



Envelope Compliance Certificate

Section 1: Project Information

Energy Code: **2014 Oregon Energy Efficiency Specialty Code**
 Project Title: Benton County Health
 Project Type: Alteration
 Envelope Compliance Method: Prescriptive

Construction Site: 530 NW 27th Street Corvallis, OR 97330	Owner/Agent: Chris Bielenberg Benton County 360 SW Avery AVE Corvallis, OR, OR 97330 chris.e.bielenberg@co.benton.or.us	Designer/Contractor: Blake Bural AC+Co Architecture Community 363 State Street Salem, OR 97301 bbural@accoac.com
Building Location (for weather data): Climate Zone: Vertical Glazing / Wall Area Pct.:	Salem, Oregon 4c 16%	

Building Use: Area Type	Floor Area
1-Health Care-Clinic : Nonresidential	33345

Section 2: Envelope Assemblies and Requirements Checklist

Envelope PASSES

Envelope Assemblies:

Post-Alteration Assembly	R-Value		Proposed		Max. Allowed	
	Cavity	Cont.	U-Factor	SHGC	U-Factor	SHGC
Roof 1: Attic Roof with Wood Joists, [Bldg. Use 1 - Health Care-Clinic], Exemption: Roof cavity filled with minimum R-3/inch insulation.	---	---	---	---	---	---
Exterior Wall 1: Wood-Framed, 16" o.c., [Bldg. Use 1 - Health Care-Clinic], Exemption: Cavity filled with minimum R-3/inch insulation	---	---	---	---	---	---
Window 1: Vinyl/Fiberglass Frame, Tinted, [Bldg. Use 1 - Health Care-Clinic]	---	---	0.350	0.400	0.350	0.400
Window 2: Metal Frame Curtain Wall/Storefront, Tinted, [Bldg. Use 1 - Health Care-Clinic]	---	---	0.450	0.400	0.450	0.400
Door 1: Glass (> 50% glazing):Metal Frame, Entrance Door, Entrance Door, [Bldg. Use 1 - Health Care-Clinic]	---	---	0.800	0.400	0.800	0.400
Door 2: Insulated Metal, Swinging, [Bldg. Use 1 - Health Care-Clinic]	---	---	0.700	---	0.700	---
Basement Wall 1: Solid Concrete:8" Thickness, Normal Density, Furring: Wood, Wall Ht 8.0, Depth B.G. 6.0, [Bldg. Use 1 - Health Care-Clinic]	15.0	0.0	0.072	---	0.108	---

(a) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

In the following requirements, blank checkboxes identify requirements that the applicant has not acknowledged as being met. Checkmarks identify requirements that the applicant acknowledges are met or excepted from compliance. 'Plans reference page/section' identifies where in the plans/specs the requirement can be verified as being satisfied.

Fenestration Product Rating:

- ✓ 1. U-factors of fenestration products (windows, doors and skylights) are determined in accordance with NFRC 100 by an accredited, independent laboratory, and labeled and certified by the manufacturer or are determined using the commercial size category values listed in Chapter 15 of the 2009 ASHRAE Handbook of Fundamentals, Table No.4 and shall include the effects of the window frame. The temporary label affixed to the fenestration products must not be removed prior to inspection.

Plans reference page/section: _____

- ✓ 2. Solar heat gain coefficient (SHGC) of glazed fenestration products (windows, glazed doors and skylights) shall be determined in accordance with NFRC 200 by an accredited, independent laboratory, and labeled and certified by the manufacturer or be determined using the Solar Heat Gain Coefficients (SHGC) in Chapter 15 of the 2009 ASHRAE Handbook of Fundamentals, Table No.10. The overall values must consider type of frame material and operator for the SHGC at normal incidence.

Plans reference page/section: _____

Air Leakage, Insulation, and Component Certification:

- ✓ 3. Sealing of the building envelope. Openings and penetrations in the building envelope are sealed with caulking materials or closed with gasketing systems compatible with the construction materials and location. Joints and seams are sealed in the same manner or taped or covered with a moisture vapor-permeable wrapping material. Sealing materials spanning joints between construction materials allow for expansion and contraction of the construction materials.

Plans reference page/section: _____

- ✓ 4. Window and door assemblies. The air leakage of window and sliding or swinging door assemblies that are part of the building envelope are determined in accordance with AAMA/WDMA/CSA 101/I.S.2/A440, or NFRC 400 by an accredited, independent laboratory, and labeled and certified by the manufacturer.

- ✓ **Exception applies:** Site-constructed windows and doors that are weatherstripped or sealed in accordance with Section 502.4.3.

Plans reference page/section: _____

- ✓ 5. Curtain wall, storefront glazing and commercial entrance doors. Curtain wall, storefront glazing and commercial-glazed swinging entrance doors and revolving doors are tested for air leakage in accordance with ASTM E 283. For curtain walls and storefront glazing, the maximum air leakage rate is 0.3 cubic foot per minute per square foot of fenestration area. For commercial glazed swinging entrance doors and revolving doors, the maximum air leakage rate is 1.00 cfm/ft2 of door area.

Plans reference page/section: _____

- ✓ 6. Building thermal envelope insulation. An R-value identification mark is applied (by manufacturer) to each piece of insulation 12 inches or greater in width. Alternately, the insulation installers have provided a signed, dated and posted certification listing the type, manufacturer and R-value of insulation installed. Refer to code section for blown or sprayed insulation installation/settling depths and marker requirements.
- ✓ 7. Insulation mark installation. Insulating materials are installed such that the manufacturer's R-value mark is readily observable upon inspection.
- ✓ 8. Insulation product rating. The thermal resistance (R-value) of insulation has been determined in accordance with the U.S. FTC R-value rule.
- ✓ 9. Installation. All material, systems and equipment are installed in accordance with the manufacturer's installation instructions and the International Building Code.
- ✓ 10. Outdoor air intakes and exhaust openings. Stair and elevator shaft vents and other outdoor air intakes and exhaust openings integral to the building envelope shall be equipped with not less than a Class I motorized, leakage-rated damper with a maximum leakage rate of 4 cfm per square foot at 1.0 inch water gauge when tested in accordance with AMCA 500D. Stair and shaft vent dampers shall be capable of being automatically closed during normal building operation and interlocked to open as required by fire and smoke detection systems.

Plans reference page/section: _____

- ✓ 11. Loading dock weatherseals. Cargo doors and loading dock doors are equipped with weather seals to restrict infiltration when vehicles are parked in the doorway.

Requirement is not applicable.

Plans reference page/section: _____

- ✓ 12. Recessed lighting. Recessed luminaires installed in the building thermal envelope are sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires are IC-rated and labeled as meeting ASTM E 283. All recessed luminaires are sealed with a gasket or caulk between the housing and interior wall or ceiling covering.

Plans reference page/section: _____

- ✓ 13. Vestibules. Doors that separate conditioned space from the exterior are protected with an enclosed vestibule, with all doors of the vestibule equipped with self-closing devices. Vestibules are designed so interior and exterior doors to not operate simultaneously.

Plans reference page/section: _____

- ✓ 14. 'Other' components have supporting documentation for proposed U-Factors.

Plans reference page/section: _____

Section 3: Compliance Statement

Compliance Statement: The proposed envelope alteration project represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope alteration project has been designed to meet the 2014 Oregon Energy Efficiency Specialty Code requirements in COMcheck Version 4.0.5.3 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title

Signature

Date