curb	Area	U-factor	Solar Heat Gain Coefficient (SHGC)	Overhang	Projection Factor	Overhang Multiplier	Adjusted Solar Heat Gain Coefficient (SHGC)	U-factor
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