



Envelope Compliance Certificate

Section 1: Project Information

Energy Code: **2012 North Carolina Energy Conservation Code**

Project Title: Camp Agape - Bolick Medical Center

Project Type: New Construction

Construction Site:

1369 Tyler Dewar Lane
Fuquay Varina, NC 27526

Owner/Agent:

Designer/Contractor:

Building Location (for weather data):

Fuquay-Varina, North Carolina

Climate Zone:

4a

Vertical Glazing / Wall Area Pct.:

9%

Skylight Glazing / Roof Area Pct.:

1%

Building Use: Area Type**Floor Area**

1-Healthcare Clinic/Hospital : Nonresidential

1020

Section 2: Envelope Assemblies and Requirements Checklist

Envelope PASSES: Design 1% better than code.**Envelope Assemblies:**

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor ^(a)
Exterior Wall 1: Wood-Framed, 16" o.c., [Bldg. Use 1 - Healthcare Clinic/Hospital]	1152	23.0	5.0	0.043	0.064
Window 1: Vinyl/Fiberglass Frame, Perf. Specs.: Product ID Plygem 800 Pro Series, SHGC 0.27, PF 0.33, [Bldg. Use 1 - Healthcare Clinic/Hospital] (b)	100	---	---	0.330	0.320
Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - Healthcare Clinic/Hospital]	24	---	---	0.480	0.500
Roof 1: Attic Roof with Wood Joists, [Bldg. Use 1 - Healthcare Clinic/Hospital]	901	40.0	0.0	0.026	0.024
Skylight 1: Metal Frame with Thermal Break:Glass, With Curb, Perf. Specs.: Product ID Prismatic, SHGC 0.34, [Bldg. Use 1 - Healthcare Clinic/Hospital] (b)	5	---	---	0.510	0.600
Roof 2: Attic Roof with Wood Joists, [Bldg. Use 1 - Healthcare Clinic/Hospital]	119	40.0	0.0	0.026	0.024
Skylight 2: Metal Frame with Thermal Break:Glass, With Curb, Perf. Specs.: Product ID Prismatic, SHGC 0.34, [Bldg. Use 1 - Healthcare Clinic/Hospital] (b)	1	---	---	0.510	0.600
Floor 1: Wood-Framed, [Bldg. Use 1 - Healthcare Clinic/Hospital]	1020	38.0	0.0	0.026	0.026

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

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

Air Leakage, Component Certification, and Vapor Retarder Requirements:

- 1. All joints and penetrations are caulked, gasketed or covered with a moisture vapor-permeable wrapping material installed in accordance with the manufacturer's installation instructions.
- 2. Windows, doors, and skylights certified as meeting leakage requirements.
- 3. Component R-values & U-factors labeled as certified.
- 4. No roof insulation is installed on a suspended ceiling with removable ceiling panels.
- 5. 'Other' components have supporting documentation for proposed U-Factors.
- 6. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.

- 7. Shaft vents serving stairs and elevators integral to the building envelope are equipped with motorized dampers.

Exceptions:

- Buildings without fire alarm system.
- Stairway vents open to the exterior.
- 8. Cargo doors and loading dock doors are weather sealed.
- 9. Recessed lighting fixtures installed in the building envelope are Type IC rated as meeting ASTM E283, are sealed with gasket or caulk.
- 10. Building entrance doors have a vestibule equipped with self-closing devices.

Exceptions:

- Building entrances with revolving doors.
- Doors not intended to be used as a building entrance.
- Doors that open directly from a space less than 3000 sq. ft. in area.
- Doors used primarily to facilitate vehicular movement or materials handling and adjacent personnel doors.
- Doors opening directly from a sleeping/dwelling unit.
- Buildings less than four stories above grade and less than 10,000 ft2 in area.

Additional Efficiency Package Requirements:

- 1. The high efficiency HVAC option has been selected as the additional efficiency package required by this energy code. Systems that do not meet the performance requirement will be identified in the mechanical requirements checklist report.

Section 3: Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2012 North Carolina Energy Conservation Code requirements in COMcheck Version 4.0.5.5 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title

Signature

Date